

# Coal Industry Annual 1999

**Energy Information Administration**

Office of Coal, Nuclear, Electric  
and Alternate Fuels

U.S. Department of Energy

Washington, DC 20585-0650

**This report is available on the Web at:**

[http://www.eia.doe.gov/cneaf/coal/cia/cia\\_sum.html](http://www.eia.doe.gov/cneaf/coal/cia/cia_sum.html)

# Contacts

This publication was prepared by Fred Freme under the direction of Bill Watson, Team Leader of the Coal Team, in the Office of Coal, Nuclear, Electric, and Alternate Fuels. Specific information about the data in this report can be obtained from Fred Freme at (202)

287-1740, or e-mail [Frederick.Freme@eia.doe.gov](mailto:Frederick.Freme@eia.doe.gov). All other questions on coal statistics should be directed to the National Energy Information Center at (202) 586-8800, or e-mail [INFOCTR@EIA.DOE.GOV](mailto:INFOCTR@EIA.DOE.GOV).

# Preface

*Coal Industry Annual 1999* provides comprehensive information about U.S. coal production, number of mines, prices, productivity, employment, productive capacity, and recoverable reserves. U.S. coal production for 1998 and 1999 are based on the U.S. Department of Labor's Mine Safety and Health Administration's Form 7000-2, "Quarterly Mine Employment and Coal Production Report." Coal production for 1997 and previous years is based on the annual survey EIA-7A, "Coal Production Report."

This report also presents data on coal consumption, coal distribution, coal stocks, coal prices, and coal quality. Appendix A contains a compilation of coal statistics for the major coal-producing States. This report also includes national total coal consumption for nonutility power producers that are not in the manufacturing, agriculture, mining, construction, or commercial sectors.

The base year for the implicit price deflator, which is used to convert nominal figures to real figures is 1996 (Table D2).

This report constitutes the 24th annual report on coal production published by EIA and continues the series

formerly included in the *Minerals Yearbook* published by the Bureau of Mines.

The data presented in the report were collected and published by the Energy Information Administration (EIA), to fulfill its data collection and dissemination responsibilities, as specified in the Federal Energy Administration Act of 1974 (Public Law 93-275), as amended. Data for the Demonstrated Reserve Base (DRB) are now reported in *U.S. Coal Reserves: A Review and Update* (DOE/EIA-0529). However, this report includes data on the recoverable portion of the DRB in Table 105.

The Office of Coal, Nuclear, Electric and Alternate Fuels gratefully acknowledges the cooperation of the respondents in supplying the information presented in the *Coal Industry Annual 1999* and appreciates the valuable assistance of State coal mining agencies; the U.S. Department of the Interior: the Bureau of Land Management, the Minerals Management Service; the U.S. Department of Labor: the Mine Safety and Health Administration, the Bureau of Labor Statistics; the U.S. Department of Commerce: the Bureau of the Census; and the King Publishing Corporation.

# Notice

The Energy Information Administration (EIA) changed the survey form EIA-7A "Coal Production Report," beginning with the collection of 1998 data. Data on coal production and employment are no longer collected on the Form EIA-7A; rather those data are obtained through a data-sharing agreement with the Mine Safety and Health Administration (MSHA) of the U.S. Department of Labor, based on the Form 7000-2, "Quarterly Mine Employment and Coal Production Report." As a result of these changes, certain data elements are no longer consistent with the historical data series.

Some differences in the 1998 and 1999 data are attributable to modifications of definitions, while other differences are a result of changes in the industry. It is important to note these changes when comparing data over the historical period.

The changes are specified in the following text:

(1)The data on 1998 and later coal production at the county level are no longer comparable with data published in previous issues of the *Coal Industry Annual*. Production at the county level is now solely based on

the county in which the mine originally opened, whether or not any coal was produced in that county. (Adjustments have been made only for mines that cross State boundaries.) As a consequence, the number of mines are also no longer comparable with the historical series, since a mine that had previously crossed county lines, was counted as two mines.

(2)The data on 1998 and later productivity are not comparable with the historic data series, since the MSHA definition of employment differs from that previously used by EIA. EIA had defined employment to include all managerial, technical, and engineering personnel, whether or not they worked in the mine. MSHA defines employment into two categories: one for the employees working in the mine and a second for office employees. All MSHA employees are now included in the total employment data.

(3)The definition of the producer's price of coal has changed for 1998 and later. Previously, EIA defined price data as f.o.b. (free on board) mine price; producer's price is now defined as f.o.b. (free on board) rail/barge.

# Contents

	<b>Page</b>
Executive Summary .....	ix
Supply .....	1
Production .....	3
Productive Capacity .....	25
Recoverable Coal Reserves at Producing Mines .....	37
Producer/Distributor Stocks .....	49
Imports .....	51
Employment and Productivity .....	59
Employment .....	61
Productivity .....	73
Distribution .....	85
Demand .....	181
Domestic Markets .....	183
Foreign Markets .....	197
Coal Prices .....	203
Mine Prices .....	205
Consumer Prices .....	221
Import/Export Prices .....	227
Coal Quality .....	235
Appendices	
A. Major Coal Producing States .....	249
B. Metric Tables .....	269
C. References .....	285
D. Explanatory Notes .....	289
Glossary .....	301

# Tables

	Page
1. Coal Production by State, 1990, 1995-1999 .....	4
2. Number of Coal Mines by State, 1990, 1995-1999 .....	5
3. Coal Production and Number of Mines by State and Mine Type, 1999 .....	6
4. Coal Production and Number of Mines by State, County, and Mine Type, 1999 .....	7
5. Underground Coal Production by State and Mining Method, 1999 .....	11
6. Coal Production and Number of Mines by State, Mine Type, and Mine Production Range, 1999 .....	12
7. U.S. Coal Production by Coalbed Thickness and Mine Type, 1999 .....	14
8. U.S. Coal Production and Coalbed Thickness by Major Coalbeds and Mine Type, 1999 .....	15
9. Coal Production and Number of Mines by State and Coal Rank, 1999 .....	16
10. Coal Production by State, Coal Rank, and Group, 1999 .....	17
11. Coal Production by State, Mine Type, and Union Type, 1999 .....	18
12. Coal Disposition by State, 1999 .....	20
13. Coal Mining Acreage, Production and Royalties from Federal and Indian Leases by State, 1999 .....	21
14. Major U.S. Coal Mines, 1999 .....	22
15. Major U.S. Coal Producers, 1999 .....	23
16. Productive Capacity of Coal Mines by State, 1990, 1995-1999 .....	26
17. Capacity Utilization of Coal Mines by State, 1990, 1995-1999 .....	27
18. Production, Productive Capacity, and Capacity Utilization of Coal Mines by State and Mine Type, 1999 .....	28
19. Productive Capacity and Capacity Utilization of Underground Coal Mines by State and Mining Method, 1999 .....	29
20. Productive Capacity and Capacity Utilization of Coal Mines by State and Coal Rank, 1999 .....	30
21. Productive Capacity and Capacity Utilization of Coal Mines by State and Mine Production Range, 1999 .....	31
22. Productive Capacity and Productivity of Coal Mines by State and Capacity Utilization Range, 1999 .....	32
23. Productive Capacity and Capacity Utilization of Coal Mines by State and Recoverable Reserves Range, 1999 .....	33
24. Productive Capacity and Capacity Utilization of Coal Mines by State, Mine Type, and Union Type, 1999 .....	34
25. Recoverable Coal Reserves at Producing Mines by State, 1990, 1995-1999 .....	40
26. Average Recovery Percentage at Producing Coal Mines by State, 1990, 1995-1999 .....	41
27. Recoverable Coal Reserves and Average Recovery Percentage at Producing Mines by State and Mine Type, 1999 .....	42
28. Recoverable Coal Reserves at Producing Underground Mines by State and Mining Method, 1999 .....	43
29. Average Recovery Percentage at Producing Underground Coal Mines by State and Mining Method, 1999 .....	44
30. Recoverable Coal Reserves and Average Recovery Percentage at Producing U.S. Mines by Mine Production Range and Mine Type, 1999 .....	45
31. Recoverable Coal Reserves and Average Recovery Percentage at Producing U.S. Mines by Coalbed Thickness and Mine Type, 1999 .....	45
32. Recoverable Coal Reserves and Average Recovery Percentage at Producing Mines by State, Mine Type, and Union Type, 1999 .....	46
33. U.S. Demonstrated Reserve Base of Coal by Potential Mining Method and Ranked by State Total, January 1, 1997 .....	48
34. Year-End Producer and Distributor Coal Stocks by State, 1995-1999 .....	50
35. U.S. Coal Imports by Continent and Country of Origin, 1990, 1995-1999 .....	52
36. Coal Imports by Customs District, 1990, 1995-1999 .....	53
37. U.S. Receipts of Imported Coal by Country of Origin and Destination State, 1990, 1995-1999 .....	54
38. Imported Coal Received at Electric Utilities by Country of Origin and Destination State, 1990, 1995-1999 .....	56
39. Imported Coal Received at Manufacturing and Coke Plants by Country of Origin and Destination State, 1997-1999 .....	57
40. Average Number of Employees/Miners by State, 1990, 1995-1999 .....	64
41. Average Number of Employees/Miners at Underground Mines by State, 1990, 1995-1999 .....	65
42. Average Number of Employees/Miners at Surface Mines by State, 1990, 1995-1999 .....	66
43. Average Number of Employees by State and Mine Production Range, 1999 .....	67
44. Average Number of Employees at Underground Mines by State and Mine Production Range, 1999 .....	68
45. Average Number of Employees at Surface Mines by State and Mine Production Range, 1999 .....	69

46.	Average Number of Employees by State, Mine Type, and Union Type, 1999	70
47.	U.S. Coal Mine Injuries, 1990, 1995-1999	71
48.	Coal Mining Productivity by State, 1990, 1995-1999	74
49.	Underground Coal Mining Productivity by State, 1990, 1995-1999	75
50.	Surface Coal Mining Productivity by State, 1990, 1995-1999	76
51.	Coal Mining Productivity by State and Mine Type, 1999	77
52.	Underground Coal Mining Productivity by State and Mining Method, 1999	79
53.	U.S. Coal Mining Productivity by Coalbed Thickness and Mining Method, 1999	80
54.	Coal Mining Productivity by State, Mine Type, and Mine Production Range, 1999	81
55.	Coal Mining Productivity by State, Mine Type, and Union Type, 1999	83
56.	Distribution of U.S. Coal by State of Origin, 1995-1999	87
57.	Domestic and Foreign Distribution of U.S. Coal by State of Origin, 1995-1999	88
58.	Major U.S. Coal Distributors, 1999	89
59.	Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999	90
60.	Foreign Distribution of U.S. Coal by Major Coal-Exporting States and Destination, 1995-1999	102
61.	Foreign Distribution of U.S. Metallurgical Coal by Major Coal-Exporting States and Destination, 1995-1999	106
62.	Foreign Distribution of U.S. Steam Coal by Major Coal-Exporting States and Destination, 1995-1999	109
63.	Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999	112
64.	Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999	141
65.	Distribution of U.S. Coal by Origin, Destination, and Method of Transportation, 1999	171
66.	Major U.S. Coal Consumers, 1999	185
67.	Coal Consumption by Census Division and State, 1990, 1995-1999	187
68.	Year-End Consumer Coal Stocks by Census Division and State, 1990, 1995-1999	189
69.	Coal Consumption at Electric Utility Plants by Census Division and State, 1990, 1995-1999	190
70.	Year-End Coal Stocks at Electric Utility Plants by Census Division and State, 1990, 1995-1999	191
71.	Coal Consumption at Other Industrial Plants by Census Division and State, 1990, 1995-1999	192
72.	Year-End Coal Stocks at Other Industrial Plants by Census Division and State, 1990, 1995-1999	193
73.	Coal Carbonized at Coke Plants by Census Division and State, 1990, 1995-1999	194
74.	Year-End Coal Stocks at Coke Plants by Census Division and State, 1990, 1995-1999	194
75.	Coal Consumption by Residential and Commercial Sector, by Census Division and State, 1990, 1995-1999	195
76.	U.S. Coal Exports by Destination, 1990, 1995-1999	199
77.	U.S. Metallurgical Coal Exports by Destination, 1990, 1995-1999	200
78.	U.S. Steam Coal Exports by Destination, 1990, 1995-1999	201
79.	Coal Exports by Customs District, 1990, 1995-1999	202
80.	Average Price of Coal by State, 1990, 1995-1999	206
81.	Average Real Price of Coal by State, 1990, 1995-1999	207
82.	Average Price of Coal by State and Mine Type, 1999	208
83.	Average Price of Coal by State and Underground Mining Method, 1999	209
84.	Coal Disposition, Number of Mines, and Average Price, by State and County, 1999	210
85.	Average Price by State and Coal Rank, 1999	214
86.	Average Price of U.S. Coal by Mine Production Range and Mine Type, 1999	215
87.	Average Price of U.S. Coal by Coalbed Thickness and Mine Type, 1999	215
88.	Average Price of Coal by State and Productivity Range, 1999	216
89.	Average Price of Underground Coal by State and Productivity Range, 1999	217
90.	Average Price of Surface Coal by State and Productivity Range, 1999	218
91.	Average Price by State and Disposition, 1999	219
92.	Average Price of Coal Delivered to Electric Utilities by Census Division and State, 1990, 1995-1999	222
93.	Average Real Price of Coal Delivered to Electric Utilities by Census Division and State, 1990, 1995-1999	223
94.	Average Price of Coal Delivered to Other Industrial Plants by Census Division and State, 1990, 1995-1999	224
95.	Average Real Price of Coal Delivered to Other Industrial Plants by Census Division and State, 1990, 1995-1999	225
96.	Average Price of Coal Delivered to Coke Plants by Census Division and State, 1990, 1995-1999	226
97.	Average Real Price of Coal Delivered to Coke Plants by Census Division and State, 1990, 1995-1999	226
98.	Average Price of U.S. Coal Imports by Continent and Country of Origin, 1990, 1995-1999	228
99.	Average Price of U.S. Coal Exports by Destination, 1990, 1995-1999	229
100.	Average Real Price of U.S. Coal Exports by Destination, 1990, 1995-1999	230
101.	Average Price of U.S. Metallurgical Coal Exports by Destination, 1990, 1995-1999	231
102.	Average Real Price of U.S. Metallurgical Coal Exports by Destination, 1990, 1995-1999	232
103.	Average Price of U.S. Steam Coal Exports by Destination, 1990, 1995-1999	233
104.	Average Real Price of U.S. Steam Coal Exports by Destination, 1990, 1995-1999	234

105.	Estimate of the Recoverable Reserves of Coal by Sulfur Range, State, and Mine Type .....	236
106.	Average Quality of Coal Received at Electric Utilities by Census Division and State, 1990, 1995-1999	238
107.	Average Quality of Coal Received at Manufacturing and Coke Plants by Census Division and State, 1995-1999 .....	242
A1.	Alabama Coal Statistics, 1990, 1995-1999 .....	250
A2.	Arizona Coal Statistics, 1990, 1995-1999 .....	251
A3.	Colorado Coal Statistics, 1990, 1995-1999 .....	252
A4.	Illinois Coal Statistics, 1990, 1995-1999 .....	253
A5.	Indiana Coal Statistics, 1990, 1995-1999 .....	254
A6.	Kentucky Coal Statistics, 1990, 1995-1999 .....	255
A7.	Montana Coal Statistics, 1990, 1995-1999 .....	256
A8.	New Mexico Coal Statistics, 1990, 1995-1999 .....	257
A9.	North Dakota Coal Statistics, 1990, 1995-1999 .....	258
A10.	Ohio Coal Statistics, 1990, 1995-1999 .....	259
A11.	Pennsylvania Coal Statistics, 1990, 1995-1999 .....	260
A12.	Texas Coal Statistics, 1990, 1995-1999 .....	261
A13.	Utah Coal Statistics, 1990, 1995-1999 .....	262
A14.	Virginia Coal Statistics, 1990, 1995-1999 .....	263
A15.	West Virginia Coal Statistics, 1990, 1995-1999 .....	264
A16.	Wyoming Coal Statistics, 1990, 1995-1999 .....	265
A17.	All Other States Coal Statistics, 1990, 1995-1999 .....	266
A18.	Total U.S. Coal Statistics, 1990, 1995-1999 .....	267
B1.	Trends in U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1990, 1995-1999 .....	269
B2.	Coal Production by State, 1990, 1995-1999 .....	270
B3.	Productive Capacity of Coal Mines by State, 1990, 1995-1999 .....	271
B4.	Recoverable Coal Reserves at Producing Mines by State, 1990, 1995-1999 .....	272
B5.	U.S. Coal Imports by Continent and Country of Origin, 1990, 1995-1999 .....	273
B6.	Coal Mining Productivity by State, 1990, 1995-1999 .....	274
B7.	Coal Consumption by Census Division and State, 1990, 1995-1999 .....	275
B8.	Year-End Consumer Coal Stocks by Census Division and State, 1990, 1995-1999 .....	276
B9.	U.S. Coal Exports by Destination, 1990, 1995-1999 .....	277
B10.	Average Price of Coal by State, 1990, 1995-1999 .....	278
B11.	Average Price of Coal Delivered to Electric Utilities by Census Division and State, 1990, 1995-1999	279
B12.	Average Price of Coal Delivered to Other Industrial Plants by Census Division and State, 1990, 1995-1999 .....	280
B13.	Average Price of Coal Delivered to Coke Plants by Census Division and State, 1990, 1995-1999 .....	281
B14.	Average Price of U.S. Coal Imports by Continent and Country of Origin, 1990, 1995-1999 .....	282
B15.	Average Price of U.S. Coal Exports by Destination, 1990, 1995-1999 .....	283
C1.	Classification of Coals by Rank .....	286
C2.	Approximate Heat Content of Coal .....	287
D1.	Interquartile Range and Average Mine Price by State and Mine Type, 1998 .....	290
D2.	Implicit Price Deflator, 1990-1999 .....	299

## Illustrations

	<b>Page</b>	
1.	Recoverable Coal Reserves at Producing U.S. Mines by Mine Type and by Region, 1990-1999 .....	38
2.	Average Recovery Percentage at Producing U.S. Coal Mines by Mine Type and by Region, 1990-1999	39
3.	U.S. Coal Imports, 1990-1999 .....	51
4.	Average Number of U.S. Employees/Miners by Mine Type and by Region, 1990-1999 .....	62
5.	U.S. Coal Mining Productivity by Mine Type and by Region, 1990-1999 .....	63
6.	U.S. Coal Mine Injuries, 1990-1999 .....	72
7.	U.S. Coal Mine Fatalities, 1990-1999 .....	72
8.	Coal Distribution, 1990-1999 .....	86
9.	U.S. Coal Consumption, 1990-1999 .....	184
10.	U.S. Consumer Coal Stocks, 1990-1999 .....	188
11.	U.S. Coal Exports, 1990-1999 .....	198
12.	Coal Prices, 1990-1999 .....	204
13.	U.S. Coal Prices by Sector, 1990-1999 .....	221
C1.	Coal-Bearing Areas of the United States .....	285



# Executive Summary

## Overview

Unlike increases in previous years, U.S. coal production declined by 1.5 percent from 1998, to 1,100.4 million short tons in 1999, according to data from the Energy Information Administration (Table ES1). This decline marked the first decrease in coal production since a slight dip in 1995 and was primarily attributable to a large drop in coal exports coupled with a smaller than usual growth in coal consumption for power generation.

Coal consumption in the United States totaled 1,044.5 million short tons in 1999. Some 946.8 million short tons, 90.6 percent of the total consumption, were used by the electric power sector to produce 50.8 percent of total electric generation from all energy sources. Nonetheless, coal use for electricity generation grew only by 1 percent in 1999, as nuclear power generation surged by 8 percent, to a record level in 1999, displacing some coal-based generation. Unseasonably mild weather in 1999 also contributed to reduced reliance on coal-fired generation. Coal use in the non-electricity sector continued its downward trend, totaling 97.7 million short tons in 1999.

Faced with weak world coal prices and fierce competition from other coal exporting countries, U.S. coal exports fell precipitously in 1999, by 25.1 percent, to 58.5 million short tons. On the other hand, coal imports rose by 4.2 percent to 9.1 million short tons, reflecting weak offshore coal prices and increased demand for low-sulfur coal to meet stricter sulfur emission reduction requirements of Phase II of the 1990 Clean Air Act Amendments (CAAA), which became effective January 1, 2000.

Year-end coal stocks in the United States totaled 175.5 million short tons, an increase of 10.9 million short tons from 1998. Stocks held by coal producers and distributors remained nearly unchanged at 39.5 million short tons. The increase was entirely due to increased stocks on hand at electric generators, reflecting less than anticipated demand for coal-fired generation.

The price of coal continued its downward trend that started more than a decade ago. On a delivered basis, the average utility coal price per ton dropped by 3.7 percent in 1999, the price of industrial steam coal declined by 2.2 percent, and the price of coking coal fell

marginally. With unusually weak world coal prices, the average price of U.S. coal exports, measured in free alongside ship (f.a.s.) value, declined by 6.1 percent to \$36.50 per short ton in 1999, while the price of coal imports fell by 4.4 percent to \$30.77 per short ton.

The text that follows provides detailed information about these figures and other coal supply and demand trends in 1999.

## Production

Coal production in 1999 totaled 1,100.4 million short tons, down by 1.5 percent (17.1 million short tons) from 1998 (Figure ES1 and Table ES1). The 1999 decline was primarily attributable to (1) a weak demand for coal for power generation due largely to a sizable increase in nuclear-powered electricity generation, and (2) a substantial drop in coal exports. Because many nuclear power plants are located east of the Mississippi River and a majority of coal exports originate from eastern coal fields (primarily West Virginia, Virginia, and Eastern Kentucky), eastern coal production suffered the largest setback in 1999. Power plant operators' preparations for the stricter sulfur emissions reduction requirements of CAAA Phase II also contributed to the decline in high-sulfur eastern coal production and boosted low-sulfur western coal production, principally out of the Powder River Basin (Figure ES2 and Table ES2).

Coal production in the Appalachian Region was 425.6 million short tons in 1999, down by 7.6 percent from the 1998 production of 460.4 million short tons, reaching its lowest level since 1993. West Virginia, the largest coal-producing State in the East, produced 158 million short tons, down by 7.7 percent (13.1 million short tons) from 1998, a result of declines in U.S. coal exports and weak growth in coal-fired generation in the East. Similarly, coal output in Eastern Kentucky, another key coal field in the East, declined by 5.7 percent (6.7 million short tons) to 110 million short tons in 1999.

Coal output in Pennsylvania was also lower in 1999, by 5.7 percent (4.6 million short tons), reflecting weak utility coal demand in the State. The 1999 decline reversed the production growth in 1997 and 1998, which was due to increased shipments of its coal to Canada's Ontario Hydro and increased utility coal use in the State.

**Table ES1. U.S. Coal Supply, Disposition, and Prices, 1996-1999**  
(Million Short Tons and Nominal Dollars per Short Ton)

Item	1996	1997	1998	1999
<b>Production by Region</b>				
Appalachian .....	451.9	467.8	460.4	425.6
Interior .....	172.8	170.9	168.4	162.5
Western .....	439.1	451.3	488.8	512.3
<b>Total .....</b>	<b>1,063.9</b>	<b>1,089.9</b>	<b>1,117.5</b>	<b>1,100.4</b>
<b>Consumption by Sector</b>				
Electric Power .....	896.9	922.0	937.8	946.8
Electric Utilities .....	874.7	900.4	910.9	894.1
Other Power Producers <sup>a</sup> .....	22.2	21.6	26.9	52.7
Coke Plants .....	31.7	30.2	28.2	28.1
Other Industrial Plants .....	R71.7	R71.5	R67.5	64.7
Residential/Commercial Users .....	6.0	6.5	4.9	4.9
<b>Total .....</b>	<b>R1,006.3</b>	<b>R1,030.1</b>	<b>R1,038.3</b>	<b>1,044.5</b>
<b>Year-End Coal Stocks</b>				
Electric Utility .....	114.6	98.8	120.5	128.5
Coke Plants .....	2.7	2.0	2.0	1.9
Other Industrial Plants .....	5.7	5.6	R5.6	5.6
Producers/Distributors .....	28.6	34.0	36.5	39.5
<b>Total .....</b>	<b>151.6</b>	<b>140.4</b>	<b>R164.6</b>	<b>175.5</b>
<b>U.S. Coal Trade</b>				
Exports .....	90.5	83.5	78.0	58.5
Steam Coal .....	37.5	31.4	31.0	26.3
Metallurgical Coal .....	53.0	52.2	47.1	32.1
Imports .....	8.1	7.5	8.7	9.1
<b>Net Exports .....</b>	<b>82.3</b>	<b>76.1</b>	<b>69.3</b>	<b>49.4</b>
<b>Average Delivered Price</b>				
Electric Utilities .....	26.45	26.16	25.64	24.72
Coke Plants .....	47.33	47.61	46.06	45.85
Other Industrial Plants .....	32.32	32.41	32.30	31.59
<b>Average Free Alongside Ship (f.a.s.) Price</b>				
Exports .....	40.76	40.55	38.89	36.50
Steam Coal .....	34.09	32.42	30.24	29.91
Metallurgical Coal .....	45.49	45.45	44.58	41.91
Imports .....	33.45	34.32	32.18	30.77

<sup>a</sup>Include utility coal-fired power plants sold to nonutilities during 1998 and 1999. Coal consumption by cogenerators are included in the end-use sector.

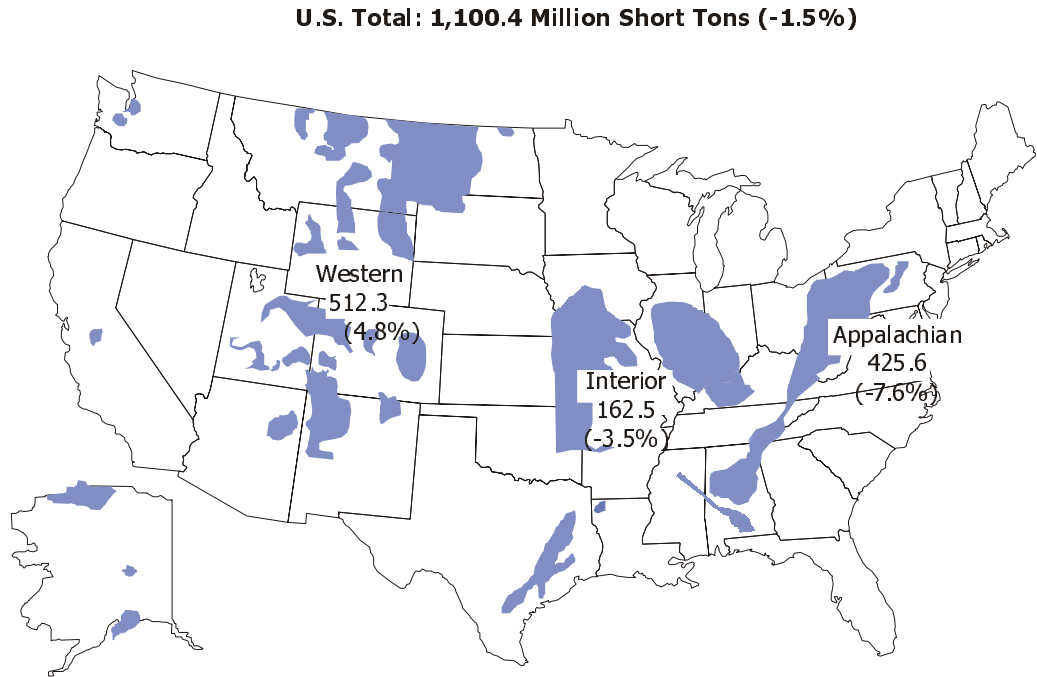
Notes: Totals may not equal sum of components due to independent rounding. Sum of net exports, stock changes, and consumption may not equal production, primarily because the supply and disposition data are obtained from different surveys.

Sources: **Production, consumption, stocks, and prices:** Energy Information Administration, *Quarterly Coal Report, October-December 1999*, DOE/EIA-0121(99/4Q) (Washington, DC, April 2000); *Coal Industry Annual 1998*, DOE/EIA-0584(98) (Washington, DC, April 2000); *Electric Power Monthly, April 2001*, DOE/EIA-0226(01/04) (Washington, DC, April 2001); and Federal Energy Regulatory Commission Form 423, "Cost and Quality of Fuels for Electric Utilities." **Exports and imports:** U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545" and "Monthly Report IM 145."

Coal production in the Interior Region was down by 3.5 percent from 1998, to 162.5 million short tons in 1999. This decline was most evident in Western Kentucky, where coal production dropped by 12.1 percent (4 million short tons), continuing its slide in recent years. Indiana's coal production also declined in 1999, by 2.8 million short tons (7.6 percent). In the previous 2 years, Indiana's coal production rose substantially in contrast

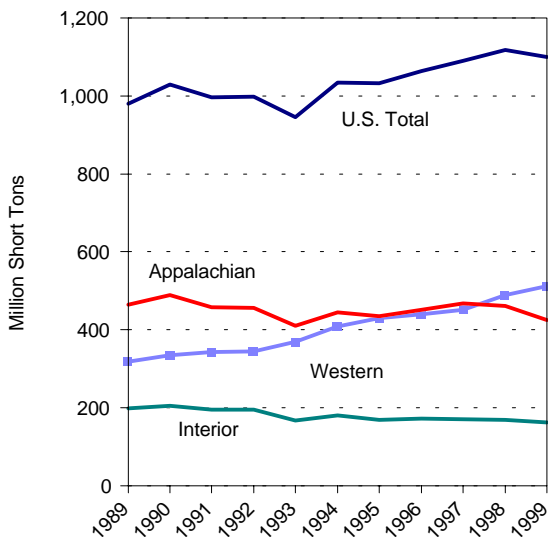
to the declines in other coal fields of the Illinois Basin—Illinois and Western Kentucky. Coal output in Illinois in 1999 was slightly higher than in 1998. Lignite production in Texas, another large coal-producing State in the Interior Region, was also slightly higher at 53.1 million short tons in 1999. Recent noteworthy events in this Region include the opening of the first ever lignite mine in Mississippi at a minemouth power plant.

**Figure ES1. Coal Production by Coal-Producing Region, 1999**  
(Million Short Tons and Percent Change from 1998)



Source: Energy Information Administration.

**Figure ES2. Coal Production by Region, 1989-1999**



Sources: Energy Information Administration, *Quarterly Coal Report, October-December 1999*, DOE/EIA-0121(99/4Q) (Washington, DC, April 2000); *Coal Production*, DOE/EIA-0118, various issues; and *Coal Industry Annual 1998*, DOE/EIA-0584(98) (Washington, DC, April 2000).

The Western Region was the only region to increase production overall in 1999. Led by Wyoming, coal output reached 512.3 million short tons in 1999, comprising 46.6 percent of the U.S. total. Western coal production was up by 4.8 percent (23.5 million short tons) from 1998. Coal output in Wyoming, by far the largest coal-producing State in the country, continued to grow rapidly, by 7.2 percent (22.7 million short tons), to 337.1 million short tons in 1999. Low-sulfur, low-ash Powder River Basin (PRB) coal continued to expand its markets in the southwestern and midwestern States and penetrate into the eastern coal markets. Preparations for CAAA Phase II sulfur emission reduction requirements helped to drive PRB coal production in 1999.

No other western coal-producing States realized growth as robust as Wyoming did in 1999. While coal production rose 4.2 percent in Arizona and 4.1 percent in North Dakota, output growth was marginal in other States and was negative in Montana, reflecting weak utility demand for coal. Coal exports from Utah continued to decline. Since 1995, Utah's coal exports have dropped 12.4 percent, which has had a pronounced effect on its coal output growth.

**Table ES2. U.S. Coal Production by Coal-Producing Region and State, 1996-1999**  
(Million Short Tons)

Coal-Producing Region and State	1996	1997	1998	1999
<b>Appalachian Total</b> .....	<b>451.9</b>	<b>467.8</b>	<b>460.4</b>	<b>425.6</b>
Alabama .....	24.6	24.5	23.0	19.5
Kentucky, Eastern .....	117.0	120.9	116.7	110.0
Maryland .....	4.1	4.2	4.0	3.8
Ohio .....	28.6	29.2	28.0	22.5
Pennsylvania Total .....	67.9	76.2	81.0	76.4
Anthracite .....	4.8	4.7	5.2	4.8
Bituminous .....	63.2	71.5	75.8	71.6
Tennessee .....	3.7	3.3	2.7	3.0
Virginia .....	35.6	35.8	33.7	32.3
West Virginia .....	170.4	173.7	171.1	158.0
Northern .....	45.9	42.8	44.7	38.8
Southern .....	124.5	130.9	126.5	119.2
<b>Interior Total</b> .....	<b>172.8</b>	<b>170.9</b>	<b>168.4</b>	<b>162.5</b>
Arkansas .....	*	*	*	*
Illinois .....	46.7	41.2	39.7	40.4
Indiana .....	29.7	35.5	36.8	34.0
Kansas .....	0.2	0.4	0.3	0.4
Kentucky, Western .....	35.5	34.9	33.6	29.6
Louisiana .....	3.2	3.5	3.2	3.0
Mississippi .....	—	—	—	*
Missouri .....	0.7	0.4	0.4	0.4
Oklahoma .....	1.7	1.6	1.7	1.7
Texas .....	55.2	53.3	52.6	53.1
<b>Western Total</b> .....	<b>439.1</b>	<b>451.3</b>	<b>488.8</b>	<b>512.3</b>
Alaska .....	1.5	1.5	1.3	1.6
Arizona .....	10.4	11.7	11.3	11.8
Colorado .....	24.9	27.4	29.6	30.0
Montana .....	37.9	41.0	42.8	41.1
New Mexico .....	24.1	27.0	28.6	29.2
North Dakota .....	29.9	29.6	29.9	31.1
Utah .....	27.5	26.7	26.1	26.4
Washington .....	4.6	4.5	4.6	4.1
Wyoming .....	278.4	281.9	314.4	337.1
<b>U.S. Total</b> .....	<b>1,063.9</b>	<b>1,089.9</b>	<b>1,117.5</b>	<b>1,100.4</b>

\* = Less than 50 thousand short tons.

Notes: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, *Coal Industry Annual 1998*, DOE/EIA-0584(98) (Washington, DC, April 2000); and Energy Information Administration, Form EIA-7A, "Coal Production Report," and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

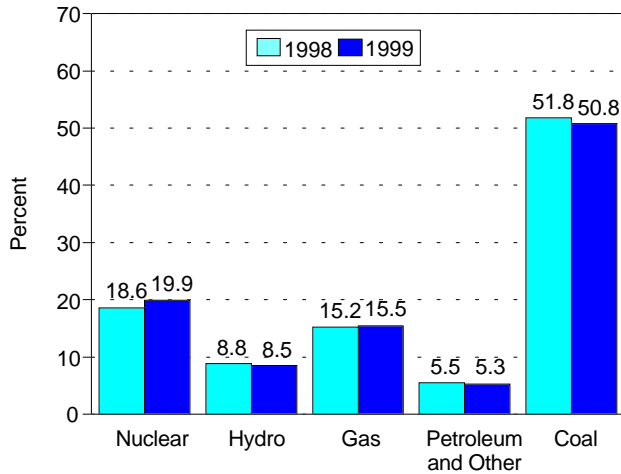
## Consumption

In 1999, coal consumption in the United States totaled 1,044.5 million short tons. Some 946.8 million short tons, 90.6 percent of the total, were used by the electric power sector to produce more than half (50.8 percent) of all electricity generated (Table ES1, Figure ES3). However, coal consumption for power generation rose by a mere 1 percent in 1999, owing to unseasonably mild

weather and improved nuclear power plant performance (Figure ES4).

Nuclear power generation increased substantially (8 percent) in 1999, to a record level of 728.3 billion kilowatt-hours, a 19.6-percent share of total electricity generation in 1999. Several nuclear generating units returned on line after maintenance, repair, and refueling outages. This event resulted in a record average annual

**Figure ES3. Share of Electric Power Industry Net Generation by Energy Source, 1998 vs. 1999**



Sources: Energy Information Administration, *Electric Power Monthly, April 2001*, DOE/EIA-0226(01/04) (Washington, DC, April 2001); Form EIA-759, “Monthly Power Plant Report,” and Form EIA-860B, “Annual Electric Generator Report – Nonutility.”

capacity factor of 85.3 percent, up from 78.2 percent in 1998. The 54.6 billion-kilowatthour increase in nuclear power generation—equivalent to approximately 28.0 million short tons of utility coal—constrained growth in coal-fired generation in 1999 and, hence, coal consumption and production, largely in the East.

In both the New England and Middle Atlantic Census Divisions, coal consumption by electric power plants declined significantly due to competition from nuclear power generation and constraints to meet environmental regulations. In the New England Census Division, consumption of coal for power generation decreased by 1.4 million tons (-18.1 percent) from 1998 levels. Coal consumption in the Middle Atlantic Census Division declined by 2.6 million tons (-4.1 percent), reflecting significant increases in nuclear power generation of 17.5 billion kilowatthours in that region.

Coal use in the non-electric power sector declined by 2.7 percent to a total of 97.7 million short tons in 1999 (Figure ES5). While coal consumption by coke plants (at 28.1 million short tons) and residential/commercial users (4.9 million short tons) remained virtually unchanged, other industrial use of coal (largely in the food, paper, chemical, nonmetallic mineral products, and primary metal manufacturing industries) fell by 4.0 percent to 64.7 million short tons in 1999, continuing its downward trend in recent years. Competition from

natural gas has gradually been diminishing coal use in the manufacturing industry.

Coal prices continued their downward trend in 1999, reflecting ongoing productivity gains in coal mining and transportation and expirations of high-cost, long-term coal contracts. On the delivered basis, the average price of utility coal declined by 3.7 percent from \$25.64 per short ton (125.2 cents per million Btu) to \$24.72 per short ton (121.0 cents per million Btu) in 1999. The price of industrial steam coal declined to \$31.59 per short ton, and the price of coking coal eased down slightly from 1998's \$46.06 per short ton to \$45.85 in 1999 (Figure ES6).

### Exports and Imports

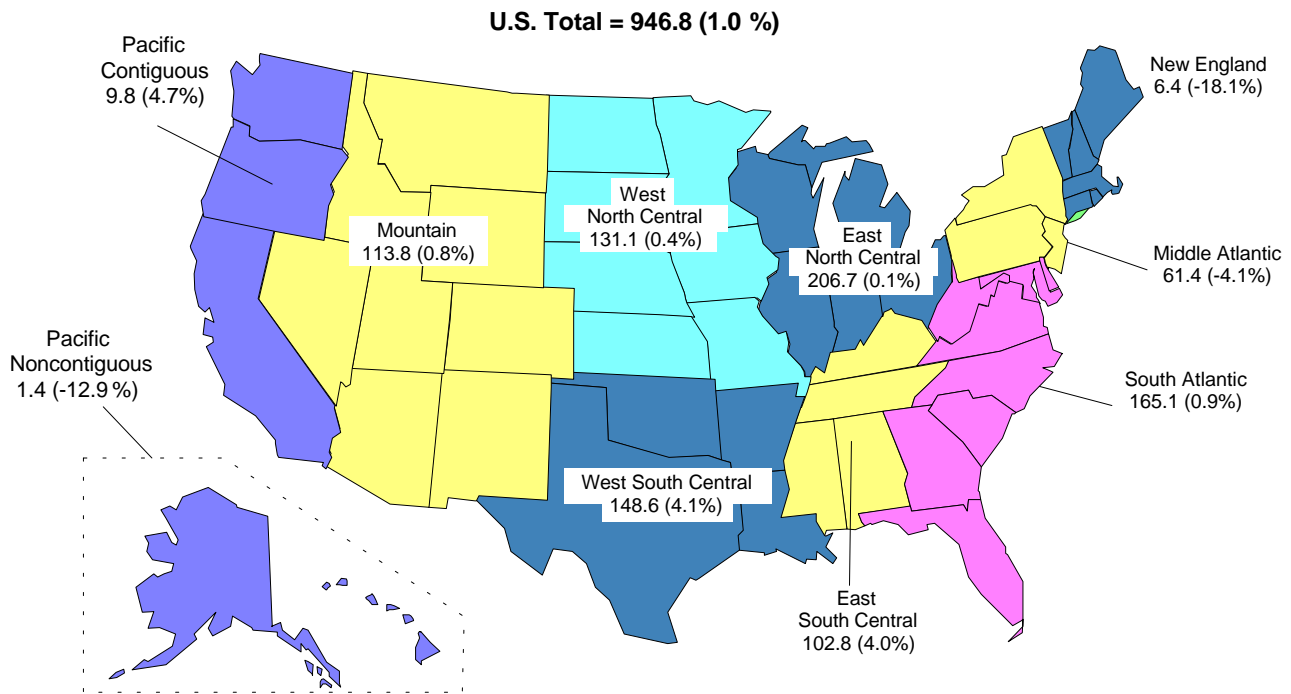
**Exports**—Although coal exports account for a small segment of the U.S. coal industry, they fell so precipitously in 1999 that their decline was identified as a major factor for the decrease in coal production. Coal exports declined by 25.1 percent, to 58.5 million short tons in 1999 (Figure ES7). The year 1999 marked the third consecutive year of decline and a long fall from the record high of 109.0 million short tons in 1991. The United States ranks third in the world in coal exports, surpassed by South Africa in 1998. Australia is by far the world's largest coal exporter, with exports three times that of the United States.

Both steam and metallurgical coal exports declined in 1999. Steam coal exports declined by 14.9 percent, to 26.3 million short tons in 1999. Metallurgical coal exports fell by a staggering 31.8 percent, to 32.1 million short tons in 1999, accounting for the majority of the decline in total coal exports. This downward pattern continued from previous years as evidenced most recently between 1997 and 1998, when exports of metallurgical coal fell by 5.1 million tons.

Declines in coal exports were attributable to lower world coal prices, reflecting lower mine costs at U.S. competitors and favorable exchange rates that enabled them to lower their prices in U.S. dollars. Some U.S. exporters reportedly withdrew from coal trade as world coal prices were too low to continue participating. The average price for U.S. metallurgical coal exports fell by 6 percent in 1999 to \$41.91 per short ton, and the average for U.S. steam coal exports declined by 1.1 percent to \$29.91 per short ton.

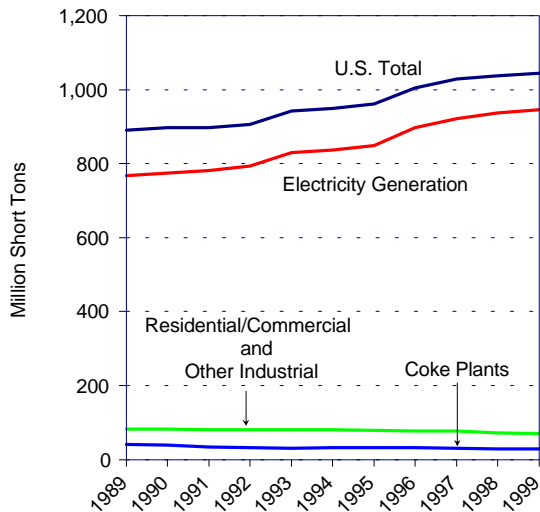
In 1999, U.S. coal exports declined sharply in every world region except North America, where coal shipments fell marginally. Shipments to Canada totaled 19.8 million

**Figure ES4. Electric Power Sector Consumption of Coal by Census Division, 1999**  
(Million Short Tons and Percent Change from 1998)



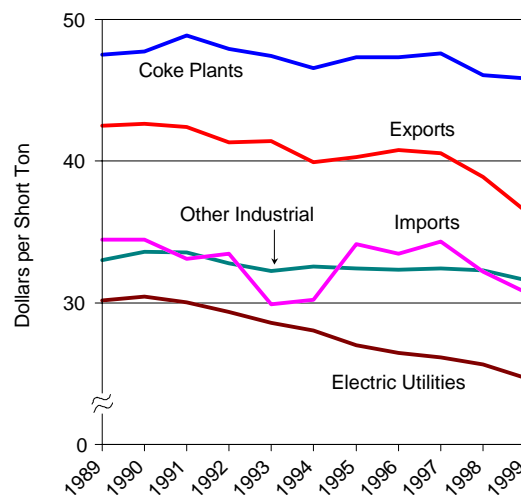
Sources: Energy Information Administration, *Electric Power Monthly*, April 2001, DOE/EIA-0226(01/04) (Washington, DC, April 2001); Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report - Nonutility."

**Figure ES5. Coal Consumption by Sector, 1989-1999**



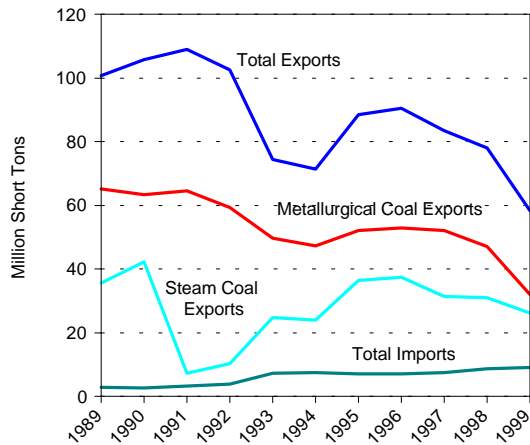
Sources: Energy Information Administration, *Quarterly Coal Report*, October-December 1999, DOE/EIA-0121(99/4Q) (Washington, DC, April 2000); *Coal Industry Annual 1998*, DOE/EIA-0584(98) (Washington, DC, April 2000); and *Electric Power Monthly*, April 2001, DOE/EIA-0226(01/04) (Washington, DC, April 2001).

**Figure ES6. Delivered Coal Prices, 1989-1999**  
(Nominal Dollars)



Sources: Energy Information Administration, *Quarterly Coal Report*, October-December 1999, DOE/EIA-0121(99/4Q) (Washington, DC, April 2000); *Coal Industry Annual 1998*, DOE/EIA-0584(98) (Washington, DC, April 2000); *Electric Power Monthly*, April 2001, DOE/EIA-0226(01/04) (Washington, DC, April 2001); and U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545" and "Monthly Report IM 145."

**Figure ES7. U.S. Coal Exports and Imports, 1989-1999**



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

short tons in 1999, as compared to 20.7 million short tons in 1998. Steam coal shipments, almost entirely to Ontario Hydro, were at 15.5 million short tons, nearly unchanged from the level in 1998.

Coal exports to Europe fell by 33.4 percent, to 22.5 million short tons in 1999. Metallurgical coal exports to Europe, the primary market for U.S. coal, declined by 29.6 percent, to 18.3 million short tons in 1999. Similarly, steam coal exports plunged by 46 percent, from 7.8 million short tons in 1998 to 4.2 million short tons in 1999. Increased flows of lower priced Australian metallurgical coal and steam coals from South Africa, Colombia, and Venezuela severely limited U.S. participation in the European markets. Additionally, coal has faced competitive pressures from natural gas in Europe—in terms of both price and environmental protection.

The growing Asian market for steam coal was largely dominated by lower priced Australian coal due to Australia's favorable exchange rate with the U.S. dollar and large gains in coal mine productivity in recent years. Australia also has a significant cost advantage because of its close proximity to the Asian market. Indonesia, with increased output of its ultra clean, low-sulfur coal, also provided competition for the Asian market.

The metallurgical coal market in Asia was extremely weak in 1999, due to falling steel prices and soft demand. With major price cuts in 1999, Australian and Canadian metallurgical coals dominated the Asian market, which also contributed to limited U.S. participation. U.S. coal exports to Asia totaled 9.2

million short tons in 1999, down by 25.6 percent from 1998. U.S. metallurgical coal exports to Asia plunged 40.1 percent, to 4.1 million short tons in 1999, while steam coal exports declined 7.9 percent, to 5.1 million short tons.

**Imports**—U. S. coal imports totaled 9.1 million short tons in 1999, a 4.2-percent increase from 1998 (Figure ES7). Imports represented less than 1 percent of U.S. consumption and were equivalent to about 15 percent of U.S. exports. The increase in imports in 1999 was attributable to weak prices for offshore coal and increased demand for low-sulfur coal to prepare for the stricter sulfur emission requirements of Phase II of the CAAA. The average price of all coal imported into the United States fell by 4.4 percent, to \$30.77 per short ton in 1999 from the 1998 price of \$32.18.

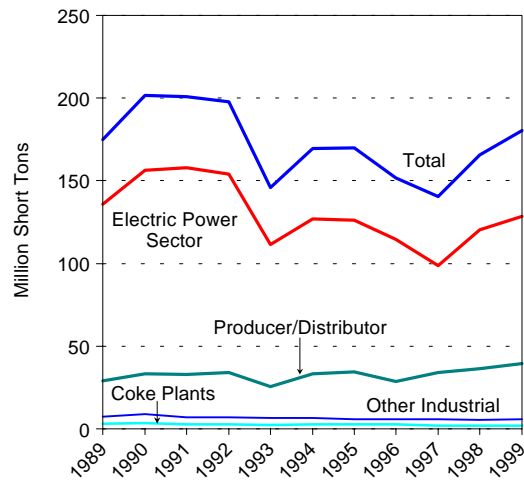
Colombia remained the largest supplier of U.S. imports, with 4.6 million short tons; Venezuela followed with 2.1 million short tons, Indonesia with 1.1 million short tons, and Canada with 1 million short tons. Although imports primarily consisted of steam coal bought by a few East Coast power plants, coal from Canada was largely metallurgical coal used by coke plants in Illinois, Indiana, and Michigan.

## Stocks

At the end of 1999, coal stocks in the United States totaled 175.5 million short tons, an increase of 10.9 million short tons from 1998 (Figure ES8). Coal producers and distributors held 39.5 million short tons, or 8.1 percent more than they held in 1998. Year-end coal stocks for industrial users, including coke plants, remained virtually unchanged at 7.5 million short tons. Stocks held by the electric utility sector increased to 128.5 million short tons, an increase of 8.0 million short tons over 1998. Coal stocks at power plants rose in virtually every area of the country. The exception was the Middle Atlantic Census Division (New Jersey, New York, and Pennsylvania) where power plant coal stocks declined from 10.2 million tons in 1998 to 4.3 million tons in 1999.

Two factors were primarily responsible for the buildup. First, coal consumption for power generation was lower in most regions of the country than the amount of coal receipts by power producers as a result of increased nuclear power generation and the mild weather in 1999. Second, western areas hard hit by Union Pacific Railroad's delivery problems in 1997, particularly the West South Central Census Division, continued to replenish their stockpiles in 1999.

**Figure ES8. Year-End Coal Stocks, 1989-1999**



Sources: Energy Information Administration, *Quarterly Coal Report, October-December 1999*, DOE/EIA-0121(99/4Q) (Washington, DC, April 2000); *Coal Industry Annual 1998*, DOE/EIA-0584(98) (Washington, DC, April 2000); and *Electric Power Monthly, April 2001*, DOE/EIA-0226(01/04) (Washington, DC, April 2001).



# Supply

# Production

**Table 1. Coal Production by State, 1990, 1995-1999**

(Thousand Short Tons)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	19,504	23,013	24,468	24,637	24,640	29,030	-15.2	-5.7	-4.3
Alaska.....	1,565	1,344	1,450	1,481	1,698	1,706	16.4	-2.0	-9
Arizona.....	11,787	11,315	11,723	10,442	11,947	11,304	4.2	-3	.5
Arkansas.....	22	24	18	21	29	59	-9.2	-6.7	-10.3
California.....	-	-	-	-	-	61	-	-	-
Colorado.....	29,989	29,631	27,449	24,886	25,710	18,910	1.2	3.9	5.3
Illinois.....	40,417	39,732	41,159	46,656	48,180	60,393	1.7	-4.3	-4.4
Indiana.....	34,004	36,803	35,497	29,670	26,007	35,907	-7.6	6.9	-6
Iowa.....	-	-	-	-	-	381	-	-	-
Kansas.....	409	341	360	232	285	721	20.0	9.4	-6.1
Kentucky Total.....	139,626	150,295	155,853	152,425	153,739	173,322	-7.1	-2.4	-2.4
Eastern.....	110,043	116,654	120,918	116,951	118,541	128,396	-5.7	-1.8	-1.7
Western.....	29,583	33,641	34,936	35,474	35,198	44,926	-12.1	-4.3	-4.5
Louisiana.....	2,953	3,216	3,545	3,221	3,719	3,186	-8.2	-5.6	-8
Maryland.....	3,837	4,060	4,160	4,093	3,667	3,487	-5.5	1.1	1.1
Mississippi.....	18	-	-	-	-	-	-	-	-
Missouri.....	392	372	401	710	548	2,647	5.4	-8.0	-19.1
Montana.....	41,102	42,840	41,005	37,891	39,451	37,616	-4.0	1.0	1.0
New Mexico.....	29,156	28,597	27,025	24,067	26,813	24,292	1.9	2.1	2.0
North Dakota.....	31,135	29,912	29,580	29,861	30,112	29,213	4.1	.8	.7
Ohio.....	22,480	28,048	29,154	28,572	26,118	35,252	-19.8	-3.7	-4.9
Oklahoma.....	1,661	1,661	1,621	1,701	1,876	1,698	*	-3.0	-2
Pennsylvania Total.....	76,399	81,036	76,198	67,942	61,576	70,514	-5.7	5.5	.9
Anthracite.....	4,753	5,231	4,678	4,751	4,682	3,506	-9.1	.4	3.4
Bituminous.....	71,646	75,805	71,520	63,190	56,893	67,008	-5.5	5.9	.7
Tennessee.....	3,037	2,696	3,300	3,651	3,221	6,193	12.6	-1.5	-7.6
Texas.....	53,072	52,583	53,328	55,164	52,684	55,755	.9	.2	-5
Utah.....	26,373	26,075	26,683	27,507	25,167	22,058	1.1	1.2	2.0
Virginia.....	32,294	33,747	35,837	35,590	34,099	46,917	-4.3	-1.3	-4.1
Washington.....	4,101	4,638	4,495	4,565	4,868	5,001	-11.6	-4.2	-2.2
West Virginia Total.....	157,978	171,145	173,743	170,433	162,997	169,205	-7.7	-8	-8
Northern.....	38,788	44,618	42,802	45,910	46,114	56,641	-13.1	-4.2	-4.1
Southern.....	119,191	126,527	130,941	124,523	116,883	112,564	-5.8	.5	.6
Wyoming.....	337,119	314,409	281,881	278,440	263,822	184,249	7.2	6.3	6.9
<b>Appalachian Total<sup>1</sup>.....</b>	<b>425,573</b>	<b>460,400</b>	<b>467,778</b>	<b>451,868</b>	<b>434,861</b>	<b>488,993</b>	<b>-7.6</b>	<b>-.5</b>	<b>-1.5</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>162,530</b>	<b>168,374</b>	<b>170,863</b>	<b>172,848</b>	<b>168,526</b>	<b>205,671</b>	<b>-3.5</b>	<b>-.9</b>	<b>-2.6</b>
<b>Western Total<sup>1</sup>.....</b>	<b>512,328</b>	<b>488,762</b>	<b>451,291</b>	<b>439,140</b>	<b>429,587</b>	<b>334,411</b>	<b>4.8</b>	<b>4.5</b>	<b>4.8</b>
<b>East of Miss. River.....</b>	<b>529,594</b>	<b>570,576</b>	<b>579,369</b>	<b>563,668</b>	<b>544,246</b>	<b>630,218</b>	<b>-7.2</b>	<b>-.7</b>	<b>-1.9</b>
<b>West of Miss. River.....</b>	<b>570,837</b>	<b>546,960</b>	<b>510,563</b>	<b>500,188</b>	<b>488,728</b>	<b>398,858</b>	<b>4.4</b>	<b>3.9</b>	<b>4.1</b>
<b>U.S. Total.....</b>	<b>1,100,431</b>	<b>1,117,535</b>	<b>1,089,932</b>	<b>1,063,856</b>	<b>1,032,974</b>	<b>1,029,076</b>	<b>-1.5</b>	<b>1.6</b>	<b>.7</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

Notes: Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 2. Number of Coal Mines by State, 1990, 1995-1999**

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	47	53	51	53	73	97	-11.3	-10.4	-7.7
Alaska.....	1	1	1	1	1	1	-	-	-
Arizona.....	2	2	2	2	2	2	-	-	-
Arkansas.....	3	3	3	5	3	7	-	-	-9.0
California.....	-	-	-	-	-	1	-	-	-
Colorado.....	12	12	14	15	17	23	-	-8.3	-7.0
Illinois.....	23	24	28	31	31	45	-4.2	-7.2	-7.2
Indiana.....	34	41	39	37	42	64	-17.1	-5.1	-6.8
Iowa.....	-	-	-	-	-	3	-	-	-
Kansas.....	2	2	3	1	1	4	-	18.9	-7.4
Kentucky Total.....	458	482	529	544	598	987	-5.0	-6.4	-8.2
Eastern.....	421	445	482	484	540	902	-5.4	-6.0	-8.1
Western.....	37	37	47	60	58	85	-	-10.6	-8.8
Louisiana.....	2	2	2	2	2	2	-	-	-
Maryland.....	15	16	18	18	20	27	-6.3	-6.9	-6.3
Mississippi.....	1	-	-	-	-	-	-	-	-
Missouri.....	2	4	4	5	6	5	-50.0	-24.0	-9.7
Montana.....	6	6	8	8	8	9	-	-6.9	-4.4
New Mexico.....	7	7	6	6	7	7	-	-	-
North Dakota.....	4	4	6	5	6	11	-	-9.6	-10.6
Ohio.....	79	83	81	99	113	172	-4.8	-8.5	-8.3
Oklahoma.....	10	8	11	12	13	23	25.0	-6.3	-8.8
Pennsylvania Total.....	339	375	403	402	459	673	-9.6	-7.3	-7.3
Anthracite.....	111	123	131	127	134	187	-9.8	-4.6	-5.6
Bituminous.....	228	252	272	275	325	486	-9.5	-8.5	-8.1
Tennessee.....	24	27	27	26	25	86	-11.1	-1.0	-13.2
Texas.....	14	14	12	13	14	15	-	-	-8
Utah.....	15	15	12	11	13	18	-	3.6	-2.0
Virginia.....	161	173	191	191	194	340	-6.9	-4.5	-8.0
Washington.....	2	2	3	3	3	4	-	-9.6	-7.4
West Virginia Total.....	306	346	349	386	424	771	-11.6	-7.8	-9.8
Northern.....	71	69	80	93	98	205	2.9	-7.7	-11.1
Southern.....	235	277	269	293	326	566	-15.2	-7.8	-9.3
Wyoming.....	22	24	25	27	29	33	-8.3	-6.7	-4.4
<b>Appalachian Total<sup>1</sup>.....</b>	<b>1,392</b>	<b>1,518</b>	<b>1,602</b>	<b>1,659</b>	<b>1,848</b>	<b>3,068</b>	<b>-8.3</b>	<b>-6.8</b>	<b>-8.4</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>128</b>	<b>135</b>	<b>149</b>	<b>166</b>	<b>170</b>	<b>253</b>	<b>-5.2</b>	<b>-6.8</b>	<b>-7.3</b>
<b>Western Total<sup>1</sup>.....</b>	<b>71</b>	<b>73</b>	<b>77</b>	<b>78</b>	<b>86</b>	<b>109</b>	<b>-2.7</b>	<b>-4.7</b>	<b>-4.6</b>
<b>East of Miss. River.....</b>	<b>1,487</b>	<b>1,620</b>	<b>1,716</b>	<b>1,787</b>	<b>1,979</b>	<b>3,262</b>	<b>-8.2</b>	<b>-6.9</b>	<b>-8.3</b>
<b>West of Miss. River.....</b>	<b>104</b>	<b>106</b>	<b>112</b>	<b>116</b>	<b>125</b>	<b>168</b>	<b>-1.9</b>	<b>-4.5</b>	<b>-5.2</b>
<b>U.S. Total.....</b>	<b>1,591</b>	<b>1,726</b>	<b>1,828</b>	<b>1,903</b>	<b>2,104</b>	<b>3,430</b>	<b>-7.8</b>	<b>-6.7</b>	<b>-8.2</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

Note: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 3. Coal Production and Number of Mines by State and Mine Type, 1999**  
(Thousand Short Tons)

Coal-Producing State and Region	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama.....	9	14,799	38	4,705	47	19,504
Alaska.....	—	—	1	1,565	1	1,565
Arizona.....	—	—	2	11,787	2	11,787
Arkansas.....	—	—	3	22	3	22
Colorado.....	8	20,478	4	9,511	12	29,989
Illinois.....	17	36,758	6	3,659	23	40,417
Indiana.....	3	3,553	31	30,451	34	34,004
Kansas.....	—	—	2	409	2	409
Kentucky Total.....	260	86,150	198	53,476	458	139,626
Eastern.....	243	62,932	178	47,111	421	110,043
Western.....	17	23,218	20	6,364	37	29,583
Louisiana.....	—	—	2	2,953	2	2,953
Maryland.....	2	3,280	13	557	15	3,837
Mississippi.....	—	—	1	18	1	18
Missouri.....	—	—	2	392	2	392
Montana.....	—	—	6	41,102	6	41,102
New Mexico.....	1	106	6	29,051	7	29,156
North Dakota.....	—	—	4	31,135	4	31,135
Ohio.....	8	11,431	71	11,048	79	22,480
Oklahoma.....	1	200	9	1,461	10	1,661
Pennsylvania Total.....	87	59,211	252	17,188	339	76,399
Anthracite.....	32	377	79	4,376	111	4,753
Bituminous.....	55	58,834	173	12,812	228	71,646
Tennessee.....	13	1,489	11	1,548	24	3,037
Texas.....	—	—	14	53,072	14	53,072
Utah.....	15	26,373	—	—	15	26,373
Virginia.....	113	22,562	48	9,732	161	32,294
Washington.....	—	—	2	4,101	2	4,101
West Virginia Total.....	211	103,727	95	54,251	306	157,978
Northern.....	39	33,653	32	5,135	71	38,788
Southern.....	172	70,075	63	49,116	235	119,191
Wyoming.....	1	1,673	21	335,446	22	337,119
<b>Appalachian Total<sup>1</sup>.....</b>	<b>686</b>	<b>279,432</b>	<b>706</b>	<b>146,141</b>	<b>1,392</b>	<b>425,573</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>38</b>	<b>63,729</b>	<b>90</b>	<b>98,802</b>	<b>128</b>	<b>162,530</b>
<b>Western Total<sup>1</sup>.....</b>	<b>25</b>	<b>48,629</b>	<b>46</b>	<b>463,699</b>	<b>71</b>	<b>512,328</b>
<b>East of Miss. River.....</b>	<b>723</b>	<b>342,961</b>	<b>764</b>	<b>186,634</b>	<b>1,487</b>	<b>529,594</b>
<b>West of Miss. River.....</b>	<b>26</b>	<b>48,829</b>	<b>78</b>	<b>522,008</b>	<b>104</b>	<b>570,837</b>
<b>U.S. Total.....</b>	<b>749</b>	<b>391,790</b>	<b>842</b>	<b>708,642</b>	<b>1,591</b>	<b>1,100,431</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

Source: U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

Notes: Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

**Table 4. Coal Production and Number of Mines by State, County, and Mine Type, 1999**  
(Thousand Short Tons)

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
<b>Alabama</b> .....	<b>9</b>	<b>14,799</b>	<b>38</b>	<b>4,705</b>	<b>47</b>	<b>19,504</b>
Bibb.....	—	—	1	45	1	45
Cullman.....	—	—	2	82	2	82
Fayette.....	1	2,325	—	—	1	2,325
Jefferson.....	4	6,566	5	416	9	6,981
Marion.....	—	—	2	45	2	45
Tuscaloosa.....	3	5,821	4	560	7	6,382
Walker.....	1	87	21	3,219	22	3,306
Winston.....	—	—	3	339	3	339
<b>Alaska</b> .....	<b>—</b>	<b>—</b>	<b>1</b>	<b>1,565</b>	<b>1</b>	<b>1,565</b>
Yukon River.....	—	—	1	1,565	1	1,565
<b>Arizona</b> .....	<b>—</b>	<b>—</b>	<b>2</b>	<b>11,787</b>	<b>2</b>	<b>11,787</b>
Navajo.....	—	—	2	11,787	2	11,787
<b>Arkansas</b> .....	<b>—</b>	<b>—</b>	<b>3</b>	<b>22</b>	<b>3</b>	<b>22</b>
Johnson.....	—	—	2	18	2	18
Sebastian.....	—	—	1	4	1	4
<b>Colorado</b> .....	<b>8</b>	<b>20,478</b>	<b>4</b>	<b>9,511</b>	<b>12</b>	<b>29,989</b>
Delta.....	1	1,718	—	—	1	1,718
Fremont.....	1	242	—	—	1	242
Gunnison.....	2	8,151	—	—	2	8,151
La Plata.....	1	246	—	—	1	246
Mesa.....	1	285	—	—	1	285
Moffat.....	—	—	2	7,788	2	7,788
Montrose.....	—	—	1	359	1	359
Rio Blanco.....	1	1,337	—	—	1	1,337
Routt.....	1	8,500	1	1,363	2	9,864
<b>Illinois</b> .....	<b>17</b>	<b>36,758</b>	<b>6</b>	<b>3,659</b>	<b>23</b>	<b>40,417</b>
Christian.....	1	72	—	—	1	72
Gallatin.....	2	2,310	2	2,317	4	4,627
Jackson.....	—	—	2	816	2	816
Jefferson.....	1	3,767	—	—	1	3,767
Logan.....	1	2,344	—	—	1	2,344
Macoupin.....	2	4,582	—	—	2	4,582
McDonough.....	—	—	1	505	1	505
Montgomery.....	1	1,698	—	—	1	1,698
Perry.....	1	2,436	—	—	1	2,436
Randolph.....	1	2,516	—	—	1	2,516
Saline.....	3	9,257	—	—	3	9,257
Vermilion.....	1	770	—	—	1	770
Wabash.....	1	1,296	—	—	1	1,296
Washington.....	1	3,385	—	—	1	3,385
White.....	1	2,327	—	—	1	2,327
Williamson.....	—	—	1	21	1	21
<b>Indiana</b> .....	<b>3</b>	<b>3,553</b>	<b>31</b>	<b>30,451</b>	<b>34</b>	<b>34,004</b>
Clay.....	—	—	3	70	3	70
Daviess.....	—	—	4	3,543	4	3,543
Dubois.....	—	—	1	73	1	73
Gibson.....	—	—	4	5,888	4	5,888
Greene.....	—	—	4	5,092	4	5,092
Knox.....	3	3,553	3	1,972	6	5,525
Parke.....	—	—	1	216	1	216
Pike.....	—	—	4	4,380	4	4,380
Spencer.....	—	—	1	204	1	204
Sullivan.....	—	—	1	1,580	1	1,580
Vigo.....	—	—	2	3,526	2	3,526
Warrick.....	—	—	3	3,907	3	3,907
<b>Kansas</b> .....	<b>—</b>	<b>—</b>	<b>2</b>	<b>409</b>	<b>2</b>	<b>409</b>
Linn.....	—	—	2	409	2	409
<b>Kentucky</b> .....	<b>260</b>	<b>86,150</b>	<b>198</b>	<b>53,476</b>	<b>458</b>	<b>139,626</b>
Bell.....	11	2,089	12	2,643	23	4,732
Breathitt.....	—	—	6	2,452	6	2,452
Christian.....	—	—	1	333	1	333
Clay.....	1	13	2	72	3	86
Daviess.....	—	—	2	808	2	808
Floyd.....	27	2,660	6	2,257	33	4,918
Harlan.....	25	6,858	13	1,656	38	8,514
Henderson.....	—	—	2	1,267	2	1,267
Hopkins.....	6	4,735	6	2,722	12	7,457
Jackson.....	—	—	1	4	1	4
Johnson.....	6	1,174	1	9	7	1,184
Knott.....	27	6,231	24	4,592	51	10,823

See footnotes at end of table.

**Table 4. Coal Production and Number of Mines by State, County, and Mine Type, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
<b>Kentucky (Continued)</b>						
Knox.....	10	488	3	34	13	522
Laurel.....	-	-	2	50	2	50
Lawrence.....	-	-	4	136	4	136
Leslie.....	10	6,472	2	1,592	12	8,064
Letcher.....	17	5,209	26	4,000	43	9,209
Martin.....	21	5,302	7	6,205	28	11,507
McLean.....	1	520	1	65	2	584
Morgan.....	-	-	1	37	1	37
Muhlenberg.....	2	2,409	4	977	6	3,387
Ohio.....	-	-	3	131	3	131
Owsley.....	-	-	2	31	2	31
Perry.....	16	6,602	18	6,345	34	12,947
Pike.....	71	19,801	42	14,758	113	34,559
Union.....	3	7,079	-	-	3	7,079
Webster.....	5	8,474	1	61	6	8,535
Whitley.....	1	32	6	239	7	270
<b>Louisiana</b> .....	-	-	<b>2</b>	<b>2,953</b>	<b>2</b>	<b>2,953</b>
De Soto.....	-	-	1	2,236	1	2,236
Red River.....	-	-	1	717	1	717
<b>Maryland</b> .....	<b>2</b>	<b>3,280</b>	<b>13</b>	<b>557</b>	<b>15</b>	<b>3,837</b>
Allegany.....	-	-	9	436	9	436
Garrett.....	2	3,280	4	121	6	3,401
<b>Mississippi</b> .....	-	-	<b>1</b>	<b>18</b>	<b>1</b>	<b>18</b>
Choctaw.....	-	-	1	18	1	18
<b>Missouri</b> .....	-	-	<b>2</b>	<b>392</b>	<b>2</b>	<b>392</b>
Barton.....	-	-	1	73	1	73
Bates.....	-	-	1	319	1	319
<b>Montana</b> .....	-	-	<b>6</b>	<b>41,102</b>	<b>6</b>	<b>41,102</b>
Big Horn.....	-	-	3	27,338	3	27,338
Richland.....	-	-	1	275	1	275
Rosebud.....	-	-	2	13,489	2	13,489
<b>New Mexico</b> .....	<b>1</b>	<b>106</b>	<b>6</b>	<b>29,051</b>	<b>7</b>	<b>29,156</b>
Colfax.....	-	-	1	1,166	1	1,166
McKinley.....	-	-	2	12,112	2	12,112
San Juan.....	1	106	3	15,772	4	15,878
<b>North Dakota</b> .....	-	-	<b>4</b>	<b>31,135</b>	<b>4</b>	<b>31,135</b>
McLean.....	-	-	1	7,192	1	7,192
Mercer.....	-	-	2	19,317	2	19,317
Oliver.....	-	-	1	4,626	1	4,626
<b>Ohio</b> .....	<b>8</b>	<b>11,431</b>	<b>71</b>	<b>11,048</b>	<b>79</b>	<b>22,480</b>
Athens.....	-	-	1	7	1	7
Belmont.....	1	4,380	6	1,007	7	5,387
Carroll.....	-	-	5	160	5	160
Columbiana.....	1	313	4	191	5	504
Coshocton.....	-	-	3	100	3	100
Gallia.....	-	-	1	221	1	221
Guernsey.....	-	-	3	68	3	68
Harrison.....	1	1,236	10	1,580	11	2,816
Holmes.....	-	-	2	174	2	174
Jackson.....	-	-	3	1,422	3	1,422
Jefferson.....	2	521	4	196	6	717
Mahoning.....	-	-	1	8	1	8
Meigs.....	2	4,491	-	-	2	4,491
Monroe.....	1	490	-	-	1	490
Morgan.....	-	-	1	1,090	1	1,090
Muskingum.....	-	-	1	663	1	663
Noble.....	-	-	3	717	3	717
Perry.....	-	-	6	959	6	959
Stark.....	-	-	5	552	5	552
Tuscarawas.....	-	-	9	804	9	804
Vinton.....	-	-	3	1,130	3	1,130
<b>Oklahoma</b> .....	<b>1</b>	<b>200</b>	<b>9</b>	<b>1,461</b>	<b>10</b>	<b>1,661</b>
Craig.....	-	-	1	194	1	194
Haskell.....	-	-	1	614	1	614
Latimer.....	-	-	1	116	1	116
Le Flore.....	1	200	4	310	5	509
Okmulgee.....	-	-	1	5	1	5
Rogers.....	-	-	1	222	1	222
<b>Pennsylvania</b> .....	<b>87</b>	<b>59,211</b>	<b>252</b>	<b>17,188</b>	<b>339</b>	<b>76,399</b>
Allegheny.....	1	1	1	11	2	12

See footnotes at end of table.

**Table 4. Coal Production and Number of Mines by State, County, and Mine Type, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
<b>Pennsylvania (Continued)</b>						
Armstrong .....	13	4,353	13	975	26	5,328
Beaver .....	1	210	-	-	1	210
Bedford .....	-	-	1	2	1	2
Butler .....	-	-	5	569	5	569
Cambria .....	1	10	13	1,373	14	1,383
Carbon .....	-	-	2	46	2	46
Centre .....	-	-	1	6	1	6
Clarion .....	-	-	7	426	7	426
Clearfield .....	2	180	36	3,111	38	3,291
Columbia .....	1	191	4	369	5	560
Dauphin .....	1	1	1	1	2	2
Elk .....	-	-	4	450	4	450
Fayette .....	-	-	12	283	12	283
Greene .....	11	37,986	4	61	15	38,047
Indiana .....	12	4,609	16	470	28	5,079
Jefferson .....	3	258	17	896	20	1,154
Lackawanna .....	-	-	2	10	2	10
Lawrence .....	-	-	2	85	2	85
Luzerne .....	-	-	16	1,090	16	1,090
Lycoming .....	-	-	1	256	1	256
Northumberland .....	6	24	6	854	12	878
Schuylkill .....	24	162	46	1,946	70	2,107
Somerset .....	8	1,943	22	2,895	30	4,837
Sullivan .....	-	-	2	60	2	60
Venango .....	-	-	2	93	2	93
Washington .....	3	9,284	5	377	8	9,661
Westmoreland .....	-	-	11	474	11	474
<b>Tennessee</b> .....	<b>13</b>	<b>1,489</b>	<b>11</b>	<b>1,548</b>	<b>24</b>	<b>3,037</b>
Anderson .....	1	49	1	42	2	91
Campbell .....	5	387	4	491	9	878
Claiborne .....	5	876	3	351	8	1,227
Cumberland .....	-	-	1	256	1	256
Fentress .....	-	-	1	3	1	3
Morgan .....	1	8	-	-	1	8
Scott .....	1	168	-	-	1	168
Sequatchie .....	-	-	1	407	1	407
<b>Texas</b> .....	<b>-</b>	<b>-</b>	<b>14</b>	<b>53,072</b>	<b>14</b>	<b>53,072</b>
Atascosa .....	-	-	1	3,399	1	3,399
Freestone .....	-	-	1	4,971	1	4,971
Harrison .....	-	-	2	3,744	2	3,744
Hopkins .....	-	-	1	2,126	1	2,126
Leon .....	-	-	1	9,216	1	9,216
Milam .....	-	-	1	6,226	1	6,226
Panola .....	-	-	2	7,768	2	7,768
Robertson .....	-	-	1	1,615	1	1,615
Rusk .....	-	-	1	6,237	1	6,237
Titus .....	-	-	2	7,536	2	7,536
Webb .....	-	-	1	235	1	235
<b>Utah</b> .....	<b>15</b>	<b>26,373</b>	<b>-</b>	<b>-</b>	<b>15</b>	<b>26,373</b>
Carbon .....	9	8,298	-	-	9	8,298
Emery .....	3	11,504	-	-	3	11,504
Sevier .....	3	6,571	-	-	3	6,571
<b>Virginia</b> .....	<b>113</b>	<b>22,562</b>	<b>48</b>	<b>9,732</b>	<b>161</b>	<b>32,294</b>
Buchanan .....	45	9,062	10	1,594	55	10,656
Dickenson .....	18	2,678	7	1,490	25	4,168
Lee .....	5	781	2	219	7	1,000
Russell .....	3	174	1	220	4	394
Tazewell .....	9	2,070	-	-	9	2,070
Wise .....	33	7,798	28	6,208	61	14,005
<b>Washington</b> .....	<b>-</b>	<b>-</b>	<b>2</b>	<b>4,101</b>	<b>2</b>	<b>4,101</b>
King .....	-	-	1	4	1	4
Lewis .....	-	-	1	4,097	1	4,097
<b>West Virginia</b> .....	<b>211</b>	<b>103,727</b>	<b>95</b>	<b>54,251</b>	<b>306</b>	<b>157,978</b>
Barbour .....	2	970	2	64	4	1,034
Boone .....	27	20,251	5	10,030	32	30,281
Brooke .....	1	1,645	-	-	1	1,645
Clay .....	-	-	6	6,836	6	6,836
Fayette .....	3	1,270	3	749	6	2,019
Grant .....	2	172	1	345	3	516
Greenbrier .....	2	293	1	34	3	328

See footnotes at end of table.



**Table 4. Coal Production and Number of Mines by State, County, and Mine Type, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
<b>West Virginia (Continued)</b>						
Harrison .....	9	6,842	7	273	16	7,115
Kanawha .....	6	4,855	6	10,130	12	14,985
Lewis.....	-	-	1	1	1	1
Lincoln.....	1	357	-	-	1	357
Logan.....	16	2,775	6	6,811	22	9,586
Marion.....	1	1,121	2	16	3	1,137
Marshall.....	2	11,399	-	-	2	11,399
McDowell.....	49	3,046	9	1,770	58	4,816
Mercer.....	-	-	1	10	1	10
Mineral.....	-	-	1	49	1	49
Mingo.....	21	13,063	10	6,435	31	19,498
Monongalia.....	5	5,702	3	744	8	6,446
Nicholas.....	9	1,699	6	2,423	15	4,123
Preston.....	3	1,237	5	118	8	1,355
Raleigh.....	17	10,586	2	48	19	10,634
Tucker.....	-	-	2	258	2	258
Upshur.....	7	2,135	6	245	13	2,380
Wayne.....	5	4,982	2	1,700	7	6,682
Webster.....	7	2,429	2	3,022	9	5,452
Wyoming.....	16	6,897	6	2,140	22	9,037
<b>Wyoming</b> .....	<b>1</b>	<b>1,673</b>	<b>21</b>	<b>335,446</b>	<b>22</b>	<b>337,119</b>
Campbell.....	-	-	13	294,791	13	294,791
Carbon.....	1	1,673	2	1,054	3	2,727
Converse.....	-	-	2	25,642	2	25,642
Lincoln.....	-	-	1	4,320	1	4,320
Sheridan.....	-	-	1	76	1	76
Sweetwater.....	-	-	2	9,563	2	9,563
<b>U.S. Total</b> .....	<b>749</b>	<b>391,790</b>	<b>842</b>	<b>708,642</b>	<b>1,591</b>	<b>1,100,431</b>

Source: U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

Notes: Coal production is attributed to the county in which the mine originally opened. Production excludes silt, culm, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

**Table 5. Underground Coal Production by State and Mining Method, 1999**  
(Thousand Short Tons)

Coal-Producing State and Region	Continuous <sup>1</sup>	Conventional <sup>2</sup>	Longwall <sup>3</sup>	Other <sup>4</sup>	Total
Alabama.....	87	—	14,712	*	14,799
Colorado.....	772	—	19,706	—	20,478
Illinois.....	23,401	—	13,357	—	36,758
Indiana.....	3,553	—	—	—	3,553
Kentucky Total.....	73,463	2,599	9,948	140	86,150
Eastern.....	58,439	2,599	1,754	140	62,932
Western.....	15,024	—	8,194	—	23,218
Maryland.....	448	—	2,832	—	3,280
New Mexico.....	106	—	—	—	106
Ohio.....	2,071	—	9,361	—	11,431
Oklahoma.....	200	—	—	—	200
Pennsylvania Total.....	12,828	57	46,189	137	59,211
Anthracite.....	213	57	—	107	377
Bituminous.....	12,615	—	46,189	30	58,834
Tennessee.....	1,478	—	—	11	1,489
Utah.....	2,217	1,055	23,093	8	26,373
Virginia.....	16,445	30	6,033	55	22,562
West Virginia Total.....	58,161	69	45,415	83	103,727
Northern.....	9,522	—	24,131	—	33,653
Southern.....	48,639	69	21,284	83	70,075
Wyoming.....	—	—	1,673	—	1,673
<b>Appalachian Total<sup>5</sup>.....</b>	<b>149,956</b>	<b>2,755</b>	<b>126,296</b>	<b>425</b>	<b>279,432</b>
<b>Interior Total<sup>5</sup>.....</b>	<b>42,177</b>	<b>—</b>	<b>21,552</b>	<b>—</b>	<b>63,729</b>
<b>Western Total<sup>5</sup>.....</b>	<b>3,095</b>	<b>1,055</b>	<b>44,472</b>	<b>8</b>	<b>48,629</b>
<b>East of Miss. River.....</b>	<b>191,933</b>	<b>2,755</b>	<b>147,848</b>	<b>425</b>	<b>342,961</b>
<b>West of Miss. River.....</b>	<b>3,294</b>	<b>1,055</b>	<b>44,472</b>	<b>8</b>	<b>48,829</b>
<b>U.S. Total.....</b>	<b>195,228</b>	<b>3,810</b>	<b>192,320</b>	<b>433</b>	<b>391,790</b>

<sup>1</sup> Mines that produce greater than 50 percent of coal by continuous mining method.

<sup>2</sup> Mines that produce greater than 50 percent of coal by conventional mining method.

<sup>3</sup> Mines that have any production from longwall mining method. A typical longwall mining operation uses 80 percent longwall mining and 20 percent continuous mining.

<sup>4</sup> Mines that produce coal using shortwall, scoop loading, hand loading, or other mining methods or a 50/50 percent continuous/conventional split in mining method, or mines that produce less than 10,000 short tons, which are not required to provide data.

<sup>5</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 6. Coal Production and Number of Mines by State, Mine Type, and Mine Production Range, 1999**  
(Thousand Short Tons)

Coal-Producing State, Region and Type of Mining	Number of Mines						Production					
	Mine Production Range (thousand short tons)											
	1,000 and over	500 to 1,000	200 to 500	100 to 200	10 to 100	Less than 10	1,000 and over	500 to 1,000	200 to 500	100 to 200	10 to 100	Less than 10
<b>Alabama</b> .....	<b>7</b>	-	<b>7</b>	<b>5</b>	<b>25</b>	<b>3</b>	<b>15,559</b>	-	<b>1,994</b>	<b>729</b>	<b>1,204</b>	<b>18</b>
Underground .....	6	-	1	-	1	1	14,375	-	337	-	87	*
Surface .....	1	-	6	5	24	2	1,184	-	1,656	729	1,117	18
<b>Alaska</b> .....	<b>1</b>	-	-	-	-	-	<b>1,565</b>	-	-	-	-	-
Surface .....	1	-	-	-	-	-	1,565	-	-	-	-	-
<b>Arizona</b> .....	<b>2</b>	-	-	-	-	-	<b>11,787</b>	-	-	-	-	-
Surface .....	2	-	-	-	-	-	11,787	-	-	-	-	-
<b>Arkansas</b> .....	-	-	-	-	<b>1</b>	<b>2</b>	-	-	-	-	<b>15</b>	<b>8</b>
Surface .....	-	-	-	-	1	2	-	-	-	-	15	8
<b>Colorado</b> .....	<b>8</b>	-	<b>4</b>	-	-	-	<b>28,858</b>	-	<b>1,132</b>	-	-	-
Underground .....	5	-	3	-	-	-	19,706	-	772	-	-	-
Surface .....	3	-	1	-	-	-	9,152	-	359	-	-	-
<b>Illinois</b> .....	<b>15</b>	<b>4</b>	-	<b>2</b>	<b>2</b>	-	<b>37,410</b>	<b>2,611</b>	-	<b>303</b>	<b>93</b>	-
Underground .....	13	2	-	1	1	-	35,093	1,450	-	143	72	-
Surface .....	2	2	-	1	1	-	2,317	1,161	-	160	21	-
<b>Indiana</b> .....	<b>13</b>	<b>11</b>	<b>3</b>	-	<b>7</b>	-	<b>25,071</b>	<b>7,729</b>	<b>856</b>	-	<b>348</b>	-
Underground .....	2	-	1	-	-	-	3,117	-	436	-	-	-
Surface .....	11	11	2	-	7	-	21,954	7,729	420	-	348	-
<b>Kansas</b> .....	-	-	<b>1</b>	<b>1</b>	-	-	-	-	<b>209</b>	<b>200</b>	-	-
Surface .....	-	-	1	1	-	-	-	-	209	200	-	-
<b>Kentucky Total</b> .....	<b>35</b>	<b>49</b>	<b>92</b>	<b>84</b>	<b>155</b>	<b>43</b>	<b>57,212</b>	<b>34,144</b>	<b>28,964</b>	<b>12,309</b>	<b>6,764</b>	<b>233</b>
Underground .....	20	31	50	64	81	14	36,536	20,737	15,645	9,404	3,752	75
Surface .....	15	18	42	20	74	29	20,676	13,406	13,319	2,905	3,012	158
<b>Eastern</b> .....	<b>26</b>	<b>43</b>	<b>83</b>	<b>82</b>	<b>145</b>	<b>42</b>	<b>35,454</b>	<b>30,265</b>	<b>25,898</b>	<b>12,016</b>	<b>6,184</b>	<b>226</b>
Underground .....	13	27	47	62	80	14	17,091	18,370	14,591	9,111	3,695	75
Surface .....	13	16	36	20	65	28	18,363	11,895	11,307	2,905	2,489	151
<b>Western</b> .....	<b>9</b>	<b>6</b>	<b>9</b>	<b>2</b>	<b>10</b>	<b>1</b>	<b>21,759</b>	<b>3,879</b>	<b>3,065</b>	<b>293</b>	<b>580</b>	<b>7</b>
Underground .....	7	4	3	2	1	-	19,446	2,368	1,054	293	57	-
Surface .....	2	2	6	-	9	1	2,313	1,511	2,011	-	522	7
<b>Louisiana</b> .....	<b>1</b>	<b>1</b>	-	-	-	-	<b>2,236</b>	<b>717</b>	-	-	-	-
Surface .....	1	1	-	-	-	-	2,236	717	-	-	-	-
<b>Maryland</b> .....	<b>1</b>	-	<b>1</b>	<b>2</b>	<b>7</b>	<b>4</b>	<b>2,832</b>	-	<b>448</b>	<b>293</b>	<b>235</b>	<b>29</b>
Underground .....	1	-	1	-	-	-	2,832	-	448	-	-	-
Surface .....	-	-	-	2	7	4	-	-	-	293	235	29
<b>Mississippi</b> .....	-	-	-	-	<b>1</b>	-	-	-	-	-	<b>18</b>	-
Surface .....	-	-	-	-	1	-	-	-	-	-	18	-
<b>Missouri</b> .....	-	-	<b>1</b>	-	<b>1</b>	-	-	-	<b>319</b>	-	<b>73</b>	-
Surface .....	-	-	1	-	1	-	-	-	319	-	73	-
<b>Montana</b> .....	<b>5</b>	-	<b>1</b>	-	-	-	<b>40,827</b>	-	<b>275</b>	-	-	-
Surface .....	5	-	1	-	-	-	40,827	-	275	-	-	-
<b>New Mexico</b> .....	<b>6</b>	-	-	<b>1</b>	-	-	<b>29,051</b>	-	-	<b>106</b>	-	-
Underground .....	-	-	-	1	-	-	-	-	-	106	-	-
Surface .....	6	-	-	-	-	-	29,051	-	-	-	-	-
<b>North Dakota</b> .....	<b>4</b>	-	-	-	-	-	<b>31,135</b>	-	-	-	-	-
Surface .....	4	-	-	-	-	-	31,135	-	-	-	-	-
<b>Ohio</b> .....	<b>5</b>	<b>7</b>	<b>14</b>	<b>10</b>	<b>23</b>	<b>20</b>	<b>11,198</b>	<b>4,901</b>	<b>3,959</b>	<b>1,472</b>	<b>853</b>	<b>98</b>
Underground .....	4	-	4	-	-	-	10,107	-	1,324	-	-	-
Surface .....	1	7	10	10	23	20	1,090	4,901	2,635	1,472	853	98
<b>Oklahoma</b> .....	-	<b>1</b>	<b>1</b>	<b>5</b>	-	<b>3</b>	-	<b>614</b>	<b>222</b>	<b>809</b>	-	<b>16</b>
Underground .....	-	-	-	1	-	-	-	-	-	200	-	-
Surface .....	-	1	1	4	-	3	-	614	222	609	-	16
<b>Pennsylvania Total</b> .....	<b>10</b>	<b>10</b>	<b>34</b>	<b>32</b>	<b>144</b>	<b>109</b>	<b>49,029</b>	<b>6,283</b>	<b>10,356</b>	<b>4,878</b>	<b>5,461</b>	<b>392</b>
Underground .....	9	8	12	15	13	30	47,559	5,101	3,771	2,249	420	111
Surface .....	1	2	22	17	131	79	1,470	1,183	6,585	2,629	5,041	281
<b>Anthracite</b> .....	-	<b>1</b>	<b>6</b>	<b>5</b>	<b>45</b>	<b>54</b>	-	<b>644</b>	<b>1,725</b>	<b>764</b>	<b>1,446</b>	<b>174</b>
Underground .....	-	-	-	1	6	25	-	-	-	191	105	81
Surface .....	-	1	6	4	39	29	-	644	1,725	573	1,341	93
<b>Bituminous</b> .....	<b>10</b>	<b>9</b>	<b>28</b>	<b>27</b>	<b>99</b>	<b>55</b>	<b>49,029</b>	<b>5,640</b>	<b>8,631</b>	<b>4,114</b>	<b>4,015</b>	<b>218</b>
Underground .....	9	8	12	14	7	5	47,559	5,101	3,771	2,058	316	30
Surface .....	1	1	16	13	92	50	1,470	539	4,860	2,056	3,699	188
<b>Tennessee</b> .....	-	-	<b>7</b>	<b>4</b>	<b>9</b>	<b>4</b>	-	-	<b>1,949</b>	<b>686</b>	<b>384</b>	<b>18</b>
Underground .....	-	-	3	2	6	2	-	-	830	355	294	11
Surface .....	-	-	4	2	3	2	-	-	1,119	331	90	7

See footnotes at end of table.

**Table 6. Coal Production and Number of Mines by State, Mine Type, and Mine Production Range, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State, Region and Type of Mining	Number of Mines						Production					
	Mine Production Range (thousand short tons)											
	1,000 and over	500 to 1,000	200 to 500	100 to 200	10 to 100	Less than 10	1,000 and over	500 to 1,000	200 to 500	100 to 200	10 to 100	Less than 10
<b>Texas</b> .....	<b>12</b>	-	<b>2</b>	-	-	-	<b>52,591</b>	-	<b>482</b>	-	-	-
Surface .....	12	-	2	-	-	-	52,591	-	482	-	-	-
<b>Utah</b> .....	<b>7</b>	<b>3</b>	<b>2</b>	-	<b>2</b>	<b>1</b>	<b>23,609</b>	<b>1,895</b>	<b>759</b>	-	<b>102</b>	<b>8</b>
Underground .....	7	3	2	-	2	1	23,609	1,895	759	-	102	8
<b>Virginia</b> .....	<b>2</b>	<b>13</b>	<b>36</b>	<b>22</b>	<b>69</b>	<b>19</b>	<b>6,033</b>	<b>8,535</b>	<b>11,162</b>	<b>3,242</b>	<b>3,245</b>	<b>78</b>
Underground .....	2	8	19	18	55	11	6,033	5,182	5,876	2,687	2,730	55
Surface .....	-	5	17	4	14	8	-	3,353	5,286	555	515	23
<b>Washington</b> .....	<b>1</b>	-	-	-	-	<b>1</b>	<b>4,097</b>	-	-	-	-	<b>4</b>
Surface .....	1	-	-	-	-	1	4,097	-	-	-	-	4
<b>West Virginia Total</b> .....	<b>41</b>	<b>35</b>	<b>59</b>	<b>48</b>	<b>92</b>	<b>31</b>	<b>103,014</b>	<b>24,463</b>	<b>19,166</b>	<b>7,033</b>	<b>4,157</b>	<b>146</b>
Underground .....	24	24	48	41	60	14	62,554	17,076	15,257	5,992	2,765	83
Surface .....	17	11	11	7	32	17	40,460	7,387	3,908	1,040	1,393	63
<b>Northern</b> .....	<b>9</b>	<b>6</b>	<b>7</b>	<b>12</b>	<b>30</b>	<b>7</b>	<b>29,371</b>	<b>4,006</b>	<b>2,165</b>	<b>1,762</b>	<b>1,450</b>	<b>33</b>
Underground .....	8	5	6	9	11	-	26,443	3,414	1,821	1,334	642	-
Surface .....	1	1	1	3	19	7	2,928	592	345	428	808	33
<b>Southern</b> .....	<b>32</b>	<b>29</b>	<b>52</b>	<b>36</b>	<b>62</b>	<b>24</b>	<b>73,643</b>	<b>20,457</b>	<b>17,000</b>	<b>5,271</b>	<b>2,707</b>	<b>113</b>
Underground .....	16	19	42	32	49	14	36,111	13,662	13,437	4,659	2,122	83
Surface .....	16	10	10	4	13	10	37,532	6,795	3,564	612	585	30
<b>Wyoming</b> .....	<b>18</b>	<b>2</b>	<b>1</b>	-	<b>1</b>	-	<b>335,181</b>	<b>1,406</b>	<b>456</b>	-	<b>76</b>	-
Underground .....	1	-	-	-	-	-	1,673	-	-	-	-	-
Surface .....	17	2	1	-	1	-	333,508	1,406	456	-	76	-
<b>Appalachian Total</b> <sup>1</sup> .....	<b>92</b>	<b>108</b>	<b>241</b>	<b>205</b>	<b>514</b>	<b>232</b>	<b>223,119</b>	<b>74,448</b>	<b>74,930</b>	<b>30,348</b>	<b>21,723</b>	<b>1,005</b>
Underground .....	59	67	135	138	215	72	160,551	45,728	42,433	20,394	9,990	335
Surface .....	33	41	106	67	299	160	62,568	28,719	32,496	9,954	11,733	670
<b>Interior Total</b> <sup>1</sup> .....	<b>50</b>	<b>23</b>	<b>17</b>	<b>10</b>	<b>22</b>	<b>6</b>	<b>139,066</b>	<b>15,549</b>	<b>5,153</b>	<b>1,605</b>	<b>1,127</b>	<b>31</b>
Underground .....	22	6	4	4	2	-	57,655	3,818	1,491	636	129	-
Surface .....	28	17	13	6	20	6	81,410	11,732	3,663	969	997	31
<b>Western Total</b> <sup>1</sup> .....	<b>52</b>	<b>5</b>	<b>8</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>506,110</b>	<b>3,300</b>	<b>2,622</b>	<b>106</b>	<b>178</b>	<b>12</b>
Underground .....	13	3	5	1	2	1	44,987	1,895	1,532	106	102	8
Surface .....	39	2	3	-	1	1	461,123	1,406	1,090	-	76	4
<b>East of Miss. River</b> .....	<b>129</b>	<b>129</b>	<b>253</b>	<b>209</b>	<b>534</b>	<b>233</b>	<b>307,358</b>	<b>88,666</b>	<b>78,852</b>	<b>30,944</b>	<b>22,762</b>	<b>1,012</b>
Underground .....	81	73	139	141	217	72	218,206	49,546	43,924	20,830	10,120	335
Surface .....	48	56	114	68	317	161	89,152	39,120	34,928	10,114	12,643	677
<b>West of Miss. River</b> .....	<b>65</b>	<b>7</b>	<b>13</b>	<b>7</b>	<b>5</b>	<b>7</b>	<b>560,937</b>	<b>4,631</b>	<b>3,853</b>	<b>1,114</b>	<b>266</b>	<b>36</b>
Underground .....	13	3	5	2	2	1	44,987	1,895	1,532	305	102	8
Surface .....	52	4	8	5	3	6	515,949	2,736	2,322	809	164	28
<b>U.S. Total</b> .....	<b>194</b>	<b>136</b>	<b>266</b>	<b>216</b>	<b>539</b>	<b>240</b>	<b>868,295</b>	<b>93,297</b>	<b>82,705</b>	<b>32,058</b>	<b>23,028</b>	<b>1,048</b>
Underground .....	94	76	144	143	219	73	263,194	51,441	45,456	21,135	10,222	343
Surface .....	100	60	122	73	320	167	605,101	41,857	37,249	10,923	12,807	705

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

Source: U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

Notes: Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

**Table 7. U.S. Coal Production by Coalbed Thickness and Mine Type, 1999**  
(Thousand Short Tons)

Coalbed Thickness (inches)	Underground	Surface	Total
< 7 .....	-	48	48
7-12 .....	-	2,183	2,183
13-18 .....	-	6,225	6,225
19-24 .....	236	13,935	14,172
25-30 .....	3,560	22,805	26,365
31-36 .....	28,372	26,007	54,379
37-42 .....	29,568	18,803	48,371
43-48 .....	29,725	24,239	53,963
49-54 .....	33,694	26,256	59,950
55-60 .....	41,978	24,741	66,719
61-66 .....	38,844	8,192	47,036
67-72 .....	47,735	17,361	65,095
73-78 .....	29,904	4,757	34,661
79-84 .....	34,189	16,765	50,954
85-90 .....	9,477	8,805	18,282
91-96 .....	19,247	9,803	29,050
97-102 .....	4,813	2,969	7,783
103-108 .....	2,599	11,837	14,436
109-114 .....	8,945	11,239	20,184
115-120 .....	3,400	2,189	5,589
> 120 .....	25,162	448,776	473,938
<b>Unknown<sup>1</sup> .....</b>	<b>343</b>	<b>705</b>	<b>1,048</b>
<b>U.S. Total .....</b>	<b>391,790</b>	<b>708,642</b>	<b>1,100,431</b>

<sup>1</sup> Includes mines with production of less than 10,000 short tons, which are not required to provide data.

Notes: Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 8. U.S. Coal Production and Coalbed Thickness by Major Coalbeds and Mine Type, 1999**

Coalbed ID Number <sup>1</sup> Coalbed Name <sup>2</sup>	Production (thousand short tons)			Thickness (inches)		
	Underground	Surface	Total	Average <sup>3</sup>	Low	High
1699 Wyodak .....	—	291,764	291,764	773	90	1,044
0036 Pittsburgh .....	78,172	2,200	80,372	73	30	132
0489 No. 9 .....	29,917	10,410	40,327	63	40	81
0111 Hazard No. 5-A .....	13,104	19,486	32,590	77	12	122
1569 Beulah-Zap .....	—	28,869	28,869	156	144	180
0484 No. 6 .....	23,568	2,226	25,794	78	40	240
0135 Hazard No. 4 .....	18,429	5,326	23,755	52	26	135
0084 Lower Kittanning .....	6,921	13,472	20,393	55	15	112
0103 Stockton-Lewiston .....	3,945	14,857	18,802	78	18	120
0151 Elkhorn No. 1 .....	12,128	4,451	16,579	48	17	119
1808 Rosebud .....	—	16,549	16,549	267	216	288
0168 Lower Elkhorn .....	13,971	1,927	15,898	53	12	144
0344 Pocahontas No. 3 .....	11,385	11	11,396	65	37	83
0071 Upper Freeport .....	8,007	2,946	10,953	56	6	96
0176 Eagle .....	10,090	702	10,792	58	20	67
<b>Major Coalbeds Total .....</b>	<b>229,636</b>	<b>415,197</b>	<b>644,833</b>	<b>395</b>	<b>6</b>	<b>1,044</b>
<b>Other Coalbeds .....</b>	<b>161,811</b>	<b>292,740</b>	<b>454,550</b>	<b>143</b>	<b>2</b>	<b>1,440</b>
<b>Unknown<sup>4</sup> .....</b>	<b>343</b>	<b>705</b>	<b>1,048</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>
<b>U.S. Total .....</b>	<b>391,790</b>	<b>708,642</b>	<b>1,100,431</b>	<b>291</b>	<b>2</b>	<b>1,440</b>

<sup>1</sup> The coalbed ID number is a unique code assigned by EIA to each correlated coalbed or to coal-bearing geologic formations, coal groups, or coal zones.

<sup>2</sup> The coalbed name given is the name most commonly used in the State having the greatest production from that coalbed. The States having the greatest production for each coalbed are: Eastern Kentucky (coalbeds 0111, 0135, 0151, 0168, 0176); West Virginia (0036, 0084, 0103, 0344); Pennsylvania (0071); Western Kentucky (0489); Illinois (0484); North Dakota (1569); Montana (1808); Wyoming (1699). In some other States where these are major producing beds, the following alternate coalbed names are also used: 0084, No. 5 Block (Eastern Kentucky); 0111, Coalburg (West Virginia); 0135, Chilton (West Virginia); 0151, Jellico (Tennessee), Taggart (Virginia), Cedar Grove (West Virginia); 0168, No. 2 Gas (West Virginia); 0176, Middle Eagle (West Virginia); 0484, No. 11 (Western Kentucky); 0489, No. 5 (Illinois and Indiana).

<sup>3</sup> Average thickness is the bed thickness weighted by bed production.

<sup>4</sup> Includes mines with production of less than 10,000 short tons, which are not required to provide data.

NA Not available.

Notes: Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. A major coalbed is defined here as a coalbed from which 10 million or more short tons were produced during the year. The category "Other Coalbeds" includes all coalbeds from which less than 10 million short tons were produced during the year. In some regions, coalbeds are characteristically discontinuous or uncorrelatable from one location to another, and production is identified by the geological formations, coal groups, or coal zones of the native rock where the coalbeds occur. These types of coalbeds are found primarily in the Rocky Mountain States and even in the Gulf Coast lignite belt. Coalbeds of these types are also included in "Other Coalbeds," even though production may exceed 10 million short tons. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 9. Coal Production and Number of Mines by State and Coal Rank, 1999**

(Thousand Short Tons)

Coal-Producing State and Region	Bituminous		Subbituminous		Lignite		Anthracite		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama.....	47	19,504	-	-	-	-	-	-	47	19,504
Alaska.....	-	-	1	1,565	-	-	-	-	1	1,565
Arizona.....	2	11,787	-	-	-	-	-	-	2	11,787
Arkansas.....	2	8	-	-	-	-	1	15	3	22
Colorado.....	10	22,201	2	7,788	-	-	-	-	12	29,989
Illinois.....	23	40,417	-	-	-	-	-	-	23	40,417
Indiana.....	34	34,004	-	-	-	-	-	-	34	34,004
Kansas.....	2	409	-	-	-	-	-	-	2	409
Kentucky Total.....	458	139,626	-	-	-	-	-	-	458	139,626
Eastern.....	421	110,043	-	-	-	-	-	-	421	110,043
Western.....	37	29,583	-	-	-	-	-	-	37	29,583
Louisiana.....	-	-	-	-	2	2,953	-	-	2	2,953
Maryland.....	15	3,837	-	-	-	-	-	-	15	3,837
Mississippi.....	-	-	-	-	1	18	-	-	1	18
Missouri.....	2	392	-	-	-	-	-	-	2	392
Montana.....	-	-	5	40,827	1	275	-	-	6	41,102
New Mexico.....	5	11,117	3	18,039	-	-	-	-	7	29,156
North Dakota.....	-	-	-	-	4	31,135	-	-	4	31,135
Ohio.....	79	22,480	-	-	-	-	-	-	79	22,480
Oklahoma.....	10	1,661	-	-	-	-	-	-	10	1,661
Pennsylvania Total.....	228	71,646	-	-	-	-	111	4,753	339	76,399
Anthracite.....	-	-	-	-	-	-	111	4,753	111	4,753
Bituminous.....	228	71,646	-	-	-	-	-	-	228	71,646
Tennessee.....	24	3,037	-	-	-	-	-	-	24	3,037
Texas.....	1	235	-	-	13	52,837	-	-	14	53,072
Utah.....	15	26,373	-	-	-	-	-	-	15	26,373
Virginia.....	161	32,294	-	-	-	-	-	-	161	32,294
Washington.....	-	-	2	4,101	-	-	-	-	2	4,101
West Virginia Total.....	306	157,978	-	-	-	-	-	-	306	157,978
Northern.....	71	38,788	-	-	-	-	-	-	71	38,788
Southern.....	235	119,191	-	-	-	-	-	-	235	119,191
Wyoming.....	3	2,727	19	334,393	-	-	-	-	22	337,119
<b>Appalachian Total<sup>1</sup>.....</b>	<b>1,281</b>	<b>420,819</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>111</b>	<b>4,753</b>	<b>1,392</b>	<b>425,573</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>111</b>	<b>106,708</b>	<b>-</b>	<b>-</b>	<b>16</b>	<b>55,808</b>	<b>1</b>	<b>15</b>	<b>128</b>	<b>162,530</b>
<b>Western Total<sup>1</sup>.....</b>	<b>35</b>	<b>74,205</b>	<b>32</b>	<b>406,714</b>	<b>5</b>	<b>31,410</b>	<b>-</b>	<b>-</b>	<b>71</b>	<b>512,328</b>
<b>East of Miss. River.....</b>	<b>1,375</b>	<b>524,823</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>18</b>	<b>111</b>	<b>4,753</b>	<b>1,487</b>	<b>529,594</b>
<b>West of Miss. River.....</b>	<b>52</b>	<b>76,909</b>	<b>32</b>	<b>406,714</b>	<b>20</b>	<b>87,199</b>	<b>1</b>	<b>15</b>	<b>104</b>	<b>570,837</b>
<b>U.S. Total.....</b>	<b>1,427</b>	<b>601,732</b>	<b>32</b>	<b>406,714</b>	<b>21</b>	<b>87,218</b>	<b>112</b>	<b>4,768</b>	<b>1,591</b>	<b>1,100,431</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

Notes: Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 10. Coal Production by State, Coal Rank, and Group, 1999**  
(Thousand Short Tons)

Coal-Producing State and Region	Bituminous Low Volatile	Bituminous Medium Volatile	Bituminous High Volatile	Bituminous Total	Subbituminous	Lignite	Anthracite	Total
Alabama .....	NA	NA	NA	19,504	-	-	-	19,504
Alaska .....	NA	NA	NA	-	1,565	-	-	1,565
Arizona .....	NA	NA	NA	11,787	-	-	-	11,787
Arkansas .....	NA	NA	NA	8	-	-	15	22
Colorado .....	NA	NA	NA	22,201	7,788	-	-	29,989
Illinois .....	NA	NA	NA	40,417	-	-	-	40,417
Indiana .....	NA	NA	NA	34,004	-	-	-	34,004
Kansas .....	NA	NA	NA	409	-	-	-	409
Kentucky Total .....	NA	NA	NA	139,626	-	-	-	139,626
Eastern .....	NA	NA	NA	110,043	-	-	-	110,043
Western .....	NA	NA	NA	29,583	-	-	-	29,583
Louisiana .....	NA	NA	NA	-	-	2,953	-	2,953
Maryland .....	NA	NA	NA	3,837	-	-	-	3,837
Mississippi .....	NA	NA	NA	-	-	18	-	18
Missouri .....	NA	NA	NA	392	-	-	-	392
Montana .....	NA	NA	NA	-	40,827	275	-	41,102
New Mexico .....	NA	NA	NA	11,117	18,039	-	-	29,156
North Dakota .....	NA	NA	NA	-	-	31,135	-	31,135
Ohio .....	NA	NA	NA	22,480	-	-	-	22,480
Oklahoma .....	NA	NA	NA	1,661	-	-	-	1,661
Pennsylvania Total .....	NA	NA	NA	71,646	-	-	4,753	76,399
Anthracite .....	NA	NA	NA	-	-	-	4,753	4,753
Bituminous .....	NA	NA	NA	71,646	-	-	-	71,646
Tennessee .....	NA	NA	NA	3,037	-	-	-	3,037
Texas .....	NA	NA	NA	235	-	52,837	-	53,072
Utah .....	NA	NA	NA	26,373	-	-	-	26,373
Virginia .....	NA	NA	NA	32,294	-	-	-	32,294
Washington .....	NA	NA	NA	-	4,101	-	-	4,101
West Virginia Total .....	NA	NA	NA	157,978	-	-	-	157,978
Northern .....	NA	NA	NA	38,788	-	-	-	38,788
Southern .....	NA	NA	NA	119,191	-	-	-	119,191
Wyoming .....	NA	NA	NA	2,727	334,393	-	-	337,119
<b>Appalachian Total<sup>1</sup></b> .....	NA	NA	NA	<b>420,819</b>	-	-	<b>4,753</b>	<b>425,573</b>
<b>Interior Total<sup>1</sup></b> .....	NA	NA	NA	<b>106,708</b>	-	<b>55,808</b>	<b>15</b>	<b>162,530</b>
<b>Western Total<sup>1</sup></b> .....	NA	NA	NA	<b>74,205</b>	<b>406,714</b>	<b>31,410</b>	-	<b>512,328</b>
<b>East of Miss. River</b> .....	NA	NA	NA	<b>524,823</b>	-	<b>18</b>	<b>4,753</b>	<b>529,594</b>
<b>West of Miss. River</b> .....	NA	NA	NA	<b>76,909</b>	<b>406,714</b>	<b>87,199</b>	<b>15</b>	<b>570,837</b>
<b>U.S. Total</b> .....	NA	NA	NA	<b>601,732</b>	<b>406,714</b>	<b>87,218</b>	<b>4,768</b>	<b>1,100,431</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

NA Not available.

Notes: Refer to the *Classification of Coals by Rank* table in Appendix C for coal group definitions. Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."



**Table 11. Coal Production by State, Mine Type, and Union Type, 1999**  
(Thousand Short Tons)

Coal-Producing State and Region	UMWA	Other Unions	Union Total	Nonunion	Total
<b>Alabama</b> .....	<b>15,957</b>	—	<b>15,957</b>	<b>3,530</b>	<b>19,486</b>
Underground.....	14,712	—	14,712	87	14,799
Surface.....	1,244	—	1,244	3,443	4,687
<b>Alaska</b> .....	—	—	—	<b>1,565</b>	<b>1,565</b>
Surface.....	—	—	—	1,565	1,565
<b>Arizona</b> .....	<b>11,787</b>	—	<b>11,787</b>	—	<b>11,787</b>
Surface.....	11,787	—	11,787	—	11,787
<b>Arkansas</b> .....	—	—	—	<b>15</b>	<b>15</b>
Surface.....	—	—	—	15	15
<b>Colorado</b> .....	<b>11,560</b>	<b>2,219</b>	<b>13,779</b>	<b>16,211</b>	<b>29,989</b>
Underground.....	9,837	—	9,837	10,641	20,478
Surface.....	1,723	2,219	3,942	5,569	9,511
<b>Illinois</b> .....	<b>21,079</b>	<b>3,288</b>	<b>24,367</b>	<b>16,050</b>	<b>40,417</b>
Underground.....	20,574	2,042	22,616	14,142	36,758
Surface.....	505	1,245	1,750	1,908	3,659
<b>Indiana</b> .....	<b>10,994</b>	—	<b>10,994</b>	<b>23,010</b>	<b>34,004</b>
Underground.....	—	—	—	3,553	3,553
Surface.....	10,994	—	10,994	19,457	30,451
<b>Kansas</b> .....	—	—	—	<b>409</b>	<b>409</b>
Surface.....	—	—	—	409	409
<b>Kentucky Total</b> .....	<b>13,415</b>	—	<b>13,415</b>	<b>125,977</b>	<b>139,393</b>
Underground.....	12,920	—	12,920	73,155	86,075
Surface.....	495	—	495	52,823	53,318
<b>Eastern</b> .....	<b>662</b>	—	<b>662</b>	<b>109,156</b>	<b>109,817</b>
Underground.....	662	—	662	62,195	62,857
Surface.....	—	—	—	46,960	46,960
<b>Western</b> .....	<b>12,754</b>	—	<b>12,754</b>	<b>16,822</b>	<b>29,575</b>
Underground.....	12,258	—	12,258	10,960	23,218
Surface.....	495	—	495	5,862	6,357
<b>Louisiana</b> .....	—	—	—	<b>2,953</b>	<b>2,953</b>
Surface.....	—	—	—	2,953	2,953
<b>Maryland</b> .....	—	—	—	<b>3,808</b>	<b>3,808</b>
Underground.....	—	—	—	3,280	3,280
Surface.....	—	—	—	528	528
<b>Mississippi</b> .....	—	—	—	<b>18</b>	<b>18</b>
Surface.....	—	—	—	18	18
<b>Missouri</b> .....	—	—	—	<b>392</b>	<b>392</b>
Surface.....	—	—	—	392	392
<b>Montana</b> .....	<b>13,745</b>	<b>16,361</b>	<b>30,106</b>	<b>10,996</b>	<b>41,102</b>
Surface.....	13,745	16,361	30,106	10,996	41,102
<b>New Mexico</b> .....	<b>8,348</b>	<b>15,772</b>	<b>24,120</b>	<b>5,036</b>	<b>29,156</b>
Underground.....	—	—	—	106	106
Surface.....	8,348	15,772	24,120	4,931	29,051
<b>North Dakota</b> .....	<b>2,926</b>	<b>4,626</b>	<b>7,552</b>	<b>23,583</b>	<b>31,135</b>
Surface.....	2,926	4,626	7,552	23,583	31,135
<b>Ohio</b> .....	<b>11,332</b>	—	<b>11,332</b>	<b>11,050</b>	<b>22,382</b>
Underground.....	9,361	—	9,361	2,071	11,431
Surface.....	1,971	—	1,971	8,979	10,950
<b>Oklahoma</b> .....	—	—	—	<b>1,645</b>	<b>1,645</b>
Underground.....	—	—	—	200	200
Surface.....	—	—	—	1,445	1,445
<b>Pennsylvania Total</b> .....	<b>32,674</b>	<b>30</b>	<b>32,704</b>	<b>43,303</b>	<b>76,007</b>
Underground.....	31,475	—	31,475	27,625	59,100
Surface.....	1,200	30	1,229	15,678	16,907
<b>Anthracite</b> .....	<b>515</b>	<b>30</b>	<b>544</b>	<b>4,034</b>	<b>4,579</b>
Underground.....	—	—	—	296	296
Surface.....	515	30	544	3,739	4,283
<b>Bituminous</b> .....	<b>32,159</b>	—	<b>32,159</b>	<b>39,268</b>	<b>71,428</b>
Underground.....	31,475	—	31,475	27,329	58,804
Surface.....	685	—	685	11,939	12,624
<b>Tennessee</b> .....	—	—	—	<b>3,019</b>	<b>3,019</b>
Underground.....	—	—	—	1,478	1,478
Surface.....	—	—	—	1,541	1,541
<b>Texas</b> .....	<b>25,295</b>	<b>9,816</b>	<b>35,111</b>	<b>17,962</b>	<b>53,072</b>
Surface.....	25,295	9,816	35,111	17,962	53,072
<b>Utah</b> .....	<b>7,717</b>	<b>808</b>	<b>8,525</b>	<b>17,840</b>	<b>26,364</b>
Underground.....	7,717	808	8,525	17,840	26,364
<b>Virginia</b> .....	<b>4,254</b>	<b>1,479</b>	<b>5,733</b>	<b>26,483</b>	<b>32,216</b>
Underground.....	4,254	839	5,093	17,415	22,508
Surface.....	—	640	640	9,068	9,708
<b>Washington</b> .....	—	<b>4,097</b>	<b>4,097</b>	—	<b>4,097</b>
Surface.....	—	4,097	4,097	—	4,097

See footnotes at end of table.

**Table 11. Coal Production by State, Mine Type, and Union Type, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State and Region	UMWA	Other Unions	Union Total	Nonunion	Total
<b>West Virginia Total</b> .....	<b>65,965</b>	—	<b>65,965</b>	<b>91,868</b>	<b>157,833</b>
Underground.....	47,741	—	47,741	55,903	103,644
Surface.....	18,224	—	18,224	35,965	54,188
<b>Northern</b> .....	<b>24,464</b>	—	<b>24,464</b>	<b>14,291</b>	<b>38,755</b>
Underground.....	24,464	—	24,464	9,189	33,653
Surface.....	—	—	—	5,102	5,102
<b>Southern</b> .....	<b>41,501</b>	—	<b>41,501</b>	<b>77,577</b>	<b>119,078</b>
Underground.....	23,277	—	23,277	46,715	69,992
Surface.....	18,224	—	18,224	30,863	49,086
<b>Wyoming</b> .....	<b>4,397</b>	<b>9,258</b>	<b>13,654</b>	<b>323,465</b>	<b>337,119</b>
Underground.....	—	—	—	1,673	1,673
Surface.....	4,397	9,258	13,654	321,792	335,446
<b>Appalachian Total</b> <sup>1</sup> .....	<b>130,844</b>	<b>1,509</b>	<b>132,352</b>	<b>292,215</b>	<b>424,568</b>
Underground.....	108,205	839	109,044	170,053	279,097
Surface.....	22,639	670	23,309	122,162	145,471
<b>Interior Total</b> <sup>1</sup> .....	<b>70,121</b>	<b>13,103</b>	<b>83,225</b>	<b>79,275</b>	<b>162,500</b>
Underground.....	32,832	2,042	34,875	28,854	63,729
Surface.....	37,289	11,061	48,350	50,421	98,771
<b>Western Total</b> <sup>1</sup> .....	<b>60,479</b>	<b>53,141</b>	<b>113,620</b>	<b>398,696</b>	<b>512,316</b>
Underground.....	17,553	808	18,361	30,260	48,621
Surface.....	42,926	52,333	95,259	368,436	463,695
<b>East of Miss. River</b> .....	<b>175,670</b>	<b>4,796</b>	<b>180,466</b>	<b>348,116</b>	<b>528,582</b>
Underground.....	141,037	2,881	143,918	198,708	342,626
Surface.....	34,633	1,915	36,548	149,408	185,956
<b>West of Miss. River</b> .....	<b>85,774</b>	<b>62,957</b>	<b>148,731</b>	<b>422,070</b>	<b>570,801</b>
Underground.....	17,553	808	18,361	30,459	48,821
Surface.....	68,221	62,149	130,370	391,611	521,981
<b>Unknown</b> <sup>2</sup> .....	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>NA</b>	<b>1,048</b>
Underground.....	NA	NA	NA	NA	343
Surface.....	NA	NA	NA	NA	705
<b>U.S. Total</b> .....	<b>261,444</b>	<b>67,753</b>	<b>329,197</b>	<b>770,186</b>	<b>1,100,431</b>
Underground.....	158,591	3,689	162,280	229,167	391,790
Surface.....	102,853	64,064	166,918	541,019	708,642

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

<sup>2</sup> Includes mines with production of less than 10,000 short tons, which are not required to provide data.

NA Not available.

Notes: Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding. See Glossary for listing of other unions.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 12. Coal Disposition by State, 1999**  
(Thousand Short Tons)

Coal-Producing State and Region	Open Market <sup>1</sup>	Captive <sup>2</sup>	Total
Alabama .....	18,770	488	19,258
Alaska .....	1,573	—	1,573
Arizona .....	12,623	—	12,623
Arkansas .....	15	—	15
Colorado .....	28,813	1,333	30,146
Illinois .....	37,845	2,436	40,280
Indiana .....	33,969	—	33,969
Kansas .....	400	—	400
Kentucky Total .....	137,807	1,310	139,117
Eastern .....	108,234	1,310	109,544
Western .....	29,573	—	29,573
Louisiana .....	2,952	—	2,952
Maryland .....	3,503	460	3,963
Mississippi .....	15	—	15
Missouri .....	391	—	391
Montana .....	37,301	3,930	41,231
New Mexico .....	28,011	—	28,011
North Dakota .....	29,865	1,113	30,977
Ohio .....	16,285	6,828	23,113
Oklahoma .....	1,648	—	1,648
Pennsylvania Total .....	73,701	3,250	76,951
Anthracite .....	3,390	1,266	4,656
Bituminous .....	70,311	1,984	72,295
Tennessee .....	3,013	—	3,013
Texas .....	10,819	42,229	53,048
Utah .....	19,124	7,663	26,787
Virginia .....	30,271	1,402	31,673
Washington .....	—	4,074	4,074
West Virginia Total .....	149,653	8,784	158,437
Northern .....	36,072	2,220	38,291
Southern .....	113,581	6,564	120,146
Wyoming .....	319,786	16,860	336,646
<b>Appalachian Total<sup>3</sup> .....</b>	<b>403,431</b>	<b>22,523</b>	<b>425,954</b>
<b>Interior Total<sup>3</sup> .....</b>	<b>117,626</b>	<b>44,665</b>	<b>162,291</b>
<b>Western Total<sup>3</sup> .....</b>	<b>477,096</b>	<b>34,973</b>	<b>512,069</b>
<b>East of Miss. River .....</b>	<b>504,832</b>	<b>24,959</b>	<b>529,791</b>
<b>West of Miss. River .....</b>	<b>493,320</b>	<b>77,202</b>	<b>570,522</b>
<b>Total<sup>4</sup> .....</b>	<b>998,153</b>	<b>102,160</b>	<b>1,100,313</b>
<b>Unknown<sup>5</sup> .....</b>	<b>NA</b>	<b>NA</b>	<b>1,048</b>
<b>U.S. Total .....</b>	<b>NA</b>	<b>NA</b>	<b>1,101,361</b>

<sup>1</sup> Open Market includes all coal sold on the open market to other coal companies or consumers.

<sup>2</sup> Captive includes all coal used by the producing company or sold to affiliated or parent companies.

<sup>3</sup> For a definition of coal-producing regions, see Appendix C.

<sup>4</sup> Excludes mines producing less than 10,000 short tons, which are not required to provide data.

<sup>5</sup> Includes mines producing less than 10,000 short tons, which are not required to provide data.

NA Not available.

Notes: Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 13. Coal Mining Acreage, Production and Royalties from Federal and Indian Leases by State, 1999**

Coal-Producing State and Region	Federal Leases			Indian Leases		
	Acres Leased	Production (thousand short tons)	Royalties (thousand dollars)	Acres Leased	Production (thousand short tons)	Royalties (thousand dollars)
Alabama.....	1,609	684	2,343	—	—	—
Arizona .....	—	—	—	64,858	14,012	38,552
Colorado .....	48,941	23,059	36,788	—	—	—
Kentucky.....	2,250	20	39	—	—	—
Montana.....	26,461	18,948	25,865	14,746	3,783	1,890
New Mexico .....	13,837	7,043	17,349	36,163	9,281	20,190
North Dakota.....	3,512	2,223	1,041	—	—	—
Oklahoma .....	13,084	575	441	—	—	—
Utah .....	38,247	22,905	31,520	—	—	—
Washington.....	521	1,351	2,923	—	—	—
Wyoming .....	118,889	310,580	193,451	—	—	—
<b>Appalachian Total<sup>1</sup>.....</b>	<b>1,609</b>	<b>684</b>	<b>2,343</b>	—	—	—
<b>Interior Total<sup>1</sup>.....</b>	<b>15,334</b>	<b>595</b>	<b>480</b>	—	—	—
<b>Western Total<sup>1</sup>.....</b>	<b>250,408</b>	<b>386,109</b>	<b>308,938</b>	<b>115,767</b>	<b>27,077</b>	<b>60,632</b>
<b>East of Miss. River.....</b>	<b>3,859</b>	<b>704</b>	<b>2,382</b>	—	—	—
<b>West of Miss. River.....</b>	<b>263,492</b>	<b>386,684</b>	<b>309,379</b>	<b>115,767</b>	<b>27,077</b>	<b>60,632</b>
<b>U.S. Total.....</b>	<b>267,351</b>	<b>387,388</b>	<b>311,761</b>	<b>115,767</b>	<b>27,077</b>	<b>60,632</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

Notes: U.S. Total for this table represents Federal and Indian Leases only. Output from Federal and Indian Lands is reported as sales volume, the basis for royalties. It is approximately equivalent to production, which includes coal sold and coal added to stockpiles. Totals may not equal sum of components due to independent rounding.

Source: U.S. Department of the Interior, Minerals Management Service (MMS), *Mineral Revenues, 1999, Report on Receipts from Federal and Indian Leases*.

**Table 14. Major U.S. Coal Mines, 1999**

Rank	Mine Name/Company	Mine Type	State	Production (short tons)
1	Rochelle Mine Complex/Powder River Coal	Surface	Wyoming	68,865,690
2	Black Thunder/Thunder Basin Coal	Surface	Wyoming	48,670,522
3	Cordero/Cordero Mining	Surface	Wyoming	46,186,691
4	Jacobs Ranch/Jacobs Ranch Coal	Surface	Wyoming	29,069,128
5	Caballo/Caballo Coal	Surface	Wyoming	26,468,762
6	Antelope/Antelope Coal	Surface	Wyoming	22,685,237
7	Belle Ayr/RAG Coal West	Surface	Wyoming	17,893,709
8	Eagle Butte/RAG Coal West	Surface	Wyoming	17,416,240
9	Freedom-Coteau/Coteau Properties	Surface	North Dakota	16,391,229
10	Buckskin/Triton Coal	Surface	Wyoming	15,587,569
11	Coal Creek/Thunder Basin Coal	Surface	Wyoming	11,249,947
12	Spring Creek/Spring Creek Coal Co	Surface	Montana	10,995,516
13	Decker/Decker Coal	Surface	Montana	10,878,069
14	Rosebud No 6/Western Energy Co.	Surface	Montana	10,621,638
15	Enlow Fork/Consol PA Coal Co.	Underground	Pennsylvania	9,835,217
16	Navajo/BHP Minerals	Surface	New Mexico	9,374,060
17	Jewett/Northwestern Resources	Surface	Texas	9,215,933
18	Bailey No 1/Consol PA Coal Co.	Underground	Pennsylvania	8,518,670
19	Foidel Creek/Twenty Mile Coal	Underground	Colorado	8,500,157
20	North Rochelle/Triton Coal Co	Surface	Wyoming	8,170,482
21	Keyenta/Peabody Western Coal	Surface	Arizona	7,251,024
22	Falkirk/Falkirk Mining	Surface	North Dakota	7,191,836
23	McKinley/Pittsburg & Midway Coal	Surface	New Mexico	7,181,357
24	West Elk/Mountain Coal Co	Underground	Colorado	7,078,112
25	McElroy/CONSOL	Underground	West Virginia	6,995,483
26	Beckville/Texas Utilities Mining	Surface	Texas	6,579,019
27	Cumberland/RAG Cumberland Resources	Underground	Pennsylvania	6,550,743
28	Galatia/American Coal Company	Underground	Illinois	6,534,432
29	Mountaineer/Mingo Logan Coal	Underground	West Virginia	6,507,182
30	Jim Bridger/Bridger Coal	Surface	Wyoming	6,300,944
31	Oak Hill/Texas Utilities Mining	Surface	Texas	6,237,170
32	Sandow-Rockdale/ALCOA	Surface	Texas	6,225,677
33	Samples/Catenary Coal	Surface	West Virginia	5,910,188
34	Mine No 84/Eighty Four Mining	Underground	Pennsylvania	5,798,707
35	SUFCO/Canyon Fuel	Underground	Utah	5,762,878
36	Colowyo/Colowyo Coal	Surface	Colorado	5,569,385
37	Absaloka/Westmoreland Resources	Surface	Montana	5,464,776
38	Robinson Run/CONSOL	Underground	West Virginia	5,316,994
39	Upper Big Branch/Performance Coal	Underground	West Virginia	5,078,259
40	Big Brown/Texas Utilities Mining	Surface	Texas	4,970,592
41	Lee Ranch/Lee Ranch Coal	Surface	New Mexico	4,930,665
42	Buchanan/CONSOL	Underground	Virginia	4,680,235
43	Blacksville No 2/CONSOL	Underground	Pennsylvania	4,649,474
44	Federal No 2/Eastern Associated Mining	Underground	West Virginia	4,648,008
45	Center/BNI Coal	Surface	North Dakota	4,625,778
46	Black Mesa/Peabody Western	Surface	Arizona	4,536,056
47	No 13 Baker/Lodestar Energy	Underground	Kentucky	4,483,260
48	Shoemaker/CONSOL	Underground	West Virginia	4,403,915
49	Powhatan No 6/Ohio Valley Coal	Underground	Ohio	4,380,317
50	La Plata/San Juan Coal	Surface	New Mexico	4,349,952
51	Emerald No 1/Cyprus Emerald Resources	Underground	Pennsylvania	4,341,498
52	Kenmerer/Pittsburg & Midway Coal	Surface	Wyoming	4,320,195
53	No 2/Fola Coal	Surface	West Virginia	4,286,106
54	Centralia/Centralia Mining	Surface	Washington	4,097,453
55	Shoal Creek/Drummond Co	Underground	Alabama	4,080,582
*	<b>Subtotal</b>			<b>597,912,718</b>
*	<b>All Other Mines</b>			<b>502,518,710</b>
*	<b>U.S. Total</b>			<b>1,100,431,428</b>

Notes: Major mines are mines that produced more than 4 million short tons in 1999. The company is the firm operating the mine.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Production Report."

**Table 15. Major U.S. Coal Producers, 1999**

Rank	Company Name	Production (thousand short tons)	Percent of Total Production
1	Peabody Energy Corp.	165,479	15.0
2	Kennecott Energy Co.	114,506	10.4
3	Arch Coal Co	108,752	9.9
4	Consol Energy Inc.	69,889	6.4
5	RAG Coal Interantional	59,265	5.4
6	North American Coal Co	31,195	2.8
7	TXU Utilities Co	28,638	2.6
8	Massey Energy	26,938	2.4
9	Vulcan Holding	23,758	2.2
10	AEI Resources Inc	21,675	2.0
11	Pacificorp	21,072	1.9
12	Entech Inc	19,838	1.8
13	Broken Hill Proprietary Co	15,878	1.4
14	Chevron Corp	15,228	1.4
15	Alliance Coal	14,625	1.3
16	James River Coal Co	12,578	1.1
17	RENCOAL Inc	10,337	.9
18	Kiewit Coal Properties Inc	8,762	.8
19	Independence Coal Co	8,255	.8
20	Coastal Corp	8,172	.7
21	Branham & Baker Coal Co	7,359	.7
22	AEP Service Corp	7,226	.7
23	American Coal Co	6,534	.6
24	ALCOA Inc	6,226	.6
25	USX Corporation	6,028	.5
26	Westmoreland Resources	5,465	.5
27	Drummond Resources	5,325	.5
28	TECO Energy Inc	5,154	.5
*	<b>Subtotal</b>	<b>832,005</b>	<b>75.6</b>
*	<b>All other coal producers</b>	<b>268,427</b>	<b>24.4</b>
*	<b>U.S. Total</b>	<b>1,100,431</b>	<b>100.0</b>

Notes: Major coal producers are companies that produced more than 5 million short tons in 1999. The company is the firm owning the mineral rights to the mined coal.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report", and Financial Reporting System; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Production Report."

# Productive Capacity

**Table 16. Productive Capacity of Coal Mines by State, 1990, 1995-1999**

(Thousand Short Tons)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	22,290	27,891	29,081	32,159	32,546	NA	-20.1	-9.0	NA
Alaska.....	w	w	w	w	w	NA	w	w	NA
Arizona.....	w	w	w	w	w	NA	w	w	NA
Arkansas.....	w	w	w	-	w	NA	w	w	NA
California.....	-	-	-	-	-	NA	-	-	NA
Colorado.....	41,098	36,658	35,466	29,330	32,435	NA	12.1	6.1	NA
Illinois.....	48,783	47,625	51,523	61,727	56,627	NA	2.4	-3.6	NA
Indiana.....	41,355	42,190	36,999	35,564	35,256	NA	-2.0	4.1	NA
Iowa.....	-	-	-	-	-	NA	-	-	NA
Kansas.....	w	w	w	w	w	NA	w	w	NA
Kentucky Total.....	182,633	<sup>R</sup> 187,582	195,453	189,225	203,173	NA	-2.6	-2.6	NA
Eastern.....	142,362	<sup>R</sup> 146,150	152,681	145,691	152,111	NA	-2.6	-1.6	NA
Western.....	40,271	41,433	42,771	43,534	51,062	NA	-2.8	-5.8	NA
Louisiana.....	w	w	w	w	w	NA	w	w	NA
Maryland.....	4,224	4,250	4,884	4,935	4,408	NA	-6	-1.0	NA
Mississippi.....	w	-	-	-	-	-	-	-	-
Missouri.....	w	<sup>R</sup> 890	690	1,046	1,081	NA	w	w	NA
Montana.....	54,882	55,882	56,140	56,175	51,597	NA	-1.8	1.5	NA
New Mexico.....	32,797	32,790	31,604	32,695	32,760	NA	*	*	NA
North Dakota.....	32,610	32,484	32,568	32,184	34,464	NA	.4	-1.4	NA
Ohio.....	30,617	33,691	33,443	37,584	34,011	NA	-9.1	-2.6	NA
Oklahoma.....	2,580	1,981	2,451	1,981	2,557	NA	30.3	.2	NA
Pennsylvania Total.....	93,770	94,581	87,527	81,684	77,187	NA	-8	5.0	NA
Anthracite.....	6,622	6,827	5,504	5,504	6,547	NA	-3.0	.3	NA
Bituminous.....	87,148	87,754	82,024	76,180	70,640	NA	-7	5.4	NA
Tennessee.....	3,727	4,144	4,100	4,009	3,750	NA	-10.1	-1	NA
Texas.....	54,705	54,475	54,614	59,604	54,758	NA	.4	*	NA
Utah.....	32,158	33,838	30,281	30,230	30,888	NA	-5.0	1.0	NA
Virginia.....	39,729	<sup>R</sup> 39,064	43,023	41,593	43,037	NA	1.7	-2.0	NA
Washington.....	w	w	w	w	w	NA	w	w	NA
West Virginia Total.....	195,128	<sup>R</sup> 203,816	203,006	217,409	204,837	NA	-4.3	-1.2	NA
Northern.....	47,463	48,756	50,744	54,602	56,355	NA	-2.6	-4.2	NA
Southern.....	147,664	<sup>R</sup> 155,059	152,262	162,807	148,482	NA	-4.8	-1	NA
Wyoming.....	407,977	379,380	366,680	350,908	337,184	NA	7.5	4.9	NA
<b>Appalachian Total<sup>2</sup>.....</b>	<b>531,846</b>	<sup>R</sup> <b>553,585</b>	<b>557,745</b>	<b>565,064</b>	<b>551,888</b>	<b>NA</b>	<b>-3.9</b>	<b>-.9</b>	<b>NA</b>
<b>Interior Total<sup>2</sup>.....</b>	<b>192,566</b>	<sup>R</sup> <b>192,823</b>	<b>193,720</b>	<b>207,658</b>	<b>205,393</b>	<b>NA</b>	<b>-.1</b>	<b>-1.6</b>	<b>NA</b>
<b>Western Total<sup>2</sup>.....</b>	<b>621,220</b>	<b>591,271</b>	<b>574,139</b>	<b>551,990</b>	<b>541,773</b>	<b>NA</b>	<b>5.1</b>	<b>3.5</b>	<b>NA</b>
<b>East of Miss. River.....</b>	<b>662,275</b>	<sup>R</sup> <b>684,834</b>	<b>689,038</b>	<b>705,890</b>	<b>694,832</b>	<b>NA</b>	<b>-3.3</b>	<b>-1.2</b>	<b>NA</b>
<b>West of Miss. River.....</b>	<b>683,356</b>	<sup>R</sup> <b>652,845</b>	<b>636,566</b>	<b>618,823</b>	<b>604,222</b>	<b>NA</b>	<b>4.7</b>	<b>3.1</b>	<b>NA</b>
<b>U.S. Total.....</b>	<b>1,345,632</b>	<sup>R</sup> <b>1,337,679</b>	<b>1,325,604</b>	<b>1,324,712</b>	<b>1,299,054</b>	<b>NA</b>	<b>.6</b>	<b>.9</b>	<b>NA</b>

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Productive capacity is the maximum amount of coal that can be produced annually as reported by mining companies on Form EIA-7A. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, Form EIA-7A, "Coal Production Report."



**Table 17. Capacity Utilization of Coal Mines by State, 1990, 1995-1999**  
(Percent)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990 <sup>1</sup>
Alabama.....	87.42	82.45	84.05	76.57	75.52	NA
Alaska.....	w	w	w	w	w	NA
Arizona.....	w	w	w	w	w	NA
Arkansas.....	w	w	w	-	w	NA
California.....	-	-	-	-	-	NA
Colorado.....	72.97	80.83	77.39	84.85	79.27	NA
Illinois.....	82.85	83.43	79.87	75.58	85.08	NA
Indiana.....	82.22	87.19	95.94	83.42	73.70	NA
Iowa.....	-	-	-	w	w	NA
Kansas.....	w	w	w	w	w	NA
Kentucky Total.....	76.32	R 79.98	79.62	80.38	75.49	NA
Eastern.....	77.14	R 79.64	79.05	80.07	77.71	NA
Western.....	73.44	81.17	81.63	81.40	68.89	NA
Louisiana.....	w	w	w	w	w	NA
Maryland.....	90.15	94.88	84.80	82.42	82.65	NA
Mississippi.....	w	-	-	-	-	-
Missouri.....	w	R 41.79	57.36	67.85	49.88	NA
Montana.....	74.89	76.66	73.03	67.45	76.44	NA
New Mexico.....	88.90	87.21	85.51	73.61	81.85	NA
North Dakota.....	95.48	92.08	90.82	92.78	87.37	NA
Ohio.....	73.10	83.13	87.07	75.88	76.55	NA
Oklahoma.....	63.75	83.36	65.87	85.16	73.14	NA
Pennsylvania Total.....	81.06	85.28	86.46	82.53	78.81	NA
Anthracite.....	69.14	73.57	80.95	82.56	67.12	NA
Bituminous.....	81.96	86.19	86.83	82.53	79.89	NA
Tennessee.....	81.01	64.52	80.26	90.32	85.51	NA
Texas.....	97.02	96.53	97.64	92.55	96.21	NA
Utah.....	81.98	77.06	88.09	90.97	81.48	NA
Virginia.....	81.09	R 86.13	83.09	85.34	79.07	NA
Washington.....	w	w	w	w	w	NA
West Virginia Total.....	80.89	R 83.91	85.50	78.32	79.50	NA
Northern.....	81.65	R 91.39	84.23	83.95	81.70	NA
Southern.....	80.64	R 81.56	85.92	76.43	78.67	NA
Wyoming.....	82.63	82.87	76.87	79.35	78.24	NA
<b>Appalachian Total<sup>2</sup>.....</b>	<b>79.83</b>	R <b>82.99</b>	<b>83.67</b>	<b>79.75</b>	<b>78.53</b>	<b>NA</b>
<b>Interior Total<sup>2</sup>.....</b>	<b>84.39</b>	<b>87.30</b>	<b>88.18</b>	<b>83.20</b>	<b>82.01</b>	<b>NA</b>
<b>Western Total<sup>2</sup>.....</b>	<b>82.47</b>	<b>82.66</b>	<b>78.60</b>	<b>79.55</b>	<b>79.29</b>	<b>NA</b>
<b>East of Miss. River.....</b>	<b>79.81</b>	R <b>83.17</b>	<b>83.92</b>	<b>79.68</b>	<b>78.11</b>	<b>NA</b>
<b>West of Miss. River.....</b>	<b>83.53</b>	<b>83.78</b>	<b>80.20</b>	<b>80.82</b>	<b>80.88</b>	<b>NA</b>
<b>U.S. Total.....</b>	<b>81.70</b>	R <b>83.47</b>	<b>82.13</b>	<b>80.21</b>	<b>79.40</b>	<b>NA</b>

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> For a definition of coal-producing regions, see Appendix C.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Capacity utilization is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Source: Energy Information Administration, Form EIA-7A, "Coal Production Report."

**Table 18. Production, Productive Capacity, and Capacity Utilization of Coal Mines by State and Mine Type, 1999**  
(Thousand Short Tons)

Coal-Producing State and Region	Underground			Surface			Total		
	Production	Productive Capacity	Capacity Utilization (percent)	Production	Productive Capacity	Capacity Utilization (percent)	Production	Productive Capacity	Capacity Utilization (percent)
Alabama.....	14,799	16,116	91.83	4,687	6,174	75.92	19,486	22,290	87.42
Alaska.....	-	-	-	1,565	w	w	1,565	w	w
Arizona.....	-	-	-	11,787	w	w	11,787	w	w
Arkansas.....	-	-	-	15	w	w	15	w	w
Colorado.....	20,478	31,029	66.00	9,511	10,069	94.46	29,989	41,098	72.97
Illinois.....	36,758	44,402	82.78	3,659	4,381	83.51	40,417	48,783	82.85
Indiana.....	3,553	w	w	30,451	w	w	34,004	41,355	82.22
Kansas.....	-	-	-	409	w	w	409	w	w
Kentucky Total.....	86,075	109,978	78.27	53,318	72,656	73.38	139,393	182,633	76.32
Eastern.....	62,857	80,882	77.71	46,960	61,480	76.38	109,817	142,362	77.14
Western.....	23,218	29,096	79.80	6,357	11,175	56.89	29,575	40,271	73.44
Louisiana.....	-	-	-	2,953	w	w	2,953	w	w
Maryland.....	3,280	w	w	528	w	w	3,808	4,224	90.15
Mississippi.....	-	-	-	18	w	w	18	w	w
Missouri.....	-	-	-	392	w	w	392	w	w
Montana.....	-	-	-	41,102	54,882	74.89	41,102	54,882	74.89
New Mexico.....	106	w	w	29,051	w	w	29,156	32,797	88.90
North Dakota.....	-	-	-	31,135	32,610	95.48	31,135	32,610	95.48
Ohio.....	11,431	15,263	74.90	10,950	15,353	71.32	22,382	30,617	73.10
Oklahoma.....	200	w	w	1,445	w	w	1,645	2,580	63.75
Pennsylvania Total.....	59,100	69,677	84.82	16,907	24,093	70.17	76,007	93,770	81.06
Anthracite.....	296	328	90.23	4,283	6,295	68.05	4,579	6,622	69.14
Bituminous.....	58,804	69,349	84.79	12,624	17,799	70.92	71,428	87,148	81.96
Tennessee.....	1,478	1,921	76.92	1,541	1,805	85.35	3,019	3,727	81.01
Texas.....	-	-	-	53,072	54,705	97.02	53,072	54,705	97.02
Utah.....	26,364	32,158	81.98	-	-	-	26,364	32,158	81.98
Virginia.....	22,508	27,473	81.93	9,708	12,256	79.22	32,216	39,729	81.09
Washington.....	-	-	-	4,097	w	w	4,097	w	w
West Virginia Total.....	103,644	127,278	81.43	54,188	67,850	79.87	157,833	195,128	80.89
Northern.....	33,653	41,482	81.13	5,102	5,981	85.31	38,755	47,463	81.65
Southern.....	69,992	85,796	81.58	49,086	61,869	79.34	119,078	147,664	80.64
Wyoming.....	1,673	w	w	335,446	w	w	337,119	407,977	82.63
<b>Appalachian Total<sup>1</sup>.....</b>	<b>279,097</b>	<b>341,917</b>	<b>81.63</b>	<b>145,471</b>	<b>189,928</b>	<b>76.59</b>	<b>424,568</b>	<b>531,846</b>	<b>79.83</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>63,729</b>	<b>77,774</b>	<b>81.94</b>	<b>98,771</b>	<b>114,792</b>	<b>86.04</b>	<b>162,500</b>	<b>192,566</b>	<b>84.39</b>
<b>Western Total<sup>1</sup>.....</b>	<b>48,621</b>	<b>66,973</b>	<b>72.60</b>	<b>463,695</b>	<b>554,247</b>	<b>83.66</b>	<b>512,316</b>	<b>621,220</b>	<b>82.47</b>
<b>East of Miss. River.....</b>	<b>342,626</b>	<b>419,332</b>	<b>81.71</b>	<b>185,956</b>	<b>242,944</b>	<b>76.54</b>	<b>528,582</b>	<b>662,275</b>	<b>79.81</b>
<b>West of Miss. River.....</b>	<b>48,821</b>	<b>67,333</b>	<b>72.51</b>	<b>521,981</b>	<b>616,023</b>	<b>84.73</b>	<b>570,801</b>	<b>683,356</b>	<b>83.53</b>
<b>Unknown<sup>2</sup>.....</b>	<b>343</b>	<b>NA</b>	<b>NA</b>	<b>705</b>	<b>NA</b>	<b>NA</b>	<b>1,048</b>	<b>NA</b>	<b>NA</b>
<b>U.S. Total.....</b>	<b>391,790</b>	<b>486,665</b>	<b>80.43</b>	<b>708,642</b>	<b>858,967</b>	<b>82.42</b>	<b>1,100,431</b>	<b>1,345,632</b>	<b>81.70</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

<sup>2</sup> Includes mines with production of less than 10,000 short tons, which are not required to provide data.

w Withheld to avoid disclosure of individual company data.

NA Not available.

Notes: Productive capacity is the maximum amount of coal that can be produced annually as reported by mining companies on Form EIA-7A. Capacity utilization is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 19. Productive Capacity and Capacity Utilization of Underground Coal Mines  
by State and Mining Method, 1999**  
(Thousand Short Tons)

Coal-Producing State and Region	Continuous <sup>1</sup>		Conventional <sup>1</sup>		Longwall <sup>1</sup>		Other <sup>1 4</sup>	
	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)
Alabama.....	2,899	93.96	—	—	13,217	91.36	—	—
Colorado .....	10,246	46.91	—	—	20,694	75.32	—	—
Illinois.....	31,215	80.59	—	—	13,187	87.99	—	—
Indiana.....	w	w	—	—	—	—	—	—
Kentucky Total.....	97,868	76.44	3,448	85.33	8,597	96.02	65	99.38
Eastern .....	75,966	76.94	3,448	85.33	1,403	100.00	65	99.38
Western.....	21,902	74.72	—	—	7,194	95.25	—	—
Maryland.....	w	w	—	—	w	w	—	—
New Mexico.....	w	w	—	—	—	—	—	—
Ohio.....	4,616	78.85	—	—	10,647	73.18	—	—
Oklahoma.....	w	w	—	—	—	—	—	—
Pennsylvania Total.....	22,908	74.20	160	83.46	46,583	90.04	26	100.00
Anthracite .....	142	96.12	160	83.46	—	—	26	100.00
Bituminous .....	22,766	74.06	—	—	46,583	90.04	—	—
Tennessee .....	1,921	76.92	—	—	—	—	—	—
Utah.....	7,163	77.67	3,440	42.89	21,620	89.65	—	—
Virginia.....	19,999	84.10	50	60.40	7,424	76.21	—	—
West Virginia Total.....	78,638	82.74	120	57.10	48,520	79.37	—	—
Northern.....	13,232	83.71	—	—	28,251	79.92	—	—
Southern.....	65,406	82.54	120	57.10	20,269	78.62	—	—
Wyoming.....	w	w	—	—	3,238	45.46	—	—
<b>Appalachian Total<sup>3</sup>.....</b>	<b>207,819</b>	<b>79.88</b>	<b>3,778</b>	<b>84.02</b>	<b>130,230</b>	<b>84.33</b>	<b>91</b>	<b>99.56</b>
<b>Interior Total<sup>3</sup>.....</b>	<b>57,353</b>	<b>78.81</b>	<b>—</b>	<b>—</b>	<b>20,355</b>	<b>90.52</b>	<b>—</b>	<b>—</b>
<b>Western Total<sup>3</sup>.....</b>	<b>17,956</b>	<b>59.46</b>	<b>3,440</b>	<b>42.89</b>	<b>45,552</b>	<b>80.00</b>	<b>90</b>	<b>94.45</b>
<b>East of Miss. River.....</b>	<b>264,812</b>	<b>79.64</b>	<b>3,778</b>	<b>84.02</b>	<b>150,586</b>	<b>85.15</b>	<b>91</b>	<b>99.56</b>
<b>West of Miss. River.....</b>	<b>18,316</b>	<b>59.38</b>	<b>3,440</b>	<b>42.89</b>	<b>45,552</b>	<b>80.00</b>	<b>90</b>	<b>94.45</b>
<b>U.S. Total.....</b>	<b>283,128</b>	<b>78.35</b>	<b>7,218</b>	<b>64.42</b>	<b>196,138</b>	<b>83.95</b>	<b>181</b>	<b>97.01</b>

<sup>1</sup> Calculated by multiplying reported mining method percentages by the individual mine capacity.

<sup>2</sup> Includes scoop loading and hand loading.

<sup>3</sup> For a definition of coal-producing regions, see Appendix C.

<sup>4</sup> Includes shortwall, scoop loading, hand loading and unknown.

<sup>w</sup> Withheld to avoid disclosure of individual company data.

Notes: Productive capacity is the maximum amount of coal that can be produced annually as reported by mining companies on Form EIA-7A. Capacity utilization is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 20. Productive Capacity and Capacity Utilization of Coal Mines by State and Coal Rank, 1999**  
(Thousand Short Tons)

Coal-Producing State and Region	Bituminous		Subbituminous		Lignite		Anthracite	
	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)
Alabama.....	22,290	87.42	-	-	-	-	-	-
Alaska.....	w	-	w	w	-	-	-	-
Arizona.....	w	w	-	-	-	-	-	-
Arkansas.....	-	-	-	-	-	-	w	w
Colorado.....	33,229	66.81	7,869	98.97	-	-	-	-
Illinois.....	48,783	82.85	-	-	-	-	-	-
Indiana.....	41,355	82.22	-	-	-	-	-	-
Kansas.....	w	w	-	-	-	-	-	-
Kentucky Total.....	182,633	76.32	-	-	-	-	-	-
Eastern.....	142,362	77.14	-	-	-	-	-	-
Western.....	40,271	73.44	-	-	-	-	-	-
Louisiana.....	-	-	-	-	w	w	-	-
Maryland.....	4,224	90.15	-	-	-	-	-	-
Mississippi.....	-	-	-	-	w	w	-	-
Missouri.....	w	w	-	-	-	-	-	-
Montana.....	-	-	w	w	w	w	-	-
New Mexico.....	w	w	w	w	-	-	-	-
North Dakota.....	-	-	-	-	32,610	95.48	-	-
Ohio.....	30,617	73.10	-	-	-	-	-	-
Oklahoma.....	2,580	63.75	-	-	-	-	-	-
Pennsylvania Total.....	87,148	81.96	-	-	-	-	6,622	69.14
Anthracite.....	-	-	-	-	-	-	6,622	69.14
Bituminous.....	87,148	81.96	-	-	-	-	-	-
Tennessee.....	3,727	81.01	-	-	-	-	-	-
Texas.....	w	w	-	-	w	w	-	-
Utah.....	32,158	81.98	-	-	-	-	-	-
Virginia.....	39,729	81.09	-	-	-	-	-	-
Washington.....	-	-	w	w	-	-	-	-
West Virginia Total.....	195,128	80.89	-	-	-	-	-	-
Northern.....	47,463	81.65	-	-	-	-	-	-
Southern.....	147,664	80.64	-	-	-	-	-	-
Wyoming.....	w	w	w	w	-	-	-	-
<b>Appalachian Total<sup>1</sup>.....</b>	<b>525,224</b>	<b>79.96</b>	-	-	-	-	<b>6,622</b>	<b>69.14</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>w</b>	<b>w</b>	-	-	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
<b>Western Total<sup>1</sup>.....</b>	<b>w</b>	<b>w</b>	<b>483,212</b>	<b>83.57</b>	<b>w</b>	<b>w</b>	-	-
<b>East of Miss. River.....</b>	<b>655,633</b>	<b>79.92</b>	-	-	<b>20</b>	<b>92.13</b>	<b>6,622</b>	<b>69.14</b>
<b>West of Miss. River.....</b>	<b>108,857</b>	<b>74.05</b>	<b>483,212</b>	<b>83.57</b>	<b>91,288</b>	<b>95.52</b>	<b>w</b>	<b>w</b>
<b>U.S. Total.....</b>	<b>764,490</b>	<b>79.08</b>	<b>483,212</b>	<b>83.57</b>	<b>91,308</b>	<b>95.52</b>	<b>2 6,622</b>	<b>2 69.14</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

<sup>2</sup> Does not include Arkansas.

<sup>w</sup> Withheld to avoid disclosure of individual company data.

Notes: Refer to the *Classification of Coals by Rank* table in Appendix C for coal rank definitions. Productive capacity is the maximum amount of coal that can be produced annually as reported by mining companies on Form EIA-7A. Capacity utilization is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 21. Productive Capacity and Capacity Utilization of Coal Mines by State and Mine Production Range, 1999**  
(Thousand Short Tons, Percent)

Coal-Producing State and Region	Productive Capacity					Capacity Utilization (percent)				
	Mine Production Range (thousand short tons)									
	1,000 and over	500 to 1,000	200 to 500	100 to 200	10 to 100	1,000 and over	500 to 1,000	200 to 500	100 to 200	10 to 100
Alabama.....	16,852	-	2,080	1,186	2,172	92.33	-	95.84	61.47	55.44
Alaska.....	w	-	-	-	-	w	-	-	-	-
Arizona.....	w	-	-	-	-	w	-	-	-	-
Arkansas.....	-	-	-	-	w	-	-	-	-	w
Colorado.....	38,898	-	2,200	-	-	74.19	-	51.45	-	-
Illinois.....	44,018	3,750	-	w	w	84.99	69.62	-	w	w
Indiana.....	27,887	10,235	w	-	w	89.90	75.52	w	-	w
Kansas.....	-	-	w	w	-	-	-	w	w	-
Kentucky Total.....	62,803	41,260	41,938	20,361	16,271	91.10	82.75	69.06	60.45	41.57
Eastern.....	39,432	w	35,231	w	13,561	89.91	w	73.51	w	45.60
Western.....	23,371	w	6,706	w	2,710	93.10	w	45.71	w	21.38
Louisiana.....	w	w	-	-	-	w	w	-	-	-
Maryland.....	w	-	w	w	467	w	-	w	w	50.45
Mississippi.....	-	-	-	-	w	-	-	-	-	w
Missouri.....	-	-	w	-	w	-	-	w	-	w
Montana.....	w	-	w	-	-	w	-	w	-	-
New Mexico.....	w	-	-	w	-	w	-	-	w	-
North Dakota.....	-	-	-	-	-	95.48	-	-	-	-
Ohio.....	13,091	6,057	7,687	2,070	1,711	85.54	80.92	51.50	71.08	49.84
Oklahoma.....	-	w	w	1,714	-	-	w	w	47.20	-
Pennsylvania Total.....	54,751	8,822	14,058	6,990	9,149	89.55	71.22	73.66	69.78	59.69
Anthracite.....	-	w	2,055	w	2,442	-	-	83.95	w	59.22
Bituminous.....	54,751	w	12,003	w	6,707	89.55	w	71.90	w	59.86
Tennessee.....	-	-	2,134	1,032	560	-	-	91.31	66.50	68.48
Texas.....	w	-	w	-	-	w	-	w	-	-
Utah.....	25,749	w	w	-	w	91.69	w	w	-	w
Virginia.....	w	8,762	13,721	w	4,271	w	97.41	81.34	w	75.96
Washington.....	w	-	-	-	-	w	-	-	-	-
West Virginia Total.....	125,008	27,660	25,004	9,127	8,328	82.41	88.44	76.65	77.05	49.92
Northern.....	35,514	4,726	2,770	2,155	2,298	82.70	84.76	78.17	81.76	63.11
Southern.....	89,494	22,934	22,234	6,972	6,030	82.29	89.20	76.46	75.60	44.89
Wyoming.....	389,887	w	w	-	w	85.97	w	w	-	w
<b>Appalachian Total<sup>1</sup>.....</b>	<b>259,897</b>	<b>86,249</b>	<b>100,391</b>	<b>45,089</b>	<b>40,220</b>	<b>85.85</b>	<b>86.32</b>	<b>74.64</b>	<b>67.31</b>	<b>54.01</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>151,906</b>	<b>22,012</b>	<b>9,444</b>	<b>w</b>	<b>w</b>	<b>91.55</b>	<b>70.64</b>	<b>54.57</b>	<b>w</b>	<b>w</b>
<b>Western Total<sup>1</sup>.....</b>	<b>593,967</b>	<b>20,534</b>	<b>5,898</b>	<b>w</b>	<b>w</b>	<b>85.21</b>	<b>16.07</b>	<b>44.45</b>	<b>w</b>	<b>w</b>
<b>East of Miss. River.....</b>	<b>355,174</b>	<b>106,547</b>	<b>108,049</b>	<b>46,763</b>	<b>45,743</b>	<b>86.54</b>	<b>83.22</b>	<b>72.98</b>	<b>66.17</b>	<b>49.76</b>
<b>West of Miss. River.....</b>	<b>650,597</b>	<b>22,248</b>	<b>7,684</b>	<b>2,025</b>	<b>803</b>	<b>86.22</b>	<b>20.82</b>	<b>50.15</b>	<b>55.04</b>	<b>33.10</b>
<b>U.S. Total.....</b>	<b>1,005,770</b>	<b>128,795</b>	<b>115,733</b>	<b>48,788</b>	<b>46,546</b>	<b>86.33</b>	<b>72.44</b>	<b>71.46</b>	<b>65.71</b>	<b>49.47</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

w Withheld to avoid disclosure of individual company data.

Notes: Productive capacity is the maximum amount of coal that can be produced annually as reported by mining companies on Form EIA-7A. Capacity utilization is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 22. Productive Capacity and Productivity of Coal Mines by State and Capacity Utilization Range, 1999**  
(Thousand Short Tons, Short Tons per Employee per Hour)

Coal-Producing State and Region	Productive Capacity						Productivity					
	Capacity Utilization Range (percent)											Total
	90 and over	80 to 90	70 to 80	60 to 70	Less than 60	Total	90 and over	80 to 90	70 to 80	60 to 70	Less than 60	
Alabama.....	16,387	w	w	3,640	1,563	22,290	2.29	4.51	3.34	2.37	0.89	2.25
Alaska.....	-	-	-	-	w	w	-	-	-	-	5.56	5.56
Arizona.....	w	-	-	-	-	w	6.88	-	-	-	-	6.61
Arkansas.....	w	-	-	-	-	w	1.89	-	-	-	-	1.89
Colorado.....	23,947	w	w	w	14,151	41,098	9.69	5.70	7.29	2.63	4.71	7.93
Illinois.....	20,808	12,650	6,500	6,475	2,351	48,783	4.74	4.70	3.75	3.99	1.14	4.19
Indiana.....	18,344	10,220	6,800	1,450	4,541	41,355	5.50	5.47	5.98	5.98	3.39	5.42
Kansas.....	w	-	-	-	-	w	8.58	-	-	-	-	8.58
Kentucky Total.....	90,618	26,661	10,234	12,528	42,591	182,633	4.52	4.92	3.65	4.28	1.61	3.89
Eastern.....	71,957	17,318	10,234	10,849	32,004	142,362	4.37	4.83	3.65	4.26	1.52	3.74
Western.....	18,662	9,343	-	1,679	10,587	40,271	5.24	5.11	-	4.38	2.08	4.57
Louisiana.....	-	w	-	w	-	w	-	8.35	-	8.97	-	8.49
Maryland.....	3,473	w	-	w	w	4,224	5.49	1.71	-	2.48	.98	4.20
Mississippi.....	w	-	-	-	-	w	.19	-	-	-	-	.19
Missouri.....	w	-	-	w	-	w	1.62	-	-	3.53	-	2.89
Montana.....	w	-	26,300	w	-	54,882	39.45	-	21.66	17.19	-	22.84
New Mexico.....	21,137	w	-	-	w	32,797	9.99	7.17	-	-	3.67	8.30
North Dakota.....	w	-	w	-	-	32,610	18.73	-	9.98	-	-	17.26
Ohio.....	13,539	2,421	1,564	2,020	11,072	30,617	3.39	4.14	3.02	5.25	2.29	3.19
Oklahoma.....	w	w	w	w	1,320	2,580	5.34	4.49	3.72	2.34	1.96	3.15
Pennsylvania Total.....	44,466	20,787	2,943	10,850	14,725	93,770	5.00	5.05	2.32	3.46	1.19	3.81
Anthracite.....	3,418	172	376	100	2,556	6,622	4.55	1.46	21.99	1.46	.45	1.76
Bituminous.....	41,048	20,615	2,567	10,750	12,169	87,148	5.05	5.15	2.07	3.51	1.61	4.12
Tennessee.....	1,127	1,150	415	625	410	3,727	3.90	2.89	2.56	3.55	.86	2.75
Texas.....	47,680	w	w	-	w	54,705	10.24	11.02	6.92	-	5.48	10.08
Utah.....	14,783	w	w	-	w	32,158	8.77	8.65	6.74	-	1.13	6.84
Virginia.....	24,604	1,938	2,961	633	9,593	39,729	3.69	3.93	3.41	2.48	1.37	3.09
Washington.....	w	-	-	-	-	w	3.95	-	-	-	-	3.95
West Virginia Total.....	102,888	17,397	23,232	24,735	26,875	195,128	5.66	6.69	4.92	5.24	1.44	4.77
Northern.....	33,559	760	4,097	1,506	7,541	47,463	5.58	3.77	3.01	4.96	1.56	4.63
Southern.....	69,330	16,637	19,135	23,229	19,334	147,664	5.69	6.94	5.69	5.26	1.42	4.81
Wyoming.....	222,157	36,140	99,000	-	50,680	407,977	43.66	24.65	35.28	-	21.76	37.29
<b>Appalachian Total<sup>1</sup>.....</b>	<b>278,439</b>	<b>61,456</b>	<b>41,700</b>	<b>53,492</b>	<b>96,758</b>	<b>531,846</b>	<b>4.46</b>	<b>5.15</b>	<b>4.00</b>	<b>4.18</b>	<b>1.45</b>	<b>3.84</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>106,629</b>	<b>39,215</b>	<b>16,075</b>	<b>11,348</b>	<b>19,299</b>	<b>192,566</b>	<b>6.60</b>	<b>5.50</b>	<b>4.86</b>	<b>4.41</b>	<b>2.04</b>	<b>5.64</b>
<b>Western Total<sup>1</sup>.....</b>	<b>339,348</b>	<b>52,040</b>	<b>136,084</b>	<b>17,382</b>	<b>76,366</b>	<b>621,220</b>	<b>21.10</b>	<b>14.93</b>	<b>25.10</b>	<b>13.89</b>	<b>7.37</b>	<b>19.05</b>
<b>East of Miss. River.....</b>	<b>336,273</b>	<b>93,669</b>	<b>55,000</b>	<b>63,096</b>	<b>114,237</b>	<b>662,275</b>	<b>4.56</b>	<b>5.11</b>	<b>4.14</b>	<b>4.19</b>	<b>1.51</b>	<b>3.97</b>
<b>West of Miss. River.....</b>	<b>388,143</b>	<b>59,042</b>	<b>138,859</b>	<b>19,126</b>	<b>78,186</b>	<b>683,356</b>	<b>18.48</b>	<b>13.96</b>	<b>23.71</b>	<b>12.13</b>	<b>6.97</b>	<b>17.18</b>
<b>U.S. Total.....</b>	<b>724,416</b>	<b>152,711</b>	<b>193,859</b>	<b>82,223</b>	<b>192,423</b>	<b>1,345,632</b>	<b>7.66</b>	<b>6.79</b>	<b>10.00</b>	<b>4.94</b>	<b>2.19</b>	<b>6.61</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

w Withheld to avoid disclosure of individual company data.

Notes: Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations, including office workers. Productive capacity is the maximum amount of coal that can be produced annually as reported by mining companies on Form EIA-7A. Capacity utilization is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons and preparation plants with less than 5,000 employee hours, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 23. Productive Capacity and Capacity Utilization of Coal Mines by State and Recoverable Reserves Range, 1999**  
(Thousand Short Tons)

Coal-Producing State and Region	Recoverable Reserves Range (million short tons)							
	50 and over		10 to 50		0 to 10		Total	
	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)
Alabama.....	8,542	99.54	7,516	83.01	6,231	76.14	22,290	87.42
Alaska.....	w	w	-	-	-	-	w	w
Arizona.....	w	w	-	-	-	-	w	w
Arkansas.....	-	-	-	-	w	w	w	w
Colorado.....	26,647	85.81	8,300	46.27	6,151	53.38	41,098	72.97
Illinois.....	18,750	85.12	20,702	79.09	9,331	86.62	48,783	82.85
Indiana.....	-	-	24,660	87.93	16,696	73.80	41,355	82.22
Kansas.....	-	-	-	-	w	w	w	w
Kentucky Total.....	10,539	96.13	29,873	83.36	142,221	73.38	182,633	76.32
Eastern.....	-	-	20,918	83.77	121,444	76.00	142,362	77.14
Western.....	10,539	96.13	8,955	82.41	20,777	58.07	40,271	73.44
Louisiana.....	w	w	w	w	-	-	w	w
Maryland.....	w	w	w	w	w	w	4,224	90.15
Mississippi.....	w	w	-	-	-	-	w	w
Missouri.....	-	-	-	-	w	w	w	w
Montana.....	w	w	w	w	-	-	54,882	74.89
New Mexico.....	27,031	95.58	w	w	w	w	32,797	88.90
North Dakota.....	32,610	95.48	-	-	-	-	32,610	95.48
Ohio.....	8,495	89.06	6,246	77.83	15,876	62.71	30,617	73.10
Oklahoma.....	-	-	w	w	w	w	w	w
Pennsylvania Total.....	27,649	87.02	25,202	91.21	40,919	70.77	93,770	81.06
Anthracite.....	-	-	w	w	w	w	6,622	69.14
Bituminous.....	27,649	87.02	w	w	w	w	87,148	81.96
Tennessee.....	-	-	-	-	3,727	81.01	3,727	81.01
Texas.....	38,058	96.61	w	w	w	w	54,705	97.02
Utah.....	w	w	w	w	8,958	88.02	32,158	81.98
Virginia.....	-	-	9,359	72.82	30,370	83.64	39,729	81.09
Washington.....	-	-	w	w	-	-	w	w
West Virginia Total.....	32,567	83.68	50,388	80.98	112,173	80.03	195,128	80.89
Northern.....	w	w	w	w	12,925	82.68	47,463	81.65
Southern.....	w	w	w	w	99,248	79.69	147,664	80.64
Wyoming.....	394,207	84.06	-	-	13,770	41.83	407,977	82.63
<b>Appalachian Total<sup>1</sup>.....</b>	<b>80,086</b>	<b>87.67</b>	<b>120,104</b>	<b>82.99</b>	<b>331,656</b>	<b>76.79</b>	<b>531,846</b>	<b>79.83</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>70,116</b>	<b>92.86</b>	<b>72,213</b>	<b>86.95</b>	<b>50,237</b>	<b>68.87</b>	<b>192,566</b>	<b>84.39</b>
<b>Western Total<sup>1</sup>.....</b>	<b>561,029</b>	<b>84.23</b>	<b>31,206</b>	<b>72.85</b>	<b>28,985</b>	<b>58.77</b>	<b>621,220</b>	<b>82.47</b>
<b>East of Miss. River.....</b>	<b>109,394</b>	<b>88.05</b>	<b>174,421</b>	<b>83.20</b>	<b>378,460</b>	<b>75.87</b>	<b>662,275</b>	<b>79.81</b>
<b>West of Miss. River.....</b>	<b>601,837</b>	<b>85.00</b>	<b>49,102</b>	<b>81.64</b>	<b>32,417</b>	<b>59.11</b>	<b>683,356</b>	<b>83.53</b>
<b>U.S. Total.....</b>	<b>711,231</b>	<b>85.47</b>	<b>223,523</b>	<b>82.86</b>	<b>410,878</b>	<b>74.55</b>	<b>1,345,632</b>	<b>81.70</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

<sup>w</sup> Withheld to avoid disclosure of individual company data.

Notes: Recoverable reserves represent the quantity of coal that can be recovered (i.e., mined) from existing coal reserves at reporting mines. Productive capacity is the maximum amount of coal that can be produced annually as reported by mining companies on Form EIA-7A. Capacity utilization is the ratio of total production to productive capacity as reported by mining companies on Form EIA-7A. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 24. Productive Capacity and Capacity Utilization of Coal Mines by State, Mine Type, and Union Type, 1999**  
(Thousand Short Tons)

Coal-Producing State and Region	UMWA		Other Unions		Nonunion		Total	
	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)
<b>Alabama</b> .....	<b>17,273</b>	<b>92.38</b>	-	-	<b>5,016</b>	<b>70.36</b>	<b>22,290</b>	<b>87.42</b>
Underground.....	16,029	91.79	-	-	87	100.00	16,116	91.83
Surface.....	1,244	100.00	-	-	4,929	69.84	6,174	75.92
<b>Alaska</b> .....	-	-	-	-	w	w	w	w
Surface.....	-	-	-	-	w	w	w	w
<b>Arizona</b> .....	w	w	-	-	-	-	w	w
Surface.....	w	w	-	-	-	-	w	w
<b>Arkansas</b> .....	-	-	-	-	w	w	w	w
Surface.....	-	-	-	-	w	w	w	w
<b>Colorado</b> .....	w	w	w	w	<b>22,598</b>	<b>71.73</b>	<b>41,098</b>	<b>72.97</b>
Underground.....	w	w	-	-	w	w	31,029	66.00
Surface.....	w	w	w	w	w	w	10,069	94.46
<b>Illinois</b> .....	<b>25,536</b>	<b>82.55</b>	<b>4,010</b>	<b>81.99</b>	<b>19,238</b>	<b>83.43</b>	<b>48,783</b>	<b>82.85</b>
Underground.....	w	w	w	w	17,267	81.90	44,402	82.78
Surface.....	w	w	w	w	1,971	96.82	4,381	83.51
<b>Indiana</b> .....	<b>13,767</b>	<b>79.86</b>	-	-	<b>27,588</b>	<b>83.41</b>	<b>41,355</b>	<b>82.22</b>
Underground.....	-	-	-	-	3,916	90.72	3,916	90.72
Surface.....	13,767	79.86	-	-	23,672	82.20	37,439	81.34
<b>Kansas</b> .....	-	-	-	-	w	w	w	w
Surface.....	-	-	-	-	w	w	w	w
<b>Kentucky Total</b> .....	<b>17,186</b>	<b>78.06</b>	-	-	<b>165,447</b>	<b>76.14</b>	<b>182,633</b>	<b>76.32</b>
Underground.....	w	w	-	-	w	w	109,978	78.27
Surface.....	w	w	-	-	w	w	72,656	73.38
<b>Eastern</b> .....	w	w	-	-	w	w	<b>142,362</b>	<b>77.14</b>
Underground.....	w	w	-	-	w	w	80,882	77.71
Surface.....	-	-	-	-	w	w	w	w
<b>Western</b> .....	w	w	-	-	w	w	<b>40,271</b>	<b>73.44</b>
Underground.....	w	w	-	-	w	w	29,096	79.80
Surface.....	w	w	-	-	w	w	11,175	56.89
<b>Louisiana</b> .....	-	-	-	-	w	w	w	w
Surface.....	-	-	-	-	w	w	w	w
<b>Maryland</b> .....	-	-	-	-	<b>4,224</b>	<b>90.15</b>	<b>4,224</b>	<b>90.15</b>
Underground.....	-	-	-	-	3,307	99.17	3,307	99.17
Surface.....	-	-	-	-	917	57.60	917	57.60
<b>Mississippi</b> .....	-	-	-	-	w	w	w	w
Surface.....	-	-	-	-	w	w	w	w
<b>Missouri</b> .....	-	-	-	-	w	w	w	w
Surface.....	-	-	-	-	w	w	w	w
<b>Montana</b> .....	w	w	w	w	w	w	<b>54,882</b>	<b>74.89</b>
Surface.....	w	w	w	w	w	w	54,882	74.89
<b>New Mexico</b> .....	w	w	w	w	<b>6,106</b>	<b>82.49</b>	<b>32,797</b>	<b>88.90</b>
Underground.....	-	-	-	-	w	w	w	w
Surface.....	w	w	w	w	w	w	w	w
<b>North Dakota</b> .....	w	w	w	w	w	w	<b>32,610</b>	<b>95.48</b>
Surface.....	w	w	w	w	w	w	32,610	95.48
<b>Ohio</b> .....	<b>15,143</b>	<b>74.83</b>	-	-	<b>15,473</b>	<b>71.41</b>	<b>30,617</b>	<b>73.10</b>
Underground.....	12,220	76.60	-	-	3,043	68.04	15,263	74.90
Surface.....	2,923	67.43	-	-	12,430	72.24	15,353	71.32
<b>Oklahoma</b> .....	-	-	-	-	<b>2,580</b>	<b>63.75</b>	<b>2,580</b>	<b>63.75</b>
Underground.....	-	-	-	-	360	55.49	360	55.49
Surface.....	-	-	-	-	2,220	65.09	2,220	65.09
<b>Pennsylvania Total</b> .....	w	w	w	w	<b>54,534</b>	<b>79.41</b>	<b>93,770</b>	<b>81.06</b>
Underground.....	w	w	-	-	w	w	69,677	84.82
Surface.....	w	w	w	w	w	w	24,093	70.17
<b>Anthracite</b> .....	w	w	w	w	<b>4,729</b>	<b>85.31</b>	<b>6,622</b>	<b>69.14</b>
Underground.....	-	-	-	-	328	90.23	328	90.23
Surface.....	w	w	w	w	4,402	84.94	6,295	68.05
<b>Bituminous</b> .....	w	w	-	-	w	w	<b>87,148</b>	<b>81.96</b>
Underground.....	w	w	-	-	w	w	69,349	84.79
Surface.....	w	w	-	-	w	w	17,799	70.92
<b>Tennessee</b> .....	-	-	-	-	<b>3,727</b>	<b>81.01</b>	<b>3,727</b>	<b>81.01</b>
Underground.....	-	-	-	-	1,921	76.92	1,921	76.92
Surface.....	-	-	-	-	1,805	85.35	1,805	85.35
<b>Texas</b> .....	<b>25,548</b>	<b>99.01</b>	w	w	w	w	<b>54,705</b>	<b>97.02</b>
Surface.....	25,548	99.01	w	w	w	w	54,705	97.02
<b>Utah</b> .....	w	w	w	w	<b>23,174</b>	<b>76.98</b>	<b>32,158</b>	<b>81.98</b>
Underground.....	w	w	w	w	23,174	76.98	32,158	81.98

See footnotes at end of table.



**Table 24. Productive Capacity and Capacity Utilization of Coal Mines by State, Mine Type, and Union Type, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State and Region	UMWA		Other Unions		Nonunion		Total	
	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)	Productive Capacity	Capacity Utilization (percent)
<b>Virginia</b> .....	<b>6,109</b>	<b>69.64</b>	<b>1,520</b>	<b>97.29</b>	<b>32,099</b>	<b>82.50</b>	<b>39,729</b>	<b>81.09</b>
Underground.....	6,109	69.64	w	w	w	w	27,473	81.93
Surface.....	-	-	w	w	w	w	12,256	79.22
<b>Washington</b> .....	-	-	<b>w</b>	<b>w</b>	-	-	<b>w</b>	<b>w</b>
Surface.....	-	-	w	w	-	-	w	w
<b>West Virginia Total</b> .....	<b>83,238</b>	<b>79.25</b>	-	-	<b>111,889</b>	<b>82.11</b>	<b>195,128</b>	<b>80.89</b>
Underground.....	58,779	81.22	-	-	68,499	81.61	127,278	81.43
Surface.....	24,460	74.51	-	-	43,390	82.89	67,850	79.87
<b>Northern</b> .....	<b>30,874</b>	<b>79.24</b>	-	-	<b>16,589</b>	<b>86.15</b>	<b>47,463</b>	<b>81.65</b>
Underground.....	30,874	79.24	-	-	10,608	86.62	41,482	81.13
Surface.....	-	-	-	-	5,981	85.31	5,981	85.31
<b>Southern</b> .....	<b>52,364</b>	<b>79.25</b>	-	-	<b>95,300</b>	<b>81.40</b>	<b>147,664</b>	<b>80.64</b>
Underground.....	27,904	83.42	-	-	57,891	80.69	85,796	81.58
Surface.....	24,460	74.51	-	-	37,409	82.50	61,869	79.34
<b>Wyoming</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>392,586</b>	<b>82.39</b>	<b>407,977</b>	<b>82.63</b>
Underground.....	-	-	-	-	3,680	45.46	3,680	45.46
Surface.....	w	w	w	w	388,906	82.74	404,297	82.97
<b>Appalachian Total<sup>1</sup></b> .....	<b>161,613</b>	<b>80.96</b>	<b>1,570</b>	<b>96.07</b>	<b>368,662</b>	<b>79.26</b>	<b>531,846</b>	<b>79.83</b>
Underground.....	130,421	82.97	880	95.31	210,616	80.74	341,917	81.63
Surface.....	31,192	72.58	690	97.03	158,047	77.29	189,928	76.59
<b>Interior Total<sup>1</sup></b> .....	<b>81,375</b>	<b>86.17</b>	<b>13,826</b>	<b>94.78</b>	<b>97,366</b>	<b>81.42</b>	<b>192,566</b>	<b>84.39</b>
Underground.....	41,009	80.06	2,150	95.00	34,615	83.36	77,774	81.94
Surface.....	40,365	92.38	11,676	94.74	62,751	80.35	114,792	86.04
<b>Western Total<sup>1</sup></b> .....	<b>73,055</b>	<b>82.79</b>	<b>64,700</b>	<b>82.13</b>	<b>483,464</b>	<b>82.47</b>	<b>621,220</b>	<b>82.47</b>
Underground.....	21,800	80.52	1,184	68.24	43,989	68.79	66,973	72.60
Surface.....	51,255	83.75	63,516	82.39	439,475	83.84	554,247	83.66
<b>East of Miss. River</b> .....	<b>217,439</b>	<b>80.79</b>	<b>5,580</b>	<b>85.95</b>	<b>439,256</b>	<b>79.25</b>	<b>662,275</b>	<b>79.81</b>
Underground.....	171,431	82.27	3,030	95.09	244,871	81.15	419,332	81.71
Surface.....	46,009	75.27	2,550	75.10	194,385	76.86	242,944	76.54
<b>West of Miss. River</b> .....	<b>98,604</b>	<b>86.99</b>	<b>74,516</b>	<b>84.49</b>	<b>510,237</b>	<b>82.72</b>	<b>683,356</b>	<b>83.53</b>
Underground.....	21,800	80.52	1,184	68.24	44,349	68.68	67,333	72.51
Surface.....	76,804	88.82	73,332	84.75	465,888	84.06	616,023	84.73
<b>U.S. Total</b> .....	<b>316,043</b>	<b>82.72</b>	<b>80,096</b>	<b>84.59</b>	<b>949,492</b>	<b>81.12</b>	<b>1,345,632</b>	<b>81.70</b>
Underground.....	193,231	82.07	4,214	87.54	289,220	79.24	486,665	80.43
Surface.....	122,812	83.75	75,882	84.43	660,273	81.94	858,967	82.42

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

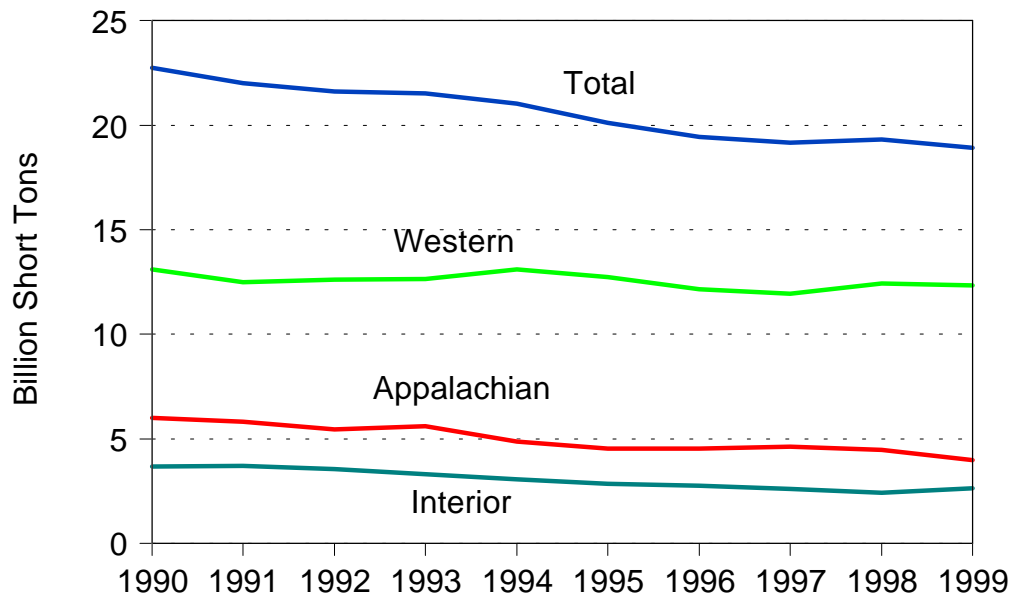
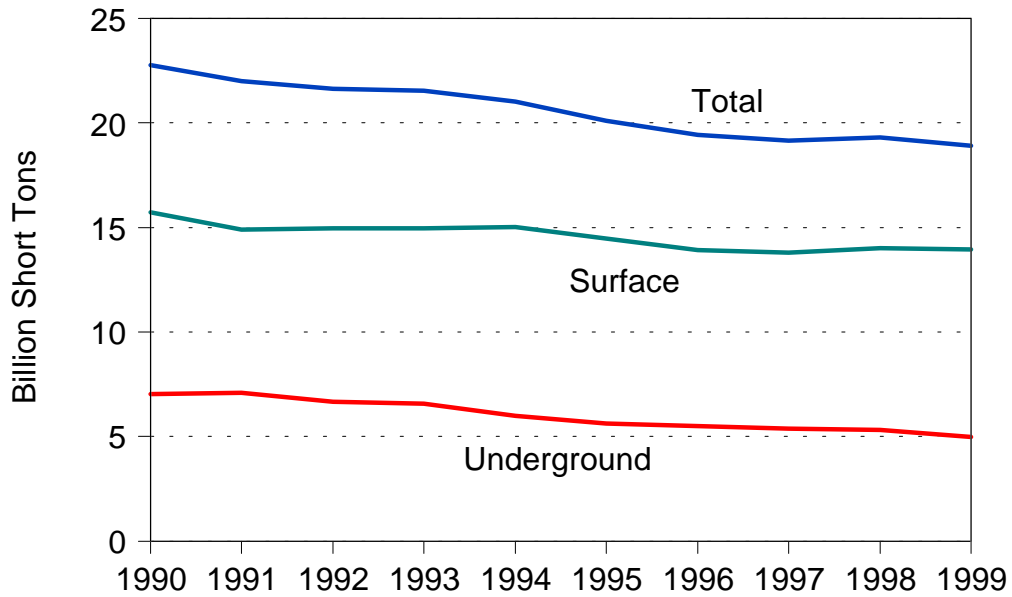
w Withheld to avoid disclosure of individual company data.

Notes: Productive capacity is the maximum amount of coal that can be produced annually as reported by mining companies on Form EIA-7A. Capacity utilization is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding. See Glossary for listing of other unions.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

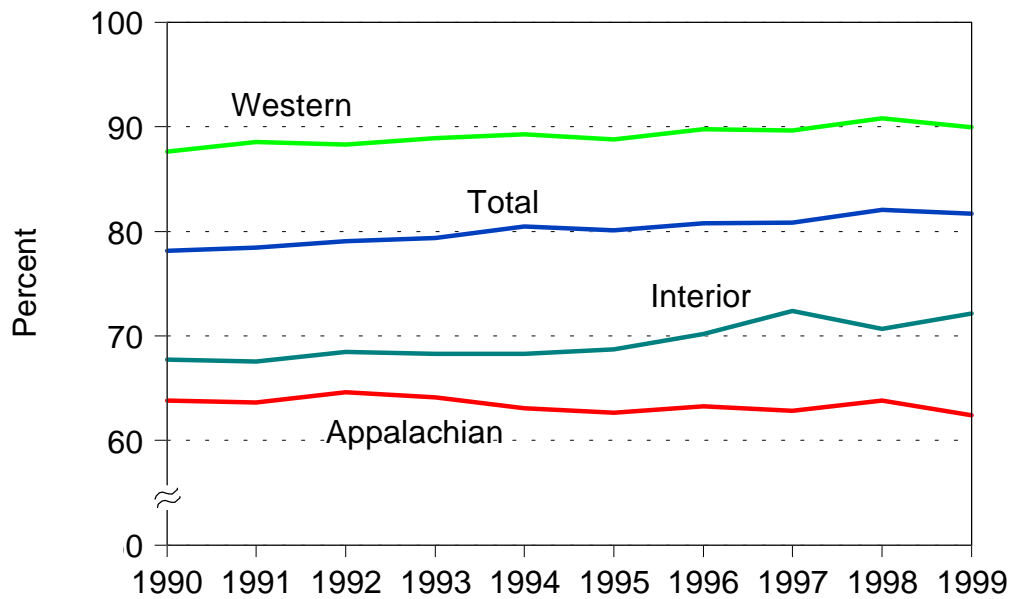
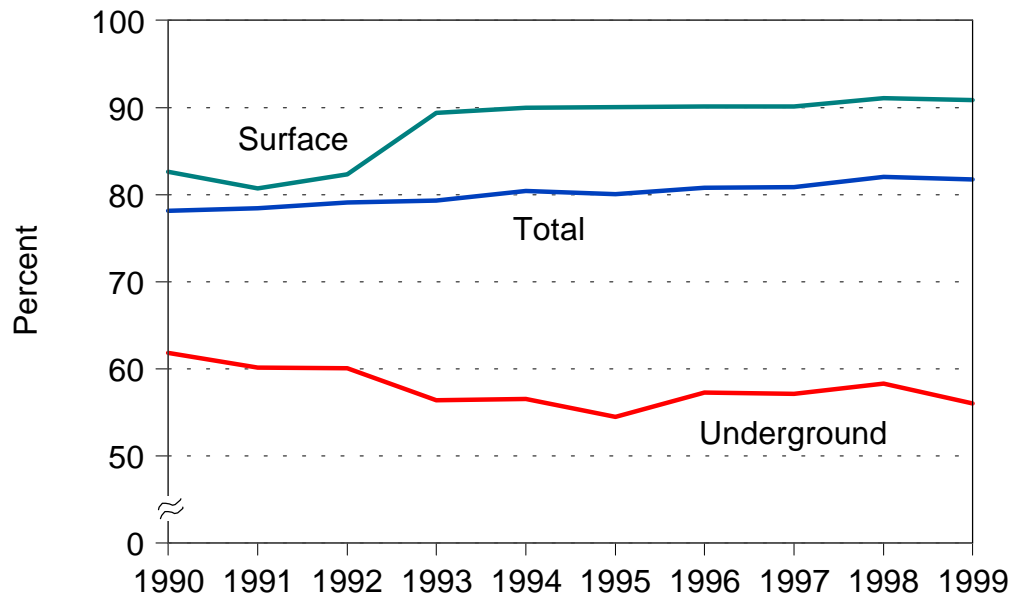
# Recoverable Coal Reserves at Producing Mines

**Figure 1. Recoverable Coal Reserves at Producing U.S. Mines by Mine Type and by Region, 1990-1999**



Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

Figure 2. Average Recovery Percentage at Producing U.S. Mines by Mine Type and by Region, 1990-1999



Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 25. Recoverable Coal Reserves at Producing Mines by State, 1990, 1995-1999**

(Million Short Tons)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	436	374	374	452	510	489	16.7	-3.8	-1.3
Alaska.....	w	w	w	w	w	w	w	w	w
Arizona.....	w	w	w	w	w	w	w	w	w
Arkansas.....	-	-	-	-	w	w	-	-	-
California.....	-	-	-	-	-	w	-	-	-
Colorado.....	617	540	568	642	692	546	14.1	-2.8	1.3
Illinois.....	780	744	745	891	882	1,174	4.9	-3.0	-4.4
Indiana.....	291	313	393	386	324	444	-7.3	-2.6	-4.6
Iowa.....	-	-	-	-	-	w	-	-	-
Kansas.....	w	w	w	w	w	w	w	w	w
Kentucky Total.....	1,119	<sup>R</sup> 1,180	1,331	1,255	1,279	1,585	-5.1	-3.3	-3.8
Eastern.....	714	<sup>R</sup> 759	965	818	763	994	-5.9	-1.6	-3.6
Western.....	405	421	366	437	516	591	-3.6	-5.8	-4.1
Louisiana.....	w	w	w	w	w	w	w	w	w
Maryland.....	79	64	68	71	58	85	23.7	8.4	-8
Mississippi.....	w	-	-	-	-	-	-	-	-
Missouri.....	w	3	1	3	2	w	w	w	w
Montana.....	1,147	1,191	1,168	1,309	1,251	1,872	-3.7	-2.1	-5.3
New Mexico.....	1,385	1,385	1,415	1,436	1,480	1,527	*	-1.6	-1.1
North Dakota.....	1,188	1,170	1,211	1,301	1,668	1,414	1.6	-8.1	-1.9
Ohio.....	383	356	318	415	468	692	7.4	-4.9	-6.4
Oklahoma.....	35	18	24	19	19	38	90.8	16.4	-9
Pennsylvania Total.....	657	775	905	796	737	1,126	-15.1	-2.8	-5.8
Anthracite.....	76	88	120	90	49	77	-13.9	11.2	-1
Bituminous.....	582	687	785	706	687	1,050	-15.3	-4.1	-6.3
Tennessee.....	14	27	57	59	68	63	-48.3	-32.7	-15.4
Texas.....	756	791	922	878	940	1,209	-4.5	-5.3	-5.1
Utah.....	424	433	433	284	375	505	-2.1	3.1	-1.9
Virginia.....	220	<sup>R</sup> 190	208	188	203	424	15.9	2.0	-7.0
Washington.....	w	w	w	w	w	w	w	w	w
West Virginia Total.....	1,465	<sup>R</sup> 1,911	1,737	1,731	1,731	2,115	-23.3	-4.1	-4.0
Northern.....	552	<sup>R</sup> 857	714	741	782	1,018	-35.5	-8.3	-6.6
Southern.....	912	<sup>R</sup> 1,054	1,023	990	949	1,097	-13.5	-1.0	-2.0
Wyoming.....	7,094	7,220	6,465	6,591	6,724	6,564	-1.8	1.3	.9
<b>Appalachian Total<sup>1</sup>.....</b>	<b>3,968</b>	<sup>R</sup> <b>4,456</b>	<b>4,632</b>	<b>4,530</b>	<b>4,538</b>	<b>5,989</b>	<b>-10.9</b>	<b>-3.3</b>	<b>-4.5</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>2,620</b>	<b>2,428</b>	<b>2,591</b>	<b>2,757</b>	<b>2,835</b>	<b>3,682</b>	<b>7.9</b>	<b>-1.9</b>	<b>-3.7</b>
<b>Western Total<sup>1</sup>.....</b>	<b>12,331</b>	<b>12,438</b>	<b>11,941</b>	<b>12,141</b>	<b>12,732</b>	<b>13,091</b>	<b>-9</b>	<b>-8</b>	<b>-7</b>
<b>East of Miss. River.....</b>	<b>5,661</b>	<sup>R</sup> <b>5,934</b>	<b>6,136</b>	<b>6,244</b>	<b>6,260</b>	<b>8,197</b>	<b>-4.6</b>	<b>-2.5</b>	<b>-4.0</b>
<b>West of Miss. River.....</b>	<b>13,259</b>	<b>13,389</b>	<b>13,029</b>	<b>13,184</b>	<b>13,845</b>	<b>14,564</b>	<b>-1.0</b>	<b>-1.1</b>	<b>-1.0</b>
<b>U.S. Total.....</b>	<b>18,920</b>	<sup>R</sup> <b>19,322</b>	<b>19,164</b>	<b>19,428</b>	<b>20,105</b>	<b>22,761</b>	<b>-2.1</b>	<b>-1.5</b>	<b>-2.0</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

<sup>R</sup> Revised Data.

Notes: Recoverable reserves represent the quantity of coal that can be recovered (i.e., mined) from existing coal reserves at reporting mines. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 26. Average Recovery Percentage at Producing Coal Mines by State, 1990, 1995-1999**

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990
Alabama.....	54.47	54.15	54.81	55.56	58.74	60.40
Alaska.....	w	w	w	w	w	w
Arizona.....	w	w	w	w	w	w
Arkansas.....	-	-	-	-	w	w
California.....	-	-	-	-	-	w
Colorado.....	72.61	81.40	80.43	79.12	66.06	68.55
Illinois.....	53.92	53.48	53.49	54.20	52.05	52.15
Indiana.....	75.35	76.46	76.35	78.85	76.23	71.24
Iowa.....	-	-	-	-	-	w
Kansas.....	w	w	w	w	w	w
Kentucky Total.....	56.66	R 59.85	60.91	58.99	57.71	63.21
Eastern.....	58.29	R 62.37	63.14	62.59	60.87	66.97
Western.....	53.78	55.29	55.02	52.27	53.03	56.88
Louisiana.....	w	w	w	w	w	w
Maryland.....	60.13	60.39	57.36	61.45	58.34	73.17
Mississippi.....	w	-	-	-	-	-
Missouri.....	w	87.46	60.73	59.87	61.04	w
Montana.....	91.18	90.98	90.27	89.05	90.38	82.47
New Mexico.....	93.57	93.43	93.42	93.35	92.62	92.31
North Dakota.....	89.74	88.38	89.84	89.72	89.58	90.91
Ohio.....	72.15	70.78	63.89	71.61	68.73	69.79
Oklahoma.....	74.87	66.01	69.34	65.94	62.39	72.35
Pennsylvania Total.....	66.12	64.29	65.17	65.59	65.26	67.12
Anthracite.....	49.66	54.61	47.72	59.90	64.39	51.38
Bituminous.....	68.26	65.53	67.85	66.32	65.32	68.26
Tennessee.....	67.65	71.35	68.23	63.33	64.14	68.12
Texas.....	91.29	89.55	90.47	88.32	87.09	83.22
Utah.....	51.11	52.14	49.47	45.61	46.10	52.41
Virginia.....	61.33	R 58.44	58.58	54.81	58.14	66.21
Washington.....	w	w	w	w	w	w
West Virginia Total.....	62.74	65.33	63.58	63.49	62.44	58.36
Northern.....	62.26	66.34	58.54	58.91	55.10	50.54
Southern.....	63.03	64.50	67.10	66.92	68.49	65.62
Wyoming.....	92.98	93.80	92.26	92.16	92.27	91.57
<b>Appalachian Total<sup>1</sup>.....</b>	<b>62.38</b>	R <b>63.81</b>	<b>62.85</b>	<b>63.25</b>	<b>62.65</b>	<b>63.79</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>72.12</b>	<b>70.64</b>	<b>72.36</b>	<b>70.15</b>	<b>68.71</b>	<b>67.70</b>
<b>Western Total<sup>1</sup>.....</b>	<b>89.95</b>	<b>90.79</b>	<b>89.63</b>	<b>89.74</b>	<b>88.81</b>	<b>87.59</b>
<b>East of Miss. River.....</b>	<b>62.32</b>	R <b>62.58</b>	<b>62.11</b>	<b>62.16</b>	<b>61.06</b>	<b>62.03</b>
<b>West of Miss. River.....</b>	<b>89.97</b>	<b>90.66</b>	<b>89.64</b>	<b>89.60</b>	<b>88.66</b>	<b>87.16</b>
<b>U.S. Total.....</b>	<b>81.70</b>	R <b>82.03</b>	<b>80.83</b>	<b>80.78</b>	<b>80.07</b>	<b>78.11</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

Notes: Average recovery percentage represents the percentage of coal that can be recovered from coal reserves at reporting mines, weighted for all mines in the geographic area. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 27. Recoverable Coal Reserves and Average Recovery Percentage at Producing Mines by State and Mine Type, 1999**  
(Million Short Tons)

Coal-Producing State and Region	Underground		Surface		Total	
	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage
Alabama .....	392	52.98	44	67.63	436	54.47
Alaska.....	—	—	w	w	w	w
Arizona.....	—	—	w	w	w	w
Colorado.....	415	66.01	202	86.18	617	72.61
Illinois.....	754	52.86	26	84.45	780	53.92
Indiana.....	28	48.77	262	78.24	291	75.35
Kansas.....	—	—	w	w	w	w
Kentucky Total.....	931	51.03	189	84.44	1,119	56.66
Eastern.....	552	51.12	162	82.83	714	58.29
Western.....	378	50.91	27	94.10	405	53.78
Louisiana.....	—	—	w	w	w	w
Maryland.....	70	58.31	10	73.11	79	60.13
Mississippi.....	—	—	w	w	w	w
Missouri.....	—	—	w	w	w	w
Montana.....	—	—	1,147	91.18	1,147	91.18
New Mexico.....	w	w	w	w	1,385	93.57
North Dakota.....	—	—	1,188	89.74	1,188	89.74
Ohio.....	191	59.99	191	84.29	383	72.15
Oklahoma.....	w	w	w	w	35	74.87
Pennsylvania Total.....	490	65.04	167	69.28	657	66.12
Anthracite.....	2	80.00	73	48.66	76	49.66
Bituminous.....	488	64.97	94	85.33	582	68.26
Tennessee.....	8	53.74	6	86.35	14	67.65
Texas.....	—	—	756	91.29	756	91.29
Utah.....	424	51.11	—	—	424	51.11
Virginia.....	193	57.87	27	85.81	220	61.33
Washington.....	—	—	w	w	w	w
West Virginia Total.....	1,073	56.65	392	79.42	1,465	62.74
Northern.....	526	61.58	26	75.82	552	62.26
Southern.....	547	51.91	365	79.67	912	63.03
Wyoming.....	w	w	w	w	7,094	92.98
<b>Appalachian Total<sup>1</sup>.....</b>	<b>2,969</b>	<b>56.85</b>	<b>999</b>	<b>78.83</b>	<b>3,968</b>	<b>62.38</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>1,174</b>	<b>52.20</b>	<b>1,446</b>	<b>88.29</b>	<b>2,620</b>	<b>72.12</b>
<b>Western Total<sup>1</sup>.....</b>	<b>841</b>	<b>58.48</b>	<b>11,491</b>	<b>92.26</b>	<b>12,331</b>	<b>89.95</b>
<b>East of Miss. River.....</b>	<b>4,130</b>	<b>55.52</b>	<b>1,531</b>	<b>80.67</b>	<b>5,661</b>	<b>62.32</b>
<b>West of Miss. River.....</b>	<b>854</b>	<b>58.49</b>	<b>12,405</b>	<b>92.14</b>	<b>13,259</b>	<b>89.97</b>
<b>U.S. Total.....</b>	<b>4,983</b>	<b>56.03</b>	<b>13,936</b>	<b>90.88</b>	<b>18,920</b>	<b>81.70</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

<sup>w</sup> Withheld to avoid disclosure of individual company data.

Notes: Recoverable reserves represent the quantity of coal that can be recovered (i.e., mined) from existing coal reserves at reporting mines. Average recovery percentage represents the percentage of coal that can be recovered from coal reserves at reporting mines, weighted for all mines in the reported geographic area. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 28. Recoverable Coal Reserves at Producing Underground Mines by State and Mining Method, 1999**  
(Million Short Tons)

Coal-Producing State and Region	Continuous <sup>1</sup>	Conventional <sup>2</sup>	Longwall <sup>3</sup>	Other <sup>4</sup>	Total
Alabama.....	w	-	w	-	392
Colorado.....	19	-	396	-	415
Illinois.....	380	-	375	-	754
Indiana.....	w	-	-	-	w
Kentucky Total.....	822	40	68	-	931
Eastern.....	507	40	5	-	552
Western.....	315	-	63	-	378
Maryland.....	w	-	w	-	70
New Mexico.....	w	-	-	-	w
Ohio.....	23	-	169	-	191
Oklahoma.....	w	-	-	-	w
Pennsylvania Total.....	126	1	364	*	490
Anthracite.....	2	1	-	*	2
Bituminous.....	124	-	364	-	488
Tennessee.....	8	-	-	-	8
Utah.....	49	3	372	-	424
Virginia.....	153	*	40	-	193
West Virginia Total.....	489	*	584	-	1,073
Northern.....	87	-	439	-	526
Southern.....	401	*	145	-	547
Wyoming.....	w	-	w	-	w
<b>Appalachian Total<sup>5</sup>.....</b>	<b>1,318</b>	<b>41</b>	<b>1,610</b>	<b>*</b>	<b>2,969</b>
<b>Interior Total<sup>5</sup>.....</b>	<b>736</b>	<b>-</b>	<b>438</b>	<b>-</b>	<b>1,174</b>
<b>Western Total<sup>5</sup>.....</b>	<b>68</b>	<b>3</b>	<b>769</b>	<b>-</b>	<b>841</b>
<b>East of Miss. River.....</b>	<b>2,041</b>	<b>41</b>	<b>2,048</b>	<b>*</b>	<b>4,130</b>
<b>West of Miss. River.....</b>	<b>81</b>	<b>3</b>	<b>769</b>	<b>-</b>	<b>854</b>
<b>U.S. Total.....</b>	<b>2,122</b>	<b>44</b>	<b>2,817</b>	<b>*</b>	<b>4,983</b>

<sup>1</sup> Mines that produce greater than 50 percent of coal by continuous mining method.

<sup>2</sup> Mines that produce greater than 50 percent of coal by conventional mining method.

<sup>3</sup> Mines that have any production from longwall mining method. A typical longwall mining operation uses 80 percent longwall mining and 20 percent continuous mining.

<sup>4</sup> Mines that produce coal using shortwall, scoop loading, hand loading, or other mining methods or a 50/50 percent continuous/conventional split in mining method, or mines that produce less than 10,000 short tons, which are not required to provide data.

<sup>5</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

<sup>w</sup> Withheld to avoid disclosure of individual company data.

Notes: Recoverable reserves represent the quantity of coal that can be recovered (i.e., mined) from existing coal reserves at reporting mines. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."



**Table 29. Average Recovery Percentage at Producing Underground Coal Mines by State and Mining Method, 1999**

Coal-Producing State and Region	Continuous <sup>1</sup>	Conventional <sup>2</sup>	Longwall <sup>3</sup>	Other <sup>4</sup>	Total
Alabama .....	w	—	w	—	52.98
Colorado .....	46.78	—	66.94	—	66.01
Illinois .....	49.53	—	56.23	—	52.86
Indiana .....	w	—	—	—	w
Kentucky Total .....	50.66	49.98	56.16	—	51.03
Eastern .....	51.22	49.98	50.00	—	51.12
Western .....	49.76	—	56.65	—	50.91
Maryland .....	w	—	w	—	58.31
New Mexico .....	w	—	—	—	w
Ohio .....	61.89	—	59.74	—	59.99
Oklahoma .....	w	—	—	—	w
Pennsylvania Total .....	61.78	80.00	66.14	80.00	65.04
Anthracite .....	80.00	80.00	—	80.00	80.00
Bituminous .....	61.53	—	66.14	—	64.97
Tennessee .....	53.74	—	—	—	53.74
Utah .....	66.73	46.00	49.11	—	51.11
Virginia .....	59.92	61.00	50.00	—	57.87
West Virginia Total .....	52.73	56.00	59.93	—	56.65
Northern .....	64.10	—	61.08	—	61.58
Southern .....	50.25	56.00	56.47	—	51.91
Wyoming .....	w	—	w	—	w
<b>Appalachian Total<sup>5</sup> .....</b>	<b>54.08</b>	<b>50.45</b>	<b>59.27</b>	<b>80.00</b>	<b>56.85</b>
<b>Interior Total<sup>5</sup> .....</b>	<b>49.77</b>	—	<b>56.29</b>	—	<b>52.20</b>
<b>Western Total<sup>5</sup> .....</b>	<b>61.14</b>	<b>46.00</b>	<b>58.30</b>	—	<b>58.48</b>
<b>East of Miss. River .....</b>	<b>52.49</b>	<b>50.45</b>	<b>58.64</b>	<b>80.00</b>	<b>55.52</b>
<b>West of Miss. River .....</b>	<b>60.80</b>	<b>46.00</b>	<b>58.30</b>	—	<b>58.49</b>
<b>U.S. Total .....</b>	<b>52.81</b>	<b>50.13</b>	<b>58.54</b>	<b>80.00</b>	<b>56.03</b>

<sup>1</sup> Mines that produce greater than 50 percent of coal by continuous mining method.

<sup>2</sup> Mines that produce greater than 50 percent of coal by conventional mining method.

<sup>3</sup> Mines that have any production from longwall mining method. A typical longwall mining operation uses 80 percent longwall mining and 20 percent continuous mining.

<sup>4</sup> Mines that produce coal using shortwall, scoop loading, hand loading, or other mining methods or a 50/50 percent continuous/conventional split in mining method, or mines that produce less than 10,000 short tons, which are not required to provide data.

<sup>5</sup> For a definition of coal-producing regions, see Appendix C.

w Withheld to avoid disclosure of individual company data.

Notes: Average recovery percentage represents the percentage of coal that can be recovered from coal reserves at reporting mines, weighted for all mines in the reported geographic area. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 30. Recoverable Coal Reserves and Average Recovery Percentage at Producing U.S. Mines by Mine Production Range and Mine Type, 1999**  
(Million Short Tons)

Mine Production Range (thousand short tons)	Underground		Surface		Total	
	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage
Over 1,000.....	3,573	56.40	12,533	91.49	16,105	83.70
500 to 1,000 .....	524	54.86	662	91.01	1,186	75.03
200 to 500 .....	443	54.33	260	82.63	703	64.79
100 to 200 .....	265	56.11	86	79.89	351	61.93
50 to 100 .....	95	56.57	74	85.30	170	69.15
10 to 50 .....	83	55.62	322	77.96	405	73.35
<b>U.S. Total.....</b>	<b>4,983</b>	<b>56.03</b>	<b>13,936</b>	<b>90.88</b>	<b>18,920</b>	<b>81.70</b>

Notes: Recoverable reserves represent the quantity of coal that can be recovered (i.e., mined) from existing coal reserves at reporting mines. Average recovery percentage represents the percentage of coal that can be recovered from coal reserves at reporting mines, weighted for all mines in the reported geographic area. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 31. Recoverable Coal Reserves and Average Recovery Percentage at Producing U.S. Mines by Coalbed Thickness and Mine Type, 1999**  
(Million Short Tons)

Coalbed Thickness (inches)	Underground		Surface		Total	
	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage
< 7 .....	-	-	*	94.07	*	94.07
7-12 .....	-	-	43	69.12	43	69.12
13-18 .....	-	-	48	80.93	48	80.93
19-24 .....	1	50.68	342	89.39	344	89.25
25-30 .....	42	56.48	245	87.49	288	82.92
31-36 .....	215	52.51	217	83.21	432	67.94
37-42 .....	316	54.70	123	84.16	438	62.94
43-48 .....	354	55.96	226	83.97	580	66.86
49-54 .....	532	53.42	430	88.79	963	69.23
55-60 .....	515	53.33	307	84.27	823	64.89
61-66 .....	307	57.36	134	86.98	441	66.34
67-72 .....	849	58.30	359	87.20	1,208	66.89
73-78 .....	254	54.68	27	78.81	280	56.97
79-84 .....	491	54.80	198	88.52	689	64.49
85-90 .....	82	69.99	136	83.63	218	78.51
91-96 .....	229	61.03	349	92.70	577	80.15
97-102 .....	83	26.35	31	88.94	115	43.42
103-108 .....	35	56.53	111	91.17	146	82.81
109-114 .....	101	62.06	107	87.58	208	75.23
115-120 .....	83	62.54	39	86.47	122	70.24
> 120 .....	495	59.26	10,464	92.15	10,958	90.66
<b>U.S. Total.....</b>	<b>4,983</b>	<b>56.03</b>	<b>13,936</b>	<b>90.88</b>	<b>18,920</b>	<b>81.70</b>

\* Data round to zero.

Notes: Recoverable reserves represent the quantity of coal that can be recovered (i.e., mined) from existing coal reserves at reporting mines. Average recovery percentage represents the percentage of coal that can be recovered from coal reserves at reporting mines, weighted for all mines in the reported geographic area. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 32. Recoverable Coal Reserves and Average Recovery Percentage at Producing Mines by State, Mine Type, and Union Type, 1999**  
(Million Short Tons)

Coal-Producing State and Region	UMWA		Other Unions		Nonunion		Total	
	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage
<b>Alabama</b> .....	<b>400</b>	<b>53.94</b>	-	-	<b>37</b>	<b>60.32</b>	<b>436</b>	<b>54.47</b>
Underground.....	390	52.95	-	-	2	60.00	392	52.98
Surface.....	9	95.00	-	-	35	60.33	44	67.63
<b>Alaska</b> .....	-	-	-	-	w	w	w	w
Surface.....	-	-	-	-	w	w	w	w
<b>Arizona</b> .....	w	w	-	-	-	-	w	w
Surface.....	w	w	-	-	-	-	w	w
<b>Colorado</b> .....	w	w	w	w	<b>454</b>	<b>72.37</b>	<b>617</b>	<b>72.61</b>
Underground.....	w	w	-	-	w	w	415	66.01
Surface.....	w	w	w	w	w	w	202	86.18
<b>Illinois</b> .....	<b>313</b>	<b>48.90</b>	<b>14</b>	<b>70.43</b>	<b>454</b>	<b>56.89</b>	<b>780</b>	<b>53.92</b>
Underground.....	w	w	w	w	442	56.02	754	52.86
Surface.....	w	w	w	w	12	89.92	26	84.45
<b>Indiana</b> .....	<b>120</b>	<b>74.89</b>	-	-	<b>171</b>	<b>75.68</b>	<b>291</b>	<b>75.35</b>
Underground.....	-	-	-	-	28	48.77	28	48.77
Surface.....	120	74.89	-	-	142	81.06	262	78.24
<b>Kansas</b> .....	-	-	-	-	w	w	w	w
Surface.....	-	-	-	-	w	w	w	w
<b>Kentucky Total</b> .....	<b>89</b>	<b>55.88</b>	-	-	<b>1,031</b>	<b>56.73</b>	<b>1,119</b>	<b>56.66</b>
Underground.....	w	w	-	-	w	w	931	51.03
Surface.....	w	w	-	-	w	w	189	84.44
<b>Eastern</b> .....	w	w	-	-	w	w	<b>714</b>	<b>58.29</b>
Underground.....	w	w	-	-	w	w	552	51.12
Surface.....	-	-	-	-	w	w	w	w
<b>Western</b> .....	w	w	-	-	w	w	<b>405</b>	<b>53.78</b>
Underground.....	w	w	-	-	w	w	378	50.91
Surface.....	w	w	-	-	w	w	27	94.10
<b>Louisiana</b> .....	-	-	-	-	w	w	w	w
Surface.....	-	-	-	-	w	w	w	w
<b>Maryland</b> .....	-	-	-	-	<b>79</b>	<b>60.13</b>	<b>79</b>	<b>60.13</b>
Underground.....	-	-	-	-	70	58.31	70	58.31
Surface.....	-	-	-	-	10	73.11	10	73.11
<b>Mississippi</b> .....	-	-	-	-	w	w	w	w
Surface.....	-	-	-	-	w	w	w	w
<b>Missouri</b> .....	-	-	-	-	w	w	w	w
Surface.....	-	-	-	-	w	w	w	w
<b>Montana</b> .....	w	w	w	w	w	w	<b>1,147</b>	<b>91.18</b>
Surface.....	w	w	w	w	w	w	1,147	91.18
<b>New Mexico</b> .....	w	w	w	w	<b>209</b>	<b>89.91</b>	<b>1,385</b>	<b>93.57</b>
Underground.....	-	-	-	-	w	w	w	w
Surface.....	w	w	w	w	w	w	w	w
<b>North Dakota</b> .....	w	w	w	w	w	w	<b>1,188</b>	<b>89.74</b>
Surface.....	w	w	w	w	w	w	1,188	89.74
<b>Ohio</b> .....	<b>243</b>	<b>67.42</b>	-	-	<b>140</b>	<b>80.35</b>	<b>383</b>	<b>72.15</b>
Underground.....	169	59.74	-	-	23	61.89	191	59.99
Surface.....	74	84.90	-	-	117	83.91	191	84.29
<b>Oklahoma</b> .....	-	-	-	-	<b>35</b>	<b>74.87</b>	<b>35</b>	<b>74.87</b>
Underground.....	-	-	-	-	13	59.00	13	59.00
Surface.....	-	-	-	-	22	84.37	22	84.37
<b>Pennsylvania Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>309</b>	<b>72.42</b>	<b>657</b>	<b>66.12</b>
Underground.....	w	w	-	-	w	w	490	65.04
Surface.....	w	w	w	w	w	w	167	69.28
<b>Anthracite</b> .....	w	w	w	w	<b>27</b>	<b>70.64</b>	<b>76</b>	<b>49.66</b>
Underground.....	-	-	-	-	2	80.00	2	80.00
Surface.....	w	w	w	w	25	69.72	73	48.66
<b>Bituminous</b> .....	w	w	-	-	w	w	<b>582</b>	<b>68.26</b>
Underground.....	w	w	-	-	w	w	488	64.97
Surface.....	w	w	-	-	w	w	94	85.33
<b>Tennessee</b> .....	-	-	-	-	<b>14</b>	<b>67.65</b>	<b>14</b>	<b>67.65</b>
Underground.....	-	-	-	-	8	53.74	8	53.74
Surface.....	-	-	-	-	6	86.35	6	86.35
<b>Texas</b> .....	<b>284</b>	<b>91.56</b>	w	w	w	w	<b>756</b>	<b>91.29</b>
Surface.....	284	91.56	w	w	w	w	756	91.29
<b>Utah</b> .....	w	w	w	w	<b>374</b>	<b>52.36</b>	<b>424</b>	<b>51.11</b>
Underground.....	w	w	w	w	374	52.36	424	51.11
<b>Virginia</b> .....	<b>25</b>	<b>50.00</b>	<b>8</b>	<b>71.10</b>	<b>187</b>	<b>62.40</b>	<b>220</b>	<b>61.33</b>
Underground.....	25	50.00	w	w	w	w	193	57.87
Surface.....	-	-	w	w	w	w	27	85.81

See footnotes at end of table.

**Table 32. Recoverable Coal Reserves and Average Recovery Percentage at Producing Mines by State, Mine Type, and Union Type, 1999 (Continued)**  
(Million Short Tons)

Coal-Producing State and Region	UMWA		Other Unions		Nonunion		Total	
	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage
<b>Washington</b> .....	-	-	w	w	-	-	w	w
Surface.....	-	-	w	w	-	-	w	w
<b>West Virginia Total</b> .....	<b>790</b>	<b>63.35</b>	-	-	<b>675</b>	<b>62.02</b>	<b>1,465</b>	<b>62.74</b>
Underground.....	646	60.23	-	-	427	51.22	1,073	56.65
Surface.....	144	77.35	-	-	248	80.62	392	79.42
<b>Northern</b> .....	<b>444</b>	<b>61.32</b>	-	-	<b>108</b>	<b>66.13</b>	<b>552</b>	<b>62.26</b>
Underground.....	444	61.32	-	-	82	63.02	526	61.58
Surface.....	-	-	-	-	26	75.82	26	75.82
<b>Southern</b> .....	<b>346</b>	<b>65.96</b>	-	-	<b>566</b>	<b>61.24</b>	<b>912</b>	<b>63.03</b>
Underground.....	202	57.86	-	-	345	48.42	547	51.91
Surface.....	144	77.35	-	-	222	81.18	365	79.67
<b>Wyoming</b> .....	w	w	w	w	<b>6,815</b>	<b>93.07</b>	<b>7,094</b>	<b>92.98</b>
Underground.....	-	-	-	-	1	60.00	1	60.00
Surface.....	w	w	w	w	6,814	93.07	7,093	92.98
<b>Appalachian Total</b> <sup>1</sup> .....	<b>1,807</b>	<b>61.09</b>	<b>8</b>	<b>70.15</b>	<b>2,153</b>	<b>63.44</b>	<b>3,968</b>	<b>62.38</b>
Underground.....	1,524	58.83	6	65.00	1,439	54.72	2,969	56.85
Surface.....	283	73.28	3	80.96	714	81.02	999	78.83
<b>Interior Total</b> <sup>1</sup> .....	<b>804</b>	<b>68.59</b>	<b>100</b>	<b>88.75</b>	<b>1,716</b>	<b>72.80</b>	<b>2,620</b>	<b>72.12</b>
Underground.....	390	49.46	7	60.00	778	53.51	1,174	52.20
Surface.....	414	86.59	94	90.74	938	88.79	1,446	88.29
<b>Western Total</b> <sup>1</sup> .....	<b>979</b>	<b>84.43</b>	<b>2,285</b>	<b>92.04</b>	<b>9,066</b>	<b>90.02</b>	<b>12,331</b>	<b>89.95</b>
Underground.....	169	60.14	4	61.75	667	58.04	841	58.48
Surface.....	810	89.51	2,281	92.09	8,400	92.56	11,491	92.26
<b>East of Miss. River</b> .....	<b>2,327</b>	<b>59.96</b>	<b>22</b>	<b>70.33</b>	<b>3,312</b>	<b>63.93</b>	<b>5,661</b>	<b>62.32</b>
Underground.....	1,914	56.92	12	62.34	2,204	54.26	4,130	55.52
Surface.....	413	74.06	10	80.32	1,109	83.14	1,531	80.67
<b>West of Miss. River</b> .....	<b>1,264</b>	<b>86.04</b>	<b>2,372</b>	<b>92.02</b>	<b>9,623</b>	<b>89.99</b>	<b>13,259</b>	<b>89.97</b>
Underground.....	169	60.14	4	61.75	680	58.06	854	58.49
Surface.....	1,094	90.05	2,368	92.08	8,943	92.41	12,405	92.14
<b>U.S. Total</b> .....	<b>3,590</b>	<b>69.14</b>	<b>2,394</b>	<b>91.82</b>	<b>12,935</b>	<b>83.31</b>	<b>18,920</b>	<b>81.70</b>
Underground.....	2,083	57.18	16	62.18	2,883	55.16	4,983	56.03
Surface.....	1,507	85.67	2,377	92.03	10,052	91.39	13,936	90.88

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

<sup>w</sup> Withheld to avoid disclosure of individual company data.

Notes: Recoverable reserves represent the quantity of coal that can be recovered (i.e., mined) from existing coal reserves at reporting mines. Average recovery percentage represents the percentage of coal that can be recovered from coal reserves at reporting mines, weighted for all mines in the reported geographic area. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding. See Glossary for listing of other unions.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 33. U.S. Demonstrated Reserve Base of Coal by Potential Mining Method and Ranked by State Total, January 1, 1997**  
(Million Short Tons)

Rank	State	Underground	Surface	Total
1	Montana	70,958	48,718	119,677
2	Illinois	88,461	16,608	105,069
3	Wyoming	42,516	25,299	67,815
4	West Virginia	30,968	4,429	35,397
5	Kentucky	18,508	13,533	32,041
6	Pennsylvania	24,232	4,414	28,646
	Anthracite	3,850	3,370	7,220
	Bituminous	20,382	1,044	21,427
7	Ohio	17,789	5,875	23,664
8	Colorado	11,979	4,777	16,756
9	Texas	–	12,931	12,931
10	New Mexico	6,204	6,279	12,483
11	Indiana	8,860	1,057	9,917
12	North Dakota	–	9,395	9,395
13	Alaska	5,423	703	6,126
14	Missouri	1,479	4,515	5,994
15	Utah	5,583	268	5,850
16	Alabama	1,290	3,256	4,547
17	Virginia	1,528	674	2,202
18	Iowa	1,733	457	2,190
19	Oklahoma	1,237	338	1,575
20	Washington	1,332	57	1,390
21	Kansas	–	975	975
22	Tennessee	532	284	816
23	Maryland	637	80	717
24	Louisiana	–	463	463
25	Arkansas	273	144	417
26	South Dakota	–	366	366
27	Arizona	102	59	161
28	Michigan	123	5	128
29	Oregon	15	3	18
30	North Carolina	11	–	11
31	Idaho	4	–	4
32	Georgia	2	2	4
	<b>U.S. Total</b>	<b>341,775</b>	<b>165,965</b>	<b>507,740</b>

– Data not available.

Notes: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, "U.S. Coal Reserves: A Review and Update (DOE/EIA-0529(97)), August, 1998.

# Producer/Distributor Stocks

**Table 34. Year-End Producer and Distributor Coal Stocks by State, 1995-1999**

(Thousand Short Tons)

Coal-Producing State and Region	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
Alabama .....	2,172	1,636	1,289	1,031	1,358	32.8	12.5
Alaska .....	22	29	25	6	26	-25.0	-4.3
Arizona .....	1,229	2,077	2,911	2,232	2,760	-40.8	-18.3
Arkansas .....	*	*	2	1	4	-	-42.7
Colorado .....	1,661	1,594	1,364	494	1,063	4.2	11.8
Illinois .....	1,049	952	1,358	1,190	2,069	10.1	-15.6
Indiana .....	521	672	698	574	611	-22.4	-3.9
Kansas .....	-	-	-	19	27	-	-
Kentucky Total .....	5,510	4,651	5,376	4,460	4,777	18.5	3.6
Eastern .....	4,167	3,256	4,622	3,720	4,088	28.0	.5
Western .....	1,343	1,394	754	740	689	-3.7	18.1
Louisiana .....	215	57	152	38	309	276.1	-8.7
Maryland .....	252	266	271	143	269	-5.4	-1.7
Missouri .....	-	1	1	-	-	-100.0	-
Montana .....	603	745	682	580	718	-19.0	-4.3
New Mexico .....	2,528	1,916	1,023	1,890	2,015	32.0	5.8
North Dakota .....	2,561	2,364	1,965	1,574	1,797	8.3	9.3
Ohio .....	800	1,276	774	532	1,374	-37.3	-12.6
Oklahoma .....	-	*	*	7	2	-100.0	-
Pennsylvania Total .....	2,134	2,682	2,507	3,113	2,487	-20.4	-3.8
Anthracite .....	795	643	486	1,323	389	23.5	19.5
Bituminous .....	1,339	2,039	2,021	1,790	2,098	-34.3	-10.6
Tennessee .....	29	36	32	23	88	-18.9	-24.2
Texas .....	1,187	1,319	1,506	1,254	864	-10.0	8.3
Utah .....	2,147	1,809	2,112	1,337	1,946	18.7	2.5
Virginia .....	2,240	2,565	2,328	1,644	1,649	-12.6	8.0
Washington .....	-	-	56	55	59	-	-
West Virginia Total .....	6,697	6,008	5,504	4,947	6,176	11.5	2.0
Northern .....	1,446	1,282	858	584	1,959	12.8	-7.3
Southern .....	5,251	4,726	4,645	4,362	4,217	11.1	5.6
Wyoming .....	5,917	3,873	2,036	1,504	1,997	52.8	31.2
<b>Appalachian Total<sup>1</sup> .....</b>	<b>18,492</b>	<b>17,726</b>	<b>17,327</b>	<b>15,153</b>	<b>17,489</b>	<b>4.3</b>	<b>1.4</b>
<b>Interior Total<sup>1</sup> .....</b>	<b>4,315</b>	<b>4,396</b>	<b>4,471</b>	<b>3,823</b>	<b>4,575</b>	<b>-1.8</b>	<b>-1.4</b>
<b>Western Total<sup>1</sup> .....</b>	<b>16,668</b>	<b>14,408</b>	<b>12,174</b>	<b>9,672</b>	<b>12,381</b>	<b>15.7</b>	<b>7.7</b>
<b>East of Miss. River .....</b>	<b>21,404</b>	<b>20,745</b>	<b>20,138</b>	<b>17,657</b>	<b>20,858</b>	<b>3.2</b>	<b>.6</b>
<b>West of Miss. River .....</b>	<b>18,071</b>	<b>15,785</b>	<b>13,835</b>	<b>10,991</b>	<b>13,587</b>	<b>14.5</b>	<b>7.4</b>
<b>U.S. Total .....</b>	<b>39,475</b>	<b>36,530</b>	<b>33,973</b>	<b>28,648</b>	<b>34,444</b>	<b>8.1</b>	<b>3.5</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

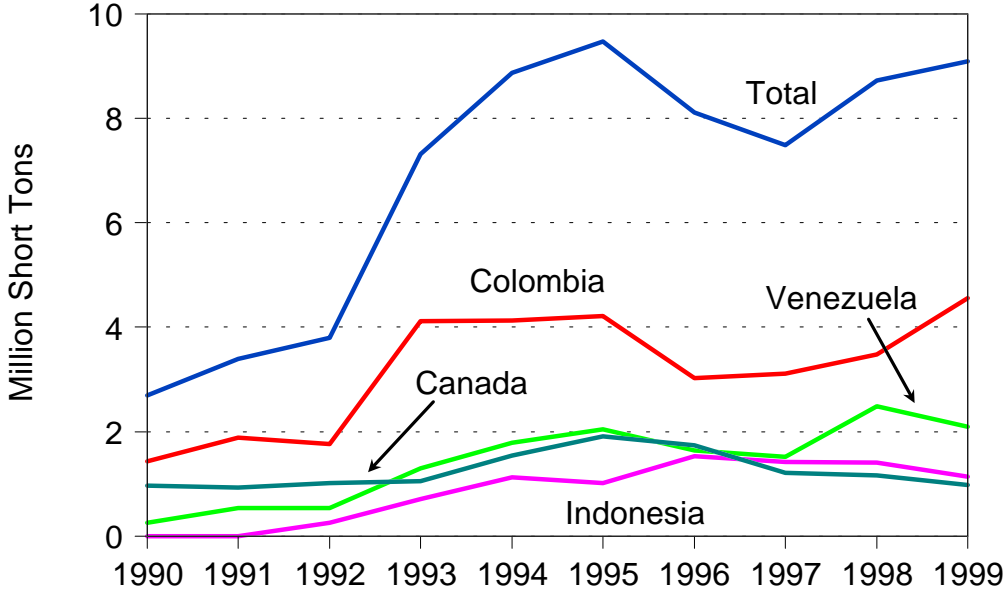
\* Data round to zero.

Note: Totals may not equal sum of components due to independent rounding.

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

# Imports

Figure 3. U.S. Coal Imports, 1990-1999



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



**Table 35. U.S. Coal Imports by Continent and Country of Origin, 1990, 1995-1999**  
(Short Tons)

Continent and Country of Origin	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>1,052,307</b>	<b>1,168,361</b>	<b>1,211,910</b>	<b>1,745,053</b>	<b>1,948,632</b>	<b>979,220</b>	<b>-9.9</b>	<b>-14.3</b>	<b>0.8</b>
Canada .....	978,826	1,166,397	1,211,557	1,737,744	1,916,140	973,016	-16.1	-15.4	.1
Mexico .....	73,481	1,964	353	7,309	7,836	6,204	NM	75.0	31.6
Netherlands Antilles.....	-	-	-	-	24,656	-	-	-100.0	-
<b>South America Total</b> .....	<b>6,643,913</b>	<b>5,960,370</b>	<b>4,631,213</b>	<b>4,667,817</b>	<b>6,251,294</b>	<b>1,690,987</b>	<b>11.5</b>	<b>1.5</b>	<b>16.4</b>
Argentina .....	232	-	13	-	-	-	-	-	-
Brazil .....	33	-	-	-	-	-	-	-	-
Colombia .....	4,553,408	3,478,185	3,117,122	3,026,598	4,210,265	1,428,147	30.9	2.0	13.8
Venezuela .....	2,090,240	2,482,185	1,514,078	1,641,219	2,041,029	262,840	-15.8	.6	25.9
<b>Europe Total</b> .....	<b>72,636</b>	<b>43,572</b>	<b>26,635</b>	<b>2,613</b>	<b>522</b>	<b>5,392</b>	<b>66.7</b>	<b>243.4</b>	<b>33.5</b>
Belgium & Luxembourg.....	10,654	3,983	6,016	2,473	-	-	167.5	-	-
Denmark .....	-	-	-	-	236	130	-	-100.0	-100.0
Germany, FR.....	-	-	20	-	-	1	-	-	-100.0
Italy.....	1	36	-	-	-	-	-97.2	-	-
Norway .....	-	-	20,383	-	-	46	-	-	-100.0
Russia .....	945	-	-	-	-	-	-	-	-
Spain.....	-	36,432	-	99	-	-	-100.0	-	-
Switzerland.....	-	-	201	-	-	-	-	-	-
Turkey.....	-	-	-	41	-	-	-	-	-
United Kingdom.....	61,036	3,121	15	-	286	5,215	NM	282.2	31.4
<b>Asia Total</b> .....	<b>1,159,011</b>	<b>1,416,281</b>	<b>1,460,503</b>	<b>1,534,989</b>	<b>1,018,512</b>	<b>2</b>	<b>-18.2</b>	<b>3.3</b>	<b>336.8</b>
China (Mainland) .....	20,239	2,566	2,006	-	53	-	NM	342.0	-
Hong Kong .....	-	10	-	1	-	-	-100.0	-	-
India.....	577	-	-	-	-	-	-	-	-
Indonesia.....	1,138,076	1,413,704	1,425,916	1,534,986	1,018,433	-	-19.5	2.8	-
Japan.....	-	1	-	2	26	2	-100.0	-100.0	-100.0
Syria.....	118	-	-	-	-	-	-	-	-
Vietnam .....	-	-	32,581	-	-	-	-	-	-
<b>Oceania &amp; Australia Total</b> .....	<b>161,466</b>	<b>135,099</b>	<b>156,515</b>	<b>164,793</b>	<b>254,141</b>	<b>23,794</b>	<b>19.5</b>	<b>-10.7</b>	<b>23.7</b>
Australia .....	161,466	92,660	115,510	164,793	211,702	23,794	74.3	-6.5	23.7
New Zealand .....	-	42,439	41,005	-	42,439	-	-100.0	-100.0	-
<b>Total</b> .....	<b>9,089,333</b>	<b>8,723,683</b>	<b>7,486,776</b>	<b>8,115,265</b>	<b>9,473,101</b>	<b>2,699,395</b>	<b>4.2</b>	<b>-1.0</b>	<b>14.4</b>

NM Not meaningful as value is greater than 500 percent.  
 Note: Coal imports include coal to Puerto Rico and the Virgin Islands.  
 Source: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145."

**Table 36. Coal Imports by Customs District, 1990, 1995-1999**  
(Short Tons)

Customs District	1999	1998	1997	1996	1995	1990	Percent Change 1998- 1999	Average Annual Percent Change	
								1995- 1999	1990- 1999
<b>Eastern Total</b> .....	<b>2,497,300</b>	<b>2,418,583</b>	<b>2,508,318</b>	<b>2,664,213</b>	<b>2,465,545</b>	<b>351,348</b>	<b>3.3</b>	<b>0.3</b>	<b>24.3</b>
Boston, MA .....	1,467,213	1,439,079	1,533,510	1,803,234	1,484,886	139,771	1.9	-3	29.8
Baltimore, MD .....	28,862	-	-	99	28,328	-	-	.5	-
Portland, ME .....	516,893	367,609	366,768	362,601	557,147	143,868	40.6	-1.8	15.3
Buffalo, NY .....	10,959	3,992	6,060	2,658	2,034	69	174.5	52.3	75.6
New York City, NY .....	472,320	512,213	518,043	404,387	337,751	1	-7.8	8.7	327.0
Ogdensburg, NY .....	-	19	-	50	-	45	-100.0	-	-100.0
Philadelphia, PA .....	1,053	95,671	83,918	91,184	55,399	67,594	-98.9	-62.9	-37.0
Norfolk, VA .....	-	-	19	-	-	-	-	-	-
<b>Southern Total</b> .....	<b>4,920,974</b>	<b>4,447,422</b>	<b>2,985,167</b>	<b>2,903,372</b>	<b>4,246,556</b>	<b>1,384,974</b>	<b>10.6</b>	<b>3.8</b>	<b>15.1</b>
Mobile, AL .....	1,864,915	884,788	214,241	446,590	1,238,203	-	110.8	10.8	-
Savannah, GA .....	507,272	374,677	178,085	118,509	-	-	35.4	-	-
Miami, FL .....	-	90,381	38,604	-	26,035	-	-100.0	-100.0	-
Tampa, FL .....	1,380,683	1,671,217	1,320,515	1,419,408	2,292,328	1,058,354	-17.4	-11.9	3.0
New Orleans, LA .....	714,595	946,756	840,919	808,592	387,861	-	-24.5	16.5	-
Wilmington, NC .....	-	-	-	-	-	46	-	-	-100.0
San Juan, PR .....	266,527	195,162	201,413	96,901	272,296	234,989	36.6	-5	1.4
Houston-Galveston, TX .....	-	165,853	154,865	6,063	-	5,215	-100.0	-	-100.0
Laredo, TX .....	73,481	1,964	353	7,309	7,787	6,204	NM	75.3	31.6
Virgin Islands .....	113,501	116,624	36,172	-	22,046	80,166	-2.7	50.6	3.9
<b>Western Total</b> .....	<b>997,940</b>	<b>812,443</b>	<b>862,053</b>	<b>900,701</b>	<b>943,069</b>	<b>96,480</b>	<b>22.8</b>	<b>1.4</b>	<b>29.6</b>
Los Angeles, CA .....	22	4	149	2	-	2	450.0	-	30.5
San Diego, CA .....	-	1	-	-	49	-	-100.0	-100.0	-
Honolulu, HI .....	689,954	681,812	759,385	810,176	844,785	23,794	1.2	-4.9	45.4
Great Falls, MT .....	151,335	-	282	25	645	42,017	-	291.4	15.3
Portland, OR .....	-	6,992	20,383	-	-	-	-100.0	-	-
Seattle, WA .....	156,629	123,634	81,854	90,498	97,590	30,667	26.7	12.5	19.9
<b>Northern Total</b> .....	<b>673,119</b>	<b>1,045,235</b>	<b>1,131,238</b>	<b>1,646,979</b>	<b>1,817,931</b>	<b>866,593</b>	<b>-35.6</b>	<b>-22.0</b>	<b>-2.8</b>
Chicago, IL .....	44	66,829	329,778	238,592	64,394	316,534	-99.9	-83.8	-62.7
Detroit, MI .....	389,010	415,127	388,678	615,262	842,851	-	-6.3	-17.6	-
Duluth, MN .....	17,591	-	416	291,346	244,278	-	-	-48.2	-
Pembina, ND .....	264,164	560,779	410,509	501,778	666,408	550,059	-52.9	-20.6	-7.8
Milwaukee, WI .....	2,310	2,500	1,857	-	-	-	-7.6	-	-
<b>Total</b> .....	<b>9,089,333</b>	<b>8,723,683</b>	<b>7,486,776</b>	<b>8,115,265</b>	<b>9,473,101</b>	<b>2,699,395</b>	<b>4.2</b>	<b>-1.0</b>	<b>14.4</b>

NM Not meaningful as value is greater than 500 percent.  
Source: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145."

**Table 37. U.S. Receipts of Imported Coal by Country of Origin and Destination State, 1990, 1995-1999**  
(Short Tons)

Country of Origin and Destination State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999
<b>Australia Total</b> .....	<b>161,480</b>	<b>92,676</b>	<b>155,632</b>	<b>147,204</b>	<b>211,099</b>	-	<b>74.2</b>
Florida .....	62,910	-	-	-	-	-	-
Hawaii .....	98,570	92,676	155,632	147,204	211,099	-	6.3
<b>Canada Total</b> .....	<b>762,804</b>	<b>1,424,942</b>	<b>893,900</b>	<b>1,332,243</b>	<b>1,401,960</b>	<b>33,600</b>	<b>-46.5</b>
Illinois .....	29,963	60,627	147,967	215,959	222,876	-	-50.6
Indiana .....	193,342	976,153	474,369	735,342	760,508	-	-80.2
Michigan .....	355,377	355,100	229,464	361,458	393,367	-	.1
New Hampshire .....	-	-	-	-	-	33,600	-
Ohio .....	-	-	652	1,454	1,410	-	-
Utah .....	145,727	-	-	-	-	-	-
Washington .....	38,395	33,062	41,448	18,030	23,799	-	16.1
<b>Colombia Total</b> .....	<b>2,582,799</b>	<b>2,710,318</b>	<b>2,958,645</b>	<b>2,285,840</b>	<b>2,202,005</b>	<b>1,112,470</b>	<b>-4.7</b>
Alabama .....	692,072	169,344	214,251	160,675	161,950	-	308.7
Delaware .....	-	-	-	-	7,143	-	-
Florida .....	1,119,310	1,909,354	1,385,340	1,417,220	1,340,640	1,007,670	-41.4
Maine .....	-	-	-	45,220	-	-	-
Maryland .....	29,000	-	-	-	-	-	-
Massachusetts .....	-	467,100	1,077,600	630,400	557,900	104,800	-100.0
Mississippi .....	701,300	-	-	-	-	-	-
New Hampshire .....	-	34,680	35,360	32,325	134,372	-	-100.0
New York .....	36,300	34,800	147,050	-	-	-	4.3
Texas .....	-	84,119	99,044	-	-	-	-100.0
Washington .....	-	10,921	-	-	-	-	-100.0
West Virginia .....	4,817	-	-	-	-	-	-
<b>Indonesia Total</b> .....	<b>387,627</b>	<b>899,517</b>	<b>782,035</b>	<b>833,706</b>	<b>428,554</b>	-	<b>-56.9</b>
Florida .....	387,627	596,979	741,264	807,803	348,854	-	-35.1
Louisiana .....	-	302,538	-	-	-	-	-100.0
New Hampshire .....	-	-	40,771	25,903	79,700	-	-
<b>Mexico Total</b> .....	<b>68,809</b>	-	-	<b>15,561</b>	-	-	-
Texas .....	68,809	-	-	15,561	-	-	-
<b>Poland Total</b> .....	<b>3,970</b>	-	-	-	-	-	-
New Jersey .....	3,970	-	-	-	-	-	-
<b>Venezuela Total</b> .....	<b>2,111,492</b>	<b>2,415,581</b>	<b>1,409,628</b>	<b>1,861,504</b>	<b>2,073,645</b>	<b>220,100</b>	<b>-12.6</b>
Connecticut .....	35,000	106,000	35,000	28,000	-	-	-67.0
Florida .....	493,806	235,155	58,643	298,200	891,400	40,100	110.0
Georgia .....	434,220	414,490	279,139	209,907	-	-	4.8
Maine .....	35,532	-	2,708	13,966	81,392	-	-
Massachusetts .....	-	471,600	382,900	1,135,500	903,700	69,800	-100.0
Mississippi .....	15,560	173,670	-	-	-	-	-91.0
New Hampshire .....	506,894	331,371	228,969	96,033	82,425	110,200	53.0
New Jersey .....	980	39,000	-	-	-	-	-97.5
New York .....	589,500	558,800	350,400	-	28,189	-	5.5
Pennsylvania .....	-	-	71,869	79,898	86,539	-	-
Texas .....	-	85,495	-	-	-	-	-100.0
<b>Total</b> .....	<b>6,078,981</b>	<b>7,543,034</b>	<b>6,199,840</b>	<b>6,476,058</b>	<b>6,317,263</b>	<b>1,366,170</b>	<b>-19.4</b>
Alabama .....	692,072	169,344	214,251	160,675	161,950	-	308.7
Connecticut .....	35,000	106,000	35,000	28,000	-	-	-67.0
Delaware .....	-	-	-	-	7,143	-	-
Florida .....	2,063,653	2,741,488	2,185,247	2,523,223	2,580,894	1,047,770	-24.7
Georgia .....	434,220	414,490	279,139	209,907	-	-	4.8
Hawaii .....	98,570	92,676	155,632	147,204	211,099	-	6.3
Illinois .....	29,963	60,627	147,967	215,959	222,876	-	-50.6
Indiana .....	193,342	976,153	474,369	735,342	760,508	-	-80.2
Louisiana .....	-	302,538	-	-	-	-	-100.0
Maine .....	35,532	-	2,708	59,186	81,392	-	-
Maryland .....	29,000	-	-	-	-	-	-
Massachusetts .....	-	938,700	1,460,500	1,765,900	1,461,600	174,600	-100.0
Michigan .....	355,377	355,100	229,464	361,458	393,367	-	.1
Mississippi .....	716,860	173,670	-	-	-	-	312.8
New Hampshire .....	506,894	366,051	305,100	154,261	296,497	143,800	38.5
New Jersey .....	4,950	39,000	-	-	-	-	-87.3
New York .....	625,800	593,600	497,450	-	28,189	-	5.4
Ohio .....	-	-	652	1,454	1,410	-	-

See footnotes at end of table.

**Table 37. U.S. Receipts of Imported Coal by Country of Origin and Destination State, 1990, 1995-1999 (Continued)**  
(Short Tons)

Country of Origin and Destination State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999
<b>Total (Continued)</b>							
Pennsylvania .....	-	-	71,869	79,898	86,539	-	-
Texas .....	68,809	169,614	99,044	15,561	-	-	-59.4
Utah .....	145,727	-	-	-	-	-	-
Washington .....	38,395	43,983	41,448	18,030	23,799	-	-12.7
West Virginia .....	4,817	-	-	-	-	-	-

Notes: Data for 1990 are only for receipts at electric utilities. Data for 1995 through 1999 are for receipts at electric utilities, manufacturing plants and coke plants. See Table 38 and Table 39 for related data. See Technical Note 1 for the difference between receipts of imported coal and U.S. coal imports.

Sources: 1990: Federal Energy Regulatory Commission (FERC), FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants." 1995-1999: Energy Information Administration, Form EIA-3A, "Annual Coal Quality Report - Manufacturing Plants"; Form EIA-5A, "Annual Coal Quality Report - Coke Plants"; and FERC, FERC Form 423, "Monthly Report of Cost and Quality of Fuels for Electric Plants."

**Table 38. Imported Coal Received at Electric Utilities by Country of Origin and Destination State, 1990, 1995-1999**  
(Short Tons)

Country of Origin and Destination State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Australia Total</b> .....	<b>62,910</b>	-	-	-	-	-	-	-	-
Florida .....	62,910	-	-	-	-	-	-	-	-
<b>Canada Total</b> .....	-	-	<b>9,590</b>	<b>18,030</b>	<b>23,799</b>	<b>33,600</b>	-	<b>-400.0</b>	<b>-100.0</b>
New Hampshire.....	-	-	-	-	-	33,600	-	-	-100.0
Washington.....	-	-	9,590	18,030	23,799	-	-	-400.0	-
<b>Colombia Total</b> .....	<b>2,438,953</b>	<b>2,530,053</b>	<b>2,744,394</b>	<b>2,079,945</b>	<b>2,040,055</b>	<b>1,112,470</b>	<b>103.7</b>	<b>-23.6</b>	<b>82.7</b>
Alabama.....	553,043	-	-	-	-	-	-	-	-
Delaware.....	-	-	-	-	7,143	-	-	-100.0	-
Florida .....	1,119,310	1,909,354	1,385,340	1,417,220	1,340,640	1,007,670	-342.2	-167.8	-83.5
Maryland .....	29,000	-	-	-	-	-	-	-	-
Massachusetts.....	-	467,100	1,077,600	630,400	557,900	104,800	NM	NM	-300.0
Mississippi.....	701,300	-	-	-	-	-	-	-	-
New Hampshire.....	-	34,680	35,360	32,325	134,372	-	-100.0	-400.0	-
New York.....	36,300	34,800	147,050	-	-	-	4.3	-	-
Texas .....	-	84,119	99,044	-	-	-	NM	-	-
<b>Indonesia Total</b> .....	<b>387,627</b>	<b>899,517</b>	<b>782,035</b>	<b>833,706</b>	<b>428,554</b>	-	<b>NM</b>	<b>NM</b>	-
Florida .....	387,627	596,979	741,264	807,803	348,854	-	NM	-400.0	-
Louisiana .....	-	302,538	-	-	-	-	-200.0	-	-
New Hampshire.....	-	-	40,771	25,903	79,700	-	-	-200.0	-
<b>Poland Total</b> .....	<b>3,970</b>	-	-	-	-	-	-	-	-
New Jersey .....	3,970	-	-	-	-	-	-	-	-
<b>Venezuela Total</b> .....	<b>2,075,960</b>	<b>2,415,581</b>	<b>1,335,051</b>	<b>1,767,640</b>	<b>1,905,714</b>	<b>220,100</b>	<b>NM</b>	<b>NM</b>	<b>85.1</b>
Connecticut.....	35,000	106,000	35,000	28,000	-	-	-300.0	-	-
Florida .....	493,806	235,155	58,643	298,200	891,400	40,100	NM	NM	11.4
Georgia .....	434,220	414,490	279,139	209,907	-	-	-36.8	-	-
Massachusetts.....	-	471,600	382,900	1,135,500	903,700	69,800	NM	NM	-200.0
Mississippi.....	15,560	173,670	-	-	-	-	-285.6	-	-
New Hampshire.....	506,894	331,371	228,969	96,033	82,425	110,200	205.5	9.4	-87.7
New Jersey .....	980	39,000	-	-	-	-	-100.0	-	-
New York.....	589,500	558,800	350,400	-	28,189	-	-19.2	7.5	-
Texas .....	-	85,495	-	-	-	-	-400.0	-	-
<b>Total</b> .....	<b>4,969,420</b>	<b>5,845,151</b>	<b>4,871,070</b>	<b>4,699,321</b>	<b>4,398,122</b>	<b>1,366,170</b>	<b>-15.0</b>	<b>3.1</b>	<b>15.4</b>
Alabama.....	553,043	-	-	-	-	-	-	-	-
Connecticut.....	35,000	106,000	35,000	28,000	-	-	-67.0	-	-
Delaware.....	-	-	-	-	7,143	-	-	-100.0	-
Florida .....	2,063,653	2,741,488	2,185,247	2,523,223	2,580,894	1,047,770	-24.7	-5.4	7.8
Georgia .....	434,220	414,490	279,139	209,907	-	-	4.8	-	-
Louisiana .....	-	302,538	-	-	-	-	-100.0	-	-
Maryland .....	29,000	-	-	-	-	-	-	-	-
Massachusetts.....	-	938,700	1,460,500	1,765,900	1,461,600	174,600	-100.0	-100.0	-100.0
Mississippi.....	716,860	173,670	-	-	-	-	312.8	-	-
New Hampshire.....	506,894	366,051	305,100	154,261	296,497	143,800	38.5	14.3	15.0
New Jersey .....	4,950	39,000	-	-	-	-	-87.3	-	-
New York.....	625,800	593,600	497,450	-	28,189	-	5.4	117.1	-
Texas .....	-	169,614	99,044	-	-	-	-100.0	-	-
Washington.....	-	-	9,590	18,030	23,799	-	-	-100.0	-

NM Not meaningful as value is greater than 500 percent.

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

**Table 39. Imported Coal Received at Manufacturing and Coke Plants by Country of Origin and Destination State, 1997-1999**  
(Short Tons)

Country of Origin and Destination State	Manufacturing			Coke Plants			Total			Percent Change 1998-1999
	1999	1998	1997	1999	1998	1997	1999	1998	1997	
<b>Australia Total</b> .....	<b>98,570</b>	<b>92,676</b>	<b>155,632</b>	-	-	-	<b>98,570</b>	<b>92,676</b>	<b>155,632</b>	<b>6.4</b>
Hawaii .....	98,570	92,676	155,632	-	-	-	98,570	92,676	155,632	6.4
<b>Canada Total</b> .....	<b>38,395</b>	<b>33,062</b>	<b>32,510</b>	<b>724,409</b>	<b>1,391,880</b>	<b>851,800</b>	<b>762,804</b>	<b>1,424,942</b>	<b>884,310</b>	<b>-46.5</b>
Illinois .....	-	-	-	29,963	60,627	147,967	29,963	60,627	147,967	-50.6
Indiana .....	-	-	-	193,342	976,153	474,369	193,342	976,153	474,369	-80.2
Michigan .....	-	-	-	355,377	355,100	229,464	355,377	355,100	229,464	.1
Ohio .....	-	-	652	-	-	-	-	-	652	-
Utah .....	-	-	-	145,727	-	-	145,727	-	-	-
Washington .....	38,395	33,062	31,858	-	-	-	38,395	33,062	31,858	16.1
<b>Colombia Total</b> .....	<b>143,846</b>	<b>180,265</b>	<b>214,251</b>	-	-	-	<b>143,846</b>	<b>180,265</b>	<b>214,251</b>	<b>-20.2</b>
Alabama .....	139,029	169,344	214,251	-	-	-	139,029	169,344	214,251	-17.9
Maine .....	-	-	-	-	-	-	-	-	-	-
Washington .....	-	10,921	-	-	-	-	-	10,921	-	-100.0
West Virginia .....	4,817	-	-	-	-	-	4,817	-	-	-
<b>Mexico Total</b> .....	<b>68,809</b>	-	-	-	-	-	<b>68,809</b>	-	-	-
Texas .....	68,809	-	-	-	-	-	68,809	-	-	-
<b>Venezuela Total</b> .....	<b>35,532</b>	-	<b>74,577</b>	-	-	-	<b>35,532</b>	-	<b>74,577</b>	-
Maine .....	35,532	-	2,708	-	-	-	35,532	-	2,708	-
Pennsylvania .....	-	-	71,869	-	-	-	-	-	71,869	-
<b>Total</b> .....	<b>385,152</b>	<b>306,003</b>	<b>476,970</b>	<b>724,409</b>	<b>1,391,880</b>	<b>851,800</b>	<b>1,109,561</b>	<b>1,697,883</b>	<b>1,328,770</b>	<b>-34.7</b>
Alabama .....	139,029	169,344	214,251	-	-	-	139,029	169,344	214,251	-17.9
Hawaii .....	98,570	92,676	155,632	-	-	-	98,570	92,676	155,632	6.4
Illinois .....	-	-	-	29,963	60,627	147,967	29,963	60,627	147,967	-50.6
Indiana .....	-	-	-	193,342	976,153	474,369	193,342	976,153	474,369	-80.2
Maine .....	35,532	-	2,708	-	-	-	35,532	-	2,708	-
Michigan .....	-	-	-	355,377	355,100	229,464	355,377	355,100	229,464	.1
Ohio .....	-	-	652	-	-	-	-	-	652	-
Pennsylvania .....	-	-	71,869	-	-	-	-	-	71,869	-
Texas .....	68,809	-	-	-	-	-	68,809	-	-	-
Utah .....	-	-	-	145,727	-	-	145,727	-	-	-
Washington .....	38,395	43,983	31,858	-	-	-	38,395	43,983	31,858	-12.7
West Virginia .....	4,817	-	-	-	-	-	4,817	-	-	-

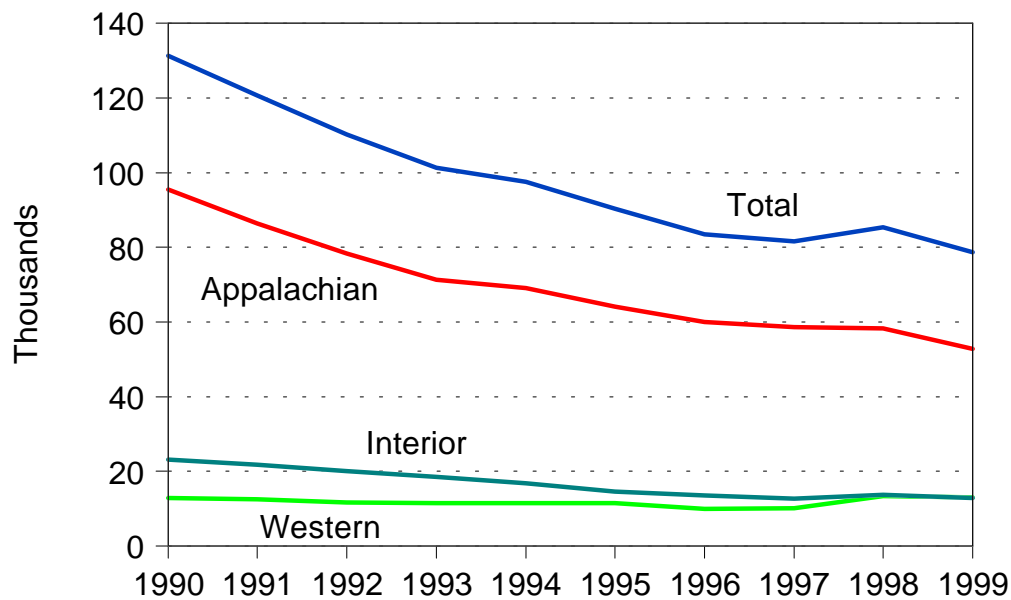
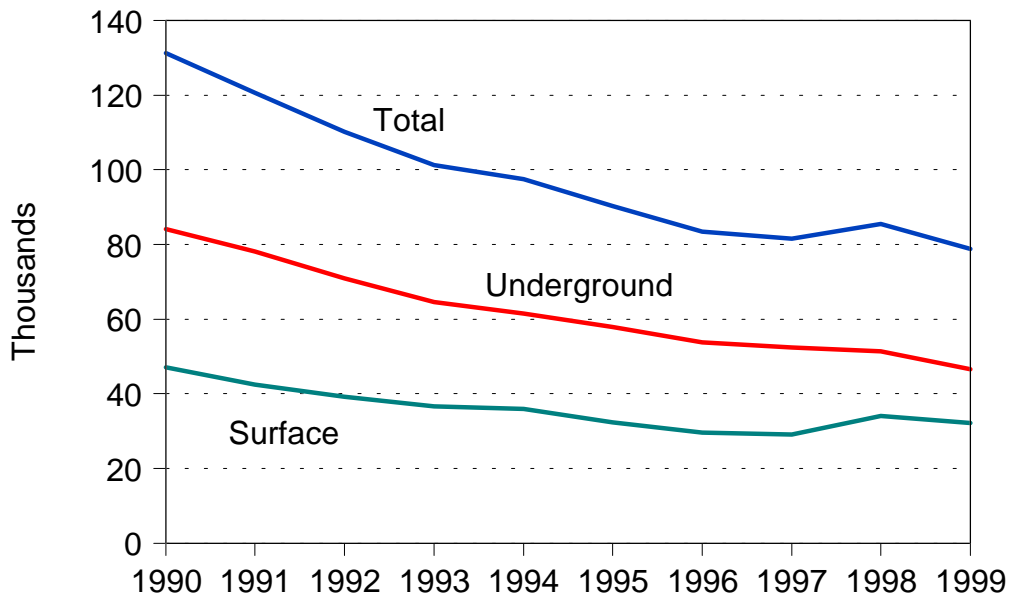
Sources: Energy Information Administration, Form EIA-3A, "Annual Coal Quality Report - Manufacturing Plants"; and Form EIA-5A, "Annual Coal Quality Report - Coke Plants."

# Employment and Productivity

# Employment



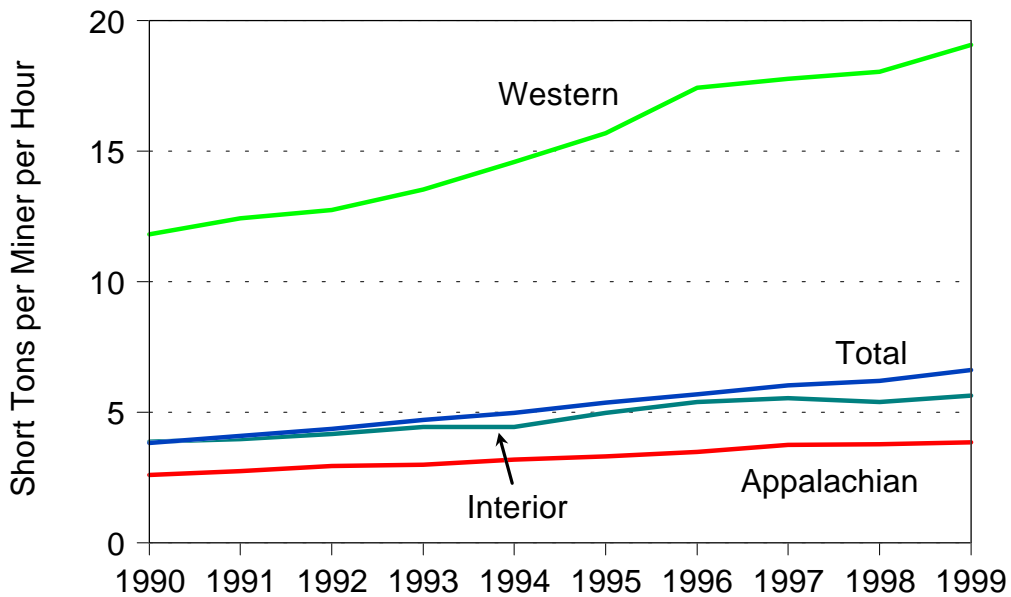
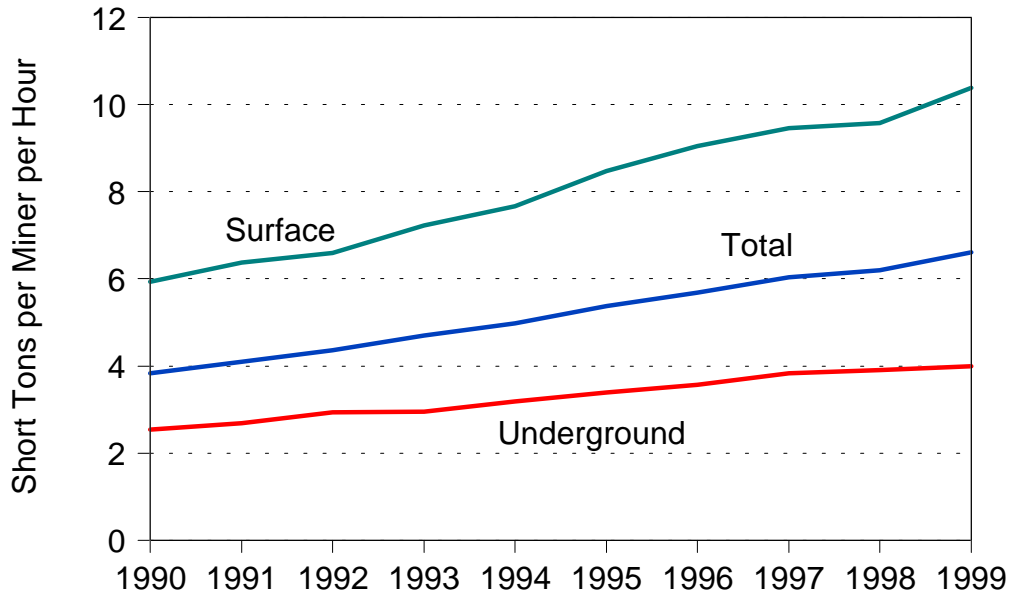
**Figure 4. Average Number of U.S. Employees/Miners by Mine Type and by Region, 1990-1999**



Notes: Scale has been enlarged to show detail in the short tons per miner per hour by type of mining plot. Because vertical scales differ, graphs should not be compared; excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite; excludes mines producing less than 10,000 short tons of coal during the year and preparation plants with less than 5,000 employee hours; includes all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations; excludes office workers; includes mining operations management and all technical and engineering personnel. Short tons produced per miner per hour is calculated by dividing total coal production by the direct labor hours worked by all mine employees.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Figure 5. U.S. Coal Mining Productivity by Mine Type and by Region, 1990-1999**



Notes: Scale has been enlarged to show detail in the short tons per miner per hour by type of mining plot. Because vertical scales differ, graphs should not be compared; excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite; excludes mines producing less than 10,000 short tons of coal during the year and preparation plants with less than 5,000 employee hours; includes all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations; excludes office workers; includes mining operations management and all technical and engineering personnel. Short tons produced per miner per hour is calculated by dividing total coal production by the direct labor hours worked by all mine employees.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 40. Average Number of Employees/Miners by State, 1990, 1995-1999**

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	4,183	R 4,875	4,928	5,031	5,567	6,534	-14.2	-6.9	-4.8
Alaska.....	120	R 122	99	102	102	84	-1.6	4.1	4.0
Arizona.....	732	R 747	676	651	831	951	-2.0	-3.1	-2.9
Arkansas.....	4	R 4	2	-	4	13	-	-	-12.3
California.....	-	-	-	-	-	5	-	-	-
Colorado.....	1,863	R 1,845	1,362	1,332	1,777	2,009	1.0	1.2	-8
Illinois.....	4,323	R 4,297	4,612	5,174	5,652	10,018	.6	-6.5	-8.9
Indiana.....	2,633	R 2,930	2,712	2,579	2,571	4,195	-10.1	.6	-5.0
Iowa.....	-	-	-	-	-	135	-	-	-
Kansas.....	18	R 19	67	54	54	132	-5.3	-24.0	-19.8
Kentucky Total.....	17,211	R 18,927	18,937	18,826	21,125	30,498	-9.1	-5.0	-6.1
Eastern.....	14,287	R 15,417	15,422	15,130	16,840	24,912	-7.3	-4.0	-6.0
Western.....	2,924	R 3,510	3,515	3,696	4,285	5,586	-16.7	-9.1	-6.9
Louisiana.....	176	R 176	114	111	114	103	-	11.5	6.1
Maryland.....	449	R 454	458	469	458	589	-1.1	-5	-3.0
Mississippi.....	45	-	-	-	-	-	-	-	-
Missouri.....	57	R 76	51	80	92	347	-25.0	-11.3	-18.2
Montana.....	927	R 925	708	705	722	821	.2	6.4	1.3
New Mexico.....	1,687	R 1,734	1,339	1,347	1,747	1,472	-2.7	-9	1.5
North Dakota.....	925	R 928	657	640	716	931	-3	6.6	-1
Ohio.....	3,069	R 3,415	3,124	3,232	3,386	5,866	-10.1	-2.4	-6.9
Oklahoma.....	205	R 197	269	233	241	415	4.1	-4.0	-7.5
Pennsylvania Total.....	9,318	R 9,915	9,575	9,021	8,968	15,903	-6.0	1.0	-5.8
Anthracite.....	1,326	R 1,281	1,287	1,171	1,069	1,687	3.5	5.5	-2.6
Bituminous.....	7,992	R 8,634	8,288	7,850	7,899	14,216	-7.4	.3	-6.2
Tennessee.....	566	R 533	707	756	681	1,697	6.2	-4.5	-11.5
Texas.....	2,464	R 2,523	1,363	1,550	1,590	2,131	-2.3	11.6	1.6
Utah.....	1,837	R 2,072	1,922	1,804	1,893	2,434	-11.3	-7	-3.1
Virginia.....	5,450	R 5,887	6,235	6,241	6,919	10,342	-7.4	-5.8	-6.9
Washington.....	513	R 548	577	589	566	777	-6.4	-2.4	-4.5
West Virginia Total.....	15,536	R 17,822	18,245	20,121	21,334	29,578	-12.8	-7.6	-6.9
Northern.....	3,906	R 4,268	4,980	5,279	6,114	10,053	-8.5	-10.6	-10.0
Southern.....	11,630	R 13,554	13,265	14,842	15,220	19,525	-14.2	-6.5	-5.6
Wyoming.....	4,412	R 4,447	2,777	2,814	3,142	3,330	-8	8.8	3.2
<b>Appalachian Total<sup>1</sup>.....</b>	<b>52,858</b>	<b>R 58,318</b>	<b>58,694</b>	<b>60,001</b>	<b>64,153</b>	<b>95,421</b>	<b>-9.4</b>	<b>-4.7</b>	<b>-6.3</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>12,849</b>	<b>R 13,732</b>	<b>12,705</b>	<b>13,477</b>	<b>14,603</b>	<b>23,075</b>	<b>-6.4</b>	<b>-3.1</b>	<b>-6.3</b>
<b>Western Total<sup>1</sup>.....</b>	<b>13,016</b>	<b>R 13,368</b>	<b>10,117</b>	<b>9,984</b>	<b>11,496</b>	<b>12,814</b>	<b>-2.6</b>	<b>3.1</b>	<b>.2</b>
<b>East of Miss. River.....</b>	<b>62,783</b>	<b>R 69,055</b>	<b>69,533</b>	<b>71,450</b>	<b>76,661</b>	<b>115,220</b>	<b>-9.1</b>	<b>-4.9</b>	<b>-6.5</b>
<b>West of Miss. River.....</b>	<b>15,940</b>	<b>R 16,363</b>	<b>11,983</b>	<b>12,012</b>	<b>13,591</b>	<b>16,090</b>	<b>-2.6</b>	<b>4.1</b>	<b>-1</b>
<b>U.S. Total.....</b>	<b>78,723</b>	<b>R 85,418</b>	<b>81,516</b>	<b>83,462</b>	<b>90,252</b>	<b>131,310</b>	<b>-7.8</b>	<b>-3.3</b>	<b>-5.5</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

R Revised Data.

Notes: Includes all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers for 1998 forward. For 1997 and prior years, includes mining operations management and all technical and engineering personnel, excluding office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons and preparation plants with less than 5,000 employee hours, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 41. Average Number of Employees/Miners at Underground Mines by State, 1990, 1995-1999**

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	3,366	R 3,911	4,014	4,145	4,314	4,395	-13.9	-6.0	-2.9
Colorado.....	1,246	R 1,230	923	918	1,301	1,509	1.3	-1.1	-2.1
Illinois.....	3,895	R 3,798	4,044	4,256	4,780	7,407	2.5	-5.0	-6.9
Indiana.....	412	R 401	411	457	485	524	2.7	-4.0	-2.6
Kentucky Total.....	11,623	R 12,687	12,947	12,876	14,542	20,898	-8.4	-5.4	-6.3
Eastern.....	9,314	R 9,924	10,369	10,275	11,366	17,407	-6.1	-4.8	-6.7
Western.....	2,309	R 2,763	2,578	2,601	3,176	3,491	-16.4	-7.7	-4.5
Maryland.....	312	R 292	304	308	293	288	6.8	1.6	.9
Montana.....	-	-	-	18	-	-	-	-	-
New Mexico.....	15	R 32	-	-	132	10	-53.1	-41.9	4.6
Ohio.....	1,645	R 1,796	1,759	1,706	1,670	2,603	-8.4	-4	-5.0
Oklahoma.....	51	R 44	36	26	12	36	15.9	43.6	3.9
Pennsylvania Total.....	6,191	R 6,404	6,202	5,599	5,659	9,937	-3.3	2.3	-5.1
Anthracite.....	229	R 205	174	147	152	174	11.7	10.8	3.1
Bituminous.....	5,962	R 6,199	6,028	5,452	5,507	9,763	-3.8	2.0	-5.3
Tennessee.....	300	R 280	390	467	473	1,319	7.1	-10.8	-15.2
Utah.....	1,771	R 2,045	1,922	1,803	1,893	2,434	-13.4	-1.6	-3.5
Virginia.....	4,161	R 4,748	5,101	5,098	5,776	8,955	-12.4	-7.9	-8.2
West Virginia Total.....	11,504	R 13,565	14,329	16,003	16,347	23,584	-15.2	-8.4	-7.7
Northern.....	3,405	R 3,707	4,551	4,764	5,561	8,784	-8.1	-11.5	-10.0
Southern.....	8,099	R 9,858	9,778	11,239	10,786	14,800	-17.8	-6.9	-6.5
Wyoming.....	79	R 92	105	116	202	255	-14.1	-20.9	-12.2
<b>Appalachian Total<sup>1</sup>.....</b>	<b>36,793</b>	<b>R 40,920</b>	<b>42,468</b>	<b>43,601</b>	<b>45,898</b>	<b>68,488</b>	<b>-10.1</b>	<b>-5.4</b>	<b>-6.7</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>6,667</b>	<b>R 7,006</b>	<b>7,069</b>	<b>7,340</b>	<b>8,453</b>	<b>11,458</b>	<b>-4.8</b>	<b>-5.8</b>	<b>-5.8</b>
<b>Western Total<sup>1</sup>.....</b>	<b>3,111</b>	<b>R 3,399</b>	<b>2,950</b>	<b>2,855</b>	<b>3,528</b>	<b>4,208</b>	<b>-8.5</b>	<b>-3.1</b>	<b>-3.3</b>
<b>East of Miss. River.....</b>	<b>43,409</b>	<b>R 47,882</b>	<b>49,501</b>	<b>50,915</b>	<b>54,339</b>	<b>79,910</b>	<b>-9.3</b>	<b>-5.4</b>	<b>-6.5</b>
<b>West of Miss. River.....</b>	<b>3,162</b>	<b>R 3,443</b>	<b>2,986</b>	<b>2,881</b>	<b>3,540</b>	<b>4,244</b>	<b>-8.2</b>	<b>-2.8</b>	<b>-3.2</b>
<b>U.S. Total.....</b>	<b>46,571</b>	<b>R 51,325</b>	<b>52,487</b>	<b>53,796</b>	<b>57,879</b>	<b>84,154</b>	<b>-9.3</b>	<b>-5.3</b>	<b>-6.4</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.  
R Revised Data.

Notes: Includes all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers for 1998 forward. For 1997 and prior years, includes mining operations management and all technical and engineering personnel, excluding office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons and preparation plants with less than 5,000 employee hours, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 42. Average Number of Employees/Miners at Surface Mines by State, 1990, 1995-1999**

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	817	R 964	914	886	1,253	2,139	-15.2	-10.1	-10.1
Alaska.....	120	R 122	99	102	102	84	-1.6	4.1	4.0
Arizona.....	732	R 747	676	651	831	951	-2.0	-3.1	-2.9
Arkansas.....	4	R 4	2	-	4	13	-	-	-12.3
California.....	-	-	-	-	-	5	-	-	-
Colorado.....	617	R 615	439	414	476	500	.3	6.7	2.4
Illinois.....	428	R 499	568	918	872	2,611	-14.2	-16.3	-18.2
Indiana.....	2,221	R 2,529	2,301	2,122	2,086	3,671	-12.2	1.6	-5.4
Iowa.....	-	-	-	-	-	135	-	-	-
Kansas.....	18	R 19	67	54	54	132	-5.3	-24.0	-19.8
Kentucky Total.....	5,588	R 6,240	5,990	5,950	6,583	9,600	-10.4	-4.0	-5.8
Eastern.....	4,973	R 5,493	5,053	4,855	5,474	7,505	-9.5	-2.4	-4.5
Western.....	615	R 747	937	1,095	1,109	2,095	-17.7	-13.7	-12.7
Louisiana.....	176	R 176	114	111	114	103	-	11.5	6.1
Maryland.....	137	R 162	154	161	165	301	-15.4	-4.5	-8.4
Mississippi.....	45	-	-	-	-	-	-	-	-
Missouri.....	57	R 76	51	80	92	347	-25.0	-11.3	-18.2
Montana.....	927	R 925	708	687	722	821	.2	6.4	1.3
New Mexico.....	1,672	R 1,702	1,339	1,347	1,615	1,462	-1.8	.9	1.5
North Dakota.....	925	R 928	657	640	716	931	-3	6.6	-1
Ohio.....	1,424	R 1,619	1,365	1,526	1,716	3,263	-12.0	-4.5	-8.8
Oklahoma.....	154	R 153	233	207	229	379	.6	-9.4	-9.5
Pennsylvania Total.....	3,127	R 3,511	3,373	3,422	3,309	5,966	-10.9	-1.4	-6.9
Anthracite.....	1,097	R 1,076	1,113	1,024	917	1,513	1.9	4.6	-3.5
Bituminous.....	2,030	R 2,435	2,260	2,398	2,392	4,453	-16.6	-4.0	-8.3
Tennessee.....	266	R 253	317	289	208	378	5.1	6.3	-3.8
Texas.....	2,464	R 2,523	1,363	1,550	1,590	2,131	-2.3	11.6	1.6
Utah.....	66	R 27	-	1	-	-	144.4	-	-
Virginia.....	1,289	R 1,139	1,134	1,143	1,143	1,387	13.2	3.0	-8
Washington.....	513	R 548	577	589	566	777	-6.4	-2.4	-4.5
West Virginia Total.....	4,032	R 4,257	3,916	4,118	4,987	5,994	-5.3	-5.2	-4.3
Northern.....	501	R 561	429	515	553	1,269	-10.7	-2.4	-9.8
Southern.....	3,531	R 3,696	3,487	3,603	4,434	4,725	-4.5	-5.5	-3.2
Wyoming.....	4,333	R 4,355	2,672	2,698	2,940	3,075	-5	10.2	3.9
<b>Appalachian Total<sup>1</sup>.....</b>	<b>16,065</b>	<b>R 17,398</b>	<b>16,226</b>	<b>16,400</b>	<b>18,255</b>	<b>26,933</b>	<b>-7.7</b>	<b>-3.1</b>	<b>-5.6</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>6,182</b>	<b>R 6,726</b>	<b>5,636</b>	<b>6,137</b>	<b>6,150</b>	<b>11,617</b>	<b>-8.1</b>	<b>.1</b>	<b>-6.8</b>
<b>Western Total<sup>1</sup>.....</b>	<b>9,905</b>	<b>R 9,969</b>	<b>7,167</b>	<b>7,129</b>	<b>7,968</b>	<b>8,606</b>	<b>-6</b>	<b>5.6</b>	<b>1.6</b>
<b>East of Miss. River.....</b>	<b>19,374</b>	<b>R 21,173</b>	<b>20,032</b>	<b>20,535</b>	<b>22,322</b>	<b>35,310</b>	<b>-8.5</b>	<b>-3.5</b>	<b>-6.4</b>
<b>West of Miss. River.....</b>	<b>12,778</b>	<b>R 12,920</b>	<b>8,997</b>	<b>9,131</b>	<b>10,051</b>	<b>11,846</b>	<b>-1.1</b>	<b>6.2</b>	<b>.8</b>
<b>U.S. Total.....</b>	<b>32,152</b>	<b>R 34,093</b>	<b>29,029</b>	<b>29,666</b>	<b>32,373</b>	<b>47,156</b>	<b>-5.7</b>	<b>-2</b>	<b>-4.2</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

R Revised Data.

Notes: Includes all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers for 1998 forward. For 1997 and prior years, includes mining operations management and all technical and engineering personnel, excluding office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons and preparation plants with less than 5,000 employee hours, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 43. Average Number of Employees by State and Mine Production Range, 1999**

Coal-Producing State and Region	Mine Production Range (thousand short tons)							Total
	1,000 and over	500 to 1,000	200 to 500	100 to 200	50 to 100	10 to 50	Zero <sup>1</sup>	
Alabama.....	3,117	—	483	121	169	120	173	4,183
Alaska.....	120	—	—	—	—	—	—	120
Arizona.....	696	—	—	—	—	—	36	732
Arkansas.....	—	—	—	—	—	4	—	4
Colorado.....	1,667	—	165	—	—	—	31	1,863
Illinois.....	3,666	325	—	18	28	5	281	4,323
Indiana.....	1,937	482	91	—	38	37	48	2,633
Kansas.....	—	—	9	9	—	—	—	18
Kentucky Total.....	4,258	3,136	3,365	2,165	1,180	1,081	2,026	17,211
Eastern.....	2,491	2,748	3,021	2,123	1,058	1,055	1,791	14,287
Western.....	1,767	388	344	42	122	26	235	2,924
Louisiana.....	136	40	—	—	—	—	—	176
Maryland.....	224	—	55	65	36	36	33	449
Mississippi.....	—	—	—	—	—	45	—	45
Missouri.....	—	—	37	—	20	—	—	57
Montana.....	917	—	10	—	—	—	—	927
New Mexico.....	1,672	—	—	14	—	—	1	1,687
North Dakota.....	921	—	—	—	—	—	4	925
Ohio.....	1,638	456	396	234	61	117	167	3,069
Oklahoma.....	—	42	24	139	—	—	—	205
Pennsylvania Total.....	3,667	1,235	1,347	685	561	594	1,229	9,318
Anthracite.....	—	10	206	150	149	264	547	1,326
Bituminous.....	3,667	1,225	1,141	535	412	330	682	7,992
Tennessee.....	—	—	273	112	36	73	72	566
Texas.....	2,399	—	61	—	—	—	4	2,464
Utah.....	1,253	358	88	—	14	13	111	1,837
Virginia.....	577	875	1,515	606	596	643	638	5,450
Washington.....	513	—	—	—	—	—	—	513
West Virginia Total.....	7,120	1,871	2,104	1,194	547	686	2,014	15,536
Northern.....	2,386	432	232	243	152	165	296	3,906
Southern.....	4,734	1,439	1,872	951	395	521	1,718	11,630
Wyoming.....	4,324	52	23	—	13	—	—	4,412
<b>Appalachian Total<sup>2</sup>.....</b>	<b>18,834</b>	<b>7,185</b>	<b>9,194</b>	<b>5,140</b>	<b>3,064</b>	<b>3,324</b>	<b>6,117</b>	<b>52,858</b>
<b>Interior Total<sup>2</sup>.....</b>	<b>9,905</b>	<b>1,277</b>	<b>566</b>	<b>208</b>	<b>208</b>	<b>117</b>	<b>568</b>	<b>12,849</b>
<b>Western Total<sup>2</sup>.....</b>	<b>12,083</b>	<b>410</b>	<b>286</b>	<b>14</b>	<b>27</b>	<b>13</b>	<b>183</b>	<b>13,016</b>
<b>East of Miss. River.....</b>	<b>26,204</b>	<b>8,380</b>	<b>9,629</b>	<b>5,200</b>	<b>3,252</b>	<b>3,437</b>	<b>6,681</b>	<b>62,783</b>
<b>West of Miss. River.....</b>	<b>14,618</b>	<b>492</b>	<b>417</b>	<b>162</b>	<b>47</b>	<b>17</b>	<b>187</b>	<b>15,940</b>
<b>U.S. Total.....</b>	<b>40,822</b>	<b>8,872</b>	<b>10,046</b>	<b>5,362</b>	<b>3,299</b>	<b>3,454</b>	<b>6,868</b>	<b>78,723</b>

<sup>1</sup> Includes all employees at preparation plants and tipples not co-located with a mine, including office workers.

<sup>2</sup> For a definition of coal-producing regions, see Appendix C.

Source: U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

Notes: Includes all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons and preparation plants with less than 5,000 employee hours, which are not required to provide data.

**Table 44. Average Number of Employees at Underground Mines by State and Mine Production Range, 1999**

Coal-Producing State and Region	Mine Production Range (thousand short tons)							Total
	1,000 and over	500 to 1,000	200 to 500	100 to 200	50 to 100	10 to 50	Zero <sup>1</sup>	
Alabama.....	2,957	—	239	—	30	—	140	3,366
Colorado.....	1,081	—	134	—	—	—	31	1,246
Illinois.....	3,448	226	—	8	28	—	185	3,895
Indiana.....	353	—	35	—	—	—	24	412
Kentucky Total.....	3,000	2,103	1,980	1,715	744	665	1,416	11,623
Eastern.....	1,393	1,840	1,810	1,673	726	665	1,207	9,314
Western.....	1,607	263	170	42	18	—	209	2,309
Maryland.....	224	—	55	—	—	—	33	312
New Mexico.....	—	—	—	14	—	—	1	15
Ohio.....	1,432	—	144	—	—	—	69	1,645
Oklahoma.....	—	—	—	51	—	—	—	51
Pennsylvania Total.....	3,595	1,182	381	323	32	127	551	6,191
Anthracite.....	—	—	—	51	—	53	125	229
Bituminous.....	3,595	1,182	381	272	32	74	426	5,962
Tennessee.....	—	—	126	49	36	38	51	300
Utah.....	1,253	358	88	—	14	13	45	1,771
Virginia.....	577	588	930	524	512	534	496	4,161
West Virginia Total.....	4,879	1,413	1,717	1,073	446	477	1,499	11,504
Northern.....	2,278	386	183	196	100	84	178	3,405
Southern.....	2,601	1,027	1,534	877	346	393	1,321	8,099
Wyoming.....	79	—	—	—	—	—	—	79
<b>Appalachian Total<sup>2</sup>.....</b>	<b>15,057</b>	<b>5,023</b>	<b>5,402</b>	<b>3,642</b>	<b>1,782</b>	<b>1,841</b>	<b>4,046</b>	<b>36,793</b>
<b>Interior Total<sup>2</sup>.....</b>	<b>5,408</b>	<b>489</b>	<b>205</b>	<b>101</b>	<b>46</b>	<b>—</b>	<b>418</b>	<b>6,667</b>
<b>Western Total<sup>2</sup>.....</b>	<b>2,413</b>	<b>358</b>	<b>222</b>	<b>14</b>	<b>14</b>	<b>13</b>	<b>77</b>	<b>3,111</b>
<b>East of Miss. River.....</b>	<b>20,465</b>	<b>5,512</b>	<b>5,607</b>	<b>3,692</b>	<b>1,828</b>	<b>1,841</b>	<b>4,464</b>	<b>43,409</b>
<b>West of Miss. River.....</b>	<b>2,413</b>	<b>358</b>	<b>222</b>	<b>65</b>	<b>14</b>	<b>13</b>	<b>77</b>	<b>3,162</b>
<b>U.S. Total.....</b>	<b>22,878</b>	<b>5,870</b>	<b>5,829</b>	<b>3,757</b>	<b>1,842</b>	<b>1,854</b>	<b>4,541</b>	<b>46,571</b>

<sup>1</sup> Includes all employees at preparation plants and tipples not co-located with a mine, including office workers.

<sup>2</sup> For a definition of coal-producing regions, see Appendix C.

Source: U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

Notes: Includes all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons and preparation plants with less than 5,000 employee hours, which are not required to provide data.

**Table 45. Average Number of Employees at Surface Mines by State and Mine Production Range, 1999**

Coal-Producing State and Region	Mine Production Range (thousand short tons)							Total
	1,000 and over	500 to 1,000	200 to 500	100 to 200	50 to 100	10 to 50	Zero <sup>1</sup>	
Alabama.....	160	-	244	121	139	120	33	817
Alaska.....	120	-	-	-	-	-	-	120
Arizona.....	696	-	-	-	-	-	36	732
Arkansas.....	-	-	-	-	-	4	-	4
Colorado.....	586	-	31	-	-	-	-	617
Illinois.....	218	99	-	10	-	5	96	428
Indiana.....	1,584	482	56	-	38	37	24	2,221
Kansas.....	-	-	9	9	-	-	-	18
Kentucky Total.....	1,258	1,033	1,385	450	436	416	610	5,588
Eastern.....	1,098	908	1,211	450	332	390	584	4,973
Western.....	160	125	174	-	104	26	26	615
Louisiana.....	136	40	-	-	-	-	-	176
Maryland.....	-	-	-	65	36	36	-	137
Mississippi.....	-	-	-	-	-	45	-	45
Missouri.....	-	-	37	-	20	-	-	57
Montana.....	917	-	10	-	-	-	-	927
New Mexico.....	1,672	-	-	-	-	-	-	1,672
North Dakota.....	921	-	-	-	-	-	4	925
Ohio.....	206	456	252	234	61	117	98	1,424
Oklahoma.....	-	42	24	88	-	-	-	154
Pennsylvania Total.....	72	53	966	362	529	467	678	3,127
Anthracite.....	-	10	206	99	149	211	422	1,097
Bituminous.....	72	43	760	263	380	256	256	2,030
Tennessee.....	-	-	147	63	-	35	21	266
Texas.....	2,399	-	61	-	-	-	4	2,464
Utah.....	-	-	-	-	-	-	66	66
Virginia.....	-	287	585	82	84	109	142	1,289
Washington.....	513	-	-	-	-	-	-	513
West Virginia Total.....	2,241	458	387	121	101	209	515	4,032
Northern.....	108	46	49	47	52	81	118	501
Southern.....	2,133	412	338	74	49	128	397	3,531
Wyoming.....	4,245	52	23	-	13	-	-	4,333
<b>Appalachian Total<sup>2</sup>.....</b>	<b>3,777</b>	<b>2,162</b>	<b>3,792</b>	<b>1,498</b>	<b>1,282</b>	<b>1,483</b>	<b>2,071</b>	<b>16,065</b>
<b>Interior Total<sup>2</sup>.....</b>	<b>4,497</b>	<b>788</b>	<b>361</b>	<b>107</b>	<b>162</b>	<b>117</b>	<b>150</b>	<b>6,182</b>
<b>Western Total<sup>2</sup>.....</b>	<b>9,670</b>	<b>52</b>	<b>64</b>	<b>-</b>	<b>13</b>	<b>-</b>	<b>106</b>	<b>9,905</b>
<b>East of Miss. River.....</b>	<b>5,739</b>	<b>2,868</b>	<b>4,022</b>	<b>1,508</b>	<b>1,424</b>	<b>1,596</b>	<b>2,217</b>	<b>19,374</b>
<b>West of Miss. River.....</b>	<b>12,205</b>	<b>134</b>	<b>195</b>	<b>97</b>	<b>33</b>	<b>4</b>	<b>110</b>	<b>12,778</b>
<b>U.S. Total.....</b>	<b>17,944</b>	<b>3,002</b>	<b>4,217</b>	<b>1,605</b>	<b>1,457</b>	<b>1,600</b>	<b>2,327</b>	<b>32,152</b>

<sup>1</sup> Includes all employees at preparation plants and tipples not co-located with a mine, including office workers.

<sup>2</sup> For a definition of coal-producing regions, see Appendix C.

Source: U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

Notes: Includes all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons and preparation plants with less than 5,000 employee hours, which are not required to provide data.



**Table 46. Average Number of Employees by State, Mine Type, and Union Type, 1999**

Coal-Producing State and Region	UMWA	Other Unions	Union Total	Nonunion	Total
<b>Alabama</b> .....	<b>3,481</b>	—	<b>3,481</b>	<b>702</b>	<b>4,183</b>
Underground.....	3,271	—	3,271	95	3,366
Surface.....	210	—	210	607	817
<b>Alaska</b> .....	—	—	—	<b>120</b>	<b>120</b>
Surface.....	—	—	—	120	120
<b>Arizona</b> .....	<b>732</b>	—	<b>732</b>	—	<b>732</b>
Surface.....	732	—	732	—	732
<b>Arkansas</b> .....	—	—	—	<b>4</b>	<b>4</b>
Surface.....	—	—	—	4	4
<b>Colorado</b> .....	<b>619</b>	<b>167</b>	<b>786</b>	<b>1,077</b>	<b>1,863</b>
Underground.....	493	—	493	753	1,246
Surface.....	126	167	293	324	617
<b>Illinois</b> .....	<b>2,467</b>	<b>303</b>	<b>2,770</b>	<b>1,553</b>	<b>4,323</b>
Underground.....	2,302	177	2,479	1,416	3,895
Surface.....	165	126	291	137	428
<b>Indiana</b> .....	<b>947</b>	—	<b>947</b>	<b>1,686</b>	<b>2,633</b>
Underground.....	—	—	—	412	412
Surface.....	947	—	947	1,274	2,221
<b>Kansas</b> .....	—	—	—	<b>18</b>	<b>18</b>
Surface.....	—	—	—	18	18
<b>Kentucky Total</b> .....	<b>1,454</b>	—	<b>1,454</b>	<b>15,757</b>	<b>17,211</b>
Underground.....	1,390	—	1,390	10,233	11,623
Surface.....	64	—	64	5,524	5,588
<b>Eastern</b> .....	<b>122</b>	—	<b>122</b>	<b>14,165</b>	<b>14,287</b>
Underground.....	108	—	108	9,206	9,314
Surface.....	14	—	14	4,959	4,973
<b>Western</b> .....	<b>1,332</b>	—	<b>1,332</b>	<b>1,592</b>	<b>2,924</b>
Underground.....	1,282	—	1,282	1,027	2,309
Surface.....	50	—	50	565	615
<b>Louisiana</b> .....	—	—	—	<b>176</b>	<b>176</b>
Surface.....	—	—	—	176	176
<b>Maryland</b> .....	—	—	—	<b>449</b>	<b>449</b>
Underground.....	—	—	—	312	312
Surface.....	—	—	—	137	137
<b>Mississippi</b> .....	—	—	—	45	45
Surface.....	—	—	—	45	45
<b>Missouri</b> .....	—	—	—	<b>57</b>	<b>57</b>
Surface.....	—	—	—	57	57
<b>Montana</b> .....	<b>340</b>	<b>445</b>	<b>785</b>	<b>142</b>	<b>927</b>
Surface.....	340	445	785	142	927
<b>New Mexico</b> .....	<b>535</b>	<b>858</b>	<b>1,393</b>	<b>294</b>	<b>1,687</b>
Underground.....	—	1	1	14	15
Surface.....	535	857	1,392	280	1,672
<b>North Dakota</b> .....	<b>143</b>	<b>138</b>	<b>281</b>	<b>644</b>	<b>925</b>
Surface.....	143	138	281	644	925
<b>Ohio</b> .....	<b>1,658</b>	—	<b>1,658</b>	<b>1,411</b>	<b>3,069</b>
Underground.....	1,349	—	1,349	296	1,645
Surface.....	309	—	309	1,115	1,424
<b>Oklahoma</b> .....	—	—	—	<b>205</b>	<b>205</b>
Underground.....	—	—	—	51	51
Surface.....	—	—	—	154	154
<b>Pennsylvania Total</b> .....	<b>4,411</b>	<b>20</b>	<b>4,431</b>	<b>4,887</b>	<b>9,318</b>
Underground.....	3,818	6	3,824	2,367	6,191
Surface.....	593	14	607	2,520	3,127
<b>Anthracite</b> .....	<b>466</b>	<b>5</b>	<b>471</b>	<b>855</b>	<b>1,326</b>
Underground.....	2	—	2	227	229
Surface.....	464	5	469	628	1,097
<b>Bituminous</b> .....	<b>3,945</b>	<b>15</b>	<b>3,960</b>	<b>4,032</b>	<b>7,992</b>
Underground.....	3,816	6	3,822	2,140	5,962
Surface.....	129	9	138	1,892	2,030
<b>Tennessee</b> .....	—	—	—	<b>566</b>	<b>566</b>
Underground.....	—	—	—	300	300
Surface.....	—	—	—	266	266
<b>Texas</b> .....	<b>1,246</b>	<b>420</b>	<b>1,666</b>	<b>798</b>	<b>2,464</b>
Surface.....	1,246	420	1,666	798	2,464
<b>Utah</b> .....	<b>512</b>	<b>132</b>	<b>644</b>	<b>1,193</b>	<b>1,837</b>
Underground.....	512	66	578	1,193	1,771
Surface.....	—	66	66	—	66
<b>Virginia</b> .....	<b>663</b>	<b>170</b>	<b>833</b>	<b>4,617</b>	<b>5,450</b>
Underground.....	661	121	782	3,379	4,161
Surface.....	2	49	51	1,238	1,289
<b>Washington</b> .....	—	<b>513</b>	<b>513</b>	—	<b>513</b>
Surface.....	—	513	513	—	513

See footnotes at end of table.

**Table 46. Average Number of Employees by State, Mine Type, and Union Type, 1999 (Continued)**

Coal-Producing State and Region	UMWA	Other Unions	Union Total	Nonunion	Total
<b>West Virginia Total</b> .....	<b>6,834</b>	<b>24</b>	<b>6,858</b>	<b>8,678</b>	<b>15,536</b>
Underground.....	5,446	7	5,453	6,051	11,504
Surface.....	1,388	17	1,405	2,627	4,032
<b>Northern</b> .....	<b>2,101</b>	<b>-</b>	<b>2,101</b>	<b>1,805</b>	<b>3,906</b>
Underground.....	2,101	-	2,101	1,304	3,405
Surface.....	-	-	-	501	501
<b>Southern</b> .....	<b>4,733</b>	<b>24</b>	<b>4,757</b>	<b>6,873</b>	<b>11,630</b>
Underground.....	3,345	7	3,352	4,747	8,099
Surface.....	1,388	17	1,405	2,126	3,531
<b>Wyoming</b> .....	<b>304</b>	<b>488</b>	<b>792</b>	<b>3,620</b>	<b>4,412</b>
Underground.....	-	-	-	79	79
Surface.....	304	488	792	3,541	4,333
<b>Appalachian Total</b> <sup>1</sup> .....	<b>17,169</b>	<b>214</b>	<b>17,383</b>	<b>35,475</b>	<b>52,858</b>
Underground.....	14,653	134	14,787	22,006	36,793
Surface.....	2,516	80	2,596	13,469	16,065
<b>Interior Total</b> <sup>1</sup> .....	<b>5,992</b>	<b>723</b>	<b>6,715</b>	<b>6,134</b>	<b>12,849</b>
Underground.....	3,584	177	3,761	2,906	6,667
Surface.....	2,408	546	2,954	3,228	6,182
<b>Western Total</b> <sup>1</sup> .....	<b>3,185</b>	<b>2,741</b>	<b>5,926</b>	<b>7,090</b>	<b>13,016</b>
Underground.....	1,005	67	1,072	2,039	3,111
Surface.....	2,180	2,674	4,854	5,051	9,905
<b>East of Miss. River</b> .....	<b>21,915</b>	<b>517</b>	<b>22,432</b>	<b>40,351</b>	<b>62,783</b>
Underground.....	18,237	311	18,548	24,861	43,409
Surface.....	3,678	206	3,884	15,490	19,374
<b>West of Miss. River</b> .....	<b>4,431</b>	<b>3,161</b>	<b>7,592</b>	<b>8,348</b>	<b>15,940</b>
Underground.....	1,005	67	1,072	2,090	3,162
Surface.....	3,426	3,094	6,520	6,258	12,778
<b>U.S. Total</b> .....	<b>26,346</b>	<b>3,678</b>	<b>30,024</b>	<b>48,699</b>	<b>78,723</b>
Underground.....	19,242	378	19,620	26,951	46,571
Surface.....	7,104	3,300	10,404	21,748	32,152

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

Notes: Includes all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons and preparation plants with less than 5,000 employee hours, which are not required to provide data. See Glossary for listing of other unions.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 47. U.S. Coal Mine Injuries, 1990, 1995-1999**

Injury Type	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Injuries Total</b> <sup>1</sup> .....	<b>4,513</b>	<sup>R</sup> <b>5,349</b>	<b>5,818</b>	<b>6,148</b>	<b>7,377</b>	<b>12,312</b>	<b>-15.6</b>	<b>-11.6</b>	<b>-10.6</b>
Fatal.....	29	25	30	39	47	66	16.0	-11.4	-8.7
Nonfatal <sup>2</sup> .....	4,484	<sup>R</sup> 5,324	5,788	6,109	7,330	12,246	-15.8	-11.6	-10.6
<b>Injuries per 200,000</b>									
<b>Employee-Hours Total</b> .....	<b>5.54</b>	<sup>R</sup> <b>6.04</b>	<b>5.39</b>	<b>5.66</b>	<b>6.62</b>	<b>7.92</b>	<b>-8.3</b>	<b>-4.4</b>	<b>-3.9</b>
Fatal.....	.04	.03	.03	.04	.04	.04	33.3	-	-
Nonfatal <sup>2</sup> .....	5.50	<sup>R</sup> 6.01	5.35	5.62	6.58	7.88	-8.5	-4.4	-3.9

<sup>1</sup> Includes contractors, preparation plants and independent shops and yards.

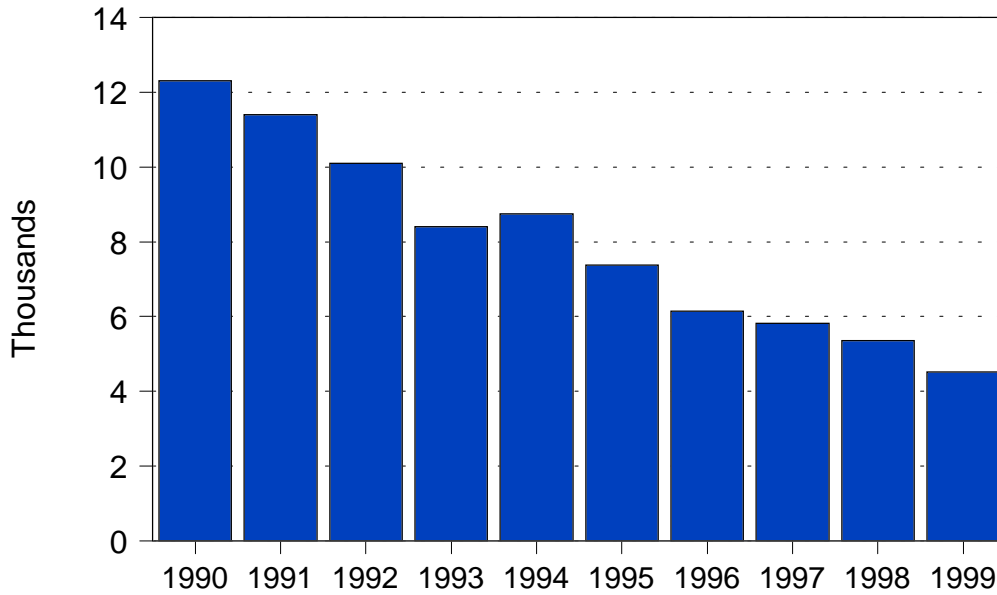
<sup>2</sup> Includes only non-fatal injuries that resulted in absence from work.

<sup>R</sup> Revised.

Note: Calculations of growth rate are based using unrounded values.

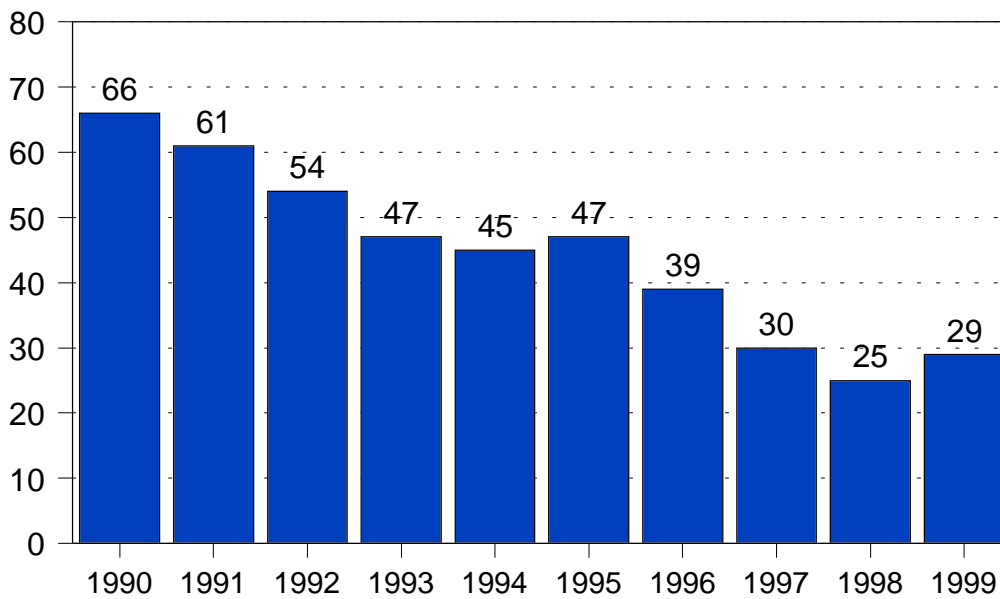
Source: U.S. Department of Labor, Mine Safety and Health Administration, *Mine Injuries and Worktime*, *Quarterly*, various issues.

**Figure 6. U.S. Coal Mine Injuries, 1990-1999**



Sources: U.S. Department of Labor, Mine Safety and Health Administration, *Mine Injuries and Worktime, Quarterly*, various issues.

**Figure 7. U.S. Coal Mine Fatalities, 1990-1999**



Sources: U.S. Department of Labor, Mine Safety and Health Administration, *Mine Injuries and Worktime, Quarterly*, various issues.

# Productivity

**Table 48. Coal Mining Productivity by State, 1990, 1995-1999**  
(Short Tons of Coal Produced per Employee/Miner per Hour)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	2.25	R 2.31	2.39	2.20	2.24	2.23	-2.3	0.1	0.1
Alaska.....	5.56	R 4.65	6.41	6.81	7.46	8.46	19.6	-7.1	-4.5
Arizona.....	6.61	R 6.53	6.79	6.30	6.34	5.93	1.3	1.0	1.2
Arkansas.....	1.89	R 1.95	1.94	-	1.47	1.46	-2.8	6.6	2.9
California.....	-	-	-	-	-	17.69	-	-	-
Colorado.....	7.93	R 7.89	7.68	7.32	6.14	4.24	.5	6.6	7.2
Illinois.....	4.19	R 4.17	4.20	4.18	3.87	2.94	.4	2.0	4.0
Indiana.....	5.42	R 5.17	5.33	4.98	4.68	3.84	4.9	3.8	3.9
Iowa.....	-	-	-	-	-	1.45	-	-	-
Kansas.....	8.58	R 7.49	3.82	2.17	2.22	2.03	14.5	40.2	17.3
Kentucky Total.....	3.89	R 3.79	3.94	3.80	3.57	2.83	2.4	2.1	3.6
Eastern.....	3.74	R 3.70	3.83	3.68	3.47	2.66	1.0	1.9	3.8
Western.....	4.57	R 4.16	4.38	4.29	3.97	3.46	9.8	3.5	3.1
Louisiana.....	8.49	R 8.82	10.94	10.86	13.25	13.16	-3.7	-10.5	-4.8
Maryland.....	4.20	R 4.12	3.93	4.13	3.82	2.93	2.1	2.4	4.1
Mississippi.....	.19	-	-	-	-	-	-	-	-
Missouri.....	2.89	R 2.72	3.19	3.49	2.55	2.99	6.5	3.2	-4
Montana.....	22.84	R 22.96	23.56	21.88	21.06	18.78	-5	2.0	2.2
New Mexico.....	8.30	R 7.92	9.37	8.45	6.92	7.64	4.8	4.7	.9
North Dakota.....	17.26	R 16.77	17.82	17.20	16.80	16.12	2.9	.7	.8
Ohio.....	3.19	R 3.50	4.02	3.95	3.62	2.80	-8.7	-3.1	1.4
Oklahoma.....	3.15	R 3.30	2.51	2.61	2.97	2.08	-4.4	1.5	4.7
Pennsylvania Total.....	3.81	R 3.77	3.63	3.36	3.23	2.24	1.1	4.2	6.1
Anthracite.....	1.76	R 2.04	1.76	1.92	2.08	1.03	-14.0	-4.2	6.2
Bituminous.....	4.12	R 4.00	3.89	3.56	3.37	2.37	3.1	5.1	6.3
Tennessee.....	2.75	R 2.71	2.37	2.20	2.36	1.81	1.4	3.9	4.7
Texas.....	10.08	R 9.66	10.24	10.13	9.10	7.48	4.4	2.6	3.4
Utah.....	6.84	R 6.16	6.34	7.23	7.02	4.74	11.1	-6	4.1
Virginia.....	3.09	R 2.82	2.77	2.72	2.50	2.24	9.5	5.4	3.6
Washington.....	3.95	R 4.24	3.59	3.97	4.04	3.41	-6.8	-6	1.6
West Virginia Total.....	4.77	R 4.62	4.46	3.91	3.74	2.96	3.0	6.2	5.4
Northern.....	4.63	R 4.67	4.48	4.05	3.72	2.69	-7	5.6	6.2
Southern.....	4.81	R 4.61	4.46	3.86	3.75	3.12	4.3	6.4	4.9
Wyoming.....	37.29	R 35.98	34.55	32.06	30.06	21.41	3.6	5.5	6.3
<b>Appalachian Total<sup>1</sup>.....</b>	<b>3.84</b>	<b>R 3.78</b>	<b>3.76</b>	<b>3.48</b>	<b>3.32</b>	<b>2.60</b>	<b>1.7</b>	<b>3.7</b>	<b>4.4</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>5.64</b>	<b>R 5.39</b>	<b>5.54</b>	<b>5.39</b>	<b>4.97</b>	<b>3.88</b>	<b>4.6</b>	<b>3.2</b>	<b>4.2</b>
<b>Western Total<sup>1</sup>.....</b>	<b>19.05</b>	<b>R 18.03</b>	<b>17.75</b>	<b>17.41</b>	<b>15.68</b>	<b>11.82</b>	<b>5.6</b>	<b>5.0</b>	<b>5.4</b>
<b>East of Miss. River.....</b>	<b>3.97</b>	<b>R 3.89</b>	<b>3.89</b>	<b>3.63</b>	<b>3.45</b>	<b>2.73</b>	<b>2.1</b>	<b>3.6</b>	<b>4.3</b>
<b>West of Miss. River.....</b>	<b>17.18</b>	<b>R 16.27</b>	<b>16.04</b>	<b>15.66</b>	<b>14.18</b>	<b>10.41</b>	<b>5.6</b>	<b>4.9</b>	<b>5.7</b>
<b>U.S. Total.....</b>	<b>6.61</b>	<b>R 6.20</b>	<b>6.04</b>	<b>5.69</b>	<b>5.38</b>	<b>3.83</b>	<b>6.6</b>	<b>5.3</b>	<b>6.3</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

R Revised Data.

Notes: Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers for 1998 forward. For 1997 and prior years, includes mining operations management and all technical and engineering personnel, excluding office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 49. Underground Coal Mining Productivity by State, 1990, 1995-1999**

(Short Tons of Coal Produced per Employee/Miner per Hour)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	2.09	R 2.16	2.21	1.95	2.02	2.01	-3.0	0.8	0.4
Colorado.....	8.13	R 7.73	7.44	6.67	5.86	3.26	5.1	8.5	10.7
Illinois.....	4.29	R 4.20	4.07	4.10	3.86	2.70	2.3	2.7	5.3
Indiana.....	3.44	R 3.63	3.74	3.09	3.22	2.90	-5.1	1.7	1.9
Kentucky Total.....	3.55	R 3.51	3.64	3.53	3.25	2.54	1.2	2.2	3.8
Eastern.....	3.32	R 3.36	3.47	3.37	3.12	2.44	-1.1	1.6	3.4
Western.....	4.36	R 3.97	4.15	4.05	3.70	2.93	9.9	4.2	4.5
Maryland.....	5.22	R 5.18	5.17	4.82	4.77	3.17	.8	2.3	5.7
Montana.....	-	-	-	3.50	-	-	-	-	-
New Mexico.....	2.10	R 4.01	-	-	2.68	4.27	-47.6	-5.8	-7.6
Ohio.....	3.02	R 3.48	4.18	4.19	3.81	2.34	-13.4	-5.6	2.8
Oklahoma.....	1.50	R 2.18	2.32	1.75	.74	1.30	-31.4	19.4	1.6
Pennsylvania Total.....	4.31	R 4.22	4.05	3.74	3.49	2.12	2.2	5.4	8.2
Anthracite.....	.65	R .95	1.03	.94	.86	.73	-31.3	-6.8	-1.3
Bituminous.....	4.43	R 4.30	4.13	3.81	3.56	2.15	3.0	5.6	8.4
Tennessee.....	2.50	R 2.39	1.83	1.76	2.02	1.68	4.3	5.4	4.5
Utah.....	7.15	R 6.22	6.34	7.24	7.02	4.74	15.0	.5	4.7
Virginia.....	2.87	R 2.64	2.56	2.44	2.25	2.14	8.7	6.3	3.3
West Virginia Total.....	4.31	R 4.29	4.03	3.50	3.40	2.70	.4	6.1	5.3
Northern.....	4.58	R 4.69	4.35	3.98	3.66	2.62	-2.3	5.8	6.4
Southern.....	4.19	R 4.12	3.90	3.29	3.27	2.76	1.8	6.4	4.8
Wyoming.....	10.29	R 9.14	10.13	9.18	5.97	2.80	12.6	14.5	15.5
<b>Appalachian Total<sup>1</sup>.....</b>	<b>3.64</b>	<b>R 3.62</b>	<b>3.55</b>	<b>3.24</b>	<b>3.08</b>	<b>2.40</b>	<b>.5</b>	<b>4.3</b>	<b>4.7</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>4.23</b>	<b>R 4.06</b>	<b>4.07</b>	<b>4.01</b>	<b>3.76</b>	<b>2.78</b>	<b>4.4</b>	<b>3.0</b>	<b>4.8</b>
<b>Western Total<sup>1</sup>.....</b>	<b>7.58</b>	<b>R 6.84</b>	<b>6.88</b>	<b>7.09</b>	<b>6.35</b>	<b>4.04</b>	<b>10.8</b>	<b>4.5</b>	<b>7.2</b>
<b>East of Miss. River.....</b>	<b>3.74</b>	<b>R 3.69</b>	<b>3.63</b>	<b>3.36</b>	<b>3.19</b>	<b>2.46</b>	<b>1.3</b>	<b>4.0</b>	<b>4.8</b>
<b>West of Miss. River.....</b>	<b>7.45</b>	<b>R 6.76</b>	<b>6.82</b>	<b>7.03</b>	<b>6.32</b>	<b>4.01</b>	<b>10.2</b>	<b>4.2</b>	<b>7.1</b>
<b>U.S. Total.....</b>	<b>3.99</b>	<b>R 3.90</b>	<b>3.83</b>	<b>3.57</b>	<b>3.39</b>	<b>2.54</b>	<b>2.4</b>	<b>4.2</b>	<b>5.1</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

R Revised Data.

Notes: Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers for 1998 forward. For 1997 and prior years, includes mining operations management and all technical and engineering personnel, excluding office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 50. Surface Coal Mining Productivity by State, 1990, 1995-1999**

(Short Tons of Coal Produced per Employee/Miner per Hour)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	2.98	R 2.93	3.21	3.50	3.07	2.69	1.9	-0.7	1.2
Alaska.....	5.56	R 4.65	6.41	6.81	7.46	8.46	19.6	-7.1	-4.5
Arizona.....	6.61	R 6.53	6.79	6.30	6.34	5.93	1.3	1.0	1.2
Arkansas.....	1.89	R 1.95	1.94	-	1.47	1.46	-2.8	6.6	2.9
California.....	-	-	-	-	-	17.69	-	-	-
Colorado.....	7.53	R 8.22	8.17	8.76	6.79	6.86	-8.4	2.6	1.0
Illinois.....	3.36	R 3.98	5.11	4.67	3.89	3.64	-15.7	-3.6	-9
Indiana.....	5.81	R 5.41	5.59	5.34	5.04	3.96	7.5	3.6	4.4
Iowa.....	-	-	-	-	-	1.45	-	-	-
Kansas.....	8.58	R 7.49	3.82	2.17	2.22	2.03	14.5	40.2	17.3
Kentucky Total.....	4.60	R 4.37	4.57	4.35	4.23	3.43	5.1	2.1	3.3
Eastern.....	4.50	R 4.30	4.47	4.23	4.13	3.13	4.6	2.2	4.1
Western.....	5.50	R 4.93	5.26	5.02	4.77	4.42	11.6	3.6	2.4
Louisiana.....	8.49	R 8.82	10.94	10.86	13.25	13.16	-3.7	-10.5	-4.8
Maryland.....	1.90	R 2.10	2.02	2.56	2.16	2.66	-9.3	-3.1	-3.6
Mississippi.....	.19	-	-	-	-	-	-	-	-
Missouri.....	2.89	R 2.72	3.19	3.49	2.55	2.99	6.5	3.2	-4
Montana.....	22.84	R 22.96	23.56	22.34	21.06	18.78	-5	2.0	2.2
New Mexico.....	8.39	R 7.98	9.37	8.45	7.19	7.66	5.2	3.9	1.0
North Dakota.....	17.26	R 16.77	17.82	17.20	16.80	16.12	2.9	.7	.8
Ohio.....	3.40	R 3.52	3.81	3.69	3.46	3.17	-3.3	-4	.8
Oklahoma.....	3.72	R 3.62	2.55	2.73	3.10	2.17	2.8	4.7	6.2
Pennsylvania Total.....	2.72	R 2.91	2.86	2.72	2.79	2.42	-6.5	-6	1.3
Anthracite.....	1.99	R 2.23	1.87	2.06	2.30	1.06	-10.8	-3.5	7.2
Bituminous.....	3.10	R 3.18	3.28	2.97	2.95	2.81	-2.5	1.2	1.1
Tennessee.....	3.04	R 2.96	3.02	2.91	3.20	2.32	2.6	-1.3	3.0
Texas.....	10.08	R 9.66	10.24	10.13	9.10	7.48	4.4	2.6	3.4
Virginia.....	3.73	R 3.51	3.69	3.79	3.73	2.89	6.4	*	2.9
Washington.....	3.95	R 4.24	3.59	3.97	4.04	3.41	-6.8	-6	1.6
West Virginia Total.....	5.97	R 5.56	5.71	5.18	4.74	4.02	7.4	5.9	4.5
Northern.....	4.99	R 4.49	5.54	4.72	4.31	3.30	11.2	3.8	4.7
Southern.....	6.09	R 5.71	5.73	5.24	4.79	4.21	6.8	6.2	4.2
Wyoming.....	37.78	R 36.57	35.42	32.84	31.02	22.84	3.3	5.0	5.8
<b>Appalachian Total<sup>1</sup>.....</b>	<b>4.29</b>	<b>R 4.11</b>	<b>4.26</b>	<b>4.05</b>	<b>3.88</b>	<b>3.10</b>	<b>4.3</b>	<b>2.5</b>	<b>3.7</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>7.17</b>	<b>R 6.78</b>	<b>7.11</b>	<b>6.89</b>	<b>6.39</b>	<b>4.86</b>	<b>5.7</b>	<b>2.9</b>	<b>4.4</b>
<b>Western Total<sup>1</sup>.....</b>	<b>22.65</b>	<b>R 21.91</b>	<b>21.78</b>	<b>20.96</b>	<b>18.93</b>	<b>15.18</b>	<b>3.3</b>	<b>4.6</b>	<b>4.5</b>
<b>East of Miss. River.....</b>	<b>4.48</b>	<b>R 4.31</b>	<b>4.49</b>	<b>4.25</b>	<b>4.03</b>	<b>3.32</b>	<b>4.0</b>	<b>2.7</b>	<b>3.4</b>
<b>West of Miss. River.....</b>	<b>19.57</b>	<b>R 18.82</b>	<b>18.63</b>	<b>17.89</b>	<b>16.23</b>	<b>12.26</b>	<b>4.0</b>	<b>4.8</b>	<b>5.3</b>
<b>U.S. Total.....</b>	<b>10.39</b>	<b>R 9.58</b>	<b>9.46</b>	<b>9.05</b>	<b>8.48</b>	<b>5.94</b>	<b>8.4</b>	<b>5.2</b>	<b>6.4</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

R Revised Data.

Notes: Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers for 1998 forward. For 1997 and prior years, includes mining operations management and all technical and engineering personnel, excluding office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 51. Coal Mining Productivity by State and Mine Type, 1999**

Coal-Producing State and Region	Number of Mining Operations <sup>1</sup>	Average Number of Employees Working Daily <sup>2</sup>	Average Production per Employee per Hour (short tons) <sup>3</sup>
<b>Alabama</b> .....	<b>60</b>	<b>4,183</b>	<b>2.25</b>
Underground .....	16	3,366	2.09
Surface .....	44	817	2.98
<b>Alaska</b> .....	<b>1</b>	<b>120</b>	<b>5.56</b>
Surface .....	1	120	5.56
<b>Arizona</b> .....	<b>3</b>	<b>732</b>	<b>6.61</b>
Surface .....	3	732	6.61
<b>Arkansas</b> .....	<b>1</b>	<b>4</b>	<b>1.89</b>
Surface .....	1	4	1.89
<b>Colorado</b> .....	<b>14</b>	<b>1,863</b>	<b>7.93</b>
Underground .....	10	1,246	8.13
Surface .....	4	617	7.53
<b>Illinois</b> .....	<b>31</b>	<b>4,323</b>	<b>4.19</b>
Underground .....	22	3,895	4.29
Surface .....	9	428	3.36
<b>Indiana</b> .....	<b>42</b>	<b>2,633</b>	<b>5.42</b>
Underground .....	7	412	3.44
Surface .....	35	2,221	5.81
<b>Kansas</b> .....	<b>2</b>	<b>18</b>	<b>8.58</b>
Surface .....	2	18	8.58
<b>Kentucky Total</b> .....	<b>562</b>	<b>17,211</b>	<b>3.89</b>
Underground .....	325	11,623	3.55
Surface .....	237	5,588	4.60
<b>Eastern</b> .....	<b>511</b>	<b>14,287</b>	<b>3.74</b>
Underground .....	298	9,314	3.32
Surface .....	213	4,973	4.50
<b>Western</b> .....	<b>51</b>	<b>2,924</b>	<b>4.57</b>
Underground .....	27	2,309	4.36
Surface .....	24	615	5.50
<b>Louisiana</b> .....	<b>2</b>	<b>176</b>	<b>8.49</b>
Surface .....	2	176	8.49
<b>Maryland</b> .....	<b>12</b>	<b>449</b>	<b>4.20</b>
Underground .....	3	312	5.22
Surface .....	9	137	1.90
<b>Mississippi</b> .....	<b>1</b>	<b>45</b>	<b>.19</b>
Surface .....	1	45	.19
<b>Missouri</b> .....	<b>2</b>	<b>57</b>	<b>2.89</b>
Surface .....	2	57	2.89
<b>Montana</b> .....	<b>6</b>	<b>927</b>	<b>22.84</b>
Surface .....	6	927	22.84
<b>New Mexico</b> .....	<b>8</b>	<b>1,687</b>	<b>8.30</b>
Underground .....	2	15	2.10
Surface .....	6	1,672	8.39
<b>North Dakota</b> .....	<b>5</b>	<b>925</b>	<b>17.26</b>
Surface .....	5	925	17.26
<b>Ohio</b> .....	<b>75</b>	<b>3,069</b>	<b>3.19</b>
Underground .....	15	1,645	3.02
Surface .....	60	1,424	3.40
<b>Oklahoma</b> .....	<b>7</b>	<b>205</b>	<b>3.15</b>
Underground .....	1	51	1.50
Surface .....	6	154	3.72
<b>Pennsylvania Total</b> .....	<b>341</b>	<b>9,318</b>	<b>3.81</b>
Underground .....	107	6,191	4.31
Surface .....	234	3,127	2.72
<b>Anthracite</b> .....	<b>117</b>	<b>1,326</b>	<b>1.76</b>
Underground .....	30	229	.65
Surface .....	87	1,097	1.99
<b>Bituminous</b> .....	<b>224</b>	<b>7,992</b>	<b>4.12</b>
Underground .....	77	5,962	4.43
Surface .....	147	2,030	3.10
<b>Tennessee</b> .....	<b>29</b>	<b>566</b>	<b>2.75</b>
Underground .....	16	300	2.50
Surface .....	13	266	3.04
<b>Texas</b> .....	<b>15</b>	<b>2,464</b>	<b>10.08</b>
Surface .....	15	2,464	10.08
<b>Utah</b> .....	<b>20</b>	<b>1,837</b>	<b>6.84</b>
Underground .....	18	1,771	7.15
Surface .....	2	66	.00
<b>Virginia</b> .....	<b>187</b>	<b>5,450</b>	<b>3.09</b>
Underground .....	127	4,161	2.87
Surface .....	60	1,289	3.73

See footnotes at end of table.



**Table 51. Coal Mining Productivity by State and Mine Type, 1999 (Continued)**

Coal-Producing State and Region	Number of Mining Operations <sup>1</sup>	Average Number of Employees Working Daily <sup>2</sup>	Average Production per Employee per Hour (short tons) <sup>3</sup>
<b>Washington</b> .....	<b>1</b>	<b>513</b>	<b>3.95</b>
Surface.....	1	513	3.95
<b>West Virginia Total</b> .....	<b>399</b>	<b>15,536</b>	<b>4.77</b>
Underground.....	268	11,504	4.31
Surface.....	131	4,032	5.97
<b>Northern</b> .....	<b>97</b>	<b>3,906</b>	<b>4.63</b>
Underground.....	54	3,405	4.58
Surface.....	43	501	4.99
<b>Southern</b> .....	<b>302</b>	<b>11,630</b>	<b>4.81</b>
Underground.....	214	8,099	4.19
Surface.....	88	3,531	6.09
<b>Wyoming</b> .....	<b>22</b>	<b>4,412</b>	<b>37.29</b>
Underground.....	1	79	10.29
Surface.....	21	4,333	37.78
<b>Appalachian Total</b> <sup>4</sup> .....	<b>1,614</b>	<b>52,858</b>	<b>3.84</b>
Underground.....	850	36,793	3.64
Surface.....	764	16,065	4.29
<b>Interior Total</b> <sup>4</sup> .....	<b>154</b>	<b>12,849</b>	<b>5.64</b>
Underground.....	57	6,667	4.23
Surface.....	97	6,182	7.17
<b>Western Total</b> <sup>4</sup> .....	<b>80</b>	<b>13,016</b>	<b>19.05</b>
Underground.....	31	3,111	7.58
Surface.....	49	9,905	22.65
<b>East of Miss. River</b> .....	<b>1,739</b>	<b>62,783</b>	<b>3.97</b>
Underground.....	906	43,409	3.74
Surface.....	833	19,374	4.48
<b>West of Miss. River</b> .....	<b>109</b>	<b>15,940</b>	<b>17.18</b>
Underground.....	32	3,162	7.45
Surface.....	77	12,778	19.57
<b>U.S. Total</b> .....	<b>1,848</b>	<b>78,723</b>	<b>6.61</b>
Underground.....	938	46,571	3.99
Surface.....	910	32,152	10.39

<sup>1</sup> Mining operations that consist of a mine and preparation plant, or a preparation plant only processing both underground and surface coal will be counted as two operations.

<sup>2</sup> Includes all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers.

<sup>3</sup> Calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers.

<sup>4</sup> For a definition of coal-producing regions, see Appendix C.

Source: U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons of coal during the year, and preparation plants with less than 5,000 employee hours, which are not required to provide data.

**Table 52. Underground Coal Mining Productivity by State and Mining Method, 1999**  
(Short Tons of Coal Produced per Employee per Hour)

Coal-Producing State and Region	Continuous <sup>1</sup>	Conventional <sup>2</sup>	Longwall <sup>3</sup>	Other <sup>4</sup>	Total
Alabama .....	1.46	-	2.10	-	2.09
Colorado .....	2.66	-	8.84	-	8.13
Illinois .....	4.21	-	4.45	-	4.29
Indiana .....	3.44	-	-	-	3.44
Kentucky Total .....	3.47	2.69	4.71	2.06	3.55
Eastern .....	3.32	2.69	4.88	2.06	3.32
Western .....	4.21	-	4.67	-	4.36
Maryland .....	3.70	-	5.58	-	5.22
New Mexico .....	2.10	-	-	-	2.10
Ohio .....	3.18	-	2.99	-	3.02
Oklahoma .....	1.50	-	-	-	1.50
Pennsylvania Total .....	2.49	.61	5.47	.66	4.31
Anthracite .....	.66	.61	-	.66	.65
Bituminous .....	2.62	-	5.47	-	4.43
Tennessee .....	2.50	-	-	-	2.50
Utah .....	3.82	8.61	7.74	-	7.15
Virginia .....	2.52	1.76	4.70	-	2.87
West Virginia Total .....	3.83	2.32	5.15	-	4.31
Northern .....	3.62	-	5.12	-	4.58
Southern .....	3.87	2.32	5.18	-	4.19
Wyoming .....	-	-	10.29	-	10.29
<b>Appalachian Total<sup>5</sup> .....</b>	<b>3.27</b>	<b>2.49</b>	<b>4.27</b>	<b>1.29</b>	<b>3.64</b>
<b>Interior Total<sup>5</sup> .....</b>	<b>4.10</b>	-	<b>4.53</b>	-	<b>4.23</b>
<b>Western Total<sup>5</sup> .....</b>	<b>3.36</b>	<b>8.61</b>	<b>8.28</b>	-	<b>7.58</b>
<b>East of Miss. River .....</b>	<b>3.43</b>	<b>2.49</b>	<b>4.31</b>	<b>1.29</b>	<b>3.74</b>
<b>West of Miss. River .....</b>	<b>3.12</b>	<b>8.61</b>	<b>8.28</b>	-	<b>7.45</b>
<b>U.S. Total .....</b>	<b>3.42</b>	<b>3.10</b>	<b>4.84</b>	<b>1.29</b>	<b>3.99</b>

<sup>1</sup> Mines that produce greater than 50 percent of coal by continuous mining method.

<sup>2</sup> Mines that produce greater than 50 percent of coal by conventional mining method.

<sup>3</sup> Mines that have any production from longwall mining method. A typical longwall mining operation uses 80 percent longwall mining and 20 percent continuous mining.

<sup>4</sup> Mines that produce coal using shortwall, scoop loading, hand loading, or other mining methods or a 50/50 percent continuous/conventional split in mining method, or mines that produce less than 10,000 short tons, which are not required to provide data.

<sup>5</sup> For a definition of coal-producing regions, see Appendix C.

Source: U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

Notes: For each State, stand alone preparation plant hours are distributed across the mining methods by the proportion of production for all stand alone mines. Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers. Excludes mines producing less than 10,000 short tons of coal during the year, and preparation plants with less than 5,000 employee hours, which are not required to provide data.

**Table 53. U.S. Coal Mining Productivity by Coalbed Thickness and Mining Method, 1999**

(Short Tons of Coal Produced per Employee per Hour)

Coalbed Thickness (inches)	Underground				Surface	Total
	Continuous <sup>1</sup>	Conventional <sup>2</sup>	Longwall <sup>3</sup>	Other <sup>4</sup>		
< 7 .....	-	-	-	-	3.09	3.09
7-12 .....	-	-	-	-	4.62	4.62
13-18 .....	-	-	-	-	5.30	5.30
19-24 .....	-	1.76	-	-	5.40	5.35
25-30 .....	2.45	2.35	-	1.06	5.30	5.02
31-36 .....	3.21	3.73	-	-	5.37	4.54
37-42 .....	3.79	8.83	5.72	-	5.48	4.72
43-48 .....	3.34	3.44	4.02	1.56	5.58	4.57
49-54 .....	3.90	-	2.12	-	6.71	5.03
55-60 .....	4.43	-	3.66	-	6.67	5.33
61-66 .....	4.17	1.02	6.46	-	6.40	5.73
67-72 .....	4.57	-	5.44	-	7.56	6.14
73-78 .....	5.00	-	4.08	-	7.44	4.86
79-84 .....	4.78	1.35	4.90	-	6.51	5.58
85-90 .....	7.35	-	5.90	-	10.35	8.76
91-96 .....	4.26	8.61	5.19	-	7.06	6.16
97-102 .....	10.00	-	6.74	-	7.54	7.47
103-108 .....	4.99	-	5.53	-	8.41	7.43
109-114 .....	10.45	-	10.64	-	8.04	8.73
115-120 .....	6.83	-	5.21	-	6.19	6.11
> 120 .....	3.68	1.51	8.55	-	21.49	19.82
<b>U.S. Total<sup>5</sup> .....</b>	<b>3.42</b>	<b>3.10</b>	<b>4.84</b>	<b>1.29</b>	<b>10.39</b>	<b>6.61</b>

<sup>1</sup> Mines that produce greater than 50 percent of coal by continuous mining method.<sup>2</sup> Mines that produce greater than 50 percent of coal by conventional mining method.<sup>3</sup> Mines that have any production from longwall mining method. A typical longwall mining operation uses 80 percent longwall mining and 20 percent continuous mining.<sup>4</sup> Mines that produce coal using shortwall, scoop loading, hand loading, or other mining methods or a 50/50 percent continuous/conventional split in mining method, or mines that produce less than 10,000 short tons, which are not required to provide data.<sup>5</sup> Includes stand alone preparation plants.

Notes: Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons and preparation plants with less than 5,000 employee hours, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 54. Coal Mining Productivity by State, Mine Type, and Mine Production Range, 1999**

(Short Tons of Coal Produced per Employee per Hour)

Coal-Producing State and Region	Mine Production Range (thousand short tons)						Total <sup>1</sup>
	1,000 and over	500 to 1,000	200 to 500	100 to 200	50 to 100	10 to 50	
<b>Alabama</b> .....	<b>2.28</b>	—	<b>2.34</b>	<b>3.03</b>	<b>3.13</b>	<b>2.36</b>	<b>2.25</b>
Underground.....	2.24	—	.99	—	1.76	—	2.09
Surface.....	3.12	—	3.23	3.03	3.45	2.36	2.98
<b>Alaska</b> .....	<b>5.56</b>	—	—	—	—	—	<b>5.56</b>
Surface.....	5.56	—	—	—	—	—	5.56
<b>Arizona</b> .....	<b>6.88</b>	—	—	—	—	—	<b>6.61</b>
Surface.....	6.88	—	—	—	—	—	6.61
<b>Arkansas</b> .....	—	—	—	—	—	<b>1.89</b>	<b>1.89</b>
Surface.....	—	—	—	—	—	1.89	1.89
<b>Colorado</b> .....	<b>8.60</b>	—	<b>3.24</b>	—	—	—	<b>7.93</b>
Underground.....	9.14	—	2.70	—	—	—	8.13
Surface.....	7.62	—	5.70	—	—	—	7.53
<b>Illinois</b> .....	<b>4.56</b>	<b>4.04</b>	—	<b>7.44</b>	<b>1.33</b>	<b>1.69</b>	<b>4.19</b>
Underground.....	4.60	3.48	—	8.44	1.33	—	4.29
Surface.....	4.03	5.03	—	6.73	—	1.69	3.36
<b>Indiana</b> .....	<b>5.49</b>	<b>6.39</b>	<b>4.14</b>	—	<b>3.08</b>	<b>1.89</b>	<b>5.42</b>
Underground.....	3.67	—	5.03	—	—	—	3.44
Surface.....	5.90	6.39	3.49	—	3.08	1.89	5.81
<b>Kansas</b> .....	—	—	<b>9.24</b>	<b>7.98</b>	—	—	<b>8.58</b>
Surface.....	—	—	9.24	7.98	—	—	8.58
<b>Kentucky Total</b> .....	<b>5.49</b>	<b>4.67</b>	<b>4.04</b>	<b>3.12</b>	<b>2.93</b>	<b>2.48</b>	<b>3.89</b>
Underground.....	4.96	4.27	3.82	2.92	2.66	2.09	3.55
Surface.....	6.74	5.46	4.34	3.98	3.41	3.03	4.60
<b>Eastern</b> .....	<b>5.61</b>	<b>4.66</b>	<b>4.02</b>	<b>3.12</b>	<b>2.87</b>	<b>2.44</b>	<b>3.74</b>
Underground.....	4.80	4.26	3.90	2.91	2.66	2.09	3.32
Surface.....	6.66	5.46	4.20	3.98	3.36	2.98	4.50
<b>Western</b> .....	<b>5.29</b>	<b>4.70</b>	<b>4.23</b>	<b>3.27</b>	<b>3.48</b>	<b>3.61</b>	<b>4.57</b>
Underground.....	5.12	4.30	3.01	3.27	2.72	—	4.36
Surface.....	7.44	5.50	5.35	—	3.62	3.61	5.50
<b>Louisiana</b> .....	<b>8.35</b>	<b>8.97</b>	—	—	—	—	<b>8.49</b>
Surface.....	8.35	8.97	—	—	—	—	8.49
<b>Maryland</b> .....	<b>6.39</b>	—	<b>4.04</b>	<b>1.93</b>	<b>1.84</b>	<b>1.92</b>	<b>4.20</b>
Underground.....	6.39	—	4.04	—	—	—	5.22
Surface.....	—	—	—	1.93	1.84	1.92	1.90
<b>Mississippi</b> .....	—	—	—	—	—	.19	.19
Surface.....	—	—	—	—	—	.19	.19
<b>Missouri</b> .....	—	—	<b>3.53</b>	—	<b>1.62</b>	—	<b>2.89</b>
Surface.....	—	—	3.53	—	1.62	—	2.89
<b>Montana</b> .....	<b>22.93</b>	—	<b>14.74</b>	—	—	—	<b>22.84</b>
Surface.....	22.93	—	14.74	—	—	—	22.84
<b>New Mexico</b> .....	<b>8.39</b>	—	—	<b>4.73</b>	—	—	<b>8.30</b>
Underground.....	—	—	—	4.73	—	—	2.10
Surface.....	8.39	—	—	—	—	—	8.39
<b>North Dakota</b> .....	<b>17.31</b>	—	—	—	—	—	<b>17.26</b>
Surface.....	17.31	—	—	—	—	—	17.26
<b>Ohio</b> .....	<b>2.99</b>	<b>4.53</b>	<b>3.92</b>	<b>2.74</b>	<b>3.63</b>	<b>2.10</b>	<b>3.19</b>
Underground.....	3.05	—	3.68	—	—	—	3.02
Surface.....	2.51	4.53	4.05	2.74	3.63	2.10	3.40
<b>Oklahoma</b> .....	—	<b>5.34</b>	<b>4.49</b>	<b>2.26</b>	—	—	<b>3.15</b>
Underground.....	—	—	—	1.50	—	—	1.50
Surface.....	—	5.34	4.49	2.72	—	—	3.72
<b>Pennsylvania Total</b> .....	<b>5.70</b>	<b>2.44</b>	<b>3.60</b>	<b>3.40</b>	<b>2.80</b>	<b>2.44</b>	<b>3.81</b>
Underground.....	5.65	2.09	4.53	3.39	2.81	1.61	4.31
Surface.....	8.21	8.35	3.23	3.42	2.79	2.60	2.72
<b>Anthracite</b> .....	—	<b>25.60</b>	<b>4.04</b>	<b>2.47</b>	<b>2.35</b>	<b>1.69</b>	<b>1.76</b>
Underground.....	—	—	—	1.74	—	1.22	.65
Surface.....	—	25.60	4.04	2.87	2.35	1.79	1.99
<b>Bituminous</b> .....	<b>5.70</b>	<b>2.21</b>	<b>3.53</b>	<b>3.66</b>	<b>2.94</b>	<b>3.17</b>	<b>4.12</b>
Underground.....	5.65	2.09	4.53	3.71	2.81	2.04	4.43
Surface.....	8.21	4.63	3.01	3.61	2.95	3.36	3.10
<b>Tennessee</b> .....	—	—	<b>3.42</b>	<b>3.47</b>	<b>2.16</b>	<b>2.39</b>	<b>2.75</b>
Underground.....	—	—	3.29	3.80	2.16	2.48	2.50
Surface.....	—	—	3.52	3.17	—	2.27	3.04
<b>Texas</b> .....	<b>10.28</b>	—	<b>3.33</b>	—	—	—	<b>10.08</b>
Surface.....	10.28	—	3.33	—	—	—	10.08
<b>Utah</b> .....	<b>9.12</b>	<b>2.54</b>	<b>3.65</b>	—	<b>2.50</b>	<b>1.58</b>	<b>6.84</b>
Underground.....	9.12	2.54	3.65	—	2.50	1.58	7.15
Surface.....	—	—	—	—	—	—	.00

See footnotes at end of table.

**Table 54. Coal Mining Productivity by State, Mine Type, and Mine Production Range, 1999**  
**(Continued)**  
 (Short Tons of Coal Produced per Employee per Hour)

Coal-Producing State and Region	Mine Production Range (thousand short tons)						Total <sup>1</sup>
	1,000 and over	500 to 1,000	200 to 500	100 to 200	50 to 100	10 to 50	
<b>Virginia</b> .....	<b>4.70</b>	<b>4.44</b>	<b>3.35</b>	<b>2.80</b>	<b>2.55</b>	<b>1.86</b>	<b>3.09</b>
Underground .....	4.70	4.07	2.91	2.59	2.50	1.93	2.87
Surface .....	—	5.18	4.03	4.55	2.87	1.51	3.73
<b>Washington</b> .....	<b>3.95</b>	—	—	—	—	—	<b>3.95</b>
Surface .....	3.95	—	—	—	—	—	3.95
<b>West Virginia Total</b> .....	<b>6.25</b>	<b>5.73</b>	<b>4.22</b>	<b>3.37</b>	<b>3.10</b>	<b>2.29</b>	<b>4.77</b>
Underground .....	5.66	5.39	4.11	3.17	2.93	1.99	4.31
Surface .....	7.47	6.72	4.75	5.16	3.70	2.87	5.97
<b>Northern</b> .....	<b>5.35</b>	<b>4.50</b>	<b>4.43</b>	<b>3.89</b>	<b>3.61</b>	<b>2.75</b>	<b>4.63</b>
Underground .....	5.07	4.24	4.69	3.70	3.55	2.44	4.58
Surface .....	10.72	7.03	3.42	4.62	3.68	2.88	4.99
<b>Southern</b> .....	<b>6.70</b>	<b>6.05</b>	<b>4.20</b>	<b>3.22</b>	<b>2.87</b>	<b>2.12</b>	<b>4.81</b>
Underground .....	6.18	5.78	4.04	3.05	2.74	1.93	4.19
Surface .....	7.30	6.70	4.94	5.62	3.73	2.87	6.09
<b>Wyoming</b> .....	<b>37.82</b>	<b>12.47</b>	<b>10.91</b>	—	<b>3.16</b>	—	<b>37.29</b>
Underground .....	10.29	—	—	—	—	—	10.29
Surface .....	38.34	12.47	10.91	—	3.16	—	37.78
<b>Appalachian Total</b> <sup>2</sup> .....	<b>5.11</b>	<b>4.56</b>	<b>3.80</b>	<b>3.14</b>	<b>2.83</b>	<b>2.29</b>	<b>3.84</b>
Underground .....	4.65	4.09	3.73	3.00	2.64	1.99	3.64
Surface .....	6.83	5.58	3.89	3.48	3.05	2.55	4.29
<b>Interior Total</b> <sup>2</sup> .....	<b>6.25</b>	<b>5.40</b>	<b>4.16</b>	<b>3.13</b>	<b>2.73</b>	<b>1.35</b>	<b>5.64</b>
Underground .....	4.70	3.95	3.41	2.65	1.72	—	4.23
Surface .....	8.15	6.14	4.56	3.55	3.05	1.35	7.17
<b>Western Total</b> <sup>2</sup> .....	<b>20.34</b>	<b>3.84</b>	<b>4.24</b>	<b>4.73</b>	<b>2.83</b>	<b>1.58</b>	<b>19.05</b>
Underground .....	9.17	2.54	3.10	4.73	2.50	1.58	7.58
Surface .....	23.09	12.47	8.83	—	3.16	—	22.65
<b>East of Miss. River</b> .....	<b>5.08</b>	<b>4.66</b>	<b>3.82</b>	<b>3.16</b>	<b>2.84</b>	<b>2.25</b>	<b>3.97</b>
Underground .....	4.66	4.07	3.72	3.01	2.62	1.99	3.74
Surface .....	6.47	5.70	3.95	3.51	3.08	2.45	4.48
<b>West of Miss. River</b> .....	<b>18.54</b>	<b>4.39</b>	<b>4.17</b>	<b>2.75</b>	<b>2.25</b>	<b>1.65</b>	<b>17.18</b>
Underground .....	9.17	2.54	3.10	1.96	2.50	1.58	7.45
Surface .....	20.35	8.90	5.39	3.25	2.16	1.89	19.57
<b>U.S. Total</b> .....	<b>9.56</b>	<b>4.65</b>	<b>3.83</b>	<b>3.14</b>	<b>2.83</b>	<b>2.24</b>	<b>6.61</b>
Underground .....	5.09	3.99	3.69	2.99	2.62	1.98	3.99
Surface .....	15.46	5.84	4.01	3.49	3.05	2.45	10.39

<sup>1</sup> Includes stand alone preparation plants.

<sup>2</sup> For a definition of coal-producing regions, see Appendix C.

Source: U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

Notes: Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons and preparation plants with less than 5,000 employee hours, which are not required to provide data.

**Table 55. Coal Mining Productivity by State, Mine Type, and Union Type, 1999**  
(Short Tons of Coal Produced per Employee per Hour)

Coal-Producing State and Region	UMWA	Other Unions	Union Total	Nonunion	Total
<b>Alabama</b> .....	<b>2.16</b>	—	<b>2.16</b>	<b>2.76</b>	<b>2.25</b>
Underground.....	2.13	—	2.13	.54	2.09
Surface.....	2.74	—	2.74	3.08	2.98
<b>Alaska</b> .....	—	—	—	<b>5.56</b>	<b>5.56</b>
Surface.....	—	—	—	5.56	5.56
<b>Arizona</b> .....	<b>6.61</b>	—	<b>6.61</b>	—	<b>6.61</b>
Surface.....	6.61	—	6.61	—	6.61
<b>Arkansas</b> .....	—	—	—	<b>1.89</b>	<b>1.89</b>
Surface.....	—	—	—	1.89	1.89
<b>Colorado</b> .....	<b>8.96</b>	<b>6.84</b>	<b>8.53</b>	<b>7.48</b>	<b>7.93</b>
Underground.....	9.45	—	9.45	7.19	8.13
Surface.....	6.89	6.84	6.86	8.09	7.53
<b>Illinois</b> .....	<b>3.89</b>	<b>4.49</b>	<b>3.96</b>	<b>4.59</b>	<b>4.19</b>
Underground.....	4.10	4.99	4.17	4.51	4.29
Surface.....	1.25	3.85	2.41	5.26	3.36
<b>Indiana</b> .....	<b>5.47</b>	—	<b>5.47</b>	<b>5.40</b>	<b>5.42</b>
Underground.....	—	—	—	3.44	3.44
Surface.....	5.47	—	5.47	6.03	5.81
<b>Kansas</b> .....	—	—	—	<b>8.58</b>	<b>8.58</b>
Surface.....	—	—	—	8.58	8.58
<b>Kentucky Total</b> .....	<b>4.05</b>	—	<b>4.05</b>	<b>3.87</b>	<b>3.89</b>
Underground.....	4.08	—	4.08	3.47	3.55
Surface.....	3.46	—	3.46	4.61	4.60
<b>Eastern</b> .....	<b>2.52</b>	—	<b>2.52</b>	<b>3.75</b>	<b>3.74</b>
Underground.....	2.88	—	2.88	3.32	3.32
Surface.....	—	—	—	4.51	4.50
<b>Western</b> .....	<b>4.18</b>	—	<b>4.18</b>	<b>4.91</b>	<b>4.57</b>
Underground.....	4.17	—	4.17	4.60	4.36
Surface.....	4.48	—	4.48	5.61	5.50
<b>Louisiana</b> .....	—	—	—	<b>8.49</b>	<b>8.49</b>
Surface.....	—	—	—	8.49	8.49
<b>Maryland</b> .....	—	—	—	<b>4.20</b>	<b>4.20</b>
Underground.....	—	—	—	5.22	5.22
Surface.....	—	—	—	1.90	1.90
<b>Mississippi</b> .....	—	—	—	.19	.19
Surface.....	—	—	—	.19	.19
<b>Missouri</b> .....	—	—	—	<b>2.89</b>	<b>2.89</b>
Surface.....	—	—	—	2.89	2.89
<b>Montana</b> .....	<b>20.47</b>	<b>19.27</b>	<b>19.80</b>	<b>39.45</b>	<b>22.84</b>
Surface.....	20.47	19.27	19.80	39.45	22.84
<b>New Mexico</b> .....	<b>7.44</b>	<b>8.83</b>	<b>8.30</b>	<b>8.34</b>	<b>8.30</b>
Underground.....	—	—	—	4.73	2.10
Surface.....	7.44	8.97	8.38	8.48	8.39
<b>North Dakota</b> .....	<b>9.98</b>	<b>19.04</b>	<b>14.09</b>	<b>18.59</b>	<b>17.26</b>
Surface.....	9.98	19.04	14.09	18.59	17.26
<b>Ohio</b> .....	<b>3.02</b>	—	<b>3.02</b>	<b>3.39</b>	<b>3.19</b>
Underground.....	3.02	—	3.02	3.03	3.02
Surface.....	3.04	—	3.04	3.49	3.40
<b>Oklahoma</b> .....	—	—	—	<b>3.15</b>	<b>3.15</b>
Underground.....	—	—	—	1.50	1.50
Surface.....	—	—	—	3.72	3.72
<b>Pennsylvania Total</b> .....	<b>3.41</b>	<b>.57</b>	<b>3.40</b>	<b>4.20</b>	<b>3.81</b>
Underground.....	3.74	—	3.73	5.22	4.31
Surface.....	1.03	.87	1.03	3.12	2.72
<b>Anthracite</b> .....	<b>.57</b>	<b>2.91</b>	<b>.59</b>	<b>2.39</b>	<b>1.76</b>
Underground.....	—	—	—	.65	.65
Surface.....	.57	2.91	.60	3.02	1.99
<b>Bituminous</b> .....	<b>3.71</b>	—	<b>3.69</b>	<b>4.55</b>	<b>4.12</b>
Underground.....	3.74	—	3.74	5.65	4.43
Surface.....	2.66	—	2.44	3.15	3.10
<b>Tennessee</b> .....	—	—	—	<b>2.75</b>	<b>2.75</b>
Underground.....	—	—	—	2.50	2.50
Surface.....	—	—	—	3.04	3.04
<b>Texas</b> .....	<b>9.68</b>	<b>9.83</b>	<b>9.72</b>	<b>10.87</b>	<b>10.08</b>
Surface.....	9.68	9.83	9.72	10.87	10.08
<b>Utah</b> .....	<b>8.02</b>	<b>2.41</b>	<b>6.57</b>	<b>6.98</b>	<b>6.84</b>
Underground.....	8.02	4.83	7.55	6.98	7.15
Surface.....	—	—	—	—	—
<b>Virginia</b> .....	<b>3.13</b>	<b>3.45</b>	<b>3.21</b>	<b>3.06</b>	<b>3.09</b>
Underground.....	3.14	—	3.07	2.82	2.87
Surface.....	—	5.08	4.94	3.67	3.73

See footnotes at end of table.

**Table 55. Coal Mining Productivity by State, Mine Type, and Union Type, 1999 (Continued)**  
(Short Tons of Coal Produced per Employee per Hour)

Coal-Producing State and Region	UMWA	Other Unions	Union Total	Nonunion	Total
<b>Washington</b> .....	—	<b>3.95</b>	<b>3.95</b>	—	<b>3.95</b>
Surface .....	—	3.95	3.95	—	3.95
<b>West Virginia Total</b> .....	<b>4.42</b>	—	<b>4.41</b>	<b>5.06</b>	<b>4.77</b>
Underground .....	4.08	—	4.08	4.53	4.31
Surface .....	5.66	—	5.60	6.18	5.97
<b>Northern</b> .....	<b>5.07</b>	—	<b>5.07</b>	<b>4.04</b>	<b>4.63</b>
Underground .....	5.07	—	5.07	3.65	4.58
Surface .....	—	—	—	4.99	4.99
<b>Southern</b> .....	<b>4.11</b>	—	<b>4.10</b>	<b>5.31</b>	<b>4.81</b>
Underground .....	3.39	—	3.38	4.76	4.19
Surface .....	5.66	—	5.60	6.43	6.09
<b>Wyoming</b> .....	<b>7.88</b>	<b>9.35</b>	<b>8.82</b>	<b>43.17</b>	<b>37.29</b>
Underground .....	—	—	—	10.29	10.29
Surface .....	7.88	9.35	8.82	43.90	37.78
<b>Appalachian Total</b> <sup>1</sup> .....	<b>3.51</b>	<b>2.86</b>	<b>3.50</b>	<b>4.02</b>	<b>3.84</b>
Underground .....	3.41	2.52	3.40	3.82	3.64
Surface .....	4.10	3.44	4.08	4.33	4.29
<b>Interior Total</b> <sup>1</sup> .....	<b>5.35</b>	<b>7.57</b>	<b>5.61</b>	<b>5.67</b>	<b>5.64</b>
Underground .....	4.13	4.99	4.17	4.32	4.23
Surface .....	7.25	8.37	7.48	6.90	7.17
<b>Western Total</b> <sup>1</sup> .....	<b>9.06</b>	<b>9.55</b>	<b>9.28</b>	<b>27.22</b>	<b>19.05</b>
Underground .....	8.77	4.14	8.35	7.17	7.58
Surface .....	9.18	9.75	9.48	35.33	22.65
<b>East of Miss. River</b> .....	<b>3.68</b>	<b>3.81</b>	<b>3.68</b>	<b>4.14</b>	<b>3.97</b>
Underground .....	3.56	3.88	3.56	3.89	3.74
Surface .....	4.30	3.70	4.27	4.54	4.48
<b>West of Miss. River</b> .....	<b>9.23</b>	<b>9.59</b>	<b>9.38</b>	<b>24.31</b>	<b>17.18</b>
Underground .....	8.77	4.14	8.35	7.00	7.45
Surface .....	9.36	9.76	9.54	30.10	19.57
<b>U.S. Total</b> .....	<b>4.59</b>	<b>8.66</b>	<b>5.08</b>	<b>7.59</b>	<b>6.61</b>
Underground .....	3.81	3.93	3.81	4.13	3.99
Surface .....	6.70	9.30	7.51	11.78	10.39

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

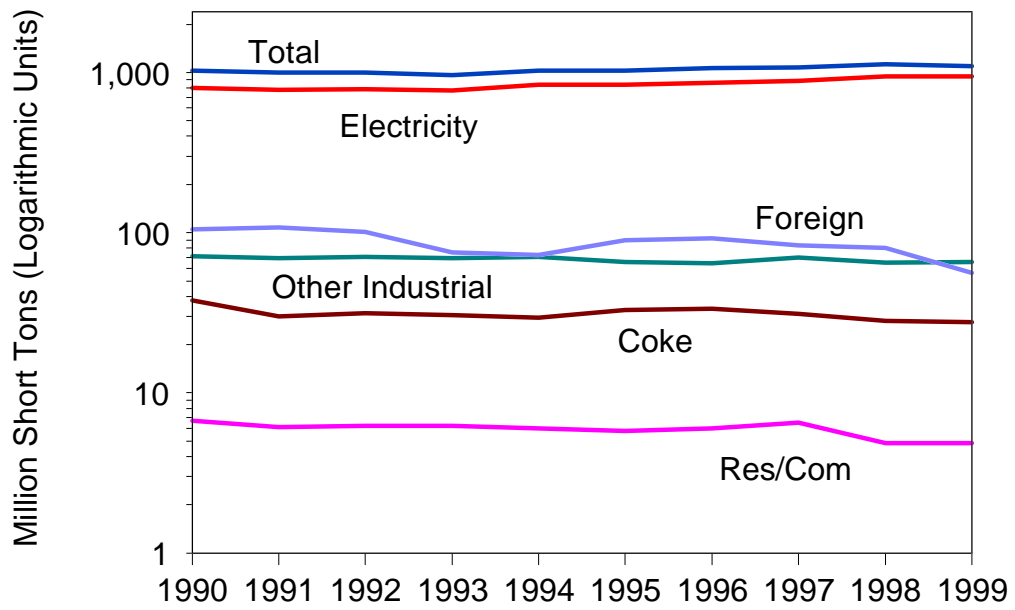
Notes: Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons and preparation plants with less than 5,000 employee hours, which are not required to provide data. See Glossary for listing of other unions.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

# Distribution



**Figure 8. Coal Distribution, 1990-1999**



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

**Table 56. Distribution of U.S. Coal by State of Origin, 1995-1999**  
(Thousand Short Tons)

Coal-Producing State and Region	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
Alabama .....	19,297	23,046	23,921	24,636	25,159	-16.3	-6.4
Alaska .....	1,573	1,341	1,424	1,473	1,670	17.3	-1.5
Arizona .....	12,623	12,169	11,044	10,970	11,783	3.7	1.7
Arkansas .....	22	23	9	7	11	-2.3	18.3
Colorado .....	30,017	29,294	26,968	25,405	25,635	2.5	4.0
Illinois .....	40,167	39,754	41,220	47,076	47,869	1.0	-4.3
Indiana .....	34,215	36,774	34,810	29,674	25,695	-7.0	7.4
Kansas .....	408	440	434	245	291	-7.4	8.8
Kentucky Total .....	138,632	153,102	152,746	152,891	151,466	-9.4	-2.2
Eastern .....	108,922	120,227	119,196	117,404	117,831	-9.4	-1.9
Western .....	29,710	32,876	33,550	35,487	33,635	-9.6	-3.0
Louisiana .....	2,952	3,331	3,545	3,222	3,426	-11.4	-3.6
Maryland .....	3,875	4,066	4,116	4,199	3,570	-4.7	2.1
Mississippi .....	18	-	-	-	-	-	-
Missouri .....	392	296	401	846	464	32.4	-4.1
Montana .....	41,332	42,674	40,942	38,288	39,620	-3.1	1.1
New Mexico .....	28,450	28,026	27,377	25,043	26,154	1.5	2.1
North Dakota .....	30,938	30,557	29,172	30,025	30,118	1.2	.7
Ohio .....	23,074	27,166	29,434	28,881	24,345	-15.1	-1.3
Oklahoma .....	1,657	1,731	1,688	2,216	2,158	-4.3	-6.4
Pennsylvania Total .....	75,669	80,525	73,725	69,128	62,240	-6.0	5.0
Anthracite .....	4,580	4,887	5,062	4,836	3,994	-6.3	3.5
Bituminous .....	71,089	75,637	68,664	64,291	58,246	-6.0	5.1
Tennessee .....	3,155	2,741	3,080	3,052	2,627	15.1	4.7
Texas .....	53,075	52,935	53,463	49,655	52,832	.3	.1
Utah .....	25,715	26,765	26,272	23,868	25,521	-3.9	.2
Virginia .....	31,634	33,539	35,577	36,208	34,024	-5.7	-1.8
Washington .....	4,074	4,622	4,495	4,569	4,863	-11.8	-4.3
West Virginia Total .....	157,730	172,612	172,236	169,200	165,187	-8.6	-1.1
Northern .....	39,512	44,784	46,316	46,436	42,615	-11.8	-1.9
Southern .....	118,219	127,828	125,920	122,764	122,572	-7.5	-9
Wyoming .....	337,027	314,891	280,795	279,117	263,601	7.0	6.3
<b>Appalachian Total<sup>1</sup> .....</b>	<b>423,357</b>	<b>463,922</b>	<b>461,287</b>	<b>452,707</b>	<b>434,984</b>	<b>-8.7</b>	<b>-7</b>
<b>Interior Total<sup>1</sup> .....</b>	<b>162,616</b>	<b>168,160</b>	<b>169,119</b>	<b>168,427</b>	<b>166,380</b>	<b>-3.3</b>	<b>-6</b>
<b>Western Total<sup>1</sup> .....</b>	<b>511,748</b>	<b>490,339</b>	<b>448,490</b>	<b>438,758</b>	<b>428,966</b>	<b>4.4</b>	<b>4.5</b>
<b>East of Miss. River .....</b>	<b>527,467</b>	<b>573,325</b>	<b>570,866</b>	<b>564,944</b>	<b>542,182</b>	<b>-8.0</b>	<b>-7</b>
<b>West of Miss. River .....</b>	<b>570,254</b>	<b>549,096</b>	<b>508,030</b>	<b>494,948</b>	<b>488,148</b>	<b>3.8</b>	<b>4.0</b>
<b>U.S. Total .....</b>	<b>1,097,721</b>	<b>1,122,421</b>	<b>1,078,896</b>	<b>1,059,892</b>	<b>1,030,330</b>	<b>-2.2</b>	<b>1.6</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

Notes: See Technical Note 1 for the difference between production and distribution. Totals may not equal sum of components due to independent rounding.

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

**Table 57. Domestic and Foreign Distribution of U.S. Coal by State of Origin, 1995-1999**  
(Thousand Short Tons)

Coal-Producing State and Region	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Domestic</b>							
Alabama .....	15,990	18,245	18,108	19,772	19,127	-12.4	-4.4
Alaska .....	1,036	970	743	697	815	6.8	6.2
Arizona .....	12,623	12,169	11,044	10,970	11,783	3.7	1.7
Arkansas .....	22	23	9	7	11	-2.3	18.3
Colorado .....	28,198	27,541	25,445	23,990	24,734	2.4	3.3
Illinois .....	40,102	39,447	40,447	45,190	45,170	1.7	-2.9
Indiana .....	34,215	36,774	34,805	29,664	25,625	-7.0	7.5
Kansas .....	408	440	434	245	291	-7.4	8.8
Kentucky Total .....	133,997	146,171	145,526	143,748	141,771	-8.3	-1.4
Eastern .....	104,287	113,842	112,496	108,927	108,781	-8.4	-1.0
Western .....	29,710	32,329	33,030	34,821	32,990	-8.1	-2.6
Louisiana .....	2,952	3,331	3,545	3,222	3,426	-11.4	-3.6
Maryland .....	3,875	4,058	3,880	3,555	3,382	-4.5	3.5
Mississippi .....	18	-	-	-	-	-	-
Missouri .....	392	296	401	846	464	32.4	-4.1
Montana .....	40,649	41,860	40,363	37,770	39,362	-2.9	.8
New Mexico .....	28,450	28,026	27,352	25,035	25,640	1.5	2.6
North Dakota .....	30,938	30,557	29,172	30,025	30,118	1.2	.7
Ohio .....	23,068	26,503	29,024	28,609	24,318	-13.0	-1.3
Oklahoma .....	1,657	1,731	1,688	2,136	2,158	-4.3	-6.4
Pennsylvania Total .....	68,703	72,616	65,027	59,882	53,961	-5.4	6.2
Anthracite .....	4,365	4,445	4,575	4,330	3,497	-1.8	5.7
Bituminous .....	64,338	68,172	60,452	55,552	50,464	-5.6	6.3
Tennessee .....	3,151	2,741	3,080	3,052	2,627	15.0	4.6
Texas .....	52,903	52,913	53,463	49,538	52,812	*	*
Utah .....	23,402	24,229	22,857	18,563	21,591	-3.4	2.0
Virginia .....	22,865	20,728	22,736	22,776	24,283	10.3	-1.5
Washington .....	4,074	4,622	4,481	4,526	4,756	-11.8	-3.8
West Virginia Total .....	134,882	135,082	133,777	127,156	120,866	-1.1	2.8
Northern .....	37,259	40,410	41,494	40,398	36,073	-7.8	.8
Southern .....	97,624	94,671	92,284	86,757	84,793	3.1	3.6
Wyoming .....	333,253	311,162	278,255	276,723	261,333	7.1	6.3
<b>Appalachian Total<sup>1</sup> .....</b>	<b>376,820</b>	<b>393,814</b>	<b>388,130</b>	<b>373,728</b>	<b>357,344</b>	<b>-4.3</b>	<b>1.3</b>
<b>Interior Total<sup>1</sup> .....</b>	<b>162,379</b>	<b>167,285</b>	<b>167,821</b>	<b>165,668</b>	<b>162,947</b>	<b>-2.9</b>	<b>-1.1</b>
<b>Western Total<sup>1</sup> .....</b>	<b>502,623</b>	<b>481,137</b>	<b>439,713</b>	<b>428,297</b>	<b>420,132</b>	<b>4.5</b>	<b>4.6</b>
<b>East of Miss. River .....</b>	<b>480,866</b>	<b>502,364</b>	<b>496,412</b>	<b>483,402</b>	<b>461,128</b>	<b>-4.3</b>	<b>1.0</b>
<b>West of Miss. River .....</b>	<b>560,957</b>	<b>539,872</b>	<b>499,252</b>	<b>484,291</b>	<b>479,294</b>	<b>3.9</b>	<b>4.0</b>
<b>U.S. Total .....</b>	<b>1,041,823</b>	<b>1,042,236</b>	<b>995,664</b>	<b>967,693</b>	<b>940,423</b>	<b>*</b>	<b>2.6</b>
<b>Foreign</b>							
Alabama .....	3,307	4,801	5,813	4,864	6,032	-31.1	-13.9
Alaska .....	537	371	680	776	855	44.8	-11.0
Colorado .....	1,819	1,754	1,523	1,415	900	3.7	19.2
Illinois .....	65	307	773	1,886	2,699	-78.8	-60.6
Indiana .....	-	-	5	11	70	-	-
Kentucky Total .....	4,636	6,931	7,220	9,143	9,695	-33.1	-16.8
Eastern .....	4,636	6,385	6,700	8,477	9,051	-27.4	-15.4
Western .....	-	546	520	666	645	-100.0	-
Maryland .....	*	9	236	645	188	-99.1	-85.6
Montana .....	682	814	579	518	259	-16.1	27.4
New Mexico .....	-	-	25	9	514	-	-
Ohio .....	6	663	410	271	28	-99.1	-32.6
Oklahoma .....	-	-	-	80	-	-	-
Pennsylvania Total .....	6,966	7,908	8,698	9,246	8,279	-11.9	-4.2
Anthracite .....	216	443	486	506	497	-51.3	-18.8
Bituminous .....	6,750	7,466	8,212	8,740	7,782	-9.6	-3.5
Tennessee .....	4	-	-	-	-	-	-
Texas .....	172	22	-	117	20	NM	72.0
Utah .....	2,313	2,535	3,414	5,305	3,930	-8.8	-12.4
Virginia .....	8,770	12,810	12,841	13,432	9,742	-31.5	-2.6
Washington .....	-	-	14	43	107	-	-
West Virginia Total .....	22,848	37,531	38,459	42,044	44,321	-39.1	-15.3
Northern .....	2,253	4,374	4,822	6,038	6,542	-48.5	-23.4
Southern .....	20,595	33,157	33,637	36,006	37,779	-37.9	-14.1
Wyoming .....	3,774	3,729	2,541	2,395	2,269	1.2	13.6
<b>Appalachian Total<sup>1</sup> .....</b>	<b>46,536</b>	<b>70,108</b>	<b>73,157</b>	<b>78,979</b>	<b>77,640</b>	<b>-33.6</b>	<b>-12.0</b>

See footnotes at end of table.

**Table 57. Domestic and Foreign Distribution of U.S. Coal by State of Origin, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State and Region	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Foreign</b>							
Interior Total <sup>1</sup> .....	237	875	1,298	2,759	3,433	-72.9	-48.8
Western Total <sup>1</sup> .....	9,125	9,202	8,777	10,460	8,834	-.8	.8
East of Miss. River.....	46,601	70,961	74,455	81,542	81,054	-34.3	-12.9
West of Miss. River.....	9,297	9,225	8,777	10,657	8,854	.8	1.2
<b>U.S. Total</b> .....	<b>55,898</b>	<b>80,185</b>	<b>83,232</b>	<b>92,199</b>	<b>89,907</b>	<b>-30.3</b>	<b>-11.2</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

<sup>NM</sup> Not meaningful as value is greater than 500 percent.

Note: Totals may not equal sum of components due to independent rounding.

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

**Table 58. Major U.S. Coal Distributors, 1999**

Company Name	
<b>Top Ten Distributors</b>	
AEI Resources, Inc.	Pacificorp
Arch Mineral Corp.	Peabody Energy Corp.
Consol Energy Inc.	RAG Coal International
Kennecott Energy Inc.	Texas Utilities Co.
Massey Energy	Vulcan Holding
<b>Other Major Distributors</b>	
AEP Service Corp.	Great River Energy
Aluminum Co. of America	James River Coal Co.
American Metals & Coal	Mapco Coal Inc.
AMVEST Minerals	MDU Resources Group
Andalex Resources Inc.	Mincorp Inc.
Anker Energy Corp.	Minnesota Power & Light
BHP Minerals Int <sup>1</sup>	North American Coal Corp.
Black Hills Corp.	Pen Holdings
Bluegrass Coal Develop.	Pittson Company
Chevron Corp.	Quaker Coal Co.
Coal Resources Inc.	Rencoal Inc.
Coastal Corp.	San Miguel Elec CoOp
Deseret Generation	Smokey Mountain Coal
Drummond Company	Solar Sources Inc.
DTE Energy Co.	Sunco Inc.
Electric Fuels Corp.	Teco Energy Inc.
Entech Inc.	U.S. Steel Mining Co.
Exxon Coal USA Inc.	Utilicorp United
Florida Progress Corp.	Walter Industries
Freeman Energy	Waterloo Coal Co.

Notes: The top 10 distribution companies accounted for 55 percent of the total distribution. Companies are listed in alphabetical order to ensure nondisclosure of company data.

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

**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Appalachian Total</b> .....	<b>376,820</b>	<b>393,814</b>	<b>388,130</b>	<b>373,728</b>	<b>357,344</b>	<b>-4.3</b>	<b>1.3</b>
<b>Alabama</b> .....	<b>15,990</b>	<b>18,245</b>	<b>18,108</b>	<b>19,772</b>	<b>19,127</b>	<b>-12.4</b>	<b>-4.4</b>
Middle Atlantic .....	157	-	365	579	616	-	-29.0
Pennsylvania .....	157	-	365	579	616	-	-29.0
East North Central .....	1,374	129	-	108	-	NM	-
Illinois .....	-	71	-	-	-	-100.0	-
Indiana .....	1,302	58	-	57	-	NM	-
Ohio .....	-	-	-	51	-	-	-
Wisconsin .....	72	-	-	-	-	-	-
West North Central .....	-	-	-	*	-	-	-
Minnesota .....	-	-	-	*	-	-	-
Missouri .....	-	-	-	*	-	-	-
South Atlantic .....	194	98	77	385	253	97.2	-6.4
Florida .....	-	24	26	8	115	-100.0	-
Georgia .....	194	74	50	373	134	162.4	9.7
North Carolina .....	-	-	-	4	-	-	-
South Carolina .....	-	-	-	-	4	-	-
East South Central .....	14,106	17,904	17,594	18,628	18,182	-21.2	-6.1
Alabama .....	14,024	17,831	17,489	18,503	18,024	-21.3	-6.1
Kentucky .....	-	-	-	15	-	-	-
Mississippi .....	35	73	105	110	156	-52.0	-31.1
Tennessee .....	47	-	-	1	2	-	117.3
West South Central .....	113	78	47	39	24	43.4	46.5
Arkansas .....	113	78	47	39	24	43.4	46.5
<b>Kentucky, Eastern</b> .....	<b>104,287</b>	<b>113,842</b>	<b>112,496</b>	<b>108,927</b>	<b>108,781</b>	<b>-8.4</b>	<b>-1.0</b>
New England .....	521	896	1,884	1,337	1,764	-41.9	-26.3
Connecticut .....	-	460	755	659	811	-100.0	-
Maine .....	168	194	412	271	258	-13.4	-10.2
Massachusetts .....	353	243	717	407	695	45.4	-15.6
Middle Atlantic .....	1,939	2,584	2,754	3,977	4,145	-25.0	-17.3
New Jersey .....	10	-	91	29	381	-	-60.0
New York .....	1,216	1,818	1,494	1,227	996	-33.1	5.1
Pennsylvania .....	714	766	1,169	2,721	2,767	-6.8	-28.7
East North Central .....	20,031	20,641	21,644	20,340	22,832	-3.0	-3.2
Illinois .....	1,236	661	2,327	1,478	1,442	87.0	-3.8
Indiana .....	2,942	2,753	2,065	1,962	2,397	6.9	5.3
Michigan .....	6,040	7,413	6,759	6,671	6,977	-18.5	-3.5
Ohio .....	9,083	9,074	9,711	9,490	11,200	.1	-5.1
Wisconsin .....	730	740	781	738	816	-1.2	-2.7
West North Central .....	671	499	543	889	611	34.4	2.4
Iowa .....	268	234	259	439	160	14.5	13.7
Minnesota .....	142	89	136	135	211	60.0	-9.4
Missouri .....	261	170	145	315	238	53.7	2.4
Nebraska .....	-	-	-	-	3	-	-
North Dakota .....	*	-	-	-	-	-	-
South Dakota .....	-	7	3	-	-	-100.0	-
South Atlantic .....	61,708	66,795	65,034	63,554	57,820	-7.6	1.6
Delaware .....	69	92	-	-	-	-25.2	-
District of Columbia .....	3	-	-	-	-	-	-
Florida .....	13,804	13,902	14,342	14,015	12,121	-.7	3.3
Georgia .....	16,450	16,507	15,913	14,689	15,803	-.3	1.0
Maryland .....	108	349	139	105	29	-68.9	39.3
North Carolina .....	13,457	17,179	15,840	17,240	12,902	-21.7	1.1
South Carolina .....	11,724	13,060	12,100	11,417	10,007	-10.2	4.0
Virginia .....	5,668	5,336	6,449	5,662	6,129	6.2	-1.9
West Virginia .....	425	370	250	426	829	14.8	-15.4
East South Central .....	18,964	22,110	20,070	18,182	20,332	-14.2	-1.7
Alabama .....	415	1,039	727	727	1,434	-60.1	-26.7
Kentucky .....	9,921	10,740	8,645	9,326	9,653	-7.6	.7
Mississippi .....	1,042	977	1,219	928	815	6.6	6.3
Tennessee .....	7,587	9,355	9,480	7,202	8,430	-18.9	-2.6
West South Central .....	235	38	116	71	513	NM	-17.7
Arkansas .....	20	-	-	-	-	-	-
Louisiana .....	16	11	78	44	500	50.2	-57.6
Oklahoma .....	46	27	*	2	4	73.9	84.5
Texas .....	153	-	38	26	8	-	106.1
Mountain .....	11	-	-	-	2	-	54.8
Idaho .....	-	-	-	-	2	-	-

See footnotes at end of table.

**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Kentucky, Eastern (Continued)</b>							
Nevada.....	11	-	-	-	-	-	-
Pacific.....	7	14	16	24	15	-48.5	-16.2
Oregon.....	7	14	16	24	15	-48.5	-16.2
<b>Maryland.....</b>	<b>3,875</b>	<b>4,058</b>	<b>3,880</b>	<b>3,555</b>	<b>3,382</b>	<b>-4.5</b>	<b>3.5</b>
New England.....	-	-	-	3	32	-	-
Connecticut.....	-	-	-	3	32	-	-
Massachusetts.....	-	-	-	*	-	-	-
Middle Atlantic.....	2	16	24	4	45	-89.7	-56.0
Pennsylvania.....	2	16	24	4	45	-89.7	-56.0
East North Central.....	-	-	-	19	-	-	-
Michigan.....	-	-	-	15	-	-	-
Wisconsin.....	-	-	-	3	-	-	-
South Atlantic.....	3,873	4,022	3,847	3,518	3,297	-3.7	4.1
Delaware.....	139	96	-	130	97	44.8	9.4
Maryland.....	677	909	955	1,147	1,216	-25.4	-13.6
Virginia.....	-	40	163	27	12	-100.0	-
West Virginia.....	3,056	2,978	2,730	2,213	1,971	2.6	11.6
<b>Ohio.....</b>	<b>23,068</b>	<b>26,503</b>	<b>29,024</b>	<b>28,609</b>	<b>24,318</b>	<b>-13.0</b>	<b>-1.3</b>
New England.....	7	-	-	-	-	-	-
Connecticut.....	*	-	-	-	-	-	-
New Hampshire.....	7	-	-	-	-	-	-
Middle Atlantic.....	394	457	770	1,168	1,568	-13.9	-29.2
New Jersey.....	16	-	-	-	-	-	-
New York.....	20	12	18	125	25	65.3	-5.4
Pennsylvania.....	358	445	752	1,043	1,543	-19.5	-30.6
East North Central.....	20,851	23,486	25,162	25,201	20,912	-11.2	-1
Illinois.....	-	-	-	5	-	-	-
Indiana.....	91	93	337	464	243	-2.3	-21.8
Michigan.....	239	302	303	246	431	-20.8	-13.7
Ohio.....	20,521	23,091	24,521	24,478	20,228	-11.1	.4
Wisconsin.....	*	*	-	9	10	-48.9	-61.3
West North Central.....	5	14	7	-	10	-62.5	-14.8
Minnesota.....	5	14	7	-	-	-62.5	-
Missouri.....	-	-	-	-	10	-	-
South Atlantic.....	1,651	1,670	2,323	2,036	1,620	-1.1	.5
Georgia.....	42	-	-	-	-	-	-
West Virginia.....	1,609	1,670	2,323	2,036	1,620	-3.6	-2
East South Central.....	154	851	636	137	53	-81.9	30.8
Alabama.....	31	4	69	103	18	NM	14.7
Kentucky.....	123	848	567	30	14	-85.5	72.3
Tennessee.....	-	-	-	4	21	-	-
<b>Pennsylvania,</b>							
<b>Anthracite.....</b>	<b>4,365</b>	<b>4,445</b>	<b>4,575</b>	<b>4,330</b>	<b>3,497</b>	<b>-1.8</b>	<b>5.7</b>
New England.....	26	29	35	31	37	-10.7	-8.5
Connecticut.....	6	7	7	5	8	-14.1	-6.6
Maine.....	2	3	4	4	3	-12.7	-4.6
Massachusetts.....	10	10	14	14	16	-2.5	-11.3
New Hampshire.....	4	5	5	4	5	-16.9	-3.1
Rhode Island.....	2	2	3	3	3	-25.7	-12.2
Vermont.....	2	2	2	2	3	-4.1	-9.6
Middle Atlantic.....	3,866	4,086	4,236	3,985	2,922	-5.4	7.3
New Jersey.....	10	14	15	14	15	-29.1	-8.5
New York.....	79	92	130	151	140	-13.7	-13.2
Pennsylvania.....	3,776	3,980	4,091	3,821	2,768	-5.1	8.1
East North Central.....	82	44	41	41	37	85.8	21.7
Illinois.....	17	11	15	7	9	59.6	16.5
Indiana.....	44	15	7	6	6	194.8	66.8
Michigan.....	2	1	1	3	9	51.4	-33.8
Ohio.....	11	11	13	19	8	-2.1	7.9
Wisconsin.....	8	6	6	5	6	33.1	9.6
West North Central.....	60	55	52	64	46	8.9	6.8
Iowa.....	36	35	43	54	39	2.1	-1.8
Kansas.....	1	1	1	*	-	3.9	-
Minnesota.....	6	7	4	7	7	-24.7	-5.7

See footnotes at end of table.

**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Pennsylvania,</b>							
<b>Anthracite (Continued)</b>							
Missouri.....	9	*	*	*	*	NM	164.3
Nebraska.....	8	11	4	1	*	-28.9	NM
North Dakota.....	1	*	*	2	*	NM	104.8
South Atlantic.....	210	116	97	56	91	81.4	23.3
Delaware.....	7	7	8	10	11	4.0	-9.6
District of Columbia.....	*	*	*	*	*	-46.9	-29.6
Florida.....	*	4	7	6	9	-92.7	-56.6
Georgia.....	3	2	*	*	*	25.9	58.4
Maryland.....	100	2	3	1	27	NM	38.8
North Carolina.....	*	1	*	*	*	-92.4	14.6
South Carolina.....	49	54	31	*	3	-9.0	106.3
Virginia.....	3	3	6	6	9	-7.6	-25.7
West Virginia.....	48	42	41	32	31	12.7	11.1
East South Central.....	32	50	31	50	44	-36.2	-7.7
Alabama.....	11	11	4	2	1	-1.3	67.4
Kentucky.....	19	23	18	22	21	-14.7	-1.8
Mississippi.....	*	*	*	*	*	28.3	24.8
Tennessee.....	2	16	9	26	22	-89.0	-46.3
West South Central.....	6	9	11	8	12	-32.2	-15.4
Arkansas.....	1	2	*	*	*	-63.4	46.3
Louisiana.....	*	*	8	6	10	300.0	-86.0
Oklahoma.....	*	*	*	*	*	-46.8	-19.2
Texas.....	6	7	3	1	2	-23.6	35.6
Mountain.....	23	21	26	21	13	9.7	15.9
Arizona.....	*	3	3	1	*	-93.9	35.1
Colorado.....	18	18	20	16	12	1.9	11.1
Idaho.....	-	-	-	*	*	-	-
Montana.....	3	-	-	2	-	-	-
Nevada.....	-	-	-	*	-	-	-
New Mexico.....	*	*	-	*	*	72.7	-25.0
Utah.....	-	*	3	*	*	-100.0	-
Wyoming.....	2	*	2	1	-	NM	-
Pacific.....	18	15	14	12	12	17.8	10.1
California.....	*	*	1	*	*	-35.6	84.5
Oregon.....	17	15	13	12	12	19.2	9.7
Washington.....	-	-	*	-	*	-	-
<b>Pennsylvania,</b>							
<b>Bituminous</b>							
New England.....	<b>64,338</b>	<b>68,172</b>	<b>60,452</b>	<b>55,552</b>	<b>50,464</b>	<b>-5.6</b>	<b>6.3</b>
Connecticut.....	763	1,034	1,214	1,021	1,009	-26.3	-6.8
Maine.....	80	176	1	227	516	-54.3	-37.2
Massachusetts.....	12	7	7	-	32	78.9	-21.5
New Hampshire.....	115	74	497	202	4	55.5	135.2
Vermont.....	556	778	710	592	458	-28.6	5.0
Middle Atlantic.....	-	-	*	*	-	-	-
New Jersey.....	38,879	43,477	41,194	40,063	37,612	-10.6	.8
New York.....	446	534	567	538	558	-16.5	-5.4
Pennsylvania.....	5,296	5,006	3,884	4,125	3,675	5.8	9.6
East North Central.....	33,136	37,937	36,743	35,400	33,379	-12.7	-2
Illinois.....	9,761	12,534	10,238	8,460	6,682	-22.1	9.9
Indiana.....	97	50	-	-	-	93.4	-
Michigan.....	283	296	548	559	222	-4.4	6.3
Ohio.....	3,340	4,025	2,876	2,075	2,650	-17.0	6.0
Wisconsin.....	5,042	6,021	4,756	4,463	2,707	-16.3	16.8
West North Central.....	999	2,141	2,058	1,362	1,103	-53.3	-2.4
Iowa.....	254	240	178	248	228	5.8	2.7
Minnesota.....	243	240	178	225	227	1.4	1.8
Missouri.....	-	-	-	23	-	-	-
North Dakota.....	-	-	-	-	1	-	-
South Atlantic.....	11	-	-	-	-	-	-
Delaware.....	11,438	9,508	5,783	3,968	3,377	20.3	35.7
District of Columbia.....	425	1,210	655	528	452	-64.8	-1.5
Florida.....	-	2	-	-	-	-100.0	-
Georgia.....	256	213	-	-	-	19.9	-
Maryland.....	688	-	-	-	-	-	-
	3,076	3,029	1,921	1,602	1,741	1.5	15.3

See footnotes at end of table.

**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Pennsylvania,</b>							
<b>Bituminous (Continued)</b>							
South Carolina .....	26	-	-	-	6	-	42.0
Virginia .....	633	402	226	5	20	57.4	137.0
West Virginia .....	6,334	4,651	2,982	1,833	1,157	36.2	53.0
East South Central .....	1,826	931	1,302	1,144	1,078	96.1	14.1
Alabama .....	306	51	95	6	39	494.8	67.0
Kentucky .....	589	196	344	500	363	200.6	12.8
Tennessee .....	932	684	864	639	675	36.2	8.4
West South Central .....	68	42	11	195	6	63.8	85.2
Louisiana .....	68	42	11	195	-	63.8	-
Texas .....	*	*	1	*	6	95.6	-70.3
Mountain .....	1,226	153	199	230	215	NM	54.6
Colorado .....	1,096	-	-	-	-	-	-
Utah .....	82	153	199	230	215	-46.3	-21.3
Wyoming .....	47	-	-	-	-	-	-
<b>Tennessee .....</b>	<b>3,151</b>	<b>2,741</b>	<b>3,080</b>	<b>3,052</b>	<b>2,627</b>	<b>15.0</b>	<b>4.6</b>
Middle Atlantic .....	11	-	-	-	-	-	-
Pennsylvania .....	11	-	-	-	-	-	-
East North Central .....	*	-	*	*	*	-	-2.7
Michigan .....	-	-	-	-	*	-	-
Ohio .....	*	-	*	*	*	-	6.2
South Atlantic .....	1,530	1,305	485	141	251	17.3	57.2
Delaware .....	13	-	-	-	-	-	-
Florida .....	30	209	-	-	39	-85.5	-6.3
Georgia .....	811	693	403	141	189	17.1	44.0
North Carolina .....	354	22	45	1	23	NM	99.1
South Carolina .....	289	381	37	-	-	-24.2	-
West Virginia .....	33	-	-	-	-	-	-
East South Central .....	1,601	1,435	2,593	2,902	2,363	11.6	-9.3
Alabama .....	49	5	743	331	936	NM	-52.3
Kentucky .....	87	7	-	23	5	NM	106.2
Tennessee .....	1,465	1,422	1,850	2,548	1,422	3.0	8
<b>Virginia .....</b>	<b>22,865</b>	<b>20,728</b>	<b>22,736</b>	<b>22,776</b>	<b>24,283</b>	<b>10.3</b>	<b>-1.5</b>
New England .....	-	1	15	18	19	-100.0	-
Connecticut .....	-	-	5	-	-	-	-
Massachusetts .....	-	1	-	8	-	-100.0	-
New Hampshire .....	-	-	10	10	19	-	-
Middle Atlantic .....	1,177	908	3,469	2,045	2,311	29.6	-15.5
New Jersey .....	734	700	805	601	635	4.8	3.7
New York .....	93	4	13	146	362	NM	-28.7
Pennsylvania .....	350	204	2,651	1,299	1,314	71.5	-28.2
East North Central .....	2,735	2,563	3,484	3,237	3,557	6.7	-6.4
Illinois .....	4	176	677	583	578	-97.5	-70.6
Indiana .....	1,739	1,526	1,587	2,290	2,395	13.9	-7.7
Michigan .....	*	*	*	25	83	256.3	-76.5
Ohio .....	991	861	1,220	331	493	15.2	19.1
Wisconsin .....	-	-	-	9	9	-	-
West North Central .....	-	-	-	-	8	-	-
Missouri .....	-	-	-	-	8	-	-
South Atlantic .....	15,754	13,999	12,147	13,507	14,600	12.5	1.9
Delaware .....	182	146	179	166	152	25.0	4.6
Florida .....	590	866	451	549	377	-31.8	11.8
Georgia .....	4,475	2,893	1,860	1,785	2,064	54.7	21.3
Maryland .....	1	*	*	1	392	NM	-78.9
North Carolina .....	700	735	840	1,883	4,056	-4.7	-35.5
South Carolina .....	1,138	1,342	1,492	1,605	1,468	-15.2	-6.2
Virginia .....	8,355	7,602	6,854	7,231	5,657	9.9	10.2
West Virginia .....	314	415	471	287	433	-24.4	-7.8
East South Central .....	3,120	3,138	3,286	3,581	3,413	-6	-2.2
Alabama .....	601	857	1,057	1,036	1,083	-29.9	-13.7
Kentucky .....	-	3	18	3	142	-100.0	-
Mississippi .....	-	18	8	13	-	-100.0	-
Tennessee .....	2,519	2,260	2,203	2,529	2,187	11.4	3.6
West South Central .....	12	41	14	13	21	-69.3	-12.6
Louisiana .....	-	-	-	-	21	-	-

See footnotes at end of table.



**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Virginia (Continued)</b>							
Oklahoma.....	-	19	-	-	-	-100.0	-
Texas.....	12	21	14	13	-	-41.5	-
Mountain.....	58	27	298	332	313	119.4	-34.3
Utah.....	58	27	298	332	313	119.4	-34.3
Pacific.....	-	-	*	-	-	-	-
California.....	-	-	*	-	-	-	-
<b>West Virginia, Northern.....</b>	<b>37,259</b>	<b>40,410</b>	<b>41,494</b>	<b>40,398</b>	<b>36,073</b>	<b>-7.8</b>	<b>.8</b>
New England.....	794	914	1,161	1,070	918	-13.1	-3.6
Connecticut.....	614	667	687	683	572	-7.9	1.8
Maine.....	-	-	1	13	9	-	-
Massachusetts.....	3	40	132	53	113	-92.2	-59.2
New Hampshire.....	177	208	340	322	225	-14.9	-5.8
Middle Atlantic.....	11,453	14,400	14,973	14,276	13,740	-20.5	-4.4
New Jersey.....	1,379	1,463	1,365	1,530	1,182	-5.8	3.9
New York.....	2,565	4,018	4,708	4,140	4,040	-36.2	-10.7
Pennsylvania.....	7,510	8,918	8,900	8,606	8,518	-15.8	-3.1
East North Central.....	6,768	6,267	5,513	5,410	2,887	8.0	23.7
Illinois.....	4	88	-	9	51	-95.4	-47.0
Indiana.....	338	485	157	479	38	-30.3	72.3
Michigan.....	568	704	679	640	437	-19.3	6.8
Ohio.....	5,764	4,630	4,155	3,966	1,977	24.5	30.7
Wisconsin.....	94	360	522	317	384	-73.9	-29.7
West North Central.....	3	34	-	*	3	-90.8	-5
Minnesota.....	-	-	-	-	3	-	-
Missouri.....	3	34	-	-	-	-90.8	-
North Dakota.....	-	-	-	*	-	-	-
South Atlantic.....	16,359	16,983	17,631	17,820	17,213	-3.7	-1.3
Delaware.....	193	513	442	449	737	-62.4	-28.5
District of Columbia.....	-	-	3	6	5	-	-
Florida.....	855	664	610	551	259	28.8	34.8
Maryland.....	4,787	4,146	4,862	4,773	3,341	15.5	9.4
North Carolina.....	-	-	-	13	-	-	-
South Carolina.....	106	-	-	3	-	-	-
Virginia.....	421	738	635	66	30	-42.9	93.8
West Virginia.....	9,996	10,921	11,080	11,959	12,841	-8.5	-6.1
East South Central.....	1,692	1,602	1,866	1,522	1,178	5.6	9.5
Alabama.....	250	396	442	419	604	-36.8	-19.8
Kentucky.....	1,441	1,206	1,424	1,026	527	19.5	28.6
Tennessee.....	-	-	-	78	46	-	-
West South Central.....	174	102	282	203	-	71.5	-
Louisiana.....	155	101	282	203	-	53.2	-
Oklahoma.....	*	-	-	-	-	-	-
Texas.....	19	1	-	-	-	NM	-
Mountain.....	-	-	-	-	*	-	-
Nevada.....	-	-	-	-	*	-	-
<b>West Virginia, Southern.....</b>	<b>97,624</b>	<b>94,671</b>	<b>92,284</b>	<b>86,757</b>	<b>84,793</b>	<b>3.1</b>	<b>3.6</b>
New England.....	1,005	2,515	1,909	1,853	1,404	-60.0	-8.0
Connecticut.....	101	76	135	24	-	32.3	-
Maine.....	*	-	*	13	-	-	-
Massachusetts.....	870	2,430	1,774	1,792	1,330	-64.2	-10.0
New Hampshire.....	34	8	-	24	74	297.8	-17.9
Rhode Island.....	-	-	*	-	-	-	-
Vermont.....	*	*	-	-	-	-11.1	-
Middle Atlantic.....	8,560	9,006	8,702	7,391	7,170	-4.9	4.5
New Jersey.....	212	214	492	216	165	-6	6.5
New York.....	1,217	1,477	1,560	1,545	1,466	-17.6	-4.5
Pennsylvania.....	7,130	7,315	6,651	5,630	5,538	-2.5	6.5
East North Central.....	34,921	30,360	29,392	30,404	28,905	15.0	4.8
Illinois.....	1,545	1,753	1,807	1,841	1,400	-11.9	2.5
Indiana.....	7,146	5,882	5,773	4,809	5,142	21.5	8.6
Michigan.....	5,375	5,150	5,415	4,869	4,416	4.4	5.0
Ohio.....	20,737	17,514	16,057	18,770	17,566	18.4	4.2
Wisconsin.....	118	60	340	115	381	95.6	-25.3
West North Central.....	3,931	304	245	113	313	NM	88.2

See footnotes at end of table.

**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>West Virginia,</b>							
<b>Southern (Continued)</b>							
Iowa.....	3,531	160	119	44	119	NM	133.3
Minnesota.....	94	116	87	32	107	-18.6	-3.2
Missouri.....	305	23	39	36	85	NM	37.6
Nebraska.....	-	5	-	-	-	-100.0	-
North Dakota.....	-	-	-	-	*	-	-
South Dakota.....	-	-	-	1	2	-	-
South Atlantic.....	39,228	42,145	42,166	37,986	36,164	-6.9	2.0
Delaware.....	332	376	450	551	485	-11.6	-9.0
District of Columbia.....	6	6	37	17	-	.1	-
Florida.....	1,760	1,570	1,896	1,123	1,341	12.1	7.0
Georgia.....	3,713	4,782	4,969	4,064	4,159	-22.4	-2.8
Maryland.....	4,245	2,735	2,607	3,132	3,209	55.2	7.2
North Carolina.....	10,266	9,780	9,740	8,274	7,169	5.0	9.4
South Carolina.....	840	815	100	347	257	3.0	34.4
Virginia.....	4,249	4,552	4,306	3,217	3,367	-6.7	6.0
West Virginia.....	13,817	17,529	18,061	17,261	16,177	-21.2	-3.9
East South Central.....	9,571	9,676	9,269	8,677	10,433	-1.1	-2.1
Alabama.....	1,906	2,268	3,078	2,922	3,487	-16.0	-14.0
Kentucky.....	7,352	6,991	5,540	4,250	5,330	5.2	8.4
Mississippi.....	140	38	20	24	44	263.6	33.3
Tennessee.....	173	378	631	1,482	1,571	-54.3	-42.4
West South Central.....	161	148	66	81	48	8.8	35.1
Louisiana.....	-	27	18	-	-	-100.0	-
Oklahoma.....	13	121	47	77	48	-89.0	-27.5
Texas.....	148	-	2	4	-	-	-
Mountain.....	173	181	229	18	206	-4.4	-4.2
Idaho.....	-	20	-	-	-	-100.0	-
Nevada.....	*	36	-	-	-	-100.0	-
Utah.....	173	125	229	18	206	38.4	-4.2
Pacific.....	19	-	10	28	2	-	79.5
Oregon.....	19	-	10	2	2	-	79.5
Washington.....	-	-	-	26	-	-	-
<b>Interior Total.....</b>	<b>162,379</b>	<b>167,285</b>	<b>167,821</b>	<b>165,668</b>	<b>162,947</b>	<b>-2.9</b>	<b>-1</b>
<b>Arkansas.....</b>	<b>22</b>	<b>23</b>	<b>9</b>	<b>7</b>	<b>11</b>	<b>-2.3</b>	<b>18.3</b>
West North Central.....	16	19	1	-	-	-15.5	-
Missouri.....	16	19	1	-	-	-15.5	-
South Atlantic.....	-	1	-	-	-	-100.0	-
Maryland.....	-	1	-	-	-	-100.0	-
West South Central.....	6	3	8	7	11	100.4	-13.4
Arkansas.....	4	-	4	7	11	-	-23.5
Texas.....	3	3	4	-	-	-21.4	-
<b>Illinois.....</b>	<b>40,102</b>	<b>39,447</b>	<b>40,447</b>	<b>45,190</b>	<b>45,170</b>	<b>1.7</b>	<b>-2.9</b>
New England.....	-	-	-	-	*	-	-
Connecticut.....	-	-	-	-	*	-	-
Middle Atlantic.....	63	-	*	*	*	-	255.2
New Jersey.....	-	-	-	*	*	-	-
New York.....	63	-	-	*	*	-	286.1
Pennsylvania.....	*	-	*	*	*	-	.2
East North Central.....	23,589	21,808	23,224	25,316	25,629	8.2	-2.0
Illinois.....	17,592	16,652	18,085	16,052	15,587	5.6	3.1
Indiana.....	5,162	4,184	4,272	8,178	8,559	23.4	-11.9
Michigan.....	-	-	-	59	70	-	-
Ohio.....	-	2	-	18	1	-100.0	-
Wisconsin.....	835	969	868	1,008	1,412	-13.9	-12.3
West North Central.....	4,404	3,767	3,934	5,347	6,270	16.9	-8.4
Iowa.....	2,061	949	731	694	1,216	117.2	14.1
Kansas.....	-	41	129	149	128	-100.0	-
Minnesota.....	72	104	176	100	111	-30.5	-10.2
Missouri.....	2,271	2,674	2,897	4,403	4,815	-15.1	-17.1
North Dakota.....	-	*	*	-	-	-100.0	-
South Atlantic.....	4,914	6,941	6,612	7,255	6,651	-29.2	-7.3
Florida.....	4,300	6,265	5,585	6,052	6,056	-31.4	-8.2
Georgia.....	614	676	1,027	1,204	584	-9.1	1.3
Maryland.....	-	-	-	-	5	-	-

See footnotes at end of table.

**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Illinois (Continued)</b>							
North Carolina .....	-	-	*	-	*	-	-
Virginia .....	-	-	-	*	*	-	-
West Virginia .....	-	*	-	-	6	-100.0	-
East South Central .....	6,314	5,795	5,600	7,130	6,510	8.9	-0.8
Alabama .....	1,338	809	1,348	2,155	1,146	65.4	3.9
Kentucky .....	395	686	152	1	274	-42.4	9.6
Mississippi .....	1,472	1,538	1,228	1,749	1,304	-4.3	3.1
Tennessee .....	3,109	2,762	2,872	3,225	3,787	12.6	-4.8
West South Central .....	1	1,125	1,055	86	86	-99.9	-68.5
Arkansas .....	-	12	67	76	76	-100.0	-
Louisiana .....	-	1,113	987	-	-	-100.0	-
Oklahoma .....	1	-	1	10	10	-	-45.9
Mountain .....	-	-	-	40	-	-	-
Colorado .....	-	-	-	40	-	-	-
<b>Indiana .....</b>	<b>34,215</b>	<b>36,774</b>	<b>34,805</b>	<b>29,664</b>	<b>25,625</b>	<b>-7.0</b>	<b>7.5</b>
New England .....	-	-	-	*	-	-	-
Connecticut .....	-	-	-	*	-	-	-
East North Central .....	32,114	35,079	32,267	26,318	22,461	-8.4	9.3
Illinois .....	1,004	1,807	1,920	1,444	963	-44.4	1.1
Indiana .....	30,742	32,872	29,916	24,309	21,185	-6.5	9.8
Michigan .....	68	148	162	181	180	-54.1	-21.6
Ohio .....	72	7	4	34	26	NM	28.5
Wisconsin .....	228	245	265	350	106	-6.7	21.0
West North Central .....	198	478	359	655	454	-58.7	-18.8
Iowa .....	109	259	347	638	435	-57.9	-29.2
Minnesota .....	83	67	4	-	-	23.0	-
Missouri .....	6	152	8	17	19	-96.0	-25.3
South Atlantic .....	-	41	-	-	-	-100.0	-
Florida .....	-	41	-	-	-	-100.0	-
East South Central .....	1,887	1,139	2,148	2,677	2,586	65.6	-7.6
Alabama .....	-	-	-	26	1	-	-
Kentucky .....	1,887	1,093	2,148	2,610	2,466	72.7	-6.5
Tennessee .....	-	47	-	41	119	-100.0	-
West South Central .....	1	1	2	6	1	65.9	3.0
Oklahoma .....	1	1	*	4	-	65.9	-
Texas .....	-	-	2	2	1	-	-
<b>Kansas .....</b>	<b>408</b>	<b>440</b>	<b>434</b>	<b>245</b>	<b>291</b>	<b>-7.4</b>	<b>8.8</b>
West North Central .....	408	440	434	233	291	-7.4	8.8
Kansas .....	406	366	354	164	160	10.8	26.1
Missouri .....	2	74	80	69	131	-97.5	-65.7
West South Central .....	-	-	-	12	-	-	-
Oklahoma .....	-	-	-	12	-	-	-
<b>Kentucky, Western .....</b>	<b>29,710</b>	<b>32,329</b>	<b>33,030</b>	<b>34,821</b>	<b>32,990</b>	<b>-8.1</b>	<b>-2.6</b>
New England .....	-	55	-	-	-	-100.0	-
Maine .....	-	55	-	-	-	-100.0	-
Middle Atlantic .....	-	26	-	-	-	-100.0	-
New Jersey .....	-	26	-	-	-	-100.0	-
East North Central .....	479	772	575	1,016	542	-37.9	-3.0
Illinois .....	155	324	103	119	-	-52.1	-
Indiana .....	45	270	257	680	243	-83.4	-34.5
Michigan .....	-	14	-	-	-	-100.0	-
Ohio .....	58	-	30	31	103	-	-13.4
Wisconsin .....	221	164	185	187	196	35.3	3.1
West North Central .....	148	719	350	237	101	-79.4	10.2
Iowa .....	122	504	320	211	75	-75.9	12.8
Minnesota .....	15	4	-	22	19	249.9	-5.6
Missouri .....	11	211	30	5	6	-94.6	15.9
South Atlantic .....	1,414	3,319	3,806	3,254	2,375	-57.4	-12.2
Florida .....	1,414	2,255	3,804	3,254	2,375	-37.3	-12.2
Maryland .....	-	-	2	-	-	-	-
Virginia .....	*	1,064	*	*	-	-100.0	-
East South Central .....	27,155	26,770	28,155	29,605	29,927	1.4	-2.4
Alabama .....	1,873	1,816	1,798	3,142	1,717	3.1	2.2
Kentucky .....	16,019	18,950	14,169	16,375	17,488	-15.5	-2.2

See footnotes at end of table.

**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Kentucky, Western (Continued)</b>							
Mississippi.....	78	3	-	107	-	NM	-
Tennessee.....	9,185	6,000	12,188	9,981	10,723	53.1	-3.8
West South Central.....	262	661	112	657	13	-60.3	111.6
Arkansas.....	-	-	4	11	13	-	-
Louisiana.....	262	661	108	646	-	-60.3	-
<b>Louisiana.....</b>	<b>2,952</b>	<b>3,331</b>	<b>3,545</b>	<b>3,222</b>	<b>3,426</b>	<b>-11.4</b>	<b>-3.6</b>
West South Central.....	2,952	3,331	3,545	3,222	3,426	-11.4	-3.6
Louisiana.....	2,952	3,331	3,545	3,222	3,426	-11.4	-3.6
<b>Mississippi.....</b>	<b>18</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>
East South Central.....	18	-	-	-	-	-	-
Mississippi.....	18	-	-	-	-	-	-
<b>Missouri.....</b>	<b>392</b>	<b>296</b>	<b>401</b>	<b>846</b>	<b>464</b>	<b>32.4</b>	<b>-4.1</b>
West North Central.....	392	281	389	846	464	39.5	-4.1
Kansas.....	1	1	40	345	91	105.2	-64.5
Missouri.....	391	281	349	501	373	39.3	1.2
West South Central.....	-	15	9	-	-	-100.0	-
Arkansas.....	-	15	9	-	-	-100.0	-
<b>Oklahoma.....</b>	<b>1,657</b>	<b>1,731</b>	<b>1,688</b>	<b>2,136</b>	<b>2,158</b>	<b>-4.3</b>	<b>-6.4</b>
West North Central.....	82	153	110	63	31	-46.5	26.9
Kansas.....	82	153	110	63	31	-46.5	27.1
Missouri.....	-	-	-	-	*	-	-
East South Central.....	-	-	-	-	2	-	-
Kentucky.....	-	-	-	-	2	-	-
West South Central.....	1,575	1,570	1,568	2,066	2,121	.3	-7.2
Arkansas.....	66	71	160	170	159	-7.3	-19.8
Oklahoma.....	1,453	1,411	1,260	1,712	1,790	3.0	-5.1
Texas.....	56	88	148	184	171	-36.2	-24.2
<b>Texas.....</b>	<b>52,903</b>	<b>52,913</b>	<b>53,463</b>	<b>49,538</b>	<b>52,812</b>	<b>*</b>	<b>*</b>
East North Central.....	46	-	-	-	-	-	-
Illinois.....	12	-	-	-	-	-	-
Michigan.....	23	-	-	-	-	-	-
Ohio.....	7	-	-	-	-	-	-
Wisconsin.....	4	-	-	-	-	-	-
West South Central.....	52,855	52,913	53,463	49,538	52,812	-1.1	*
Louisiana.....	-	144	-	-	-	-100.0	-
Texas.....	52,855	52,769	53,463	49,538	52,812	.2	*
<b>Western Total.....</b>	<b>502,623</b>	<b>481,137</b>	<b>439,713</b>	<b>428,297</b>	<b>420,132</b>	<b>4.5</b>	<b>4.6</b>
<b>Alaska.....</b>	<b>1,036</b>	<b>970</b>	<b>743</b>	<b>697</b>	<b>815</b>	<b>6.8</b>	<b>6.2</b>
Pacific.....	1,036	970	743	697	815	6.8	6.2
Alaska.....	1,036	970	743	697	815	6.8	6.2
<b>Arizona.....</b>	<b>12,623</b>	<b>12,169</b>	<b>11,044</b>	<b>10,970</b>	<b>11,783</b>	<b>3.7</b>	<b>1.7</b>
Mountain.....	12,623	12,169	11,044	10,970	11,783	3.7	1.7
Arizona.....	8,129	7,680	6,646	6,499	6,956	5.8	4.0
Nevada.....	4,494	4,489	4,398	4,470	4,827	.1	-1.8
<b>Colorado.....</b>	<b>28,198</b>	<b>27,541</b>	<b>25,445</b>	<b>23,990</b>	<b>24,734</b>	<b>2.4</b>	<b>3.3</b>
New England.....	-	-	107	-	-	-	-
Vermont.....	-	-	107	-	-	-	-
East North Central.....	606	2,680	1,873	1,366	2,333	-77.4	-28.6
Illinois.....	330	2,433	1,196	640	1,628	-86.4	-32.9
Indiana.....	-	51	-	-	20	-100.0	-
Michigan.....	55	176	10	-	44	-68.7	5.8
Wisconsin.....	221	20	667	726	641	NM	-23.4
West North Central.....	2,849	1,994	2,879	3,218	3,109	42.8	-2.2
Iowa.....	475	595	644	591	550	-20.1	-3.6
Kansas.....	587	1,289	1,264	1,493	1,436	-54.4	-20.0
Minnesota.....	-	-	-	-	13	-	-
Missouri.....	1,766	14	907	1,077	1,005	NM	15.1
Nebraska.....	20	97	65	56	104	-79.1	-33.7
South Atlantic.....	-	-	-	136	811	-	-

See footnotes at end of table.

**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Colorado (Continued)</b>							
Florida .....	-	-	-	136	811	-	-
East South Central .....	6,968	4,453	3,349	3,817	2,797	56.5	25.6
Alabama .....	-	427	-	-	-	-100.0	-
Kentucky .....	2,946	1,962	190	260	1,098	50.1	28.0
Mississippi .....	1,101	-	35	519	963	-	3.4
Tennessee .....	2,920	2,064	3,125	3,038	736	41.5	41.1
West South Central .....	2,961	3,314	2,296	2,443	2,258	-10.6	7.0
Arkansas .....	10	5	29	-	-	99.5	-
Oklahoma .....	-	-	-	-	31	-	-
Texas .....	2,951	3,309	2,267	2,443	2,228	-10.8	7.3
Mountain .....	14,780	15,004	14,792	12,861	13,353	-1.5	2.6
Arizona .....	630	467	74	355	105	34.8	56.3
Colorado .....	12,294	11,993	12,307	10,704	11,820	2.5	1.0
Idaho .....	-	-	-	-	3	-	-
Montana .....	-	6	-	-	-	-100.0	-
Nevada .....	-	20	69	132	161	-100.0	-
New Mexico .....	99	131	99	88	97	-24.3	.4
Utah .....	1,610	2,238	2,111	1,204	1,113	-28.1	9.7
Wyoming .....	148	149	131	378	53	-1.1	28.9
Pacific .....	25	85	138	131	37	-70.5	-9.5
Alaska .....	15	-	-	-	-	-	-
California .....	10	78	47	-	1	-87.5	80.8
Oregon .....	-	-	67	94	-	-	-
Washington .....	-	7	24	37	36	-100.0	-
<b>Montana .....</b>	<b>40,649</b>	<b>41,860</b>	<b>40,363</b>	<b>37,770</b>	<b>39,362</b>	<b>-2.9</b>	<b>.8</b>
East North Central .....	13,681	13,719	16,361	15,814	16,582	-.3	-4.7
Illinois .....	1,769	1,679	1,545	2,162	2,713	5.4	-10.1
Indiana .....	1,308	126	1,259	869	720	NM	16.1
Michigan .....	9,952	9,861	10,866	9,806	11,014	.9	-2.5
Ohio .....	168	-	42	26	-	-	-
Wisconsin .....	482	2,053	2,649	2,950	2,135	-76.5	-31.0
West North Central .....	13,121	13,289	11,372	11,622	11,338	-1.3	3.7
Iowa .....	-	136	105	-	2	-100.0	-
Kansas .....	1,319	379	104	-	-	248.2	-
Minnesota .....	9,429	10,477	8,847	9,791	10,199	-10.0	-1.9
Missouri .....	-	-	-	-	6	-	-
Nebraska .....	-	81	47	113	205	-100.0	-
North Dakota .....	877	517	402	417	469	69.5	16.9
South Dakota .....	1,496	1,698	1,867	1,301	457	-11.9	34.5
East South Central .....	1,926	2,833	3,235	2,226	1,234	-32.0	11.8
Mississippi .....	1,926	2,833	3,235	2,226	1,234	-32.0	11.8
Mountain .....	10,415	10,516	9,052	7,995	9,611	-1.0	2.0
Arizona .....	69	94	-	-	-	-26.1	-
Colorado .....	-	-	-	26	63	-	-
Montana .....	10,346	10,360	9,019	7,844	9,477	-.1	2.2
Wyoming .....	-	62	34	125	71	-100.0	-
Pacific .....	1,507	1,503	333	113	583	.3	26.8
Oregon .....	1,507	-	-	-	-	-	-
Washington .....	-	1,503	333	113	583	-100.0	-
<b>New Mexico .....</b>	<b>28,450</b>	<b>28,026</b>	<b>27,352</b>	<b>25,035</b>	<b>25,640</b>	<b>1.5</b>	<b>2.6</b>
East North Central .....	216	466	523	732	1,591	-53.7	-39.3
Wisconsin .....	216	466	523	732	1,591	-53.7	-39.3
West North Central .....	-	-	68	92	-	-	-
Nebraska .....	-	-	68	92	-	-	-
West South Central .....	459	591	482	334	160	-22.4	30.2
Arkansas .....	-	-	-	1	-	-	-
Oklahoma .....	64	119	108	17	-	-46.2	-
Texas .....	395	472	375	316	160	-16.4	25.4
Mountain .....	27,770	26,968	26,279	23,877	23,889	3.0	3.8
Arizona .....	11,346	11,138	10,492	8,860	9,259	1.9	5.2
Colorado .....	1	11	-	9	-	-90.4	-
New Mexico .....	16,423	15,819	15,786	15,009	14,630	3.8	2.9
Pacific .....	6	-	-	-	-	-	-
California .....	6	-	-	-	-	-	-

See footnotes at end of table.

**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>North Dakota</b> .....	<b>30,938</b>	<b>30,557</b>	<b>29,172</b>	<b>30,025</b>	<b>30,118</b>	<b>1.2</b>	<b>0.7</b>
West North Central.....	30,938	30,557	29,172	30,025	30,113	1.2	.7
North Dakota.....	30,938	30,557	29,172	30,025	28,838	1.2	1.8
South Dakota.....	-	-	-	-	1,276	-	-
<b>Utah</b> .....	<b>23,402</b>	<b>24,229</b>	<b>22,857</b>	<b>18,563</b>	<b>21,591</b>	<b>-3.4</b>	<b>2.0</b>
New England.....	-	-	90	-	17	-	-
Connecticut.....	-	-	-	-	17	-	-
Massachusetts.....	-	-	90	-	-	-	-
Middle Atlantic.....	-	*	-	-	20	-100.0	-
Pennsylvania.....	-	*	-	-	20	-100.0	-
East North Central.....	1,507	2,266	1,518	2,650	1,932	-33.5	-6.0
Illinois.....	1,507	2,266	1,446	2,473	1,776	-33.5	-4.0
Michigan.....	-	-	-	44	76	-	-
Wisconsin.....	-	-	72	133	81	-	-
West North Central.....	102	10	140	330	395	NM	-28.7
Kansas.....	*	*	-	-	*	4.3	-23.2
Minnesota.....	-	-	-	-	1	-	-
Missouri.....	99	10	140	330	393	NM	-29.1
Nebraska.....	3	-	-	-	-	-	-
North Dakota.....	*	-	-	-	-	-	-
East South Central.....	1,142	996	1,521	1,421	1,095	14.6	1.0
Tennessee.....	1,142	996	1,521	1,421	1,095	14.6	1.0
West South Central.....	105	-	-	-	4	-	126.4
Texas.....	105	-	-	-	4	-	126.4
Mountain.....	14,909	16,090	16,710	11,791	15,163	-7.3	-4
Arizona.....	-	-	78	69	80	-	-
Colorado.....	3	3	3	2	6	-17.6	-15.3
Idaho.....	66	121	39	65	141	-45.4	-17.3
Montana.....	4	3	27	-	9	26.5	-18.2
Nevada.....	3,857	3,431	2,626	2,265	2,150	12.4	15.7
New Mexico.....	*	-	-	-	-	-	-
Utah.....	10,979	12,531	13,936	9,389	12,755	-12.4	-3.7
Wyoming.....	*	-	-	*	22	-	-79.3
Pacific.....	5,628	4,837	2,865	2,366	2,965	16.3	17.4
California.....	5,130	4,711	2,718	2,240	2,838	8.9	15.9
Hawaii.....	-	34	21	-	-	-100.0	-
Oregon.....	431	1	7	*	2	NM	309.6
Washington.....	67	92	119	125	126	-27.0	-14.5
<b>Washington</b> .....	<b>4,074</b>	<b>4,622</b>	<b>4,481</b>	<b>4,526</b>	<b>4,756</b>	<b>-11.8</b>	<b>-3.8</b>
Pacific.....	4,074	4,622	4,481	4,526	4,756	-11.8	-3.8
Oregon.....	-	-	*	3	2	-	-
Washington.....	4,074	4,622	4,480	4,523	4,754	-11.8	-3.8
<b>Wyoming</b> .....	<b>333,253</b>	<b>311,162</b>	<b>278,255</b>	<b>276,723</b>	<b>261,333</b>	<b>7.1</b>	<b>6.3</b>
New England.....	-	33	-	-	-	-100.0	-
Connecticut.....	-	33	-	-	-	-100.0	-
East North Central.....	75,706	72,475	65,944	62,041	55,223	4.5	8.2
Illinois.....	23,311	20,866	20,528	17,734	15,480	11.7	10.8
Indiana.....	14,315	17,282	16,451	18,079	18,306	-17.2	-6.0
Michigan.....	10,462	11,936	9,558	8,551	7,543	-12.3	8.5
Ohio.....	3,840	2,435	1,481	37	-	57.7	-
Wisconsin.....	23,778	19,956	17,925	17,640	13,895	19.1	14.4
West North Central.....	95,949	94,146	81,627	82,593	77,051	1.9	5.6
Iowa.....	24,100	20,690	17,593	18,121	16,955	16.5	9.2
Kansas.....	13,751	14,373	11,759	11,772	14,243	-4.3	-9
Minnesota.....	8,968	8,568	9,224	8,569	8,816	4.7	.4
Missouri.....	35,958	38,358	33,300	33,312	25,731	-6.3	8.7
Nebraska.....	12,226	11,661	9,198	10,464	10,065	4.8	5.0
North Dakota.....	-	65	144	*	*	-100.0	-
South Dakota.....	947	430	410	355	1,241	120.1	-6.6
South Atlantic.....	8,372	7,069	6,705	7,409	7,432	18.4	3.0
Florida.....	416	1,064	971	591	-	-60.9	-
Georgia.....	6,805	5,950	5,688	6,818	6,796	14.4	*
Maryland.....	-	-	-	-	636	-	-
North Carolina.....	28	-	40	-	-	-	-
South Carolina.....	1,122	-	-	-	-	-	-

See footnotes at end of table.

**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Wyoming (Continued)</b>							
Virginia .....	-	55	-	-	-	-100.0	-
West Virginia.....	-	-	7	-	-	-	-
East South Central.....	15,210	10,235	7,826	4,010	2,970	48.6	50.4
Alabama .....	10,679	6,017	5,205	3,686	2,950	77.5	37.9
Kentucky .....	1,789	-	-	-	-	-	-
Mississippi.....	-	468	291	26	-	-100.0	-
Tennessee.....	2,743	3,750	2,330	298	20	-26.8	242.5
West South Central.....	94,975	88,046	80,727	86,413	82,918	7.9	3.4
Arkansas .....	15,167	13,353	11,600	14,614	14,033	13.6	2.0
Louisiana .....	11,130	10,346	9,628	9,209	10,309	7.6	1.9
Oklahoma .....	21,063	19,258	18,462	19,751	20,326	9.4	.9
Texas .....	47,614	45,089	41,037	42,839	38,250	5.6	5.6
Mountain .....	40,727	37,068	34,418	33,363	32,950	9.9	5.4
Arizona .....	142	368	57	-	-	-61.4	-
Colorado.....	11,077	8,132	6,692	6,124	5,602	36.2	18.6
Idaho.....	249	392	324	268	293	-36.4	-3.9
Montana.....	724	457	572	513	193	58.5	39.2
Nevada.....	-	-	17	204	342	-	-
Utah.....	15	*	*	1	*	NM	357.6
Wyoming.....	28,519	27,719	26,756	26,253	26,521	2.9	1.8
Pacific.....	2,311	2,063	996	894	2,775	12.0	-4.5
California.....	189	-	29	-	-	-	-
Oregon.....	2,040	2,062	966	894	1,485	-1.1	8.3
Washington .....	83	1	1	1	1,290	NM	-49.7
<b>U.S. Total.....</b>	<b>1,041,823</b>	<b>1,042,236</b>	<b>995,664</b>	<b>967,693</b>	<b>940,423</b>	<b>*</b>	<b>2.6</b>
New England .....	3,116	5,478	6,414	5,334	5,199	-43.1	-12.0
Connecticut .....	801	1,418	1,590	1,602	1,955	-43.5	-20.0
Maine.....	182	258	423	301	302	-29.4	-11.9
Massachusetts.....	1,351	2,798	3,225	2,475	2,157	-51.7	-11.0
New Hampshire .....	777	1,000	1,064	951	780	-22.2	-1
Rhode Island.....	2	2	3	3	3	-25.7	-12.2
Vermont.....	2	2	110	2	3	-4.2	-9.3
Middle Atlantic.....	66,499	74,961	76,487	73,489	70,149	-11.3	-1.3
New Jersey.....	2,807	2,952	3,334	2,927	2,936	-4.9	-1.1
New York.....	10,550	12,427	11,807	11,459	10,705	-15.1	-4
Pennsylvania.....	53,143	59,582	61,345	59,103	56,509	-10.8	-1.5
East North Central.....	244,466	245,289	237,757	228,473	212,105	-3	3.6
Illinois .....	48,583	48,838	49,647	44,547	41,626	-5	3.9
Indiana .....	65,457	65,893	62,630	62,741	59,476	-7	2.4
Michigan .....	36,125	39,731	36,629	33,186	33,928	-9.1	1.6
Ohio.....	66,294	63,646	61,990	61,713	54,310	4.2	5.1
Wisconsin.....	28,007	27,180	26,860	26,285	22,766	3.0	5.3
West North Central.....	153,530	147,000	131,862	136,573	130,836	4.4	4.1
Iowa.....	30,946	23,803	20,339	21,017	19,777	30.0	11.8
Kansas .....	16,147	16,601	13,761	13,987	16,091	-2.7	.1
Minnesota.....	18,814	19,447	18,485	18,679	19,488	-3.3	-9
Missouri.....	41,098	42,019	37,897	40,064	32,821	-2.2	5.8
Nebraska.....	12,257	11,855	9,382	10,726	10,377	3.4	4.3
North Dakota.....	31,826	31,139	29,717	30,444	29,307	2.2	2.1
South Dakota.....	2,443	2,135	2,281	1,657	2,976	14.4	-4.8
South Atlantic.....	166,646	174,010	166,712	161,026	151,954	-4.2	2.3
Delaware .....	1,362	2,440	1,734	1,834	1,933	-44.2	-8.4
District of Columbia.....	9	8	40	23	6	17.2	12.2
Florida .....	23,426	27,078	27,692	26,285	23,505	-13.5	-1
Georgia.....	33,795	31,576	29,910	29,074	29,730	7.0	3.3
Maryland.....	12,996	11,171	10,489	10,762	10,596	16.3	5.2
North Carolina.....	24,805	27,717	26,505	27,414	24,149	-10.5	.7
South Carolina.....	15,293	15,651	13,761	13,373	11,745	-2.3	6.8
Virginia .....	19,328	19,792	18,638	16,214	15,225	-2.3	6.1
West Virginia.....	35,632	38,576	37,945	36,047	35,065	-7.6	.4
East South Central.....	111,684	109,919	108,483	105,708	104,194	1.6	1.8
Alabama .....	31,482	31,530	32,056	33,057	31,440	-1	*
Kentucky .....	42,567	42,704	33,215	34,438	37,382	-3	3.3
Mississippi.....	5,812	5,949	6,141	5,702	4,516	-2.3	6.5
Tennessee.....	31,822	29,736	37,071	32,510	30,856	7.0	.8
West South Central.....	156,923	152,028	143,816	145,394	144,435	3.2	2.1

See footnotes at end of table.

**Table 59. Domestic Distribution of U.S. Coal by Coal-Producing Region and State, and Destination Census Division and State, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing Region and State, and Destination Census Division and State	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>U.S. Total (Continued)</b>							
Arkansas.....	15,380	13,536	11,921	14,918	14,317	13.6	1.8
Louisiana.....	14,584	15,776	14,663	13,526	14,267	-7.5	.5
Oklahoma.....	22,642	20,957	19,879	21,584	22,210	8.0	.5
Texas.....	104,316	101,759	97,353	95,367	93,642	2.5	2.7
Mountain.....	122,716	118,198	113,046	101,497	107,497	3.8	3.4
Arizona.....	20,317	19,751	17,351	15,785	16,401	2.9	5.5
Colorado.....	24,490	20,158	19,022	16,920	17,502	21.5	8.8
Idaho.....	315	533	363	333	440	-40.8	-8.0
Montana.....	11,077	10,825	9,617	8,359	9,678	2.3	3.4
Nevada.....	8,363	7,976	7,110	7,072	7,479	4.8	2.8
New Mexico.....	16,521	15,950	15,886	15,097	14,727	3.6	2.9
Utah.....	12,918	15,074	16,775	11,175	14,602	-14.3	-3.0
Wyoming.....	28,715	27,930	26,922	26,757	26,668	2.8	1.9
Pacific.....	14,631	14,108	9,596	8,790	11,962	3.7	5.2
Alaska.....	1,051	970	743	697	815	8.4	6.6
California.....	5,335	4,789	2,794	2,240	2,839	11.4	17.1
Hawaii.....	-	34	21	-	-	-100.0	-
Oregon.....	4,021	2,092	1,079	1,028	1,518	92.2	27.6
Washington.....	4,224	6,224	4,958	4,825	6,790	-32.1	-11.2

\* Data round to zero.

NM Not meaningful as value is greater than 500 percent.

Note: Destination State totals may not sum to the Coal-Producing State totals due to unknown or unavailable Destination State(s), and as a result U.S. Total may not equal sum of Destination State(s). Totals may not equal sum of components due to independent rounding.

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



**Table 60. Foreign Distribution of U.S. Coal by Major Coal-Exporting States and Destination, 1995-1999**  
(Thousand Short Tons)

Coal-Exporting State and Destination	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Alabama</b> .....	<b>3,307</b>	<b>4,801</b>	<b>5,813</b>	<b>4,864</b>	<b>6,032</b>	<b>-31.1</b>	<b>-13.9</b>
Argentina .....	52	305	259	216	306	-83.1	-35.9
Belgium & Luxembourg .....	880	701	898	703	574	25.5	11.3
Brazil .....	821	570	901	566	564	44.1	9.8
Bulgaria .....	-	145	244	208	128	-100.0	-
Denmark .....	-	-	-	-	26	-	-
Egypt .....	-	-	-	-	111	-	-
Germany, FR .....	-	103	224	184	201	-100.0	-
Italy .....	376	417	491	659	930	-10.0	-20.3
Japan .....	199	349	459	861	1,358	-43.0	-38.1
Netherlands .....	258	345	303	73	276	-25.3	-1.7
Romania .....	-	552	274	170	492	-100.0	-
South Africa, Rep of .....	-	-	-	57	-	-	-
Spain .....	77	248	200	52	48	-68.9	12.6
Turkey .....	111	211	408	326	302	-47.4	-22.1
United Kingdom .....	534	855	1,151	789	717	-37.6	-7.1
<b>Alaska</b> .....	<b>537</b>	<b>371</b>	<b>680</b>	<b>776</b>	<b>855</b>	<b>44.8</b>	<b>-11.0</b>
Korea, Republic of .....	537	371	662	776	855	44.8	-11.0
Unknown .....	-	-	18	-	-	-	-
<b>Colorado</b> .....	<b>1,819</b>	<b>1,754</b>	<b>1,523</b>	<b>1,415</b>	<b>900</b>	<b>3.7</b>	<b>19.2</b>
China (Taiwan) .....	-	-	75	219	235	-	-
Israel .....	-	-	-	30	-	-	-
Japan .....	1,819	422	296	343	651	331.1	29.3
Korea, Republic of .....	-	-	-	65	-	-	-
Mexico .....	-	1,332	1,152	758	-	-100.0	-
Turkey .....	-	-	-	-	14	-	-
<b>Kentucky</b> .....	<b>4,636</b>	<b>6,931</b>	<b>7,220</b>	<b>9,143</b>	<b>9,695</b>	<b>-33.1</b>	<b>-16.8</b>
Belgium & Luxembourg .....	-	44	54	67	366	-100.0	-
Brazil .....	-	-	-	-	52	-	-
Canada .....	1,497	1,459	739	1,178	777	2.6	17.8
China (Taiwan) .....	691	1,867	2,292	1,978	2,397	-63.0	-26.7
Finland .....	-	-	-	4	-	-	-
France .....	121	422	569	548	262	-71.4	-17.6
Germany, FR .....	31	71	-	-	187	-56.2	-36.3
Iceland .....	53	62	107	119	76	-13.8	-8.7
India .....	15	-	-	-	-	-	-
Ireland .....	-	-	-	-	58	-	-
Israel .....	-	-	-	-	217	-	-
Italy .....	379	291	182	1,745	1,714	30.2	-31.4
Jamaica .....	-	-	56	17	62	-	-
Japan .....	-	627	223	93	53	-100.0	-
Korea, Republic of .....	-	-	795	1,876	1,523	-	-
Netherlands .....	794	1,096	1,364	581	621	-27.5	6.3
Norway .....	96	138	198	140	142	-30.0	-9.2
Portugal .....	-	-	-	229	-	-	-
Saudi Arabia .....	-	42	48	22	-	-100.0	-
Spain .....	36	-	-	-	231	-	-37.3
Sweden .....	142	33	-	-	-	329.8	-
Turkey .....	-	-	-	-	197	-	-
United Kingdom .....	780	781	592	548	758	-1	.7
<b>Pennsylvania</b> .....	<b>6,966</b>	<b>7,908</b>	<b>8,698</b>	<b>9,246</b>	<b>8,279</b>	<b>-11.9</b>	<b>-4.2</b>
Belgium & Luxembourg .....	-	84	146	-	-	-100.0	-
Brazil .....	437	382	715	261	380	14.5	3.6
Canada .....	2,552	2,286	2,612	1,050	713	11.7	37.6
Denmark .....	-	672	467	801	1,589	-100.0	-
Dominican Republic .....	-	76	64	50	18	-100.0	-
Finland .....	-	-	229	283	544	-	-
France .....	-	86	-	89	9	-100.0	-
Germany, FR .....	788	775	135	256	383	1.6	19.7
Greece .....	-	-	-	491	-	-	-
Ireland .....	1,040	1,203	1,116	1,067	1,161	-13.6	-2.7
Israel .....	723	800	861	1,068	995	-9.7	-7.7
Italy .....	-	85	-	89	-	-100.0	-
Japan .....	213	373	903	1,057	916	-43.0	-30.6
Korea, Republic of .....	40	74	175	195	109	-46.1	-22.2

See footnotes at end of table.

**Table 60. Foreign Distribution of U.S. Coal by Major Coal-Exporting States and Destination, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Exporting State and Destination	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Pennsylvania (Continued)</b>							
Morocco.....	-	75	118	173	-	-100.0	-
Netherlands.....	527	104	482	732	593	408.8	-2.9
Norway.....	-	-	11	30	28	-	-
Peru.....	12	71	13	-	-	-83.1	-
Portugal.....	451	275	261	592	472	64.2	-1.1
South Africa, Rep of.....	179	366	384	112	-	-51.0	-
Spain.....	-	16	-	-	18	-100.0	-
Turkey.....	-	-	-	-	43	-	-
United Kingdom.....	-	101	-	851	299	-100.0	-
Venezuela.....	4	4	5	1	9	1.9	-19.8
<b>Utah.....</b>	<b>2,313</b>	<b>2,535</b>	<b>3,414</b>	<b>5,305</b>	<b>3,930</b>	<b>-8.8</b>	<b>-12.4</b>
Chile.....	-	-	38	445	170	-	-
China (Taiwan).....	406	117	597	648	323	246.4	5.8
Ecuador.....	-	-	38	-	-	-	-
Japan.....	1,907	2,418	2,499	4,058	3,000	-21.1	-10.7
Korea, Republic of.....	-	-	242	154	438	-	-
<b>Virginia.....</b>	<b>8,770</b>	<b>12,810</b>	<b>12,841</b>	<b>13,432</b>	<b>9,742</b>	<b>-31.5</b>	<b>-2.6</b>
Algeria.....	323	400	299	206	166	-19.2	18.1
Belgium & Luxembourg.....	474	948	945	1,078	764	-50.0	-11.2
Brazil.....	1,296	2,273	1,347	1,228	1,091	-43.0	4.4
Canada.....	734	719	508	387	445	2.0	13.3
China (Taiwan).....	144	179	180	-	-	-19.8	-
Egypt.....	296	548	178	835	333	-46.0	-2.9
Finland.....	-	-	55	-	-	-	-
France.....	1,342	1,964	984	910	625	-31.6	21.1
Germany, FR.....	-	-	93	-	68	-	-
Italy.....	1,123	1,817	2,318	2,198	1,474	-38.2	-6.6
Japan.....	135	218	1,508	2,300	1,796	-37.8	-47.6
Korea, Republic of.....	1,570	1,361	1,272	466	589	15.4	27.8
Netherlands.....	273	455	650	1,193	793	-39.9	-23.4
Portugal.....	-	-	62	145	105	-	-
Romania.....	-	51	72	32	-	-100.0	-
South Africa, Rep of.....	-	-	-	76	-	-	-
Spain.....	915	1,581	1,361	1,370	847	-42.1	1.9
Sweden.....	-	-	-	185	115	-	-
Turkey.....	-	-	81	24	-	-	-
United Kingdom.....	144	296	928	798	531	-51.4	-27.9
<b>West Virginia.....</b>	<b>22,848</b>	<b>37,531</b>	<b>38,459</b>	<b>42,044</b>	<b>44,321</b>	<b>-39.1</b>	<b>-15.3</b>
Algeria.....	48	-	-	-	-	-	-
Belgium & Luxembourg.....	298	774	1,463	2,182	2,020	-61.5	-38.0
Brazil.....	1,829	3,378	3,929	4,256	4,329	-45.9	-19.4
Bulgaria.....	438	857	1,008	1,214	1,360	-48.8	-24.6
Canada.....	9,474	10,500	8,291	7,222	5,784	-9.8	13.1
Chile.....	35	48	25	195	118	-27.2	-26.3
China (Taiwan).....	-	139	188	353	355	-100.0	-
Croatia.....	-	-	-	-	72	-	-
Denmark.....	-	-	70	-	189	-	-
Egypt.....	-	413	807	303	714	-100.0	-
Finland.....	188	455	324	507	792	-58.6	-30.2
France.....	1,939	2,740	2,579	3,676	4,408	-29.2	-18.6
Germany, FR.....	98	349	453	943	1,107	-71.9	-45.5
India.....	-	-	-	11	-	-	-
Israel.....	-	101	211	375	-	-100.0	-
Italy.....	1,950	2,948	3,879	4,965	5,138	-33.8	-21.5
Jamaica.....	-	30	8	36	-	-100.0	-
Japan.....	1,375	2,975	2,585	2,062	3,431	-53.8	-20.4
Korea, Republic of.....	270	879	829	1,050	1,013	-69.3	-28.1
Mexico.....	-	256	25	-	-	-100.0	-
Morocco.....	-	67	96	1,111	275	-100.0	-
Netherlands.....	1,039	2,152	2,425	1,636	3,628	-51.7	-26.8
Peru.....	5	-	-	-	-	-	-
Portugal.....	288	450	889	1,128	1,390	-35.9	-32.5
Romania.....	172	491	1,737	1,315	1,623	-65.0	-43.0
South Africa, Rep of.....	260	992	706	947	946	-73.8	-27.6

See footnotes at end of table.

**Table 60. Foreign Distribution of U.S. Coal by Major Coal-Exporting States and Destination, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Exporting State and Destination	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>West Virginia (Continued)</b>							
Spain .....	659	758	758	887	1,084	-13.1	-11.7
Sweden .....	420	740	657	882	1,352	-43.3	-25.3
Turkey .....	465	1,322	1,295	1,655	1,560	-64.8	-26.1
United Kingdom .....	1,597	3,716	3,223	3,133	1,633	-57.0	-5
<b>Wyoming .....</b>	<b>3,774</b>	<b>3,729</b>	<b>2,541</b>	<b>2,395</b>	<b>2,269</b>	<b>1.2</b>	<b>13.6</b>
Canada .....	2,951	1,931	818	443	32	52.8	210.9
Mexico .....	-	12	-	-	-	-100.0	-
Netherlands .....	-	-	-	63	-	-	-
Spain .....	823	1,786	1,723	1,889	2,237	-53.9	-22.1
<b>Major States Total<sup>R</sup> .....</b>	<b>54,969</b>	<b>78,371</b>	<b>81,189</b>	<b>88,620</b>	<b>86,023</b>	<b>-29.9</b>	<b>-10.6</b>
Algeria .....	371	400	299	206	166	-7.2	22.3
Argentina .....	52	305	259	216	306	-83.1	-35.9
Belgium & Luxembourg .....	1,652	2,552	3,506	4,030	3,724	-35.3	-18.4
Brazil .....	4,383	6,603	6,892	6,310	6,416	-33.6	-9.1
Bulgaria .....	438	1,002	1,252	1,422	1,488	-56.3	-26.3
Canada .....	17,209	16,895	12,967	10,280	7,750	1.9	22.1
Chile .....	35	48	64	640	287	-27.2	-41.1
China (Taiwan) .....	1,240	2,301	3,332	3,197	3,310	-46.1	-21.8
Croatia .....	-	-	-	-	72	-	-
Denmark .....	-	672	538	801	1,804	-100.0	-
Dominican Republic .....	-	76	64	50	18	-100.0	-
Ecuador .....	-	-	38	-	-	-	-
Egypt .....	296	961	985	1,138	1,158	-69.2	-28.9
Finland .....	188	455	609	794	1,337	-58.6	-38.7
France .....	3,403	5,212	4,132	5,223	5,305	-34.7	-10.5
Germany, FR .....	917	1,298	906	1,383	1,946	-29.4	-17.1
Greece .....	-	-	-	491	-	-	-
Iceland .....	53	62	107	119	76	-13.8	-8.7
India .....	15	-	-	11	-	-	-
Ireland .....	1,040	1,203	1,116	1,067	1,219	-13.6	-3.9
Israel .....	723	901	1,071	1,473	1,212	-19.8	-12.1
Italy .....	3,829	5,558	6,869	9,656	9,256	-31.1	-19.8
Jamaica .....	-	30	64	53	62	-100.0	-
Japan .....	5,648	7,382	8,473	10,774	11,205	-23.5	-15.7
Korea, Republic of .....	2,417	2,684	3,974	4,582	4,526	-10.0	-14.5
Mexico .....	-	1,599	1,177	758	-	-100.0	-
Morocco .....	-	141	214	1,284	275	-100.0	-
Netherlands .....	2,892	4,152	5,224	4,278	5,911	-30.3	-16.4
Norway .....	96	138	210	169	170	-30.0	-13.2
Peru .....	17	71	13	-	-	-76.5	-
Portugal .....	740	725	1,212	2,094	1,967	2.0	-21.7
Romania .....	172	1,093	2,083	1,517	2,115	-84.3	-46.6
Saudi Arabia .....	-	42	48	22	-	-100.0	-
South Africa, Rep of .....	439	1,359	1,090	1,192	946	-67.7	-17.4
Spain .....	2,509	4,389	4,042	4,197	4,465	-42.8	-13.4
Sweden .....	562	773	657	1,066	1,466	-27.3	-21.3
Turkey .....	576	1,533	1,784	2,005	2,116	-62.4	-27.8
United Kingdom .....	3,055	5,750	5,894	6,119	3,938	-46.9	-6.1
Venezuela .....	4	4	5	1	9	1.9	-19.8
Unknown .....	-	-	18	-	-	-	-
<b>Other States Total<sup>R</sup> .....</b>	<b>929</b>	<b>1,815</b>	<b>2,043</b>	<b>3,579</b>	<b>3,884</b>	<b>-48.8</b>	<b>-30.1</b>
Belgium & Luxembourg .....	-	-	-	76	-	-	-
Brazil .....	-	-	-	1	188	-	-
Canada .....	762	1,018	438	319	273	-25.1	29.3
Denmark .....	-	-	-	364	516	-	-
France .....	-	-	-	-	57	-	-
Germany, FR .....	-	-	56	325	722	-	-
Ireland .....	100	20	-	80	-	387.5	-
Italy .....	-	-	-	-	42	-	-
Japan .....	-	99	80	66	49	-100.0	-
Mexico .....	-	2	-	-	498	-100.0	-
Morocco .....	-	-	-	103	775	-	-
Netherlands .....	-	-	-	120	-	-	-
Sweden .....	-	-	-	25	-	-	-

See footnotes at end of table.

**Table 60. Foreign Distribution of U.S. Coal by Major Coal-Exporting States and Destination, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Exporting State and Destination	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Other States Total <sup>R</sup> (Continued)</b>							
United Kingdom.....	—	208	662	805	538	-100.0	—
Unknown.....	67	468	806	1,294	226	-85.7	-26.3
<b>U.S. Total.....</b>	<b>55,898</b>	<b>80,185</b>	<b>83,232</b>	<b>92,199</b>	<b>89,907</b>	<b>-30.3</b>	<b>-11.2</b>
Algeria.....	371	400	299	206	166	-7.2	22.3
Argentina.....	52	305	259	216	306	-83.1	-35.9
Belgium & Luxembourg.....	1,652	2,552	3,506	4,106	3,724	-35.3	-18.4
Brazil.....	4,383	6,603	6,892	6,312	6,605	-33.6	-9.7
Bulgaria.....	438	1,002	1,252	1,422	1,488	-56.3	-26.3
Canada.....	17,971	17,913	13,405	10,599	8,023	.3	22.3
Chile.....	35	48	64	640	287	-27.2	-41.1
China (Taiwan).....	1,240	2,301	3,332	3,197	3,310	-46.1	-21.8
Croatia.....	—	—	—	—	72	—	—
Denmark.....	—	672	538	1,165	2,320	-100.0	—
Dominican Republic.....	—	76	64	50	18	-100.0	—
Ecuador.....	—	—	38	—	—	—	—
Egypt.....	296	961	985	1,138	1,158	-69.2	-28.9
Finland.....	188	455	609	794	1,337	-58.6	-38.7
France.....	3,403	5,212	4,132	5,223	5,362	-34.7	-10.8
Germany, FR.....	917	1,298	962	1,708	2,668	-29.4	-23.4
Greece.....	—	—	—	491	—	—	—
Iceland.....	53	62	107	119	76	-13.8	-8.7
India.....	15	—	—	11	—	—	—
Ireland.....	1,140	1,224	1,116	1,147	1,219	-6.9	-1.7
Israel.....	723	901	1,071	1,473	1,212	-19.8	-12.1
Italy.....	3,829	5,558	6,869	9,656	9,298	-31.1	-19.9
Jamaica.....	—	30	64	53	62	-100.0	—
Japan.....	5,648	7,481	8,553	10,840	11,254	-24.5	-15.8
Korea, Republic of.....	2,417	2,684	3,974	4,582	4,526	-10.0	-14.5
Mexico.....	—	1,601	1,177	758	498	-100.0	—
Morocco.....	—	141	214	1,388	1,050	-100.0	—
Netherlands.....	2,892	4,152	5,224	4,398	5,911	-30.3	-16.4
Norway.....	96	138	210	169	170	-30.0	-13.2
Peru.....	17	71	13	—	—	-76.5	—
Portugal.....	740	725	1,212	2,094	1,967	2.0	-21.7
Romania.....	172	1,093	2,083	1,517	2,115	-84.3	-46.6
Saudi Arabia.....	—	42	48	22	—	-100.0	—
South Africa, Rep of.....	439	1,359	1,090	1,192	946	-67.7	-17.4
Spain.....	2,509	4,389	4,042	4,197	4,465	-42.8	-13.4
Sweden.....	562	773	657	1,091	1,466	-27.3	-21.3
Turkey.....	576	1,533	1,784	2,005	2,116	-62.4	-27.8
United Kingdom.....	3,055	5,957	6,556	6,925	4,476	-48.7	-9.1
Venezuela.....	4	4	5	1	9	1.9	-19.8
Unknown.....	67	468	825	1,294	226	-85.7	-26.3

<sup>R</sup> Revised Data.

Notes: Major coal-exporting States are those with total coal exports of over 500,000 short tons in 1999. Totals may not equal sum of components due to independent rounding.

Sources: Values shown for destinations other than Canada and Mexico are estimates based upon information reported on Energy Information Administration Form EIA-6A, "Coal Distribution Report," and coal export data presented in King's COALBASE (King Publishing Corporation, Knoxville, Tennessee). See the Explanatory Notes for a complete description of the methodology used to develop these estimates. Values shown for Canada and Mexico are based upon Form EIA-6A.

**Table 61. Foreign Distribution of U.S. Metallurgical Coal by Major Coal-Exporting States and Destination, 1995-1999**  
(Thousand Short Tons)

Coal-Exporting State and Destination	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Alabama</b> .....	<b>3,307</b>	<b>4,743</b>	<b>5,699</b>	<b>4,523</b>	<b>5,330</b>	<b>-30.3</b>	<b>-11.3</b>
Argentina .....	52	305	259	216	306	-83.1	-35.9
Belgium & Luxembourg .....	880	701	898	703	574	25.5	11.3
Brazil.....	821	570	901	566	564	44.1	9.8
Bulgaria.....	-	145	244	208	128	-100.0	-
Egypt.....	-	-	-	-	111	-	-
Germany, FR .....	-	103	224	184	201	-100.0	-
Italy .....	376	417	377	318	314	-10.0	4.6
Japan .....	199	349	459	861	1,358	-43.0	-38.1
Netherlands.....	258	345	303	73	217	-25.3	4.4
Romania.....	-	552	274	170	492	-100.0	-
South Africa, Rep of .....	-	-	-	57	-	-	-
Spain .....	77	248	200	52	48	-68.9	12.6
Turkey.....	111	211	408	326	302	-47.4	-22.1
United Kingdom.....	534	797	1,151	789	717	-33.0	-7.1
<b>Colorado</b> .....	-	-	-	<b>30</b>	-	-	-
Japan .....	-	-	-	30	-	-	-
<b>Kentucky</b> .....	<b>3,907</b>	<b>5,042</b>	<b>4,762</b>	<b>5,303</b>	<b>3,640</b>	<b>-22.5</b>	<b>1.8</b>
Belgium & Luxembourg .....	-	44	54	67	-	-100.0	-
Brazil.....	-	-	-	-	52	-	-
Canada .....	1,459	1,459	739	1,178	777	*	17.0
China (Taiwan).....	-	87	181	-	76	-100.0	-
France.....	121	422	569	548	262	-71.4	-17.6
Germany, FR .....	31	71	-	-	93	-56.2	-24.0
Iceland.....	53	62	107	119	76	-13.8	-8.7
India .....	15	-	-	-	-	-	-
Italy .....	379	291	-	132	-	30.2	-
Japan .....	-	518	223	93	53	-100.0	-
Korea, Republic of .....	-	-	795	1,876	1,523	-	-
Netherlands.....	794	1,096	1,255	581	102	-27.5	67.0
Norway.....	96	138	198	140	142	-30.0	-9.2
Saudi Arabia.....	-	42	48	22	-	-100.0	-
Spain .....	36	-	-	-	-	-	-
Sweden.....	142	33	-	-	-	329.8	-
United Kingdom.....	780	781	592	548	483	-1.1	12.7
<b>Pennsylvania</b> .....	<b>1,985</b>	<b>1,912</b>	<b>2,105</b>	<b>1,642</b>	<b>1,467</b>	<b>3.8</b>	<b>7.8</b>
Brazil.....	436	381	713	258	371	14.5	4.1
Canada .....	20	17	-	-	4	16.6	47.7
France.....	-	-	-	89	-	-	-
Germany, FR .....	758	598	-	-	66	26.7	83.8
Japan .....	213	373	903	920	916	-43.0	-30.6
Korea, Republic of .....	40	74	106	101	109	-46.1	-22.2
Netherlands.....	339	102	-	162	-	231.4	-
South Africa, Rep of .....	179	366	384	112	-	-51.0	-
<b>Utah</b> .....	-	-	<b>97</b>	<b>187</b>	-	-	-
Japan .....	-	-	97	187	-	-	-
<b>Virginia</b> .....	<b>8,036</b>	<b>12,649</b>	<b>12,288</b>	<b>12,760</b>	<b>8,921</b>	<b>-36.5</b>	<b>-2.6</b>
Algeria .....	323	400	299	206	166	-19.2	18.1
Belgium & Luxembourg .....	474	948	945	1,078	764	-50.0	-11.2
Brazil.....	1,296	2,273	1,347	1,228	1,091	-43.0	4.4
Canada .....	-	719	508	387	445	-100.0	-
China (Taiwan).....	144	179	180	-	-	-19.8	-
Egypt.....	296	548	178	835	333	-46.0	-2.9
Finland.....	-	-	55	-	-	-	-
France.....	1,342	1,964	984	910	625	-31.6	21.1
Germany, FR .....	-	-	93	-	68	-	-
Italy .....	1,123	1,655	1,776	1,696	758	-32.1	10.3
Japan .....	135	218	1,508	2,300	1,796	-37.8	-47.6
Korea, Republic of .....	1,570	1,361	1,272	466	589	15.4	27.8
Netherlands.....	273	455	650	1,193	793	-39.9	-23.4
Portugal.....	-	-	62	-	-	-	-
Romania.....	-	51	72	32	-	-100.0	-
South Africa, Rep of .....	-	-	-	76	-	-	-
Spain .....	915	1,581	1,350	1,370	847	-42.1	1.9

See footnotes at end of table.

**Table 61. Foreign Distribution of U.S. Metallurgical Coal by Major Coal-Exporting States and Destination, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Exporting State and Destination	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Virginia (Continued)</b>							
Sweden.....	-	-	-	185	115	-	-
Turkey.....	-	-	81	-	-	-	-
United Kingdom.....	144	296	928	798	531	-51.4	-27.9
<b>West Virginia</b> .....	<b>20,120</b>	<b>32,224</b>	<b>30,327</b>	<b>31,717</b>	<b>34,633</b>	<b>-37.6</b>	<b>-12.7</b>
Algeria.....	48	-	-	-	-	-	-
Belgium & Luxembourg.....	298	602	822	1,261	1,175	-50.5	-29.0
Brazil.....	1,829	3,378	3,927	4,247	4,329	-45.9	-19.4
Bulgaria.....	438	857	1,008	1,152	1,360	-48.8	-24.6
Canada.....	7,547	8,945	6,956	6,907	5,759	-15.6	7.0
Chile.....	-	-	-	43	-	-	-
China (Taiwan).....	-	139	188	353	355	-100.0	-
Egypt.....	-	413	807	303	714	-100.0	-
Finland.....	188	455	324	507	683	-58.6	-27.5
France.....	1,939	2,740	2,286	2,859	3,594	-29.2	-14.3
Germany, FR.....	98	349	419	584	254	-71.9	-21.1
India.....	-	-	-	11	-	-	-
Italy.....	1,950	2,326	2,084	2,361	2,873	-16.2	-9.2
Japan.....	1,323	2,975	2,585	2,062	3,222	-55.5	-19.9
Korea, Republic of.....	270	879	829	1,050	1,013	-69.3	-28.1
Mexico.....	-	-	25	-	-	-	-
Netherlands.....	850	1,979	1,977	1,223	1,523	-57.1	-13.6
Portugal.....	288	245	118	164	33	17.9	71.4
Romania.....	172	491	1,737	1,315	1,623	-65.0	-43.0
South Africa, Rep of.....	260	992	706	947	946	-73.8	-27.6
Spain.....	642	758	681	818	1,084	-15.3	-12.3
Sweden.....	420	740	657	882	1,352	-43.3	-25.3
Turkey.....	465	1,322	1,295	1,643	1,560	-64.8	-26.1
United Kingdom.....	1,095	1,637	897	1,024	1,182	-33.1	-1.9
<b>Major States Total</b> <sup>R</sup> .....	<b>37,355</b>	<b>56,569</b>	<b>55,278</b>	<b>56,162</b>	<b>54,039</b>	<b>-34.0</b>	<b>-8.8</b>
Algeria.....	371	400	299	206	166	-7.2	22.3
Argentina.....	52	305	259	216	306	-83.1	-35.9
Belgium & Luxembourg.....	1,652	2,296	2,719	3,109	2,513	-28.0	-9.9
Brazil.....	4,382	6,602	6,888	6,298	6,407	-33.6	-9.1
Bulgaria.....	438	1,002	1,252	1,361	1,488	-56.3	-26.3
Canada.....	9,026	11,140	8,203	8,472	6,986	-19.0	6.6
Chile.....	-	-	-	43	-	-	-
China (Taiwan).....	144	404	549	353	431	-64.5	-24.0
Egypt.....	296	961	985	1,138	1,158	-69.2	-28.9
Finland.....	188	455	379	507	683	-58.6	-27.5
France.....	3,403	5,126	3,839	4,406	4,481	-33.6	-6.6
Germany, FR.....	887	1,121	736	769	681	-20.9	6.8
Iceland.....	53	62	107	119	76	-13.8	-8.7
India.....	15	-	-	11	-	-	-
Italy.....	3,829	4,690	4,238	4,507	3,944	-18.4	-7.7
Japan.....	1,870	4,433	5,775	6,453	7,395	-57.8	-29.1
Korea, Republic of.....	1,880	2,313	3,001	3,493	3,234	-18.7	-12.7
Mexico.....	-	-	25	-	-	-	-
Netherlands.....	2,514	3,977	4,185	3,233	2,635	-36.8	-1.2
Norway.....	96	138	198	140	142	-30.0	-9.2
Portugal.....	288	245	179	164	33	17.9	71.4
Romania.....	172	1,093	2,083	1,517	2,115	-84.3	-46.6
Saudi Arabia.....	-	42	48	22	-	-100.0	-
South Africa, Rep of.....	439	1,359	1,090	1,192	946	-67.7	-17.4
Spain.....	1,670	2,587	2,231	2,240	1,979	-35.5	-4.1
Sweden.....	562	773	657	1,066	1,466	-27.3	-21.3
Turkey.....	576	1,533	1,784	1,969	1,862	-62.4	-25.4
United Kingdom.....	2,553	3,512	3,568	3,160	2,913	-27.3	-3.3
<b>Other States Total</b> <sup>R</sup> .....	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>188</b>	<b>-</b>	<b>-100.0</b>
Brazil.....	-	-	-	-	188	-	-
<b>U.S. Total</b> .....	<b>37,355</b>	<b>56,569</b>	<b>55,278</b>	<b>56,162</b>	<b>54,228</b>	<b>-34.0</b>	<b>-8.9</b>
Algeria.....	371	400	299	206	166	-7.2	22.3
Argentina.....	52	305	259	216	306	-83.1	-35.9
Belgium & Luxembourg.....	1,652	2,296	2,719	3,109	2,513	-28.0	-9.9

See footnotes at end of table.

**Table 61. Foreign Distribution of U.S. Metallurgical Coal by Major Coal-Exporting States and Destination, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Exporting State and Destination	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>U.S. Total (Continued)</b>							
Brazil.....	4,382	6,602	6,888	6,298	6,596	-33.6	-9.7
Bulgaria.....	438	1,002	1,252	1,361	1,488	-56.3	-26.3
Canada .....	9,026	11,140	8,203	8,472	6,986	-19.0	6.6
Chile.....	-	-	-	43	-	-	-
China (Taiwan).....	144	404	549	353	431	-64.5	-24.0
Egypt.....	296	961	985	1,138	1,158	-69.2	-28.9
Finland .....	188	455	379	507	683	-58.6	-27.5
France.....	3,403	5,126	3,839	4,406	4,481	-33.6	-6.6
Germany, FR .....	887	1,121	736	769	681	-20.9	6.8
Iceland.....	53	62	107	119	76	-13.8	-8.7
India .....	15	-	-	11	-	-	-
Italy .....	3,829	4,690	4,238	4,507	3,944	-18.4	-7
Japan .....	1,870	4,433	5,775	6,453	7,395	-57.8	-29.1
Korea, Republic of .....	1,880	2,313	3,001	3,493	3,234	-18.7	-12.7
Mexico .....	-	-	25	-	-	-	-
Netherlands.....	2,514	3,977	4,185	3,233	2,635	-36.8	-1.2
Norway.....	96	138	198	140	142	-30.0	-9.2
Portugal.....	288	245	179	164	33	17.9	71.4
Romania.....	172	1,093	2,083	1,517	2,115	-84.3	-46.6
Saudi Arabia.....	-	42	48	22	-	-100.0	-
South Africa, Rep of.....	439	1,359	1,090	1,192	946	-67.7	-17.4
Spain .....	1,670	2,587	2,231	2,240	1,979	-35.5	-4.1
Sweden.....	562	773	657	1,066	1,466	-27.3	-21.3
Turkey.....	576	1,533	1,784	1,969	1,862	-62.4	-25.4
United Kingdom.....	2,553	3,512	3,568	3,160	2,913	-27.3	-3.3

\* Data round to zero.

**R** Revised Data.

Notes: Major coal-exporting States are those with total coal exports of over 500,000 short tons in 1999. Totals may not equal sum of components due to independent rounding.

Sources: Values shown for destinations other than Canada and Mexico are estimates based upon information reported on Energy Information Administration Form EIA-6A, "Coal Distribution Report," and coal export data presented in King's COALBASE (King Publishing Corporation, Knoxville, Tennessee). See the Explanatory Notes for a complete description of the methodology used to develop these estimates. Values shown for Canada and Mexico are based upon Form EIA-6A.

**Table 62. Foreign Distribution of U.S. Steam Coal by Major Coal-Exporting States and Destination, 1995-1999**  
(Thousand Short Tons)

Coal-Exporting State and Destination	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Alabama</b> .....	-	<b>59</b>	<b>114</b>	<b>341</b>	<b>702</b>	<b>-100.0</b>	<b>-100.0</b>
Denmark.....	-	-	-	-	26	-	-
Italy .....	-	-	114	341	617	-	-
Netherlands.....	-	-	-	-	59	-	-
United Kingdom.....	-	59	-	-	-	-100.0	-
<b>Alaska</b> .....	<b>537</b>	<b>371</b>	<b>698</b>	<b>776</b>	<b>855</b>	<b>44.8</b>	<b>-11.0</b>
Korea, Republic of.....	537	371	662	776	855	44.8	-11.0
Unknown.....	-	-	37	-	-	-	-
<b>Colorado</b> .....	<b>1,819</b>	<b>1,754</b>	<b>1,523</b>	<b>1,385</b>	<b>900</b>	<b>3.7</b>	<b>19.2</b>
China (Taiwan).....	-	-	75	219	235	-	-
Israel.....	-	-	-	30	-	-	-
Japan .....	1,819	422	296	314	651	331.1	29.3
Korea, Republic of.....	-	-	-	65	-	-	-
Mexico .....	-	1,332	1,152	758	-	-100.0	-
Turkey.....	-	-	-	-	14	-	-
<b>Kentucky</b> .....	<b>728</b>	<b>1,889</b>	<b>2,458</b>	<b>3,841</b>	<b>6,055</b>	<b>-61.4</b>	<b>-41.1</b>
Belgium & Luxembourg.....	-	-	-	-	366	-	-
Canada .....	38	-	-	-	-	-	-
China (Taiwan).....	691	1,780	2,111	1,978	2,321	-61.2	-26.1
Finland .....	-	-	-	4	-	-	-
Germany, FR.....	-	-	-	-	95	-	-
Ireland.....	-	-	-	-	58	-	-
Israel.....	-	-	-	-	217	-	-
Italy .....	-	-	182	1,613	1,714	-	-
Jamaica.....	-	-	56	17	62	-	-
Japan .....	-	109	-	-	-	-100.0	-
Netherlands.....	-	-	109	-	519	-	-
Portugal.....	-	-	-	229	-	-	-
Spain .....	-	-	-	-	231	-	-
Turkey.....	-	-	-	-	197	-	-
United Kingdom.....	-	-	-	-	275	-	-
<b>Pennsylvania</b> .....	<b>4,981</b>	<b>5,996</b>	<b>6,593</b>	<b>7,604</b>	<b>6,812</b>	<b>-16.9</b>	<b>-7.5</b>
Belgium & Luxembourg.....	-	84	146	-	-	-100.0	-
Brazil.....	1	1	2	3	9	10.0	-38.6
Canada .....	2,533	2,269	2,612	1,050	708	11.6	37.5
Denmark.....	-	672	467	801	1,589	-100.0	-
Dominican Republic.....	-	76	64	50	18	-100.0	-
Finland .....	-	-	229	283	544	-	-
France.....	-	86	-	-	9	-100.0	-
Germany, FR.....	30	177	135	256	317	-83.2	-44.6
Greece .....	-	-	-	491	-	-	-
Ireland.....	1,040	1,203	1,116	1,067	1,161	-13.6	-2.7
Israel.....	723	800	861	1,068	995	-9.7	-7.7
Italy .....	-	85	-	89	-	-100.0	-
Japan .....	-	-	-	136	-	-	-
Korea, Republic of.....	-	-	70	94	-	-	-
Morocco.....	-	75	118	173	-	-100.0	-
Netherlands.....	188	1	482	570	593	NM	-24.9
Norway.....	-	-	11	30	28	-	-
Peru .....	12	71	13	-	-	-83.1	-
Portugal.....	451	275	261	592	472	64.2	-1.1
Spain .....	-	16	-	-	18	-100.0	-
Turkey.....	-	-	-	-	43	-	-
United Kingdom.....	-	101	-	851	299	-100.0	-
Venezuela.....	4	4	5	1	9	1.9	-19.8
<b>Utah</b> .....	<b>2,313</b>	<b>2,535</b>	<b>3,317</b>	<b>5,118</b>	<b>3,930</b>	<b>-8.8</b>	<b>-12.4</b>
Chile.....	-	-	38	445	170	-	-
China (Taiwan).....	406	117	597	648	323	246.4	5.8
Ecuador.....	-	-	38	-	-	-	-
Japan .....	1,907	2,418	2,402	3,871	3,000	-21.1	-10.7
Korea, Republic of.....	-	-	242	154	438	-	-
<b>Virginia</b> .....	<b>734</b>	<b>162</b>	<b>553</b>	<b>671</b>	<b>821</b>	<b>353.3</b>	<b>-2.8</b>
Canada .....	734	-	-	-	-	-	-

See footnotes at end of table.



**Table 62. Foreign Distribution of U.S. Steam Coal by Major Coal-Exporting States and Destination, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Exporting State and Destination	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Virginia (Continued)</b>							
Italy .....	-	162	542	502	716	-100.0	-
Portugal .....	-	-	-	145	105	-	-
Spain .....	-	-	11	-	-	-	-
Turkey .....	-	-	-	24	-	-	-
<b>West Virginia .....</b>	<b>2,728</b>	<b>5,307</b>	<b>8,132</b>	<b>10,327</b>	<b>9,688</b>	<b>-48.6</b>	<b>-27.2</b>
Belgium & Luxembourg .....	-	172	641	921	845	-100.0	-
Brazil .....	-	-	2	10	*	-	-
Bulgaria .....	-	-	-	62	-	-	-
Canada .....	1,927	1,555	1,335	315	25	23.9	196.8
Chile .....	35	48	25	152	118	-27.2	-26.3
Croatia .....	-	-	-	-	72	-	-
Denmark .....	-	-	70	-	189	-	-
Finland .....	-	-	-	-	109	-	-
France .....	-	-	293	817	815	-	-
Germany, FR .....	-	-	35	358	854	-	-
Israel .....	-	101	211	375	-	-100.0	-
Italy .....	-	621	1,794	2,604	2,266	-100.0	-
Jamaica .....	-	30	8	36	-	-100.0	-
Japan .....	52	-	-	-	209	-	-29.3
Mexico .....	-	256	-	-	-	-100.0	-
Morocco .....	-	67	96	1,111	275	-100.0	-
Netherlands .....	189	173	448	413	2,105	9.2	-45.2
Peru .....	5	-	-	-	-	-	-
Portugal .....	-	206	771	964	1,357	-100.0	-
Spain .....	17	-	77	69	-	-	-
Turkey .....	-	-	-	12	-	-	-
United Kingdom .....	503	2,079	2,326	2,109	451	-75.8	2.8
<b>Wyoming .....</b>	<b>3,774</b>	<b>3,729</b>	<b>2,541</b>	<b>2,395</b>	<b>2,269</b>	<b>1.2</b>	<b>13.6</b>
Canada .....	2,951	1,931	818	443	32	52.8	210.9
Mexico .....	-	12	-	-	-	-100.0	-
Netherlands .....	-	-	-	63	-	-	-
Spain .....	823	1,786	1,723	1,889	2,237	-53.9	-22.1
<b>Major States Total<sup>R</sup> .....</b>	<b>17,614</b>	<b>21,802</b>	<b>25,929</b>	<b>32,458</b>	<b>32,033</b>	<b>-19.2</b>	<b>-13.9</b>
Belgium & Luxembourg .....	-	256	787	921	1,211	-100.0	-
Brazil .....	1	1	4	12	9	10.0	-38.6
Bulgaria .....	-	-	-	62	-	-	-
Canada .....	8,183	5,754	4,764	1,808	765	42.2	80.8
Chile .....	35	48	64	597	287	-27.2	-41.1
China (Taiwan) .....	1,096	1,897	2,783	2,845	2,879	-42.2	-21.4
Croatia .....	-	-	-	-	72	-	-
Denmark .....	-	672	538	801	1,804	-100.0	-
Dominican Republic .....	-	76	64	50	18	-100.0	-
Ecuador .....	-	-	38	-	-	-	-
Finland .....	-	-	229	287	654	-	-
France .....	-	86	293	817	824	-100.0	-
Germany, FR .....	30	177	170	614	1,265	-83.2	-60.8
Greece .....	-	-	-	491	-	-	-
Ireland .....	1,040	1,203	1,116	1,067	1,219	-13.6	-3.9
Israel .....	723	901	1,071	1,473	1,212	-19.8	-12.1
Italy .....	-	868	2,632	5,149	5,312	-100.0	-
Jamaica .....	-	30	64	53	62	-100.0	-
Japan .....	3,778	2,949	2,698	4,321	3,860	28.1	-5
Korea, Republic of .....	537	371	973	1,089	1,292	44.8	-19.7
Mexico .....	-	1,599	1,152	758	-	-100.0	-
Morocco .....	-	141	214	1,284	275	-100.0	-
Netherlands .....	377	175	1,039	1,046	3,276	116.2	-41.7
Norway .....	-	-	11	30	28	-	-
Peru .....	17	71	13	-	-	-76.5	-
Portugal .....	451	481	1,032	1,930	1,933	-6.1	-30.5
Spain .....	840	1,802	1,811	1,957	2,486	-53.4	-23.8
Turkey .....	-	-	-	37	254	-	-
United Kingdom .....	503	2,238	2,326	2,959	1,025	-77.5	-16.3
Venezuela .....	4	4	5	1	9	1.9	-19.8
Unknown .....	-	-	37	-	-	-	-

See footnotes at end of table.

**Table 62. Foreign Distribution of U.S. Steam Coal by Major Coal-Exporting States and Destination, 1995-1999 (Continued)**  
(Thousand Short Tons)

Coal-Exporting State and Destination	1999	1998	1997	1996	1995	Percent Change 1998-1999	Average Annual Percent Change
							1995-1999
<b>Other States Total</b> <sup>R</sup>	<b>929</b>	<b>1,815</b>	<b>2,043</b>	<b>3,579</b>	<b>3,647</b>	<b>-48.8</b>	<b>-29.0</b>
Belgium & Luxembourg	-	-	-	76	-	-	-
Brazil	-	-	-	1	-	-	-
Canada	762	1,018	438	319	273	-25.1	29.3
Denmark	-	-	-	364	516	-	-
France	-	-	-	-	57	-	-
Germany, FR	-	-	56	325	722	-	-
Ireland	100	20	-	80	-	387.5	-
Italy	-	-	-	-	42	-	-
Japan	-	99	80	66	-	-100.0	-
Mexico	-	2	-	-	498	-100.0	-
Morocco	-	-	-	103	775	-	-
Netherlands	-	-	-	120	-	-	-
Sweden	-	-	-	25	-	-	-
United Kingdom	-	208	662	805	538	-100.0	-
Unknown	67	468	806	1,294	226	-85.7	-26.3
<b>U.S. Total</b>	<b>18,543</b>	<b>23,616</b>	<b>27,972</b>	<b>36,037</b>	<b>35,680</b>	<b>-21.5</b>	<b>-15.1</b>
Belgium & Luxembourg	-	256	787	997	1,211	-100.0	-
Brazil	1	1	4	14	9	10.0	-38.6
Bulgaria	-	-	-	62	-	-	-
Canada	8,945	6,772	5,202	2,127	1,037	32.1	71.4
Chile	35	48	64	597	287	-27.2	-41.1
China (Taiwan)	1,096	1,897	2,783	2,845	2,879	-42.2	-21.4
Croatia	-	-	-	-	72	-	-
Denmark	-	672	538	1,165	2,320	-100.0	-
Dominican Republic	-	76	64	50	18	-100.0	-
Ecuador	-	-	38	-	-	-	-
Finland	-	-	229	287	654	-	-
France	-	86	293	817	882	-100.0	-
Germany, FR	30	177	226	939	1,987	-83.2	-65.0
Greece	-	-	-	491	-	-	-
Ireland	1,140	1,224	1,116	1,147	1,219	-6.9	-1.7
Israel	723	901	1,071	1,473	1,212	-19.8	-12.1
Italy	-	868	2,632	5,149	5,354	-100.0	-
Jamaica	-	30	64	53	62	-100.0	-
Japan	3,778	3,048	2,778	4,387	3,860	24.0	-5
Korea, Republic of	537	371	973	1,089	1,292	44.8	-19.7
Mexico	-	1,601	1,152	758	498	-100.0	-
Morocco	-	141	214	1,388	1,050	-100.0	-
Netherlands	377	175	1,039	1,165	3,276	116.2	-41.7
Norway	-	-	11	30	28	-	-
Peru	17	71	13	-	-	-76.5	-
Portugal	451	481	1,032	1,930	1,933	-6.1	-30.5
Spain	840	1,802	1,811	1,957	2,486	-53.4	-23.8
Sweden	-	-	-	25	-	-	-
Turkey	-	-	-	37	254	-	-
United Kingdom	503	2,446	2,988	3,765	1,563	-79.4	-24.7
Venezuela	4	4	5	1	9	1.9	-19.8
Unknown	67	468	843	1,294	226	-85.7	-26.3

\* Data round to zero.

<sup>R</sup> Revised Data.

<sup>NM</sup> Not meaningful as value is greater than 500 percent.

Notes: Major coal-exporting States are those with total coal exports of over 500,000 short tons in 1999. Totals may not equal sum of components due to independent rounding.

Sources: Values shown for destinations other than Canada and Mexico are estimates based upon information reported on Energy Information Administration Form EIA-6A, "Coal Distribution Report," and coal export data presented in King's COALBASE (King Publishing Corporation, Knoxville, Tennessee). See the Explanatory Notes for a complete description of the methodology used to develop these estimates. Values shown for Canada and Mexico are based upon Form EIA-6A.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: ALABAMA</b>					
<b>Alabama</b> .....	<b>12,392</b>	<b>222</b>	<b>1,387</b>	<b>23</b>	<b>14,024</b>
Railroad.....	5,262	161	21	—	5,444
River.....	4,116	—	—	—	4,116
Truck.....	3,014	61	1,366	23	4,464
<b>Arkansas</b> .....	—	—	<b>113</b>	—	<b>113</b>
Railroad.....	—	—	113	—	113
<b>Georgia</b> .....	<b>194</b>	—	—	—	<b>194</b>
Railroad.....	194	—	—	—	194
<b>Indiana</b> .....	—	<b>1,302</b>	—	—	<b>1,302</b>
Railroad.....	—	1,302	—	—	1,302
<b>Mississippi</b> .....	—	—	<b>35</b>	—	<b>35</b>
Truck.....	—	—	35	—	35
<b>Pennsylvania</b> .....	—	<b>157</b>	—	—	<b>157</b>
Railroad.....	—	157	—	—	157
<b>Tennessee</b> .....	—	—	<b>47</b>	—	<b>47</b>
Truck.....	—	—	47	—	47
<b>Wisconsin</b> .....	<b>72</b>	—	—	—	<b>72</b>
Railroad.....	72	—	—	—	72
<b>Unknown State</b> .....	—	—	—	—	<b>1 46</b>
Unknown.....	—	—	—	—	1 46
<b>State Total</b> .....	<b>12,658</b>	<b>1,681</b>	<b>1,582</b>	<b>23</b>	<sup>1</sup> <b>15,990</b>
Railroad.....	5,528	1,620	134	—	7,282
River.....	4,116	—	—	—	4,116
Truck.....	3,014	61	1,448	23	4,546
Unknown.....	—	—	—	—	1 46
<b>ORIGIN: ALASKA</b>					
<b>Alaska</b> .....	<b>483</b>	—	—	<b>553</b>	<b>1,036</b>
Railroad.....	148	—	—	483	631
Truck.....	335	—	—	69	405
<b>State Total</b> .....	<b>483</b>	—	—	<b>553</b>	<b>1,036</b>
Railroad.....	148	—	—	483	631
Truck.....	335	—	—	69	405
<b>ORIGIN: ARIZONA</b>					
<b>Arizona</b> .....	<b>8,129</b>	—	—	—	<b>8,129</b>
Railroad.....	8,129	—	—	—	8,129
<b>Nevada</b> .....	<b>4,494</b>	—	—	—	<b>4,494</b>
Tramway, Conveyor, and Slurry Pipeline.....	4,494	—	—	—	4,494
<b>State Total</b> .....	<b>12,623</b>	—	—	—	<b>12,623</b>
Railroad.....	8,129	—	—	—	8,129
Tramway, Conveyor, and Slurry Pipeline.....	4,494	—	—	—	4,494
<b>ORIGIN: ARKANSAS</b>					
<b>Arkansas</b> .....	—	—	<b>4</b>	—	<b>4</b>
Truck.....	—	—	4	—	4
<b>Missouri</b> .....	—	—	<b>16</b>	—	<b>16</b>
Truck.....	—	—	16	—	16
<b>Texas</b> .....	—	—	<b>3</b>	—	<b>3</b>
Truck.....	—	—	3	—	3
<b>State Total</b> .....	—	—	<b>22</b>	—	<b>22</b>
Truck.....	—	—	22	—	22
<b>ORIGIN: COLORADO</b>					
<b>Arizona</b> .....	<b>547</b>	—	<b>98</b>	*	<b>645</b>
Railroad.....	547	—	98	—	645
Truck.....	—	—	—	*	*
<b>Arkansas</b> .....	—	—	<b>10</b>	—	<b>10</b>
Railroad.....	—	—	10	—	10

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: COLORADO (Continued)</b>					
California.....	-	-	10	-	10
Railroad.....	-	-	10	-	10
<b>Colorado</b> .....	<b>11,621</b>	-	<b>573</b>	<b>99</b>	<b>12,294</b>
Railroad.....	7,360	-	375	-	7,735
Truck.....	4,260	-	199	99	4,559
<b>Illinois</b> .....	<b>171</b>	-	<b>159</b>	-	<b>330</b>
Railroad.....	30	-	155	-	185
River.....	141	-	-	-	141
Truck.....	-	-	4	-	4
<b>Iowa</b> .....	<b>306</b>	-	<b>170</b>	-	<b>475</b>
Railroad.....	-	-	170	-	170
River.....	306	-	-	-	306
<b>Kansas</b> .....	<b>587</b>	-	-	-	<b>587</b>
Railroad.....	587	-	-	-	587
<b>Kentucky</b> .....	<b>2,946</b>	-	-	-	<b>2,946</b>
Railroad.....	2,946	-	-	-	2,946
<b>Michigan</b> .....	<b>55</b>	-	-	-	<b>55</b>
Railroad.....	12	-	-	-	12
River.....	43	-	-	-	43
<b>Mississippi</b> .....	<b>1,101</b>	-	-	-	<b>1,101</b>
Railroad.....	1,101	-	-	-	1,101
<b>Missouri</b> .....	<b>1,766</b>	-	-	-	<b>1,766</b>
Railroad.....	1,766	-	-	-	1,766
<b>Nebraska</b> .....	<b>6</b>	-	<b>14</b>	-	<b>20</b>
Railroad.....	6	-	14	-	20
<b>New Mexico</b> .....	<b>26</b>	-	<b>72</b>	<b>1</b>	<b>99</b>
Truck.....	26	-	72	1	99
<b>Tennessee</b> .....	<b>2,920</b>	-	-	-	<b>2,920</b>
Railroad.....	2,803	-	-	-	2,803
River.....	117	-	-	-	117
<b>Texas</b> .....	<b>2,610</b>	-	<b>340</b>	-	<b>2,951</b>
Railroad.....	2,610	-	340	-	2,951
<b>Utah</b> .....	<b>1,360</b>	<b>250</b>	-	-	<b>1,610</b>
Railroad.....	1,360	250	-	-	1,610
<b>Wisconsin</b> .....	<b>221</b>	-	-	-	<b>221</b>
River.....	221	-	-	-	221
<b>Wyoming</b> .....	-	-	<b>148</b>	-	<b>148</b>
Railroad.....	-	-	1	-	1
Truck.....	-	-	146	-	146
<b>Unknown State</b> .....	-	-	-	-	<b>1 8</b>
Unknown.....	-	-	-	-	1 8
<b>State Total</b> .....	<b>26,244</b>	<b>250</b>	<b>1,594</b>	<b>100</b>	<b>1 28,198</b>
Railroad.....	21,129	250	1,173	-	22,553
River.....	829	-	-	-	829
Truck.....	4,287	-	421	100	4,808
Unknown.....	-	-	-	-	1 8
<b>ORIGIN: ILLINOIS</b>					
<b>Alabama</b> .....	<b>1,338</b>	-	-	-	<b>1,338</b>
Railroad.....	661	-	-	-	661
River.....	577	-	-	-	577
Tidewater.....	100	-	-	-	100
<b>Florida</b> .....	<b>4,300</b>	-	-	-	<b>4,300</b>
Railroad.....	1,073	-	-	-	1,073
River.....	3,227	-	-	-	3,227
<b>Georgia</b> .....	<b>614</b>	-	-	-	<b>614</b>
Railroad.....	614	-	-	-	614
<b>Illinois</b> .....	<b>14,748</b>	-	<b>2,701</b>	<b>143</b>	<b>17,592</b>
Railroad.....	8,235	-	1,186	-	9,420
River.....	3,136	-	-	25	3,161
Truck.....	3,378	-	1,494	118	4,989
Tramway, Conveyor, and Slurry Pipeline.....	-	-	21	-	21
<b>Indiana</b> .....	<b>5,007</b>	-	<b>152</b>	<b>3</b>	<b>5,162</b>
Railroad.....	3,956	-	-	-	3,956
River.....	770	-	-	3	773
Truck.....	282	-	152	-	434

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: ILLINOIS (Continued)</b>					
<b>Iowa</b> .....	<b>1,418</b>	—	<b>425</b>	<b>219</b>	<b>2,061</b>
Railroad.....	203	—	11	—	214
River.....	1,215	—	221	219	1,655
Truck.....	—	—	193	*	193
<b>Kentucky</b> .....	<b>395</b>	—	—	*	<b>395</b>
Railroad.....	368	—	—	—	368
Truck.....	27	—	—	*	27
<b>Minnesota</b> .....	<b>72</b>	—	—	—	<b>72</b>
River.....	72	—	—	—	72
<b>Mississippi</b> .....	<b>1,433</b>	—	<b>38</b>	—	<b>1,472</b>
River.....	388	—	38	—	427
Tidewater.....	1,045	—	—	—	1,045
<b>Missouri</b> .....	<b>1,556</b>	—	<b>538</b>	<b>177</b>	<b>2,271</b>
Railroad.....	999	—	—	*	1,000
River.....	499	—	53	—	551
Truck.....	58	—	485	176	720
<b>New York</b> .....	—	—	—	<b>63</b>	<b>63</b>
Truck.....	—	—	—	63	63
<b>Oklahoma</b> .....	—	—	<b>1</b>	—	<b>1</b>
River.....	—	—	1	—	1
<b>Pennsylvania</b> .....	—	—	—	*	*
Truck.....	—	—	—	*	*
<b>Tennessee</b> .....	<b>3,109</b>	—	—	—	<b>3,109</b>
River.....	3,109	—	—	—	3,109
<b>Wisconsin</b> .....	<b>710</b>	—	<b>125</b>	—	<b>835</b>
Railroad.....	—	—	99	—	99
River.....	710	—	—	—	710
Great Lakes.....	—	—	26	—	26
<b>Unknown State</b> .....	—	—	—	—	<b>1 818</b>
Unknown.....	—	—	—	—	1 818
<b>State Total</b> .....	<b>34,700</b>	—	<b>3,980</b>	<b>604</b>	<b>1 40,102</b>
Railroad.....	16,108	—	1,296	*	17,405
River.....	13,703	—	313	247	14,263
Great Lakes.....	—	—	26	—	26
Tidewater.....	1,145	—	—	—	1,145
Truck.....	3,744	—	2,324	357	6,425
Tramway, Conveyor, and Slurry Pipeline.....	—	—	21	—	21
Unknown.....	—	—	—	—	1 818
<b>ORIGIN: INDIANA</b>					
<b>Illinois</b> .....	<b>965</b>	—	<b>27</b>	<b>12</b>	<b>1,004</b>
Railroad.....	740	—	27	—	767
Truck.....	225	—	—	12	237
<b>Indiana</b> .....	<b>28,908</b>	—	<b>1,551</b>	<b>283</b>	<b>30,742</b>
Railroad.....	20,377	—	188	*	20,565
River.....	—	—	293	—	293
Truck.....	7,907	—	1,070	283	9,260
Tramway, Conveyor, and Slurry Pipeline.....	624	—	—	—	624
<b>Iowa</b> .....	<b>40</b>	—	<b>69</b>	—	<b>109</b>
Railroad.....	40	—	69	—	109
<b>Kentucky</b> .....	<b>1,887</b>	—	—	—	<b>1,887</b>
Railroad.....	799	—	—	—	799
River.....	237	—	—	—	237
Truck.....	851	—	—	—	851
<b>Michigan</b> .....	<b>68</b>	—	—	—	<b>68</b>
Great Lakes.....	68	—	—	—	68
<b>Minnesota</b> .....	<b>83</b>	—	—	—	<b>83</b>
Railroad.....	83	—	—	—	83
<b>Missouri</b> .....	<b>6</b>	—	—	—	<b>6</b>
Railroad.....	6	—	—	—	6
<b>Ohio</b> .....	<b>72</b>	—	—	—	<b>72</b>
Railroad.....	46	—	—	—	46
River.....	26	—	—	—	26
<b>Oklahoma</b> .....	—	—	<b>1</b>	—	<b>1</b>
River.....	—	—	1	—	1

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: INDIANA (Continued)</b>					
<b>Wisconsin</b> .....	<b>163</b>	—	<b>65</b>	—	<b>228</b>
Railroad.....	163	—	65	—	228
<b>Unknown State</b> .....	—	—	—	—	<b>1 16</b>
Unknown.....	—	—	—	—	1 16
<b>State Total</b> .....	<b>32,191</b>	—	<b>1,713</b>	<b>295</b>	<b>1 34,215</b>
Railroad.....	22,254	—	349	*	22,603
River.....	263	—	294	—	557
Great Lakes.....	68	—	—	—	68
Truck.....	8,983	—	1,070	295	10,347
Tramway, Conveyor, and Slurry Pipeline.....	624	—	—	—	624
Unknown.....	—	—	—	—	1 16
<b>ORIGIN: KANSAS</b>					
<b>Kansas</b> .....	<b>406</b>	—	—	—	<b>406</b>
Truck.....	406	—	—	—	406
<b>Missouri</b> .....	<b>2</b>	—	—	—	<b>2</b>
Truck.....	2	—	—	—	2
<b>State Total</b> .....	<b>408</b>	—	—	—	<b>408</b>
Truck.....	408	—	—	—	408
<b>ORIGIN: KENTUCKY, TOTAL</b>					
<b>Alabama</b> .....	<b>2,054</b>	—	<b>234</b>	*	<b>2,288</b>
Railroad.....	967	—	118	—	1,085
River.....	1,087	—	90	—	1,178
Truck.....	—	—	26	*	26
<b>Arkansas</b> .....	—	—	<b>20</b>	—	<b>20</b>
Railroad.....	—	—	20	—	20
<b>Delaware</b> .....	<b>69</b>	—	—	—	<b>69</b>
Railroad.....	69	—	—	—	69
<b>District of Columbia</b> .....	—	—	—	<b>3</b>	<b>3</b>
Railroad.....	—	—	—	3	3
<b>Florida</b> .....	<b>12,668</b>	—	<b>2,543</b>	<b>6</b>	<b>15,218</b>
Railroad.....	11,315	—	774	6	12,096
River.....	1,353	—	1,769	—	3,122
<b>Georgia</b> .....	<b>14,662</b>	—	<b>1,783</b>	<b>5</b>	<b>16,450</b>
Railroad.....	14,662	—	1,593	—	16,255
River.....	—	—	21	—	21
Truck.....	—	—	169	5	174
<b>Illinois</b> .....	<b>30</b>	—	<b>1,336</b>	<b>26</b>	<b>1,391</b>
Railroad.....	19	—	848	—	867
River.....	10	—	364	26	400
Great Lakes.....	—	—	82	—	82
Truck.....	—	—	43	*	43
<b>Indiana</b> .....	<b>2,388</b>	<b>205</b>	<b>342</b>	<b>52</b>	<b>2,987</b>
Railroad.....	222	205	102	26	556
River.....	1,784	—	170	25	1,979
Truck.....	382	—	70	1	452
<b>Iowa</b> .....	<b>27</b>	—	<b>284</b>	<b>78</b>	<b>389</b>
Railroad.....	—	—	30	—	30
River.....	27	—	254	78	359
Truck.....	*	—	—	—	*
<b>Kentucky</b> .....	<b>24,558</b>	<b>448</b>	<b>625</b>	<b>298</b>	<b>2 25,939</b>
Railroad.....	8,050	423	4	*	8,477
River.....	5,170	—	66	168	5,404
Truck.....	11,338	25	554	130	12,047
Unknown.....	—	—	—	—	2 10
<b>Louisiana</b> .....	<b>264</b>	—	<b>15</b>	—	<b>279</b>
River.....	264	—	15	—	279
<b>Maine</b> .....	—	—	<b>168</b>	—	<b>168</b>
Tidewater.....	—	—	168	—	168
<b>Maryland</b> .....	<b>108</b>	—	—	—	<b>108</b>
Railroad.....	108	—	—	—	108

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: KENTUCKY, TOTAL (Continued)</b>					
<b>Massachusetts</b> .....	<b>296</b>	—	<b>29</b>	<b>28</b>	<b>353</b>
Railroad.....	166	—	29	28	223
River.....	82	—	—	—	82
Great Lakes.....	48	—	—	—	48
<b>Michigan</b> .....	<b>4,128</b>	<b>866</b>	<b>1,032</b>	<b>13</b>	<b>6,040</b>
Railroad.....	2,263	603	319	13	3,198
Great Lakes.....	397	263	691	—	1,351
Truck.....	1,468	—	23	*	1,491
<b>Minnesota</b> .....	<b>19</b>	—	<b>139</b>	—	<b>157</b>
River.....	15	—	110	—	126
Great Lakes.....	3	—	28	—	32
<b>Mississippi</b> .....	<b>1,043</b>	—	<b>77</b>	—	<b>1,119</b>
Railroad.....	1,039	—	—	—	1,039
River.....	4	—	77	—	81
<b>Missouri</b> .....	<b>221</b>	—	<b>51</b>	—	<b>273</b>
Railroad.....	218	—	—	—	218
River.....	3	—	51	—	54
<b>Nevada</b> .....	<b>11</b>	—	—	—	<b>11</b>
Railroad.....	11	—	—	—	11
<b>New Jersey</b> .....	<b>10</b>	—	—	—	<b>10</b>
Tidewater.....	10	—	—	—	10
<b>New York</b> .....	<b>557</b>	<b>82</b>	<b>537</b>	<b>39</b>	<b>1,216</b>
Railroad.....	557	82	537	—	1,176
River.....	—	—	—	39	39
<b>North Carolina</b> .....	<b>12,675</b>	—	<b>710</b>	<b>72</b>	<b>13,457</b>
Railroad.....	12,360	—	566	72	12,998
Truck.....	315	—	144	*	459
<b>North Dakota</b> .....	—	—	—	*	*
Truck.....	—	—	—	*	*
<b>Ohio</b> .....	<b>7,993</b>	<b>614</b>	<b>453</b>	<b>81</b>	<b>9,140</b>
Railroad.....	1,875	614	106	—	2,595
River.....	5,986	—	157	32	6,174
Great Lakes.....	—	—	29	—	29
Truck.....	133	—	161	49	342
<b>Oklahoma</b> .....	—	—	<b>46</b>	—	<b>46</b>
River.....	—	—	46	—	46
<b>Oregon</b> .....	—	—	<b>7</b>	—	<b>7</b>
Railroad.....	—	—	7	—	7
<b>Pennsylvania</b> .....	<b>113</b>	<b>102</b>	<b>452</b>	<b>47</b>	<b>714</b>
Railroad.....	66	61	208	1	336
River.....	18	40	184	46	288
Truck.....	28	1	61	*	89
<b>South Carolina</b> .....	<b>10,342</b>	—	<b>1,378</b>	<b>5</b>	<b>11,724</b>
Railroad.....	10,342	—	1,332	5	11,678
Truck.....	—	—	46	*	46
<b>Tennessee</b> .....	<b>15,121</b>	—	<b>1,572</b>	<b>79</b>	<b>16,772</b>
Railroad.....	7,465	—	917	11	8,392
River.....	7,414	—	262	67	7,743
Truck.....	242	—	393	1	636
<b>Texas</b> .....	<b>151</b>	—	<b>2</b>	—	<b>153</b>
Railroad.....	151	—	—	—	151
River.....	—	—	2	—	2
<b>Virginia</b> .....	<b>4,836</b>	—	<b>755</b>	<b>77</b>	<b>5,668</b>
Railroad.....	4,306	—	619	45	4,971
River.....	444	—	—	—	444
Tidewater.....	10	—	—	—	10
Truck.....	76	—	136	31	243
<b>West Virginia</b> .....	<b>349</b>	—	<b>75</b>	—	<b>425</b>
Railroad.....	12	—	37	—	49
River.....	254	—	12	—	266
Truck.....	84	—	27	—	110
<b>Wisconsin</b> .....	<b>203</b>	—	<b>593</b>	<b>156</b>	<b>952</b>
Railroad.....	49	—	311	*	360
River.....	64	—	39	143	246
Great Lakes.....	90	—	242	—	332
Truck.....	—	—	2	12	14

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: KENTUCKY, TOTAL (Continued)</b>					
Unknown State.....	-	-	-	-	1 450
Unknown.....	-	-	-	-	1 450
<b>State Total.....</b>	<b>114,895</b>	<b>2,317</b>	<b>15,259</b>	<b>1,066</b>	<sup>3</sup> <b>133,997</b>
Railroad.....	76,293	1,988	8,478	211	86,969
River.....	23,979	40	3,689	625	28,334
Great Lakes.....	538	263	1,072	-	1,874
Tidewater.....	19	-	168	-	187
Truck.....	14,065	25	1,852	230	16,172
Unknown.....	-	-	-	-	<sup>3</sup> 460
<b>ORIGIN: KENTUCKY, EASTERN</b>					
<b>Alabama.....</b>	<b>181</b>	-	<b>234</b>	*	<b>415</b>
Railroad.....	159	-	118	-	276
River.....	22	-	90	-	112
Truck.....	-	-	26	*	26
<b>Arkansas.....</b>	-	-	<b>20</b>	-	<b>20</b>
Railroad.....	-	-	20	-	20
<b>Delaware.....</b>	<b>69</b>	-	-	-	<b>69</b>
Railroad.....	69	-	-	-	69
<b>District of Columbia.....</b>	-	-	-	<b>3</b>	<b>3</b>
Railroad.....	-	-	-	3	3
<b>Florida.....</b>	<b>11,254</b>	-	<b>2,543</b>	<b>6</b>	<b>13,804</b>
Railroad.....	11,254	-	774	6	12,035
River.....	-	-	1,769	-	1,769
<b>Georgia.....</b>	<b>14,662</b>	-	<b>1,783</b>	<b>5</b>	<b>16,450</b>
Railroad.....	14,662	-	1,593	-	16,255
River.....	-	-	21	-	21
Truck.....	-	-	169	5	174
<b>Illinois.....</b>	<b>19</b>	-	<b>1,191</b>	<b>26</b>	<b>1,236</b>
Railroad.....	19	-	848	-	867
River.....	-	-	219	26	245
Great Lakes.....	-	-	82	-	82
Truck.....	-	-	43	*	43
<b>Indiana.....</b>	<b>2,376</b>	<b>205</b>	<b>309</b>	<b>52</b>	<b>2,942</b>
Railroad.....	222	205	102	26	556
River.....	1,777	-	170	25	1,973
Truck.....	377	-	37	1	414
<b>Iowa.....</b>	<b>5</b>	-	<b>209</b>	<b>54</b>	<b>268</b>
Railroad.....	-	-	30	-	30
River.....	5	-	178	54	237
Truck.....	*	-	-	-	*
<b>Kentucky.....</b>	<b>8,586</b>	<b>448</b>	<b>580</b>	<b>297</b>	<sup>2</sup> <b>9,921</b>
Railroad.....	2,690	423	4	*	3,117
River.....	1,749	-	66	168	1,984
Truck.....	4,147	25	509	128	4,809
Unknown.....	-	-	-	-	<sup>2</sup> 10
<b>Louisiana.....</b>	<b>1</b>	-	<b>15</b>	-	<b>16</b>
River.....	1	-	15	-	16
<b>Maine.....</b>	-	-	<b>168</b>	-	<b>168</b>
Tidewater.....	-	-	168	-	168
<b>Maryland.....</b>	<b>108</b>	-	-	-	<b>108</b>
Railroad.....	108	-	-	-	108
<b>Massachusetts.....</b>	<b>296</b>	-	<b>29</b>	<b>28</b>	<b>353</b>
Railroad.....	166	-	29	28	223
River.....	82	-	-	-	82
Great Lakes.....	48	-	-	-	48
<b>Michigan.....</b>	<b>4,128</b>	<b>866</b>	<b>1,032</b>	<b>13</b>	<b>6,040</b>
Railroad.....	2,263	603	319	13	3,198
Great Lakes.....	397	263	691	-	1,351
Truck.....	1,468	-	23	*	1,491
<b>Minnesota.....</b>	<b>3</b>	-	<b>139</b>	-	<b>142</b>
River.....	-	-	110	-	110
Great Lakes.....	3	-	28	-	32
<b>Mississippi.....</b>	<b>1,039</b>	-	<b>3</b>	-	<b>1,042</b>
Railroad.....	1,039	-	-	-	1,039
River.....	-	-	3	-	3

See footnotes at end of table.



**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: KENTUCKY, EASTERN (Continued)</b>					
<b>Missouri</b> .....	<b>218</b>	-	<b>43</b>	-	<b>261</b>
Railroad.....	218	-	-	-	218
River.....	-	-	43	-	43
<b>Nevada</b> .....	<b>11</b>	-	-	-	<b>11</b>
Railroad.....	11	-	-	-	11
<b>New Jersey</b> .....	<b>10</b>	-	-	-	<b>10</b>
Tidewater.....	10	-	-	-	10
<b>New York</b> .....	<b>557</b>	<b>82</b>	<b>537</b>	<b>39</b>	<b>1,216</b>
Railroad.....	557	82	537	-	1,176
River.....	-	-	-	39	39
<b>North Carolina</b> .....	<b>12,675</b>	-	<b>710</b>	<b>72</b>	<b>13,457</b>
Railroad.....	12,360	-	566	72	12,998
Truck.....	315	-	144	*	459
<b>North Dakota</b> .....	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>Ohio</b> .....	<b>7,935</b>	<b>614</b>	<b>453</b>	<b>81</b>	<b>9,083</b>
Railroad.....	1,875	614	106	-	2,595
River.....	5,928	-	157	32	6,117
Great Lakes.....	-	-	29	-	29
Truck.....	133	-	161	49	342
<b>Oklahoma</b> .....	-	-	<b>46</b>	-	<b>46</b>
River.....	-	-	46	-	46
<b>Oregon</b> .....	-	-	<b>7</b>	-	<b>7</b>
Railroad.....	-	-	7	-	7
<b>Pennsylvania</b> .....	<b>113</b>	<b>102</b>	<b>452</b>	<b>47</b>	<b>714</b>
Railroad.....	66	61	208	1	336
River.....	18	40	184	46	288
Truck.....	28	1	61	*	89
<b>South Carolina</b> .....	<b>10,342</b>	-	<b>1,378</b>	<b>5</b>	<b>11,724</b>
Railroad.....	10,342	-	1,332	5	11,678
Truck.....	-	-	46	*	46
<b>Tennessee</b> .....	<b>6,016</b>	-	<b>1,525</b>	<b>46</b>	<b>7,587</b>
Railroad.....	5,618	-	917	11	6,546
River.....	157	-	219	34	410
Truck.....	241	-	390	1	632
<b>Texas</b> .....	<b>151</b>	-	<b>2</b>	-	<b>153</b>
Railroad.....	151	-	-	-	151
River.....	-	-	2	-	2
<b>Virginia</b> .....	<b>4,836</b>	-	<b>755</b>	<b>77</b>	<b>5,668</b>
Railroad.....	4,306	-	619	45	4,971
River.....	444	-	-	-	444
Tidewater.....	10	-	-	-	10
Truck.....	76	-	136	31	243
<b>West Virginia</b> .....	<b>349</b>	-	<b>75</b>	-	<b>425</b>
Railroad.....	12	-	37	-	49
River.....	254	-	12	-	266
Truck.....	84	-	27	-	110
<b>Wisconsin</b> .....	<b>203</b>	-	<b>372</b>	<b>156</b>	<b>730</b>
Railroad.....	49	-	105	*	155
River.....	64	-	23	143	230
Great Lakes.....	90	-	242	-	332
Truck.....	-	-	2	12	14
<b>Unknown State</b> .....	-	-	-	-	<b>1 199</b>
Unknown.....	-	-	-	-	1 199
<b>State Total</b> .....	<b>86,144</b>	<b>2,317</b>	<b>14,610</b>	<b>1,007</b>	<sup>3</sup> <b>104,287</b>
Railroad.....	68,217	1,988	8,272	211	78,688
River.....	10,502	40	3,328	567	14,437
Great Lakes.....	538	263	1,072	-	1,874
Tidewater.....	19	-	168	-	187
Truck.....	6,867	25	1,771	228	8,891
Unknown.....	-	-	-	-	<sup>3</sup> 209
<b>ORIGIN: KENTUCKY, WESTERN</b>					
<b>Alabama</b> .....	<b>1,873</b>	-	-	-	<b>1,873</b>
Railroad.....	808	-	-	-	808
River.....	1,065	-	-	-	1,065

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: KENTUCKY, WESTERN (Continued)</b>					
<b>Florida</b> .....	<b>1,414</b>	-	-	-	<b>1,414</b>
Railroad.....	61	-	-	-	61
River.....	1,353	-	-	-	1,353
<b>Illinois</b> .....	<b>10</b>	-	<b>145</b>	-	<b>155</b>
River.....	10	-	145	-	155
<b>Indiana</b> .....	<b>12</b>	-	<b>33</b>	-	<b>45</b>
River.....	7	-	-	-	7
Truck.....	5	-	33	-	38
<b>Iowa</b> .....	<b>21</b>	-	<b>76</b>	<b>25</b>	<b>122</b>
River.....	21	-	76	25	122
<b>Kentucky</b> .....	<b>15,972</b>	-	<b>45</b>	<b>2</b>	<b>16,019</b>
Railroad.....	5,360	-	-	-	5,360
River.....	3,421	-	-	-	3,421
Truck.....	7,191	-	45	2	7,238
<b>Louisiana</b> .....	<b>262</b>	-	-	-	<b>262</b>
River.....	262	-	-	-	262
<b>Minnesota</b> .....	<b>15</b>	-	-	-	<b>15</b>
River.....	15	-	-	-	15
<b>Mississippi</b> .....	<b>4</b>	-	<b>74</b>	-	<b>78</b>
River.....	4	-	74	-	78
<b>Missouri</b> .....	<b>3</b>	-	<b>8</b>	-	<b>11</b>
River.....	3	-	8	-	11
<b>Ohio</b> .....	<b>58</b>	-	-	-	<b>58</b>
River.....	58	-	-	-	58
<b>Tennessee</b> .....	<b>9,105</b>	-	<b>46</b>	<b>33</b>	<b>9,185</b>
Railroad.....	1,847	-	-	-	1,847
River.....	7,257	-	43	33	7,333
Truck.....	2	-	3	-	5
<b>Virginia</b> .....	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>Wisconsin</b> .....	-	-	<b>221</b>	-	<b>221</b>
Railroad.....	-	-	206	-	206
River.....	-	-	16	-	16
<b>Unknown State</b> .....	-	-	-	-	<b>1 251</b>
Unknown.....	-	-	-	-	1 251
<b>State Total</b> .....	<b>28,751</b>	-	<b>648</b>	<b>59</b>	<b>1 29,710</b>
Railroad.....	8,076	-	206	-	8,281
River.....	13,477	-	362	57	13,896
Truck.....	7,198	-	81	2	7,281
Unknown.....	-	-	-	-	1 251
<b>ORIGIN: LOUISIANA</b>					
<b>Louisiana</b> .....	<b>2,952</b>	-	-	-	<b>2,952</b>
Truck.....	716	-	-	-	716
Tramway, Conveyor, and Slurry Pipeline.....	2,236	-	-	-	2,236
<b>State Total</b> .....	<b>2,952</b>	-	-	-	<b>2,952</b>
Truck.....	716	-	-	-	716
Tramway, Conveyor, and Slurry Pipeline.....	2,236	-	-	-	2,236
<b>ORIGIN: MARYLAND</b>					
<b>Delaware</b> .....	<b>139</b>	-	-	-	<b>139</b>
Railroad.....	139	-	-	-	139
<b>Maryland</b> .....	<b>467</b>	-	<b>208</b>	<b>2</b>	<b>677</b>
Railroad.....	183	-	-	-	183
Truck.....	284	-	208	2	495
<b>Pennsylvania</b> .....	<b>2</b>	-	-	-	<b>2</b>
Truck.....	2	-	-	-	2
<b>West Virginia</b> .....	<b>3,055</b>	-	<b>1</b>	*	<b>3,056</b>
Truck.....	3,055	-	1	*	3,056
<b>Unknown State</b> .....	-	-	-	-	<b>1 1</b>
Unknown.....	-	-	-	-	1 1
<b>State Total</b> .....	<b>3,663</b>	-	<b>209</b>	<b>2</b>	<b>1 3,875</b>
Railroad.....	322	-	-	-	322

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: MARYLAND (Continued)</b>					
<b>State Total</b>					
Truck .....	3,341	-	209	2	3,552
Unknown .....	-	-	-	-	1 1
<b>ORIGIN: MISSISSIPPI</b>					
<b>Mississippi</b> .....	<b>18</b>	-	-	-	<b>18</b>
Tramway, Conveyor, and Slurry Pipeline .....	18	-	-	-	18
<b>State Total</b> .....	<b>18</b>	-	-	-	<b>18</b>
Tramway, Conveyor, and Slurry Pipeline .....	18	-	-	-	18
<b>ORIGIN: MISSOURI</b>					
<b>Kansas</b> .....	-	-	-	<b>1</b>	<b>1</b>
Truck .....	-	-	-	1	1
<b>Missouri</b> .....	<b>312</b>	-	<b>78</b>	<b>1</b>	<b>391</b>
Truck .....	312	-	78	1	391
<b>State Total</b> .....	<b>312</b>	-	<b>78</b>	<b>3</b>	<b>392</b>
Truck .....	312	-	78	3	392
<b>ORIGIN: MONTANA</b>					
<b>Arizona</b> .....	<b>69</b>	-	-	-	<b>69</b>
Railroad .....	69	-	-	-	69
<b>Illinois</b> .....	<b>1,769</b>	-	-	-	<b>1,769</b>
Railroad .....	1,769	-	-	-	1,769
<b>Indiana</b> .....	<b>1,308</b>	-	-	-	<b>1,308</b>
Railroad .....	1,308	-	-	-	1,308
<b>Kansas</b> .....	<b>1,319</b>	-	-	-	<b>1,319</b>
Railroad .....	1,319	-	-	-	1,319
<b>Michigan</b> .....	<b>9,688</b>	-	<b>264</b>	-	<b>9,952</b>
Railroad .....	3,474	-	-	-	3,474
Great Lakes .....	6,214	-	264	-	6,478
<b>Minnesota</b> .....	<b>9,429</b>	-	-	-	<b>9,429</b>
Railroad .....	9,429	-	-	-	9,429
<b>Mississippi</b> .....	<b>1,926</b>	-	-	-	<b>1,926</b>
Railroad .....	1,926	-	-	-	1,926
<b>Montana</b> .....	<b>9,861</b>	-	<b>483</b>	<b>3</b>	<b>10,346</b>
Railroad .....	9	-	-	-	9
Truck .....	223	-	64	3	289
Tramway, Conveyor, and Slurry Pipeline .....	9,629	-	419	-	10,048
<b>North Dakota</b> .....	<b>810</b>	-	-	<b>67</b>	<b>877</b>
Railroad .....	810	-	-	67	877
<b>Ohio</b> .....	-	-	<b>168</b>	-	<b>168</b>
Great Lakes .....	-	-	168	-	168
<b>Oregon</b> .....	<b>1,507</b>	-	-	-	<b>1,507</b>
Railroad .....	1,507	-	-	-	1,507
<b>South Dakota</b> .....	<b>1,496</b>	-	-	-	<b>1,496</b>
Railroad .....	1,496	-	-	-	1,496
<b>Wisconsin</b> .....	<b>482</b>	-	-	-	<b>482</b>
Railroad .....	482	-	-	-	482
<b>State Total</b> .....	<b>39,664</b>	-	<b>915</b>	<b>69</b>	<b>40,649</b>
Railroad .....	23,598	-	-	67	23,665
Great Lakes .....	6,214	-	433	-	6,647
Truck .....	223	-	64	3	289
Tramway, Conveyor, and Slurry Pipeline .....	9,629	-	419	-	10,048
<b>ORIGIN: NEW MEXICO</b>					
<b>Arizona</b> .....	<b>10,849</b>	-	<b>497</b>	-	<b>11,346</b>
Railroad .....	10,849	-	497	-	11,346
<b>California</b> .....	-	-	<b>6</b>	-	<b>6</b>
Railroad .....	-	-	6	-	6

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: NEW MEXICO (Continued)</b>					
<b>Colorado</b> .....	—	—	<b>1</b>	—	<b>1</b>
Railroad.....	—	—	1	—	1
<b>New Mexico</b> .....	<b>16,417</b>	—	—	<b>5</b>	<sup>2</sup> <b>16,423</b>
Railroad.....	9,378	—	—	—	9,378
Truck.....	—	—	—	5	5
Tramway, Conveyor, and Slurry Pipeline.....	7,039	—	—	—	7,039
Unknown.....	—	—	—	—	2 0
<b>Oklahoma</b> .....	—	—	<b>64</b>	—	<b>64</b>
Railroad.....	—	—	64	—	64
<b>Texas</b> .....	—	—	<b>395</b>	—	<b>395</b>
Railroad.....	—	—	395	—	395
<b>Wisconsin</b> .....	<b>216</b>	—	—	—	<b>216</b>
Railroad.....	216	—	—	—	216
<b>State Total</b> .....	<b>27,482</b>	—	<b>963</b>	<b>5</b>	<sup>2</sup> <b>28,450</b>
Railroad.....	20,443	—	963	—	21,406
Truck.....	—	—	—	5	5
Tramway, Conveyor, and Slurry Pipeline.....	7,039	—	—	—	7,039
Unknown.....	—	—	—	—	2 0
<b>ORIGIN: NORTH DAKOTA</b>					
<b>North Dakota</b> .....	<b>24,631</b>	—	<b>6,257</b>	<b>50</b>	<b>30,938</b>
Railroad.....	502	—	—	—	502
Truck.....	4,492	—	—	50	4,542
Tramway, Conveyor, and Slurry Pipeline.....	19,636	—	6,257	—	25,893
<b>State Total</b> .....	<b>24,631</b>	—	<b>6,257</b>	<b>50</b>	<b>30,938</b>
Railroad.....	502	—	—	—	502
Truck.....	4,492	—	—	50	4,542
Tramway, Conveyor, and Slurry Pipeline.....	19,636	—	6,257	—	25,893
<b>ORIGIN: OHIO</b>					
<b>Alabama</b> .....	<b>31</b>	—	—	—	<b>31</b>
River.....	31	—	—	—	31
<b>Connecticut</b> .....	—	—	—	*	*
Truck.....	—	—	—	*	*
<b>Georgia</b> .....	<b>42</b>	—	—	—	<b>42</b>
Railroad.....	42	—	—	—	42
<b>Indiana</b> .....	<b>29</b>	—	<b>61</b>	—	<b>91</b>
River.....	7	—	—	—	7
Truck.....	22	—	61	—	84
<b>Kentucky</b> .....	<b>123</b>	—	—	—	<b>123</b>
River.....	123	—	—	—	123
<b>Michigan</b> .....	<b>158</b>	—	<b>76</b>	<b>5</b>	<b>239</b>
Great Lakes.....	2	—	1	—	2
Truck.....	156	—	76	5	237
<b>Minnesota</b> .....	—	—	—	<b>5</b>	<b>5</b>
Truck.....	—	—	—	5	5
<b>New Hampshire</b> .....	<b>7</b>	—	—	—	<b>7</b>
Railroad.....	7	—	—	—	7
<b>New Jersey</b> .....	<b>16</b>	—	—	—	<b>16</b>
Railroad.....	16	—	—	—	16
<b>New York</b> .....	<b>1</b>	—	—	<b>19</b>	<b>20</b>
Railroad.....	—	—	—	16	16
Truck.....	1	—	—	3	4
<b>Ohio</b> .....	<b>19,178</b>	—	<b>1,242</b>	<b>101</b>	<b>20,521</b>
Railroad.....	1,335	—	—	—	1,335
River.....	4,649	—	—	—	4,649
Great Lakes.....	*	—	—	—	*
Truck.....	6,707	—	1,242	101	8,050
Tramway, Conveyor, and Slurry Pipeline.....	6,487	—	—	—	6,487
<b>Pennsylvania</b> .....	<b>219</b>	—	<b>139</b>	*	<b>358</b>
Railroad.....	*	—	—	—	*
River.....	167	—	—	—	167
Truck.....	52	—	139	*	191

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: OHIO (Continued)</b>					
<b>West Virginia</b> .....	<b>1,609</b>	-	-	-	<b>1,609</b>
River.....	1,609	-	-	-	1,609
<b>Wisconsin</b> .....	*	-	-	-	*
Railroad.....	*	-	-	-	*
<b>Unknown State</b> .....	-	-	-	-	<b>1 7</b>
Unknown.....	-	-	-	-	1 7
<b>State Total</b> .....	<b>21,413</b>	-	<b>1,518</b>	<b>130</b>	<sup>1</sup> <b>23,068</b>
Railroad.....	1,400	-	-	16	1,416
River.....	6,585	-	-	-	6,585
Great Lakes.....	2	-	1	-	3
Truck.....	6,939	-	1,518	114	8,570
Tramway, Conveyor, and Slurry Pipeline.....	6,487	-	-	-	6,487
Unknown.....	-	-	-	-	1 7
<b>ORIGIN: OKLAHOMA</b>					
<b>Arkansas</b> .....	-	-	<b>66</b>	-	<b>66</b>
Truck.....	-	-	66	-	66
<b>Kansas</b> .....	<b>71</b>	-	<b>5</b>	<b>5</b>	<b>82</b>
Truck.....	71	-	5	5	82
<b>Oklahoma</b> .....	<b>1,204</b>	-	<b>247</b>	<b>2</b>	<b>1,453</b>
Truck.....	1,204	-	247	2	1,453
<b>Texas</b> .....	-	-	<b>56</b>	-	<b>56</b>
Truck.....	-	-	56	-	56
<b>State Total</b> .....	<b>1,275</b>	-	<b>375</b>	<b>7</b>	<b>1,657</b>
Truck.....	1,275	-	375	7	1,657
<b>ORIGIN: PENNSYLVANIA, TOTAL</b>					
<b>Alabama</b> .....	<b>306</b>	-	<b>11</b>	-	<b>317</b>
Railroad.....	200	-	*	-	200
River.....	106	-	11	-	117
Truck.....	-	-	*	-	*
<b>Arizona</b> .....	-	-	*	-	*
Railroad.....	-	-	*	-	*
Truck.....	-	-	*	-	*
<b>Arkansas</b> .....	-	-	<b>1</b>	<b>*</b>	<b>1</b>
Truck.....	-	-	1	*	1
<b>California</b> .....	-	-	*	-	*
Railroad.....	-	-	*	-	*
Truck.....	-	-	*	-	*
<b>Colorado</b> .....	<b>1,096</b>	-	<b>18</b>	<b>*</b>	<b>1,115</b>
Railroad.....	-	-	18	-	18
River.....	1,096	-	-	-	1,096
Truck.....	-	-	*	*	1
<b>Connecticut</b> .....	<b>80</b>	-	<b>1</b>	<b>5</b>	<b>87</b>
Railroad.....	80	-	-	-	80
Truck.....	-	-	1	5	6
<b>Delaware</b> .....	<b>393</b>	-	<b>39</b>	<b>1</b>	<b>433</b>
Railroad.....	393	-	32	*	426
Truck.....	-	-	7	*	7
<b>District of Columbia</b> .....	-	-	-	<b>*</b>	<b>*</b>
Truck.....	-	-	-	*	*
<b>Florida</b> .....	<b>256</b>	-	<b>*</b>	<b>*</b>	<b>256</b>
Railroad.....	256	-	*	-	256
Truck.....	-	-	*	*	*
<b>Georgia</b> .....	<b>688</b>	-	<b>3</b>	-	<b>691</b>
Railroad.....	688	-	*	-	688
Truck.....	-	-	3	-	3
<b>Illinois</b> .....	-	-	<b>113</b>	<b>*</b>	<b>114</b>
Railroad.....	-	-	16	-	16
River.....	-	-	97	-	97
Truck.....	-	-	*	*	*
<b>Indiana</b> .....	<b>283</b>	-	<b>39</b>	<b>5</b>	<b>327</b>
Railroad.....	68	-	*	*	68
River.....	215	-	-	-	215
Truck.....	-	-	39	5	44

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: PENNSYLVANIA, TOTAL (Continued)</b>					
<b>Iowa</b> .....	<b>19</b>	—	<b>236</b>	<b>25</b>	<b>280</b>
Railroad.....	—	—	34	—	34
River.....	19	—	200	25	243
Truck.....	—	—	2	*	2
<b>Kansas</b> .....	—	—	<b>1</b>	—	<b>1</b>
Railroad.....	—	—	1	—	1
<b>Kentucky</b> .....	<b>589</b>	—	<b>19</b>	<b>*</b>	<b>608</b>
Railroad.....	319	—	11	—	331
River.....	269	—	3	—	272
Truck.....	—	—	5	*	5
<b>Louisiana</b> .....	<b>68</b>	—	<b>*</b>	<b>*</b>	<b>68</b>
Railroad.....	—	—	*	—	*
River.....	68	—	—	—	68
Truck.....	—	—	—	*	*
<b>Maine</b> .....	—	—	<b>12</b>	<b>3</b>	<b>15</b>
Railroad.....	—	—	12	*	12
Truck.....	—	—	—	2	2
<b>Maryland</b> .....	<b>2,881</b>	—	<b>292</b>	<b>3</b>	<b>3,176</b>
Railroad.....	2,781	—	98	*	2,879
Truck.....	100	—	194	3	297
<b>Massachusetts</b> .....	<b>115</b>	—	<b>*</b>	<b>10</b>	<b>124</b>
Railroad.....	115	—	—	*	115
Truck.....	—	—	*	9	9
<b>Michigan</b> .....	<b>2,912</b>	<b>188</b>	<b>241</b>	<b>1</b>	<b>3,342</b>
Railroad.....	2,647	—	94	*	2,741
River.....	265	—	—	—	265
Great Lakes.....	—	188	147	—	334
Truck.....	—	—	*	1	1
<b>Minnesota</b> .....	—	—	<b>5</b>	<b>*</b>	<b>6</b>
Railroad.....	—	—	5	*	5
Truck.....	—	—	*	*	*
<b>Mississippi</b> .....	—	—	<b>*</b>	—	<b>*</b>
Railroad.....	—	—	*	—	*
<b>Missouri</b> .....	—	—	<b>6</b>	<b>3</b>	<b>9</b>
Railroad.....	—	—	6	—	6
Truck.....	—	—	—	3	3
<b>Montana</b> .....	—	—	<b>3</b>	<b>*</b>	<b>3</b>
Railroad.....	—	—	3	—	3
Truck.....	—	—	—	*	*
<b>Nebraska</b> .....	—	—	<b>8</b>	—	<b>8</b>
Railroad.....	—	—	8	—	8
Truck.....	—	—	*	—	*
<b>New Hampshire</b> .....	<b>556</b>	—	<b>1</b>	<b>3</b>	<b>560</b>
Railroad.....	542	—	—	*	542
Tidewater.....	13	—	—	—	13
Truck.....	—	—	1	3	4
<b>New Jersey</b> .....	<b>446</b>	—	<b>6</b>	<b>5</b>	<b>456</b>
Railroad.....	446	—	*	*	446
Truck.....	—	—	6	5	10
<b>New Mexico</b> .....	—	—	<b>*</b>	—	<b>*</b>
Railroad.....	—	—	*	—	*
Truck.....	—	—	*	—	*
<b>New York</b> .....	<b>4,833</b>	—	<b>489</b>	<b>53</b>	<b>5,376</b>
Railroad.....	3,930	—	296	1	4,227
River.....	48	—	—	2	50
Great Lakes.....	465	—	—	—	465
Truck.....	390	—	194	51	634
<b>North Carolina</b> .....	—	—	<b>*</b>	<b>*</b>	<b>*</b>
Railroad.....	—	—	*	—	*
Truck.....	—	—	*	*	*
<b>North Dakota</b> .....	<b>*</b>	—	—	<b>11</b>	<b>11</b>
Truck.....	*	—	—	11	11
<b>Ohio</b> .....	<b>4,486</b>	<b>273</b>	<b>290</b>	<b>4</b>	<b>5,053</b>
Railroad.....	1,555	—	18	*	1,573
River.....	2,879	273	107	2	3,261
Great Lakes.....	15	—	87	—	102
Truck.....	38	—	78	2	118

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: PENNSYLVANIA, TOTAL (Continued)</b>					
<b>Oklahoma</b> .....	-	-	*	*	*
Railroad.....	-	-	*	*	*
<b>Oregon</b> .....	-	-	17	-	17
Railroad.....	-	-	17	-	17
<b>Pennsylvania</b> .....	31,755	1,395	3,128	633	2 36,912
Railroad.....	10,592	-	398	*	10,989
River.....	3,620	1,395	70	14	5,100
Truck.....	13,301	-	2,599	619	16,518
Tramway, Conveyor, and Slurry Pipeline.....	4,243	-	62	-	4,305
Unknown.....	-	-	-	-	2 1
<b>Rhode Island</b> .....	-	-	-	2	2
Truck.....	-	-	-	2	2
<b>South Carolina</b> .....	26	-	49	-	74
Railroad.....	26	-	42	-	67
Truck.....	-	-	7	-	7
<b>Tennessee</b> .....	932	-	2	-	933
Railroad.....	27	-	*	-	27
River.....	905	-	-	-	905
Truck.....	-	-	2	-	2
<b>Texas</b> .....	*	-	5	*	6
Railroad.....	-	-	3	-	3
River.....	-	-	2	-	2
Truck.....	*	-	*	*	1
<b>Utah</b> .....	-	77	5	-	82
Railroad.....	-	77	-	-	77
Truck.....	-	-	5	-	5
<b>Vermont</b> .....	-	-	-	2	2
Truck.....	-	-	-	2	2
<b>Virginia</b> .....	619	-	16	1	636
Railroad.....	256	-	*	-	256
Truck.....	362	-	16	1	379
<b>West Virginia</b> .....	5,848	24	510	1	6,382
Railroad.....	28	24	*	-	53
River.....	3,991	-	417	-	4,408
Truck.....	650	-	89	1	739
Tramway, Conveyor, and Slurry Pipeline.....	1,178	-	4	-	1,182
<b>Wisconsin</b> .....	980	-	25	1	1,007
Railroad.....	514	-	8	-	522
River.....	-	-	17	1	19
Great Lakes.....	466	-	-	-	466
Truck.....	-	-	*	-	*
<b>Wyoming</b> .....	-	-	48	-	48
Railroad.....	-	-	2	-	2
Truck.....	-	-	47	-	47
<b>Unknown State</b> .....	-	-	-	-	1 166
Unknown.....	-	-	-	-	1 166
<b>State Total</b> .....	60,167	1,957	5,642	771	3 68,703
Railroad.....	25,462	101	1,123	3	26,689
River.....	13,482	1,668	924	44	16,118
Great Lakes.....	947	188	233	-	1,367
Tidewater.....	13	-	-	-	13
Truck.....	14,842	-	3,296	725	18,862
Tramway, Conveyor, and Slurry Pipeline.....	5,421	-	66	-	5,486
Unknown.....	-	-	-	-	3 166
<b>ORIGIN: PENNSYLVANIA, ANTHRACITE</b>					
<b>Alabama</b> .....	-	-	11	-	11
Railroad.....	-	-	*	-	*
River.....	-	-	11	-	11
Truck.....	-	-	*	-	*
<b>Arizona</b> .....	-	-	*	-	*
Railroad.....	-	-	*	-	*
Truck.....	-	-	*	-	*
<b>Arkansas</b> .....	-	-	1	*	1
Truck.....	-	-	1	*	1

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: PENNSYLVANIA, ANTHRACITE (Continued)</b>					
<b>California</b> .....	-	-	*	-	*
Railroad.....	-	-	*	-	*
Truck.....	-	-	*	-	*
<b>Colorado</b> .....	-	-	<b>18</b>	<b>*</b>	<b>18</b>
Railroad.....	-	-	18	-	18
Truck.....	-	-	*	*	1
<b>Connecticut</b> .....	-	-	<b>1</b>	<b>5</b>	<b>6</b>
Truck.....	-	-	1	5	6
<b>Delaware</b> .....	-	-	<b>7</b>	<b>1</b>	<b>7</b>
Railroad.....	-	-	*	*	*
Truck.....	-	-	7	*	7
<b>District of Columbia</b> .....	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>Florida</b> .....	-	-	*	*	*
Railroad.....	-	-	*	-	*
Truck.....	-	-	*	*	*
<b>Georgia</b> .....	-	-	<b>3</b>	-	<b>3</b>
Railroad.....	-	-	*	-	*
Truck.....	-	-	3	-	3
<b>Illinois</b> .....	-	-	<b>17</b>	<b>*</b>	<b>17</b>
Railroad.....	-	-	16	-	16
Truck.....	-	-	*	*	*
<b>Indiana</b> .....	-	-	<b>39</b>	<b>5</b>	<b>44</b>
Railroad.....	-	-	*	*	*
Truck.....	-	-	39	5	44
<b>Iowa</b> .....	-	-	<b>36</b>	<b>*</b>	<b>36</b>
Railroad.....	-	-	34	-	34
Truck.....	-	-	2	*	2
<b>Kansas</b> .....	-	-	<b>1</b>	-	<b>1</b>
Railroad.....	-	-	1	-	1
<b>Kentucky</b> .....	-	-	<b>19</b>	<b>*</b>	<b>19</b>
Railroad.....	-	-	11	-	11
River.....	-	-	3	-	3
Truck.....	-	-	5	*	5
<b>Louisiana</b> .....	-	-	*	*	*
Railroad.....	-	-	*	-	*
Truck.....	-	-	-	*	*
<b>Maine</b> .....	-	-	-	<b>2</b>	<b>2</b>
Railroad.....	-	-	-	*	*
Truck.....	-	-	-	2	2
<b>Maryland</b> .....	-	-	<b>98</b>	<b>2</b>	<b>100</b>
Railroad.....	-	-	98	*	98
Truck.....	-	-	-	2	2
<b>Massachusetts</b> .....	-	-	*	<b>10</b>	<b>10</b>
Railroad.....	-	-	-	*	*
Truck.....	-	-	*	9	9
<b>Michigan</b> .....	-	-	*	<b>1</b>	<b>2</b>
Railroad.....	-	-	*	*	*
Truck.....	-	-	*	1	1
<b>Minnesota</b> .....	-	-	<b>5</b>	<b>*</b>	<b>6</b>
Railroad.....	-	-	5	*	5
Truck.....	-	-	*	*	*
<b>Mississippi</b> .....	-	-	*	-	*
Railroad.....	-	-	*	-	*
<b>Missouri</b> .....	-	-	<b>6</b>	<b>3</b>	<b>9</b>
Railroad.....	-	-	6	-	6
Truck.....	-	-	-	3	3
<b>Montana</b> .....	-	-	<b>3</b>	<b>*</b>	<b>3</b>
Railroad.....	-	-	3	-	3
Truck.....	-	-	-	*	*
<b>Nebraska</b> .....	-	-	<b>8</b>	-	<b>8</b>
Railroad.....	-	-	8	-	8
Truck.....	-	-	*	-	*
<b>New Hampshire</b> .....	-	-	<b>1</b>	<b>3</b>	<b>4</b>
Railroad.....	-	-	-	*	*
Truck.....	-	-	1	3	4

See footnotes at end of table.



**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: PENNSYLVANIA, ANTHRACITE (Continued)</b>					
<b>New Jersey</b> .....	-	-	6	5	10
Railroad .....	-	-	*	*	*
Truck .....	-	-	6	5	10
<b>New Mexico</b> .....	-	-	*	-	*
Railroad .....	-	-	*	-	*
Truck .....	-	-	*	-	*
<b>New York</b> .....	12	-	22	45	79
Railroad .....	-	-	*	1	1
Truck .....	12	-	22	44	78
<b>North Carolina</b> .....	-	-	*	*	*
Railroad .....	-	-	*	-	*
Truck .....	-	-	*	*	*
<b>North Dakota</b> .....	-	-	-	1	1
Truck .....	-	-	-	1	1
<b>Ohio</b> .....	-	-	9	2	11
Railroad .....	-	-	*	*	*
Truck .....	-	-	9	2	11
<b>Oklahoma</b> .....	-	-	*	*	*
Railroad .....	-	-	*	*	*
<b>Oregon</b> .....	-	-	17	-	17
Railroad .....	-	-	17	-	17
<b>Pennsylvania</b> .....	2,969	-	320	488	3,776
Railroad .....	172	-	37	*	209
Truck .....	2,797	-	283	487	3,567
<b>Rhode Island</b> .....	-	-	-	2	2
Truck .....	-	-	-	2	2
<b>South Carolina</b> .....	-	-	49	-	49
Railroad .....	-	-	42	-	42
Truck .....	-	-	7	-	7
<b>Tennessee</b> .....	-	-	2	-	2
Railroad .....	-	-	*	-	*
Truck .....	-	-	2	-	2
<b>Texas</b> .....	*	-	5	*	6
Railroad .....	-	-	3	-	3
River .....	-	-	2	-	2
Truck .....	*	-	*	*	1
<b>Vermont</b> .....	-	-	-	2	2
Truck .....	-	-	-	2	2
<b>Virginia</b> .....	-	-	2	1	3
Railroad .....	-	-	*	-	*
Truck .....	-	-	1	1	3
<b>West Virginia</b> .....	3	-	45	*	48
Railroad .....	-	-	*	-	*
Truck .....	3	-	45	*	48
<b>Wisconsin</b> .....	-	-	8	-	8
Railroad .....	-	-	8	-	8
Truck .....	-	-	*	-	*
<b>Wyoming</b> .....	-	-	2	-	2
Railroad .....	-	-	2	-	2
<b>Unknown State</b> .....	-	-	-	-	1 42
Unknown .....	-	-	-	-	1 42
<b>State Total</b> .....	2,984	-	761	578	1 4,365
Railroad .....	172	-	310	3	485
River .....	-	-	16	-	16
Truck .....	2,812	-	435	575	3,822
Unknown .....	-	-	-	-	1 42
<b>ORIGIN: PENNSYLVANIA, BITUMINOUS</b>					
<b>Alabama</b> .....	306	-	-	-	306
Railroad .....	200	-	-	-	200
River .....	106	-	-	-	106
<b>Colorado</b> .....	1,096	-	-	-	1,096
River .....	1,096	-	-	-	1,096
<b>Connecticut</b> .....	80	-	-	*	80
Railroad .....	80	-	-	-	80
Truck .....	-	-	-	*	*

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: PENNSYLVANIA, BITUMINOUS (Continued)</b>					
<b>Delaware</b> .....	<b>393</b>	—	<b>32</b>	*	<b>425</b>
Railroad.....	393	—	32	—	425
Truck.....	—	—	—	*	*
<b>Florida</b> .....	<b>256</b>	—	—	—	<b>256</b>
Railroad.....	256	—	—	—	256
<b>Georgia</b> .....	<b>688</b>	—	—	—	<b>688</b>
Railroad.....	688	—	—	—	688
<b>Illinois</b> .....	—	—	<b>97</b>	—	<b>97</b>
River.....	—	—	97	—	97
<b>Indiana</b> .....	<b>283</b>	—	—	—	<b>283</b>
Railroad.....	68	—	—	—	68
River.....	215	—	—	—	215
<b>Iowa</b> .....	<b>19</b>	—	<b>200</b>	<b>25</b>	<b>243</b>
River.....	19	—	200	25	243
<b>Kentucky</b> .....	<b>589</b>	—	—	—	<b>589</b>
Railroad.....	319	—	—	—	319
River.....	269	—	—	—	269
<b>Louisiana</b> .....	<b>68</b>	—	—	—	<b>68</b>
River.....	68	—	—	—	68
<b>Maine</b> .....	—	—	<b>12</b>	*	<b>12</b>
Railroad.....	—	—	12	—	12
Truck.....	—	—	—	*	*
<b>Maryland</b> .....	<b>2,881</b>	—	<b>194</b>	<b>1</b>	<b>3,076</b>
Railroad.....	2,781	—	—	—	2,781
Truck.....	100	—	194	1	295
<b>Massachusetts</b> .....	<b>115</b>	—	—	—	<b>115</b>
Railroad.....	115	—	—	—	115
<b>Michigan</b> .....	<b>2,912</b>	<b>188</b>	<b>240</b>	—	<b>3,340</b>
Railroad.....	2,647	—	94	—	2,741
River.....	265	—	—	—	265
Great Lakes.....	—	188	147	—	334
<b>New Hampshire</b> .....	<b>556</b>	—	—	—	<b>556</b>
Railroad.....	542	—	—	—	542
Tidewater.....	13	—	—	—	13
<b>New Jersey</b> .....	<b>446</b>	—	—	—	<b>446</b>
Railroad.....	446	—	—	—	446
<b>New York</b> .....	<b>4,821</b>	—	<b>467</b>	<b>8</b>	<b>5,296</b>
Railroad.....	3,930	—	296	—	4,226
River.....	48	—	—	2	50
Great Lakes.....	465	—	—	—	465
Truck.....	378	—	172	6	556
<b>North Dakota</b> .....	*	—	—	<b>10</b>	<b>11</b>
Truck.....	*	—	—	10	11
<b>Ohio</b> .....	<b>4,486</b>	<b>273</b>	<b>281</b>	<b>2</b>	<b>5,042</b>
Railroad.....	1,555	—	18	—	1,572
River.....	2,879	273	107	2	3,261
Great Lakes.....	15	—	87	—	102
Truck.....	38	—	69	—	107
<b>Pennsylvania</b> .....	<b>28,787</b>	<b>1,395</b>	<b>2,809</b>	<b>145</b>	<sup>2</sup> <b>33,136</b>
Railroad.....	10,420	—	361	—	10,780
River.....	3,620	1,395	70	14	5,100
Truck.....	10,504	—	2,316	131	12,951
Tramway, Conveyor, and Slurry Pipeline.....	4,243	—	62	—	4,305
Unknown.....	—	—	—	—	2 1
<b>South Carolina</b> .....	<b>26</b>	—	—	—	<b>26</b>
Railroad.....	26	—	—	—	26
<b>Tennessee</b> .....	<b>932</b>	—	—	—	<b>932</b>
Railroad.....	27	—	—	—	27
River.....	905	—	—	—	905
<b>Texas</b> .....	—	—	—	*	*
Truck.....	—	—	—	*	*
<b>Utah</b> .....	—	<b>77</b>	<b>5</b>	—	<b>82</b>
Railroad.....	—	77	—	—	77
Truck.....	—	—	5	—	5
<b>Virginia</b> .....	<b>619</b>	—	<b>14</b>	*	<b>633</b>
Railroad.....	256	—	—	—	256
Truck.....	362	—	14	*	377

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: PENNSYLVANIA, BITUMINOUS (Continued)</b>					
<b>West Virginia</b> .....	<b>5,845</b>	<b>24</b>	<b>465</b>	<b>*</b>	<b>6,334</b>
Railroad.....	28	24	—	—	52
River.....	3,991	—	417	—	4,408
Truck.....	647	—	44	*	692
Tramway, Conveyor, and Slurry Pipeline.....	1,178	—	4	—	1,182
<b>Wisconsin</b> .....	<b>980</b>	<b>—</b>	<b>17</b>	<b>1</b>	<b>999</b>
Railroad.....	514	—	—	—	514
River.....	—	—	17	1	19
Great Lakes.....	466	—	—	—	466
<b>Wyoming</b> .....	<b>—</b>	<b>—</b>	<b>47</b>	<b>—</b>	<b>47</b>
Truck.....	—	—	47	—	47
<b>Unknown State</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>1 123</b>
Unknown.....	—	—	—	—	1 123
<b>State Total</b> .....	<b>57,184</b>	<b>1,957</b>	<b>4,881</b>	<b>193</b>	<sup>3</sup> <b>64,338</b>
Railroad.....	25,291	101	813	—	26,204
River.....	13,482	1,668	908	44	16,103
Great Lakes.....	947	188	233	—	1,367
Tidewater.....	13	—	—	—	13
Truck.....	12,030	—	2,861	149	15,040
Tramway, Conveyor, and Slurry Pipeline.....	5,421	—	66	—	5,486
Unknown.....	—	—	—	—	3 124
<b>ORIGIN: TENNESSEE</b>					
<b>Alabama</b> .....	<b>—</b>	<b>—</b>	<b>49</b>	<b>—</b>	<b>49</b>
Railroad.....	—	—	35	—	35
Truck.....	—	—	14	—	14
<b>Delaware</b> .....	<b>—</b>	<b>—</b>	<b>13</b>	<b>—</b>	<b>13</b>
Truck.....	—	—	13	—	13
<b>Florida</b> .....	<b>30</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>30</b>
Railroad.....	30	—	—	—	30
<b>Georgia</b> .....	<b>776</b>	<b>—</b>	<b>35</b>	<b>—</b>	<b>811</b>
Railroad.....	776	—	11	—	787
Truck.....	—	—	24	—	24
<b>Kentucky</b> .....	<b>46</b>	<b>—</b>	<b>2</b>	<b>39</b>	<b>87</b>
Railroad.....	—	—	1	—	1
Truck.....	46	—	1	39	86
<b>North Carolina</b> .....	<b>—</b>	<b>—</b>	<b>354</b>	<b>*</b>	<b>354</b>
Railroad.....	—	—	352	—	352
Truck.....	—	—	1	*	1
<b>Ohio</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>*</b>	<b>*</b>
Truck.....	—	—	—	*	*
<b>Pennsylvania</b> .....	<b>—</b>	<b>—</b>	<b>11</b>	<b>—</b>	<b>11</b>
Truck.....	—	—	11	—	11
<b>South Carolina</b> .....	<b>289</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>289</b>
Railroad.....	289	—	—	—	289
<b>Tennessee</b> .....	<b>1,245</b>	<b>—</b>	<b>216</b>	<b>4</b>	<b>1,465</b>
Railroad.....	542	—	142	—	684
Truck.....	703	—	74	4	781
<b>West Virginia</b> .....	<b>—</b>	<b>—</b>	<b>33</b>	<b>—</b>	<b>33</b>
Railroad.....	—	—	33	—	33
<b>Unknown State</b> .....	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>1 9</b>
Unknown.....	—	—	—	—	1 9
<b>State Total</b> .....	<b>2,385</b>	<b>—</b>	<b>714</b>	<b>44</b>	<sup>1</sup> <b>3,151</b>
Railroad.....	1,637	—	574	—	2,211
Truck.....	748	—	139	44	931
Unknown.....	—	—	—	—	1 9
<b>ORIGIN: TEXAS</b>					
<b>Illinois</b> .....	<b>—</b>	<b>—</b>	<b>12</b>	<b>—</b>	<b>12</b>
River.....	—	—	12	—	12
<b>Michigan</b> .....	<b>23</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>23</b>
Great Lakes.....	23	—	—	—	23

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: TEXAS (Continued)</b>					
Ohio.....	7	-	-	-	7
Great Lakes.....	7	-	-	-	7
<b>Texas.....</b>	<b>50,027</b>	-	<b>2,828</b>	-	<b>52,855</b>
Railroad.....	23,668	-	149	-	23,817
Truck.....	13,545	-	260	-	13,805
Tramway, Conveyor, and Slurry Pipeline.....	12,815	-	2,419	-	15,233
<b>Wisconsin.....</b>	<b>4</b>	-	-	-	<b>4</b>
Railroad.....	4	-	-	-	4
<b>Unknown State.....</b>	-	-	-	-	<b>1 2</b>
Unknown.....	-	-	-	-	1 2
<b>State Total.....</b>	<b>50,061</b>	-	<b>2,840</b>	-	<sup>1</sup> <b>52,903</b>
Railroad.....	23,672	-	149	-	23,821
River.....	-	-	12	-	12
Great Lakes.....	30	-	-	-	30
Truck.....	13,545	-	260	-	13,805
Tramway, Conveyor, and Slurry Pipeline.....	12,815	-	2,419	-	15,233
Unknown.....	-	-	-	-	1 2
<b>ORIGIN: UTAH</b>					
<b>California.....</b>	<b>3,154</b>	-	<b>1,948</b>	<b>28</b>	<b>5,130</b>
Railroad.....	3,154	-	1,946	*	5,101
Truck.....	-	-	1	27	29
<b>Colorado.....</b>	-	-	-	<b>3</b>	<b>3</b>
Truck.....	-	-	-	3	3
<b>Idaho.....</b>	-	-	<b>12</b>	<b>54</b>	<b>66</b>
Railroad.....	-	-	12	-	12
Truck.....	-	-	-	54	54
<b>Illinois.....</b>	<b>1,331</b>	-	<b>175</b>	-	<b>1,507</b>
Railroad.....	1,331	-	175	-	1,507
<b>Kansas.....</b>	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>Missouri.....</b>	<b>77</b>	-	<b>22</b>	-	<b>99</b>
Railroad.....	77	-	22	-	99
<b>Montana.....</b>	-	-	<b>4</b>	-	<b>4</b>
Truck.....	-	-	4	-	4
<b>Nebraska.....</b>	<b>3</b>	-	-	-	<b>3</b>
Truck.....	3	-	-	-	3
<b>Nevada.....</b>	<b>3,440</b>	-	<b>417</b>	*	<b>3,857</b>
Railroad.....	3,440	-	299	-	3,740
Truck.....	-	-	117	*	118
<b>New Mexico.....</b>	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>North Dakota.....</b>	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>Oregon.....</b>	<b>287</b>	-	<b>144</b>	*	<b>431</b>
Railroad.....	287	-	144	-	431
Truck.....	-	-	-	*	*
<b>Tennessee.....</b>	<b>1,142</b>	-	-	-	<b>1,142</b>
Railroad.....	1,142	-	-	-	1,142
<b>Texas.....</b>	<b>105</b>	-	-	-	<b>105</b>
Railroad.....	105	-	-	-	105
<b>Utah.....</b>	<b>10,646</b>	-	<b>219</b>	<b>114</b>	<b>10,979</b>
Railroad.....	3,112	-	-	-	3,112
Truck.....	4,141	-	219	114	4,474
Tramway, Conveyor, and Slurry Pipeline.....	3,393	-	-	-	3,393
<b>Washington.....</b>	-	-	<b>51</b>	<b>16</b>	<b>67</b>
Railroad.....	-	-	51	15	66
Truck.....	-	-	-	1	1
<b>Wyoming.....</b>	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>Unknown State.....</b>	-	-	-	-	<b>1 10</b>
Unknown.....	-	-	-	-	1 10
<b>State Total.....</b>	<b>20,185</b>	-	<b>2,992</b>	<b>215</b>	<sup>1</sup> <b>23,402</b>
Railroad.....	12,648	-	2,650	15	15,314
Truck.....	4,144	-	342	200	4,685

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: UTAH (Continued)</b>					
<b>State Total</b>					
Tramway, Conveyor, and Slurry Pipeline .....	3,393	-	-	-	3,393
Unknown .....	-	-	-	-	1 10
<b>ORIGIN: VIRGINIA</b>					
<b>Alabama</b> .....	-	<b>276</b>	<b>325</b>	-	<b>601</b>
Railroad .....	-	276	325	-	601
<b>Delaware</b> .....	<b>182</b>	-	-	-	<b>182</b>
Railroad .....	182	-	-	-	182
<b>Florida</b> .....	<b>589</b>	-	<b>2</b>	-	<b>590</b>
Railroad .....	589	-	2	-	590
<b>Georgia</b> .....	<b>4,024</b>	-	<b>440</b>	<b>11</b>	<b>4,475</b>
Railroad .....	4,024	-	440	11	4,475
<b>Illinois</b> .....	-	<b>2</b>	<b>3</b>	-	<b>4</b>
River .....	-	2	3	-	4
<b>Indiana</b> .....	<b>941</b>	<b>798</b>	-	-	<b>1,739</b>
Railroad .....	-	798	-	-	798
River .....	941	-	-	-	941
<b>Maryland</b> .....	-	-	-	<b>1</b>	<b>1</b>
Truck .....	-	-	-	1	1
<b>Michigan</b> .....	-	-	*	*	*
Railroad .....	-	-	*	-	*
Truck .....	-	-	-	*	*
<b>New Jersey</b> .....	<b>731</b>	-	<b>2</b>	-	<b>734</b>
Tidewater .....	731	-	-	-	731
Truck .....	-	-	2	-	2
<b>New York</b> .....	-	<b>93</b>	-	-	<b>93</b>
Railroad .....	-	93	-	-	93
<b>North Carolina</b> .....	<b>281</b>	-	<b>396</b>	<b>23</b>	<b>700</b>
Railroad .....	268	-	361	23	652
Truck .....	13	-	35	*	48
<b>Ohio</b> .....	<b>427</b>	<b>564</b>	*	*	<b>991</b>
Railroad .....	-	564	-	-	564
River .....	427	-	*	*	427
<b>Pennsylvania</b> .....	<b>20</b>	<b>322</b>	<b>8</b>	-	<b>350</b>
Railroad .....	20	322	8	-	350
<b>South Carolina</b> .....	<b>759</b>	-	<b>379</b>	-	<b>1,138</b>
Railroad .....	759	-	379	-	1,137
Truck .....	-	-	*	-	*
<b>Tennessee</b> .....	<b>1,525</b>	-	<b>994</b>	-	<b>2,519</b>
Railroad .....	1,525	-	939	-	2,464
Truck .....	-	-	55	-	55
<b>Texas</b> .....	-	-	<b>4</b>	<b>8</b>	<b>12</b>
Railroad .....	-	-	4	8	12
<b>Utah</b> .....	-	<b>58</b>	-	-	<b>58</b>
Railroad .....	-	58	-	-	58
<b>Virginia</b> .....	<b>6,822</b>	<b>963</b>	<b>400</b>	<b>23</b>	<b>8,355</b>
Railroad .....	5,336	-	371	11	5,718
Truck .....	1,485	*	15	12	1,513
Tramway, Conveyor, and Slurry Pipeline .....	-	963	14	-	977
Unknown .....	-	-	-	-	2 146
<b>West Virginia</b> .....	<b>17</b>	<b>296</b>	-	*	<b>314</b>
Railroad .....	16	289	-	*	305
River .....	1	7	-	-	8
Truck .....	-	-	-	*	*
<b>Unknown State</b> .....	-	-	-	-	<b>1 8</b>
Unknown .....	-	-	-	-	1 8
<b>State Total</b> .....	<b>16,317</b>	<b>3,373</b>	<b>2,953</b>	<b>67</b>	<b>22,865</b>
Railroad .....	12,718	2,401	2,829	54	18,001
River .....	1,369	9	3	*	1,381
Tidewater .....	731	-	-	-	731
Truck .....	1,499	*	107	13	1,620
Tramway, Conveyor, and Slurry Pipeline .....	-	963	14	-	977
Unknown .....	-	-	-	-	3 154

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: WASHINGTON</b>					
<b>Washington</b> .....	<b>4,074</b>	-	-	-	<b>4,074</b>
Tramway, Conveyor, and Slurry Pipeline .....	4,074	-	-	-	4,074
<b>State Total</b> .....	<b>4,074</b>	-	-	-	<b>4,074</b>
Tramway, Conveyor, and Slurry Pipeline .....	4,074	-	-	-	4,074
<b>ORIGIN: WEST VIRGINIA, TOTAL</b>					
<b>Alabama</b> .....	<b>413</b>	<b>1,609</b>	<b>134</b>	-	<b>2,156</b>
Railroad.....	10	1,609	58	-	1,677
River.....	400	-	63	-	464
Truck.....	3	-	13	-	16
<b>Connecticut</b> .....	<b>715</b>	-	-	-	<b>715</b>
Railroad.....	117	-	-	-	117
Tidewater.....	598	-	-	-	598
<b>Delaware</b> .....	<b>507</b>	-	<b>18</b>	-	<b>525</b>
Railroad.....	507	-	16	-	523
Truck.....	-	-	2	*	2
<b>District of Columbia</b> .....	-	-	<b>3</b>	<b>3</b>	<b>6</b>
Railroad.....	-	-	-	3	3
River.....	-	-	3	-	3
<b>Florida</b> .....	<b>2,590</b>	-	<b>25</b>	-	<b>2,615</b>
Railroad.....	1,125	-	9	-	1,135
River.....	159	-	13	-	172
Tidewater.....	1,306	-	-	-	1,306
Truck.....	-	-	3	-	3
<b>Georgia</b> .....	<b>3,713</b>	-	-	-	<b>3,713</b>
Railroad.....	3,713	-	-	-	3,713
<b>Illinois</b> .....	-	<b>1,157</b>	<b>392</b>	-	<b>1,549</b>
Railroad.....	-	736	200	-	936
River.....	-	415	172	-	587
Great Lakes.....	-	-	20	-	20
Truck.....	-	6	-	-	6
<b>Indiana</b> .....	<b>1,178</b>	<b>5,356</b>	<b>949</b>	-	<b>7,484</b>
Railroad.....	381	4,665	850	-	5,896
River.....	797	691	99	-	1,588
Tidewater.....	-	*	-	-	*
<b>Iowa</b> .....	<b>3,417</b>	-	<b>47</b>	<b>68</b>	<b>3,531</b>
Railroad.....	3,409	-	27	-	3,437
River.....	7	-	20	68	95
<b>Kentucky</b> .....	<b>6,926</b>	<b>739</b>	<b>1,065</b>	<b>63</b>	<b>8,793</b>
Railroad.....	337	739	102	12	1,190
River.....	6,296	-	845	45	7,186
Truck.....	294	-	117	7	418
<b>Louisiana</b> .....	<b>155</b>	-	-	-	<b>155</b>
River.....	155	-	-	-	155
<b>Maine</b> .....	-	-	*	-	*
Truck.....	-	-	*	-	*
<b>Maryland</b> .....	<b>8,748</b>	-	<b>245</b>	<b>40</b>	<b>9,033</b>
Railroad.....	6,772	-	163	-	6,936
Tidewater.....	1,226	-	-	-	1,226
Truck.....	750	-	82	40	871
<b>Massachusetts</b> .....	<b>870</b>	-	<b>4</b>	-	<b>873</b>
Railroad.....	625	-	4	-	628
Tidewater.....	245	-	-	-	245
<b>Michigan</b> .....	<b>4,830</b>	<b>891</b>	<b>223</b>	-	<b>5,944</b>
Railroad.....	4,737	1	202	-	4,940
River.....	7	-	-	-	7
Great Lakes.....	87	890	21	-	997
<b>Minnesota</b> .....	<b>5</b>	-	<b>87</b>	<b>3</b>	<b>94</b>
River.....	5	-	87	3	94
<b>Mississippi</b> .....	<b>99</b>	-	<b>41</b>	-	<b>140</b>
Railroad.....	99	-	41	-	140
<b>Missouri</b> .....	<b>199</b>	-	<b>65</b>	<b>45</b>	<b>308</b>
Railroad.....	11	-	1	-	12
River.....	188	-	63	45	297

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: WEST VIRGINIA, TOTAL (Continued)</b>					
Nevada .....	-	-	-	*	*
Truck .....	-	-	-	*	*
<b>New Hampshire</b> .....	<b>211</b>	-	-	-	<b>211</b>
Railroad .....	211	-	-	-	211
<b>New Jersey</b> .....	<b>1,591</b>	-	-	-	<b>1,591</b>
Railroad .....	1,063	-	-	-	1,063
River .....	46	-	-	-	46
Tidewater .....	483	-	-	-	483
<b>New York</b> .....	<b>2,735</b>	<b>887</b>	<b>154</b>	<b>5</b>	<b>3,782</b>
Railroad .....	2,658	887	62	-	3,608
River .....	-	-	92	-	92
Tidewater .....	77	-	-	-	77
Truck .....	-	-	-	5	5
<b>North Carolina</b> .....	<b>8,442</b>	-	<b>1,770</b>	<b>54</b>	<b>10,266</b>
Railroad .....	8,442	-	1,770	54	10,266
<b>Ohio</b> .....	<b>24,185</b>	<b>1,249</b>	<b>1,036</b>	<b>31</b>	<b>26,501</b>
Railroad .....	4,124	868	373	-	5,365
River .....	19,840	314	172	8	20,334
Great Lakes .....	7	68	101	-	175
Truck .....	215	-	389	23	627
<b>Oklahoma</b> .....	-	-	<b>14</b>	-	<b>14</b>
Railroad .....	-	-	7	-	7
River .....	-	-	7	-	7
<b>Oregon</b> .....	-	-	<b>19</b>	-	<b>19</b>
Railroad .....	-	-	19	-	19
<b>Pennsylvania</b> .....	<b>8,043</b>	<b>4,823</b>	<b>1,764</b>	<b>10</b>	<b>14,640</b>
Railroad .....	2,049	1,588	782	-	4,418
River .....	5,154	3,235	907	-	9,296
Great Lakes .....	50	-	-	-	50
Tidewater .....	355	-	-	-	355
Truck .....	435	-	76	10	521
<b>South Carolina</b> .....	<b>707</b>	-	<b>6</b>	<b>232</b>	<b>946</b>
Railroad .....	707	-	6	232	946
<b>Tennessee</b> .....	<b>87</b>	-	<b>71</b>	<b>15</b>	<b>173</b>
Railroad .....	87	-	2	-	90
River .....	-	-	48	-	48
Truck .....	-	-	21	15	36
<b>Texas</b> .....	<b>167</b>	-	-	-	<b>167</b>
Railroad .....	103	-	-	-	103
River .....	63	-	-	-	63
<b>Utah</b> .....	-	<b>141</b>	<b>32</b>	-	<b>173</b>
Railroad .....	-	141	32	-	173
<b>Vermont</b> .....	-	-	*	-	*
Truck .....	-	-	*	-	*
<b>Virginia</b> .....	<b>3,466</b>	<b>142</b>	<b>1,039</b>	<b>23</b>	<b>4,670</b>
Railroad .....	3,039	84	1,002	16	4,141
River .....	-	-	5	-	5
Truck .....	427	-	32	7	466
Tramway, Conveyor, and Slurry Pipeline .....	-	59	-	-	59
<b>West Virginia</b> .....	<b>21,126</b>	<b>1,131</b>	<b>1,378</b>	<b>167</b>	<sup>2</sup> <b>23,813</b>
Railroad .....	8,098	90	13	64	8,265
River .....	7,333	773	391	44	8,541
Tidewater .....	-	259	-	-	259
Truck .....	3,330	9	611	60	4,009
Tramway, Conveyor, and Slurry Pipeline .....	2,365	-	364	-	2,729
Unknown .....	-	-	-	-	<sup>2</sup> 11
<b>Wisconsin</b> .....	<b>100</b>	-	<b>112</b>	-	<b>212</b>
Railroad .....	39	-	30	-	69
River .....	47	-	5	-	52
Great Lakes .....	13	-	78	-	91
<b>Unknown State</b> .....	-	-	-	-	<sup>1</sup> <b>69</b>
Unknown .....	-	-	-	-	<sup>1</sup> 69
<b>State Total</b> .....	<b>105,225</b>	<b>18,125</b>	<b>10,692</b>	<b>760</b>	<sup>3</sup> <b>134,882</b>
Railroad .....	52,462	11,408	5,772	382	70,024
River .....	40,498	5,428	2,991	212	49,130
Great Lakes .....	157	957	220	-	1,335
Tidewater .....	4,290	259	-	-	4,548

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: WEST VIRGINIA, TOTAL (Continued)</b>					
<b>State Total</b>					
Truck .....	5,453	15	1,345	166	6,978
Tramway, Conveyor, and Slurry Pipeline .....	2,365	59	364	—	2,787
Unknown .....	—	—	—	—	3 80
<b>ORIGIN: WEST VIRGINIA, NORTHERN</b>					
<b>Alabama</b> .....	<b>250</b>	—	—	—	<b>250</b>
River .....	250	—	—	—	250
<b>Connecticut</b> .....	<b>614</b>	—	—	—	<b>614</b>
Railroad .....	17	—	—	—	17
Tidewater .....	598	—	—	—	598
<b>Delaware</b> .....	<b>175</b>	—	<b>18</b>	*	<b>193</b>
Railroad .....	175	—	16	—	191
Truck .....	—	—	2	*	2
<b>Florida</b> .....	<b>855</b>	—	—	—	<b>855</b>
Railroad .....	855	—	—	—	855
<b>Illinois</b> .....	—	—	<b>4</b>	—	<b>4</b>
Railroad .....	—	—	4	—	4
<b>Indiana</b> .....	<b>338</b>	—	—	—	<b>338</b>
Railroad .....	219	—	—	—	219
River .....	120	—	—	—	120
<b>Kentucky</b> .....	<b>1,441</b>	—	—	—	<b>1,441</b>
River .....	1,436	—	—	—	1,436
Truck .....	5	—	—	—	5
<b>Louisiana</b> .....	<b>155</b>	—	—	—	<b>155</b>
River .....	155	—	—	—	155
<b>Maryland</b> .....	<b>4,504</b>	—	<b>244</b>	<b>40</b>	<b>4,787</b>
Railroad .....	3,754	—	162	—	3,916
Truck .....	750	—	82	40	871
<b>Massachusetts</b> .....	<b>3</b>	—	—	—	<b>3</b>
Railroad .....	3	—	—	—	3
<b>Michigan</b> .....	<b>568</b>	—	—	—	<b>568</b>
Railroad .....	545	—	—	—	545
Great Lakes .....	23	—	—	—	23
<b>Missouri</b> .....	—	—	<b>3</b>	—	<b>3</b>
River .....	—	—	3	—	3
<b>New Hampshire</b> .....	<b>177</b>	—	—	—	<b>177</b>
Railroad .....	177	—	—	—	177
<b>New Jersey</b> .....	<b>1,379</b>	—	—	—	<b>1,379</b>
Railroad .....	948	—	—	—	948
Tidewater .....	430	—	—	—	430
<b>New York</b> .....	<b>2,246</b>	<b>317</b>	—	<b>1</b>	<b>2,565</b>
Railroad .....	2,246	317	—	—	2,563
Truck .....	—	—	—	1	1
<b>Ohio</b> .....	<b>5,723</b>	—	<b>41</b>	—	<b>5,764</b>
Railroad .....	1,883	—	18	—	1,901
River .....	3,828	—	11	—	3,839
Great Lakes .....	7	—	12	—	19
Truck .....	6	—	—	—	6
<b>Oklahoma</b> .....	—	—	*	—	*
River .....	—	—	*	—	*
<b>Pennsylvania</b> .....	<b>6,425</b>	<b>833</b>	<b>251</b>	<b>2</b>	<b>7,510</b>
Railroad .....	1,049	812	180	—	2,041
River .....	5,153	21	—	—	5,174
Great Lakes .....	50	—	—	—	50
Truck .....	172	—	71	2	245
<b>South Carolina</b> .....	<b>106</b>	—	—	—	<b>106</b>
Railroad .....	106	—	—	—	106
<b>Texas</b> .....	<b>19</b>	—	—	—	<b>19</b>
Railroad .....	19	—	—	—	19
<b>Virginia</b> .....	<b>421</b>	—	—	—	<b>421</b>
Truck .....	421	—	—	—	421
<b>West Virginia</b> .....	<b>9,759</b>	<b>69</b>	<b>164</b>	<b>4</b>	<b>9,996</b>
Railroad .....	182	69	—	—	252
River .....	4,509	—	2	—	4,510
Truck .....	2,703	—	153	4	2,860
Tramway, Conveyor, and Slurry Pipeline .....	2,365	—	9	—	2,374

See footnotes at end of table.



**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: WEST VIRGINIA, NORTHERN (Continued)</b>					
<b>Wisconsin</b> .....	<b>21</b>	—	<b>72</b>	—	<b>94</b>
Railroad.....	12	—	—	—	12
Great Lakes.....	9	—	72	—	82
<b>Unknown State</b> .....	—	—	—	—	<b>1 14</b>
Unknown.....	—	—	—	—	1 14
<b>State Total</b> .....	<b>35,181</b>	<b>1,219</b>	<b>797</b>	<b>47</b>	<b>1 37,259</b>
Railroad.....	12,191	1,198	380	—	13,769
River.....	15,451	21	17	—	15,488
Great Lakes.....	90	—	84	—	174
Tidewater.....	1,028	—	—	—	1,028
Truck.....	4,057	—	307	47	4,411
Tramway, Conveyor, and Slurry Pipeline.....	2,365	—	9	—	2,374
Unknown.....	—	—	—	—	1 14
<b>ORIGIN: WEST VIRGINIA, SOUTHERN</b>					
<b>Alabama</b> .....	<b>163</b>	<b>1,609</b>	<b>134</b>	—	<b>1,906</b>
Railroad.....	10	1,609	58	—	1,677
River.....	150	—	63	—	213
Truck.....	3	—	13	—	16
<b>Connecticut</b> .....	<b>101</b>	—	—	—	<b>101</b>
Railroad.....	101	—	—	—	101
<b>Delaware</b> .....	<b>332</b>	—	—	—	<b>332</b>
Railroad.....	332	—	—	—	332
<b>District of Columbia</b> .....	—	—	<b>3</b>	<b>3</b>	<b>6</b>
Railroad.....	—	—	—	3	3
River.....	—	—	3	—	3
<b>Florida</b> .....	<b>1,735</b>	—	<b>25</b>	—	<b>1,760</b>
Railroad.....	270	—	9	—	279
River.....	159	—	13	—	172
Tidewater.....	1,306	—	—	—	1,306
Truck.....	—	—	3	—	3
<b>Georgia</b> .....	<b>3,713</b>	—	—	—	<b>3,713</b>
Railroad.....	3,713	—	—	—	3,713
<b>Illinois</b> .....	—	<b>1,157</b>	<b>388</b>	—	<b>1,545</b>
Railroad.....	—	736	196	—	932
River.....	—	415	172	—	587
Great Lakes.....	—	—	20	—	20
Truck.....	—	6	—	—	6
<b>Indiana</b> .....	<b>840</b>	<b>5,356</b>	<b>949</b>	—	<b>7,146</b>
Railroad.....	163	4,665	850	—	5,678
River.....	678	691	99	—	1,468
Tidewater.....	—	*	—	—	*
<b>Iowa</b> .....	<b>3,417</b>	—	<b>47</b>	<b>68</b>	<b>3,531</b>
Railroad.....	3,409	—	27	—	3,437
River.....	7	—	20	68	95
<b>Kentucky</b> .....	<b>5,485</b>	<b>739</b>	<b>1,065</b>	<b>63</b>	<b>7,352</b>
Railroad.....	337	739	102	12	1,190
River.....	4,859	—	845	45	5,750
Truck.....	289	—	117	7	413
<b>Maine</b> .....	—	—	*	—	*
Truck.....	—	—	*	—	*
<b>Maryland</b> .....	<b>4,244</b>	—	<b>1</b>	—	<b>4,245</b>
Railroad.....	3,018	—	1	—	3,019
Tidewater.....	1,226	—	—	—	1,226
<b>Massachusetts</b> .....	<b>867</b>	—	<b>4</b>	—	<b>870</b>
Railroad.....	621	—	4	—	625
Tidewater.....	245	—	—	—	245
<b>Michigan</b> .....	<b>4,261</b>	<b>891</b>	<b>223</b>	—	<b>5,375</b>
Railroad.....	4,191	1	202	—	4,394
River.....	7	—	—	—	7
Great Lakes.....	63	890	21	—	974
<b>Minnesota</b> .....	<b>5</b>	—	<b>87</b>	<b>3</b>	<b>94</b>
River.....	5	—	87	3	94
<b>Mississippi</b> .....	<b>99</b>	—	<b>41</b>	—	<b>140</b>
Railroad.....	99	—	41	—	140

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: WEST VIRGINIA, SOUTHERN (Continued)</b>					
<b>Missouri</b> .....	<b>199</b>	—	<b>61</b>	<b>45</b>	<b>305</b>
Railroad.....	11	—	1	—	12
River.....	188	—	60	45	293
<b>Nevada</b> .....	—	—	—	*	*
Truck.....	—	—	—	*	*
<b>New Hampshire</b> .....	<b>34</b>	—	—	—	<b>34</b>
Railroad.....	34	—	—	—	34
<b>New Jersey</b> .....	<b>212</b>	—	—	—	<b>212</b>
Railroad.....	114	—	—	—	114
River.....	46	—	—	—	46
Tidewater.....	52	—	—	—	52
<b>New York</b> .....	<b>489</b>	<b>570</b>	<b>154</b>	<b>4</b>	<b>1,217</b>
Railroad.....	412	570	62	—	1,044
River.....	—	—	92	—	92
Tidewater.....	77	—	—	—	77
Truck.....	—	—	—	4	4
<b>North Carolina</b> .....	<b>8,442</b>	—	<b>1,770</b>	<b>54</b>	<b>10,266</b>
Railroad.....	8,442	—	1,770	54	10,266
<b>Ohio</b> .....	<b>18,462</b>	<b>1,249</b>	<b>995</b>	<b>31</b>	<b>20,737</b>
Railroad.....	2,241	868	356	—	3,465
River.....	16,012	314	161	8	16,495
Great Lakes.....	—	68	89	—	157
Truck.....	209	—	389	23	621
<b>Oklahoma</b> .....	—	—	<b>13</b>	—	<b>13</b>
Railroad.....	—	—	7	—	7
River.....	—	—	7	—	7
<b>Oregon</b> .....	—	—	<b>19</b>	—	<b>19</b>
Railroad.....	—	—	19	—	19
<b>Pennsylvania</b> .....	<b>1,618</b>	<b>3,990</b>	<b>1,513</b>	<b>8</b>	<b>7,130</b>
Railroad.....	999	776	602	—	2,377
River.....	1	3,214	907	—	4,122
Tidewater.....	355	—	—	—	355
Truck.....	262	—	5	8	276
<b>South Carolina</b> .....	<b>601</b>	—	<b>6</b>	<b>232</b>	<b>840</b>
Railroad.....	601	—	6	232	840
<b>Tennessee</b> .....	<b>87</b>	—	<b>71</b>	<b>15</b>	<b>173</b>
Railroad.....	87	—	2	—	90
River.....	—	—	48	—	48
Truck.....	—	—	21	15	36
<b>Texas</b> .....	<b>148</b>	—	—	—	<b>148</b>
Railroad.....	84	—	—	—	84
River.....	63	—	—	—	63
<b>Utah</b> .....	—	<b>141</b>	<b>32</b>	—	<b>173</b>
Railroad.....	—	141	32	—	173
<b>Vermont</b> .....	—	—	*	—	*
Truck.....	—	—	*	—	*
<b>Virginia</b> .....	<b>3,044</b>	<b>142</b>	<b>1,039</b>	<b>23</b>	<b>4,249</b>
Railroad.....	3,039	84	1,002	16	4,141
River.....	—	—	5	—	5
Truck.....	6	—	32	7	44
Tramway, Conveyor, and Slurry Pipeline.....	—	59	—	—	59
<b>West Virginia</b> .....	<b>11,367</b>	<b>1,062</b>	<b>1,214</b>	<b>163</b>	<b>13,817</b>
Railroad.....	7,916	21	13	64	8,013
River.....	2,824	773	389	44	4,030
Tidewater.....	—	259	—	—	259
Truck.....	627	9	458	56	1,149
Tramway, Conveyor, and Slurry Pipeline.....	—	—	354	—	354
Unknown.....	—	—	—	—	2 11
<b>Wisconsin</b> .....	<b>78</b>	—	<b>40</b>	—	<b>118</b>
Railroad.....	27	—	30	—	57
River.....	47	—	5	—	52
Great Lakes.....	4	—	6	—	10
<b>Unknown State</b> .....	—	—	—	—	<b>1 54</b>
Unknown.....	—	—	—	—	1 54
<b>State Total</b> .....	<b>70,044</b>	<b>16,906</b>	<b>9,895</b>	<b>713</b>	<b>97,624</b>
Railroad.....	40,271	10,210	5,393	382	56,255
River.....	25,047	5,407	2,975	212	33,641

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: WEST VIRGINIA, SOUTHERN (Continued)</b>					
<b>State Total</b>					
Great Lakes.....	67	957	136	—	1,161
Tidewater.....	3,262	259	—	—	3,521
Truck.....	1,396	15	1,037	119	2,567
Tramway, Conveyor, and Slurry Pipeline.....	—	59	354	—	413
Unknown.....	—	—	—	—	3 65
<b>ORIGIN: WYOMING</b>					
<b>Alabama.....</b>	<b>10,679</b>	—	—	—	<b>10,679</b>
Railroad.....	10,679	—	—	—	10,679
<b>Arizona.....</b>	<b>142</b>	—	—	—	<b>142</b>
Railroad.....	142	—	—	—	142
<b>Arkansas.....</b>	<b>15,167</b>	—	—	—	<b>15,167</b>
Railroad.....	15,167	—	—	—	15,167
<b>California.....</b>	—	—	<b>189</b>	—	<b>189</b>
Railroad.....	—	—	189	—	189
<b>Colorado.....</b>	<b>11,015</b>	—	<b>62</b>	—	<b>11,077</b>
Railroad.....	11,015	—	62	—	11,077
<b>Florida.....</b>	<b>416</b>	—	—	—	<b>416</b>
River.....	416	—	—	—	416
<b>Georgia.....</b>	<b>6,805</b>	—	—	—	<b>6,805</b>
Railroad.....	6,805	—	—	—	6,805
<b>Idaho.....</b>	—	—	<b>248</b>	<b>1</b>	<b>249</b>
Railroad.....	—	—	237	—	237
Truck.....	—	—	11	1	12
<b>Illinois.....</b>	<b>23,311</b>	—	—	—	<b>23,311</b>
Railroad.....	23,311	—	—	—	23,311
<b>Indiana.....</b>	<b>14,315</b>	—	—	—	<b>14,315</b>
Railroad.....	7,102	—	—	—	7,102
River.....	7,213	—	—	—	7,213
<b>Iowa.....</b>	<b>23,251</b>	—	<b>849</b>	—	<b>24,100</b>
Railroad.....	23,251	—	849	—	24,100
<b>Kansas.....</b>	<b>13,751</b>	—	—	—	<b>13,751</b>
Railroad.....	13,751	—	—	—	13,751
<b>Kentucky.....</b>	<b>1,789</b>	—	—	—	<b>1,789</b>
Railroad.....	1,789	—	—	—	1,789
<b>Louisiana.....</b>	<b>11,130</b>	—	—	—	<b>11,130</b>
Railroad.....	11,130	—	—	—	11,130
<b>Michigan.....</b>	<b>10,462</b>	—	—	—	<b>10,462</b>
Railroad.....	9,505	—	—	—	9,505
Great Lakes.....	957	—	—	—	957
<b>Minnesota.....</b>	<b>8,803</b>	—	<b>159</b>	<b>6</b>	<b>8,968</b>
Railroad.....	7,946	—	159	6	8,111
Great Lakes.....	470	—	—	—	470
Truck.....	387	—	—	—	387
<b>Missouri.....</b>	<b>35,958</b>	—	—	—	<b>35,958</b>
Railroad.....	34,537	—	—	—	34,537
River.....	1,422	—	—	—	1,422
<b>Montana.....</b>	<b>656</b>	—	<b>67</b>	*	<b>723</b>
Railroad.....	656	—	67	—	723
Truck.....	—	—	—	*	*
<b>Nebraska.....</b>	<b>12,060</b>	—	<b>166</b>	—	<b>12,226</b>
Railroad.....	12,060	—	166	—	12,226
<b>North Carolina.....</b>	<b>28</b>	—	—	—	<b>28</b>
Railroad.....	28	—	—	—	28
<b>Ohio.....</b>	<b>3,364</b>	—	<b>475</b>	—	<b>3,840</b>
Railroad.....	3,364	—	—	—	3,364
Great Lakes.....	—	—	475	—	475
<b>Oklahoma.....</b>	<b>21,058</b>	—	<b>5</b>	—	<b>21,063</b>
Railroad.....	21,058	—	5	—	21,063
<b>Oregon.....</b>	<b>2,012</b>	—	<b>28</b>	—	<b>2,040</b>
Railroad.....	2,012	—	28	—	2,040
<b>South Carolina.....</b>	<b>1,122</b>	—	—	—	<b>1,122</b>
Railroad.....	1,122	—	—	—	1,122

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: WYOMING (Continued)</b>					
<b>South Dakota</b> .....	<b>679</b>	-	<b>267</b>	<b>1</b>	<b>947</b>
Railroad .....	558	-	-	-	558
Truck .....	120	-	267	1	388
<b>Tennessee</b> .....	<b>2,743</b>	-	-	-	<b>2,743</b>
Railroad .....	2,743	-	-	-	2,743
<b>Texas</b> .....	<b>47,438</b>	-	<b>176</b>	-	<b>47,614</b>
Railroad .....	47,438	-	176	-	47,614
<b>Utah</b> .....	<b>15</b>	-	-	*	<b>15</b>
Railroad .....	15	-	-	-	15
Truck .....	-	-	-	*	*
<b>Washington</b> .....	<b>82</b>	-	-	*	<b>83</b>
Railroad .....	82	-	-	*	83
<b>Wisconsin</b> .....	<b>22,849</b>	-	<b>929</b>	-	<b>23,778</b>
Railroad .....	22,164	-	929	-	23,093
River .....	191	-	-	-	191
Great Lakes .....	494	-	-	-	494
<b>Wyoming</b> .....	<b>26,509</b>	-	<b>1,907</b>	<b>104</b>	<b>28,519</b>
Railroad .....	14,227	-	1,216	1	15,444
Truck .....	761	-	691	103	1,555
Tramway, Conveyor, and Slurry Pipeline .....	11,521	-	-	-	11,521
<b>Unknown State</b> .....	-	-	-	-	<b>1 3</b>
Unknown .....	-	-	-	-	1 3
<b>State Total</b> .....	<b>327,609</b>	-	<b>5,527</b>	<b>113</b>	<sup>1</sup> <b>333,253</b>
Railroad .....	303,657	-	4,083	8	307,748
River .....	9,242	-	-	-	9,242
Great Lakes .....	1,921	-	475	-	2,397
Truck .....	1,269	-	969	105	2,343
Tramway, Conveyor, and Slurry Pipeline .....	11,521	-	-	-	11,521
Unknown .....	-	-	-	-	1 3
<b>ORIGIN: U.S. TOTAL</b>					
<b>Alabama</b> .....	<b>27,213</b>	<b>2,107</b>	<b>2,139</b>	<b>23</b>	<b>31,482</b>
Railroad .....	17,778	2,046	557	-	20,380
River .....	6,318	-	164	-	6,482
Tidewater .....	100	-	-	-	100
Truck .....	3,017	61	1,418	23	4,520
<b>Alaska</b> .....	<b>483</b>	-	-	<b>553</b>	<b>1,036</b>
Railroad .....	148	-	-	483	631
Truck .....	335	-	-	69	405
<b>Arizona</b> .....	<b>19,737</b>	-	<b>595</b>	*	<b>20,332</b>
Railroad .....	19,737	-	595	-	20,332
Truck .....	-	-	*	*	*
<b>Arkansas</b> .....	<b>15,167</b>	-	<b>213</b>	*	<b>15,380</b>
Railroad .....	15,167	-	142	-	15,309
Truck .....	-	-	70	*	70
<b>California</b> .....	<b>3,154</b>	-	<b>2,153</b>	<b>28</b>	<b>5,335</b>
Railroad .....	3,154	-	2,151	*	5,305
Truck .....	-	-	2	27	29
<b>Colorado</b> .....	<b>23,732</b>	-	<b>655</b>	<b>102</b>	<b>24,490</b>
Railroad .....	18,375	-	456	-	18,831
River .....	1,096	-	-	-	1,096
Truck .....	4,260	-	199	102	4,562
<b>Connecticut</b> .....	<b>795</b>	-	<b>1</b>	<b>5</b>	<b>801</b>
Railroad .....	197	-	-	-	197
Tidewater .....	598	-	-	-	598
Truck .....	-	-	1	5	6
<b>Delaware</b> .....	<b>1,291</b>	-	<b>70</b>	<b>1</b>	<b>1,362</b>
Railroad .....	1,291	-	48	*	1,339
Truck .....	-	-	22	1	22
<b>District of Columbia</b> .....	-	-	<b>3</b>	<b>6</b>	<b>9</b>
Railroad .....	-	-	-	6	6
River .....	-	-	3	-	3
Truck .....	-	-	-	*	*
<b>Florida</b> .....	<b>20,850</b>	-	<b>2,570</b>	<b>6</b>	<b>23,426</b>
Railroad .....	14,388	-	785	6	15,180
River .....	5,156	-	1,782	-	6,938

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: U.S. TOTAL (Continued)</b>					
<b>Florida</b>					
Tidewater .....	1,306	-	-	-	1,306
Truck .....	-	-	3	*	3
<b>Georgia</b>	<b>31,517</b>	-	<b>2,261</b>	<b>17</b>	<b>33,795</b>
Railroad .....	31,517	-	2,045	11	33,573
River .....	-	-	21	-	21
Truck .....	-	-	195	5	201
<b>Idaho</b>	-	-	<b>261</b>	<b>55</b>	<b>315</b>
Railroad .....	-	-	249	-	249
Truck .....	-	-	11	55	66
<b>Illinois</b>	<b>42,326</b>	<b>1,158</b>	<b>4,918</b>	<b>181</b>	<b>48,583</b>
Railroad .....	35,436	736	2,607	-	38,779
River .....	3,288	417	647	51	4,402
Great Lakes .....	-	-	102	-	102
Truck .....	3,603	6	1,540	130	5,279
Tramway, Conveyor, and Slurry Pipeline .....	-	-	21	-	21
<b>Indiana</b>	<b>54,357</b>	<b>7,662</b>	<b>3,095</b>	<b>343</b>	<b>65,457</b>
Railroad .....	33,414	6,971	1,141	27	41,552
River .....	11,727	691	562	28	13,008
Tidewater .....	-	*	-	-	*
Truck .....	8,593	-	1,392	288	10,273
Tramway, Conveyor, and Slurry Pipeline .....	624	-	-	-	624
<b>Iowa</b>	<b>28,476</b>	-	<b>2,081</b>	<b>389</b>	<b>30,946</b>
Railroad .....	26,903	-	1,190	-	28,093
River .....	1,573	-	695	389	2,657
Truck .....	*	-	195	*	196
<b>Kansas</b>	<b>16,134</b>	-	<b>6</b>	<b>7</b>	<b>16,147</b>
Railroad .....	15,657	-	1	-	15,658
Truck .....	477	-	5	7	489
<b>Kentucky</b>	<b>39,258</b>	<b>1,187</b>	<b>1,711</b>	<b>401</b>	<b>42,567</b>
Railroad .....	14,609	1,162	119	12	15,902
River .....	12,094	-	915	214	13,222
Truck .....	12,555	25	677	176	13,433
Unknown .....	-	-	-	-	2 10
<b>Louisiana</b>	<b>14,570</b>	-	<b>15</b>	<b>*</b>	<b>14,584</b>
Railroad .....	11,130	-	*	-	11,130
River .....	487	-	15	-	502
Truck .....	716	-	-	*	716
Tramway, Conveyor, and Slurry Pipeline .....	2,236	-	-	-	2,236
<b>Maine</b>	-	-	<b>180</b>	<b>3</b>	<b>182</b>
Railroad .....	-	-	12	*	12
Tidewater .....	-	-	168	-	168
Truck .....	-	-	*	2	2
<b>Maryland</b>	<b>12,205</b>	-	<b>745</b>	<b>46</b>	<b>12,996</b>
Railroad .....	9,845	-	261	*	10,106
Tidewater .....	1,226	-	-	-	1,226
Truck .....	1,134	-	483	46	1,664
<b>Massachusetts</b>	<b>1,281</b>	-	<b>33</b>	<b>37</b>	<b>1,351</b>
Railroad .....	906	-	33	28	966
River .....	82	-	-	-	82
Great Lakes .....	48	-	-	-	48
Tidewater .....	245	-	-	-	245
Truck .....	-	-	*	9	9
<b>Michigan</b>	<b>32,324</b>	<b>1,944</b>	<b>1,837</b>	<b>20</b>	<b>36,125</b>
Railroad .....	22,637	604	615	14	23,869
River .....	315	-	-	-	315
Great Lakes .....	7,747	1,341	1,123	-	10,212
Truck .....	1,624	-	99	6	1,729
<b>Minnesota</b>	<b>18,410</b>	-	<b>389</b>	<b>15</b>	<b>18,814</b>
Railroad .....	17,458	-	164	6	17,628
River .....	92	-	197	3	292
Great Lakes .....	473	-	28	-	501
Truck .....	387	-	*	5	393
<b>Mississippi</b>	<b>5,621</b>	-	<b>191</b>	-	<b>5,812</b>
Railroad .....	4,165	-	41	-	4,206
River .....	393	-	115	-	507
Tidewater .....	1,045	-	-	-	1,045
Truck .....	-	-	35	-	35
Tramway, Conveyor, and Slurry Pipeline .....	18	-	-	-	18

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>ORIGIN: U.S. TOTAL (Continued)</b>					
<b>Missouri</b> .....	<b>40,097</b>	—	<b>776</b>	<b>226</b>	<b>41,098</b>
Railroad.....	37,613	—	29	*	37,643
River.....	2,112	—	168	45	2,324
Truck.....	372	—	579	181	1,131
<b>Montana</b> .....	<b>10,517</b>	—	<b>557</b>	<b>3</b>	<b>11,077</b>
Railroad.....	665	—	70	—	735
Truck.....	223	—	67	3	293
Tramway, Conveyor, and Slurry Pipeline.....	9,629	—	419	—	10,048
<b>Nebraska</b> .....	<b>12,069</b>	—	<b>188</b>	—	<b>12,257</b>
Railroad.....	12,066	—	188	—	12,254
Truck.....	3	—	*	—	3
<b>Nevada</b> .....	<b>7,946</b>	—	<b>417</b>	<b>*</b>	<b>8,363</b>
Railroad.....	3,452	—	299	—	3,751
Truck.....	—	—	117	*	118
Tramway, Conveyor, and Slurry Pipeline.....	4,494	—	—	—	4,494
<b>New Hampshire</b> .....	<b>773</b>	—	<b>1</b>	<b>3</b>	<b>777</b>
Railroad.....	760	—	—	*	760
Tidewater.....	13	—	—	—	13
Truck.....	—	—	1	3	4
<b>New Jersey</b> .....	<b>2,794</b>	—	<b>8</b>	<b>5</b>	<b>2,807</b>
Railroad.....	1,525	—	*	*	1,525
River.....	46	—	—	—	46
Tidewater.....	1,224	—	—	—	1,224
Truck.....	—	—	8	5	13
<b>New Mexico</b> .....	<b>16,443</b>	—	<b>72</b>	<b>6</b>	<b>16,521</b>
Railroad.....	9,378	—	*	—	9,378
Truck.....	26	—	72	6	104
Tramway, Conveyor, and Slurry Pipeline.....	7,039	—	—	—	7,039
Unknown.....	—	—	—	—	2 0
<b>New York</b> .....	<b>8,126</b>	<b>1,063</b>	<b>1,181</b>	<b>180</b>	<b>10,550</b>
Railroad.....	7,145	1,063	896	17	9,120
River.....	48	—	92	41	181
Great Lakes.....	465	—	—	—	465
Tidewater.....	77	—	—	—	77
Truck.....	391	—	194	122	706
<b>North Carolina</b> .....	<b>21,426</b>	—	<b>3,229</b>	<b>150</b>	<b>24,805</b>
Railroad.....	21,098	—	3,049	149	24,297
Truck.....	328	—	180	1	508
<b>North Dakota</b> .....	<b>25,441</b>	—	<b>6,257</b>	<b>128</b>	<b>31,826</b>
Railroad.....	1,312	—	—	67	1,379
Truck.....	4,493	—	—	61	4,554
Tramway, Conveyor, and Slurry Pipeline.....	19,636	—	6,257	—	25,893
<b>Ohio</b> .....	<b>59,713</b>	<b>2,700</b>	<b>3,664</b>	<b>217</b>	<b>66,294</b>
Railroad.....	12,298	2,045	498	*	14,841
River.....	33,806	587	436	42	34,872
Great Lakes.....	29	68	860	—	957
Truck.....	7,093	—	1,869	175	9,137
Tramway, Conveyor, and Slurry Pipeline.....	6,487	—	—	—	6,487
<b>Oklahoma</b> .....	<b>22,261</b>	—	<b>379</b>	<b>2</b>	<b>22,642</b>
Railroad.....	21,058	—	76	*	21,134
River.....	—	—	55	—	55
Truck.....	1,204	—	247	2	1,453
<b>Oregon</b> .....	<b>3,805</b>	—	<b>216</b>	<b>*</b>	<b>4,021</b>
Railroad.....	3,805	—	216	—	4,021
Truck.....	—	—	—	*	*
<b>Pennsylvania</b> .....	<b>40,152</b>	<b>6,798</b>	<b>5,502</b>	<b>690</b>	<b>53,143</b>
Railroad.....	12,727	2,128	1,395	1	16,251
River.....	8,960	4,670	1,161	60	14,851
Great Lakes.....	50	—	—	—	50
Tidewater.....	355	—	—	—	355
Truck.....	13,817	1	2,885	629	17,331
Tramway, Conveyor, and Slurry Pipeline.....	4,243	—	62	—	4,305
Unknown.....	—	—	—	—	2 1
<b>Rhode Island</b> .....	—	—	—	<b>2</b>	<b>2</b>
Truck.....	—	—	—	2	2
<b>South Carolina</b> .....	<b>13,245</b>	—	<b>1,811</b>	<b>237</b>	<b>15,293</b>
Railroad.....	13,245	—	1,758	237	15,240
Truck.....	—	—	53	*	53

See footnotes at end of table.

**Table 63. Domestic Distribution of U.S. Coal by Origin State, Consumer, Destination and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

State of Destination by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
ORIGIN: U.S. TOTAL (Continued)					
<b>South Dakota</b> .....	<b>2,175</b>	-	<b>267</b>	<b>1</b>	<b>2,443</b>
Railroad .....	2,054	-	-	-	2,054
Truck .....	120	-	267	1	388
<b>Tennessee</b> .....	<b>28,823</b>	-	<b>2,901</b>	<b>98</b>	<b>31,822</b>
Railroad .....	16,333	-	2,000	11	18,344
River .....	11,545	-	310	67	11,922
Truck .....	945	-	592	20	1,557
<b>Texas</b> .....	<b>100,499</b>	-	<b>3,809</b>	<b>8</b>	<b>104,316</b>
Railroad .....	74,076	-	1,068	8	75,152
River .....	63	-	3	-	67
Truck .....	13,545	-	319	*	13,865
Tramway, Conveyor, and Slurry Pipeline .....	12,815	-	2,419	-	15,233
<b>Utah</b> .....	<b>12,020</b>	<b>527</b>	<b>257</b>	<b>114</b>	<b>12,918</b>
Railroad .....	4,486	527	32	-	5,045
Truck .....	4,141	-	224	114	4,479
Tramway, Conveyor, and Slurry Pipeline .....	3,393	-	-	-	3,393
<b>Vermont</b> .....	-	-	-	<b>2</b>	<b>2</b>
Truck .....	-	-	*	2	2
<b>Virginia</b> .....	<b>15,742</b>	<b>1,106</b>	<b>2,210</b>	<b>124</b>	<sup>2</sup> <b>19,328</b>
Railroad .....	12,938	84	1,992	73	15,086
River .....	444	-	5	-	449
Tidewater .....	10	-	-	-	10
Truck .....	2,351	*	199	51	2,601
Tramway, Conveyor, and Slurry Pipeline .....	-	1,022	14	-	1,036
Unknown .....	-	-	-	-	2 146
<b>Washington</b> .....	<b>4,157</b>	-	<b>51</b>	<b>17</b>	<b>4,224</b>
Railroad .....	82	-	51	16	149
Truck .....	-	-	-	1	1
Tramway, Conveyor, and Slurry Pipeline .....	4,074	-	-	-	4,074
<b>West Virginia</b> .....	<b>32,004</b>	<b>1,451</b>	<b>1,997</b>	<b>168</b>	<sup>2</sup> <b>35,632</b>
Railroad .....	8,154	403	83	64	8,704
River .....	13,188	781	819	44	14,832
Tidewater .....	-	259	-	-	259
Truck .....	7,119	9	727	60	7,915
Tramway, Conveyor, and Slurry Pipeline .....	3,543	-	368	-	3,911
Unknown .....	-	-	-	-	2 11
<b>Wisconsin</b> .....	<b>26,001</b>	-	<b>1,849</b>	<b>157</b>	<b>28,007</b>
Railroad .....	23,704	-	1,441	*	25,146
River .....	1,232	-	61	144	1,438
Great Lakes .....	1,064	-	345	-	1,409
Truck .....	-	-	2	12	14
<b>Wyoming</b> .....	<b>26,509</b>	-	<b>2,103</b>	<b>104</b>	<b>28,715</b>
Railroad .....	14,227	-	1,219	1	15,447
Truck .....	761	-	884	103	1,748
Tramway, Conveyor, and Slurry Pipeline .....	11,521	-	-	-	11,521
<b>Unknown State</b> .....	-	-	-	-	<sup>1</sup> <b>1,612</b>
Unknown .....	-	-	-	-	<sup>1</sup> 1,612
<b>U.S. Total</b> .....	<b>941,636</b>	<b>27,703</b>	<b>65,824</b>	<b>4,879</b>	<sup>3</sup> <b>1,041,823</b>
Railroad .....	628,110	17,768	29,574	1,239	676,691
River .....	114,066	7,145	8,226	1,128	130,566
Great Lakes .....	9,877	1,408	2,459	-	13,745
Tidewater .....	6,199	259	168	-	6,625
Truck .....	93,632	101	15,838	2,511	112,083
Tramway, Conveyor, and Slurry Pipeline .....	89,751	1,022	9,559	-	100,332
Unknown .....	-	-	-	-	<sup>3</sup> 1,781

<sup>1</sup> Includes distribution to unknown consumers.

<sup>2</sup> Includes distribution to the transportation sector.

<sup>3</sup> Includes distribution to both the transportation sector and unknown consumers.

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

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

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

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: ALABAMA</b>					
<b>Alabama</b> .....	<b>12,392</b>	<b>222</b>	<b>1,387</b>	<b>23</b>	<b>14,024</b>
Railroad.....	5,262	161	21	—	5,444
River.....	4,116	—	—	—	4,116
Truck.....	3,014	61	1,366	23	4,464
<b>Illinois</b> .....	<b>1,338</b>	—	—	—	<b>1,338</b>
Railroad.....	661	—	—	—	661
River.....	577	—	—	—	577
Tidewater.....	100	—	—	—	100
<b>Kentucky Total</b> .....	<b>2,054</b>	—	<b>234</b>	*	<b>2,288</b>
Railroad.....	967	—	118	—	1,085
River.....	1,087	—	90	—	1,178
Truck.....	—	—	26	*	26
<b>Eastern</b> .....	<b>181</b>	—	<b>234</b>	*	<b>415</b>
Railroad.....	159	—	118	—	276
River.....	22	—	90	—	112
Truck.....	—	—	26	*	26
<b>Western</b> .....	<b>1,873</b>	—	—	—	<b>1,873</b>
Railroad.....	808	—	—	—	808
River.....	1,065	—	—	—	1,065
<b>Ohio</b> .....	<b>31</b>	—	—	—	<b>31</b>
River.....	31	—	—	—	31
<b>Pennsylvania Total</b> .....	<b>306</b>	—	<b>11</b>	—	<b>317</b>
Railroad.....	200	—	*	—	200
River.....	106	—	11	—	117
Truck.....	—	—	*	—	*
<b>Anthracite</b> .....	—	—	<b>11</b>	—	<b>11</b>
Railroad.....	—	—	*	—	*
River.....	—	—	11	—	11
Truck.....	—	—	*	—	*
<b>Bituminous</b> .....	<b>306</b>	—	—	—	<b>306</b>
Railroad.....	200	—	—	—	200
River.....	106	—	—	—	106
<b>Tennessee</b> .....	—	—	<b>49</b>	—	<b>49</b>
Railroad.....	—	—	35	—	35
Truck.....	—	—	14	—	14
<b>Virginia</b> .....	—	<b>276</b>	<b>325</b>	—	<b>601</b>
Railroad.....	—	276	325	—	601
<b>West Virginia Total</b> .....	<b>413</b>	<b>1,609</b>	<b>134</b>	—	<b>2,156</b>
Railroad.....	10	1,609	58	—	1,677
River.....	400	—	63	—	464
Truck.....	3	—	13	—	16
<b>Northern</b> .....	<b>250</b>	—	—	—	<b>250</b>
River.....	250	—	—	—	250
<b>Southern</b> .....	<b>163</b>	<b>1,609</b>	<b>134</b>	—	<b>1,906</b>
Railroad.....	10	1,609	58	—	1,677
River.....	150	—	63	—	213
Truck.....	3	—	13	—	16
<b>Wyoming</b> .....	<b>10,679</b>	—	—	—	<b>10,679</b>
Railroad.....	10,679	—	—	—	10,679
<b>State Total</b> .....	<b>27,213</b>	<b>2,107</b>	<b>2,139</b>	<b>23</b>	<b>31,482</b>
Railroad.....	17,778	2,046	557	—	20,380
River.....	6,318	—	164	—	6,482
Tidewater.....	100	—	—	—	100
Truck.....	3,017	61	1,418	23	4,520
<b>DESTINATION: ALASKA</b>					
<b>Alaska</b> .....	<b>483</b>	—	—	<b>553</b>	<b>1,036</b>
Railroad.....	148	—	—	483	631
Truck.....	335	—	—	69	405
<b>State Total</b> .....	<b>483</b>	—	—	<b>553</b>	<b>1,036</b>
Railroad.....	148	—	—	483	631
Truck.....	335	—	—	69	405

See footnotes at end of table.



**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: ARIZONA</b>					
<b>Arizona</b> .....	<b>8,129</b>	-	-	-	<b>8,129</b>
Railroad .....	8,129	-	-	-	8,129
<b>Colorado</b> .....	<b>547</b>	-	<b>98</b>	*	<b>645</b>
Railroad .....	547	-	98	-	645
Truck .....	-	-	-	*	*
<b>Montana</b> .....	<b>69</b>	-	-	-	<b>69</b>
Railroad .....	69	-	-	-	69
<b>New Mexico</b> .....	<b>10,849</b>	-	<b>497</b>	-	<b>11,346</b>
Railroad .....	10,849	-	497	-	11,346
<b>Pennsylvania Total</b> .....	-	-	*	-	*
Railroad .....	-	-	*	-	*
Truck .....	-	-	*	-	*
<b>Anthracite</b> .....	-	-	*	-	*
Railroad .....	-	-	*	-	*
Truck .....	-	-	*	-	*
<b>Wyoming</b> .....	<b>142</b>	-	-	-	<b>142</b>
Railroad .....	142	-	-	-	142
<b>State Total</b> .....	<b>19,737</b>	-	<b>595</b>	*	<b>20,332</b>
Railroad .....	19,737	-	595	-	20,332
Truck .....	-	-	*	*	*
<b>DESTINATION: ARKANSAS</b>					
<b>Alabama</b> .....	-	-	<b>113</b>	-	<b>113</b>
Railroad .....	-	-	113	-	113
<b>Arkansas</b> .....	-	-	<b>4</b>	-	<b>4</b>
Truck .....	-	-	4	-	4
<b>Colorado</b> .....	-	-	<b>10</b>	-	<b>10</b>
Railroad .....	-	-	10	-	10
<b>Kentucky Total</b> .....	-	-	<b>20</b>	-	<b>20</b>
Railroad .....	-	-	20	-	20
<b>Eastern</b> .....	-	-	<b>20</b>	-	<b>20</b>
Railroad .....	-	-	20	-	20
<b>Oklahoma</b> .....	-	-	<b>66</b>	-	<b>66</b>
Truck .....	-	-	66	-	66
<b>Pennsylvania Total</b> .....	-	-	<b>1</b>	*	<b>1</b>
Truck .....	-	-	1	*	1
<b>Anthracite</b> .....	-	-	<b>1</b>	*	<b>1</b>
Truck .....	-	-	1	*	1
<b>Wyoming</b> .....	<b>15,167</b>	-	-	-	<b>15,167</b>
Railroad .....	15,167	-	-	-	15,167
<b>State Total</b> .....	<b>15,167</b>	-	<b>213</b>	*	<b>15,380</b>
Railroad .....	15,167	-	142	-	15,309
Truck .....	-	-	70	*	70
<b>DESTINATION: CALIFORNIA</b>					
<b>Colorado</b> .....	-	-	<b>10</b>	-	<b>10</b>
Railroad .....	-	-	10	-	10
<b>New Mexico</b> .....	-	-	<b>6</b>	-	<b>6</b>
Railroad .....	-	-	6	-	6
<b>Pennsylvania Total</b> .....	-	-	*	-	*
Railroad .....	-	-	*	-	*
Truck .....	-	-	*	-	*
<b>Anthracite</b> .....	-	-	*	-	*
Railroad .....	-	-	*	-	*
Truck .....	-	-	*	-	*
<b>Utah</b> .....	<b>3,154</b>	-	<b>1,948</b>	<b>28</b>	<b>5,130</b>
Railroad .....	3,154	-	1,946	*	5,101
Truck .....	-	-	1	27	29
<b>Wyoming</b> .....	-	-	<b>189</b>	-	<b>189</b>
Railroad .....	-	-	189	-	189
<b>State Total</b> .....	<b>3,154</b>	-	<b>2,153</b>	<b>28</b>	<b>5,335</b>
Railroad .....	3,154	-	2,151	*	5,305
Truck .....	-	-	2	27	29

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: COLORADO</b>					
<b>Colorado</b> .....	<b>11,621</b>	—	<b>573</b>	<b>99</b>	<b>12,294</b>
Railroad .....	7,360	—	375	—	7,735
Truck .....	4,260	—	199	99	4,559
<b>New Mexico</b> .....	—	—	<b>1</b>	—	<b>1</b>
Railroad .....	—	—	1	—	1
<b>Pennsylvania Total</b> .....	<b>1,096</b>	—	<b>18</b>	*	<b>1,115</b>
Railroad .....	—	—	18	—	18
River .....	1,096	—	—	—	1,096
Truck .....	—	—	*	*	1
<b>Anthracite</b> .....	—	—	<b>18</b>	*	<b>18</b>
Railroad .....	—	—	18	—	18
Truck .....	—	—	*	*	1
<b>Bituminous</b> .....	<b>1,096</b>	—	—	—	<b>1,096</b>
River .....	1,096	—	—	—	1,096
<b>Utah</b> .....	—	—	—	<b>3</b>	<b>3</b>
Truck .....	—	—	—	3	3
<b>Wyoming</b> .....	<b>11,015</b>	—	<b>62</b>	—	<b>11,077</b>
Railroad .....	11,015	—	62	—	11,077
<b>State Total</b> .....	<b>23,732</b>	—	<b>655</b>	<b>102</b>	<b>24,490</b>
Railroad .....	18,375	—	456	—	18,831
River .....	1,096	—	—	—	1,096
Truck .....	4,260	—	199	102	4,562
<b>DESTINATION: CONNECTICUT</b>					
<b>Ohio</b> .....	—	—	—	*	*
Truck .....	—	—	—	*	*
<b>Pennsylvania Total</b> .....	<b>80</b>	—	<b>1</b>	<b>5</b>	<b>87</b>
Railroad .....	80	—	—	—	80
Truck .....	—	—	1	5	6
<b>Anthracite</b> .....	—	—	<b>1</b>	<b>5</b>	<b>6</b>
Truck .....	—	—	1	5	6
<b>Bituminous</b> .....	<b>80</b>	—	—	*	<b>80</b>
Railroad .....	80	—	—	—	80
Truck .....	—	—	—	*	*
<b>West Virginia Total</b> .....	<b>715</b>	—	—	—	<b>715</b>
Railroad .....	117	—	—	—	117
Tidewater .....	598	—	—	—	598
<b>Northern</b> .....	<b>614</b>	—	—	—	<b>614</b>
Railroad .....	17	—	—	—	17
Tidewater .....	598	—	—	—	598
<b>Southern</b> .....	<b>101</b>	—	—	—	<b>101</b>
Railroad .....	101	—	—	—	101
<b>State Total</b> .....	<b>795</b>	—	<b>1</b>	<b>5</b>	<b>801</b>
Railroad .....	197	—	—	—	197
Tidewater .....	598	—	—	—	598
Truck .....	—	—	1	5	6
<b>DESTINATION: DELAWARE</b>					
<b>Kentucky Total</b> .....	<b>69</b>	—	—	—	<b>69</b>
Railroad .....	69	—	—	—	69
<b>Eastern</b> .....	<b>69</b>	—	—	—	<b>69</b>
Railroad .....	69	—	—	—	69
<b>Maryland</b> .....	<b>139</b>	—	—	—	<b>139</b>
Railroad .....	139	—	—	—	139
<b>Pennsylvania Total</b> .....	<b>393</b>	—	<b>39</b>	<b>1</b>	<b>433</b>
Railroad .....	393	—	32	*	426
Truck .....	—	—	7	*	7
<b>Anthracite</b> .....	—	—	<b>7</b>	<b>1</b>	<b>7</b>
Railroad .....	—	—	*	*	*
Truck .....	—	—	7	*	7
<b>Bituminous</b> .....	<b>393</b>	—	<b>32</b>	*	<b>425</b>
Railroad .....	393	—	32	—	425
Truck .....	—	—	—	*	*

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: DELAWARE (Continued)</b>					
Tennessee .....	-	-	13	-	13
Truck .....	-	-	13	-	13
<b>Virginia</b> .....	<b>182</b>	-	-	-	<b>182</b>
Railroad .....	182	-	-	-	182
<b>West Virginia Total</b> .....	<b>507</b>	-	<b>18</b>	*	<b>525</b>
Railroad .....	507	-	16	-	523
Truck .....	-	-	2	*	2
<b>Northern</b> .....	<b>175</b>	-	<b>18</b>	*	<b>193</b>
Railroad .....	175	-	16	-	191
Truck .....	-	-	2	*	2
<b>Southern</b> .....	<b>332</b>	-	-	-	<b>332</b>
Railroad .....	332	-	-	-	332
<b>State Total</b> .....	<b>1,291</b>	-	<b>70</b>	<b>1</b>	<b>1,362</b>
Railroad .....	1,291	-	48	*	1,339
Truck .....	-	-	22	1	22
<b>DESTINATION: DISTRICT OF COLUMBIA</b>					
<b>Kentucky Total</b> .....	-	-	-	<b>3</b>	<b>3</b>
Railroad .....	-	-	-	3	3
<b>Eastern</b> .....	-	-	-	<b>3</b>	<b>3</b>
Railroad .....	-	-	-	3	3
<b>Pennsylvania Total</b> .....	-	-	-	*	*
Truck .....	-	-	-	*	*
<b>Anthracite</b> .....	-	-	-	*	*
Truck .....	-	-	-	*	*
<b>West Virginia Total</b> .....	-	-	<b>3</b>	<b>3</b>	<b>6</b>
Railroad .....	-	-	-	3	3
River .....	-	-	3	-	3
<b>Southern</b> .....	-	-	<b>3</b>	<b>3</b>	<b>6</b>
Railroad .....	-	-	-	3	3
River .....	-	-	3	-	3
<b>State Total</b> .....	-	-	<b>3</b>	<b>6</b>	<b>9</b>
Railroad .....	-	-	-	6	6
River .....	-	-	3	-	3
Truck .....	-	-	-	*	*
<b>DESTINATION: FLORIDA</b>					
<b>Illinois</b> .....	<b>4,300</b>	-	-	-	<b>4,300</b>
Railroad .....	1,073	-	-	-	1,073
River .....	3,227	-	-	-	3,227
<b>Kentucky Total</b> .....	<b>12,668</b>	-	<b>2,543</b>	<b>6</b>	<b>15,218</b>
Railroad .....	11,315	-	774	6	12,096
River .....	1,353	-	1,769	-	3,122
<b>Eastern</b> .....	<b>11,254</b>	-	<b>2,543</b>	<b>6</b>	<b>13,804</b>
Railroad .....	11,254	-	774	6	12,035
River .....	-	-	1,769	-	1,769
<b>Western</b> .....	<b>1,414</b>	-	-	-	<b>1,414</b>
Railroad .....	61	-	-	-	61
River .....	1,353	-	-	-	1,353
<b>Pennsylvania Total</b> .....	<b>256</b>	-	*	*	<b>256</b>
Railroad .....	256	-	*	-	256
Truck .....	-	-	*	*	*
<b>Anthracite</b> .....	-	-	*	*	*
Railroad .....	-	-	*	-	*
Truck .....	-	-	*	*	*
<b>Bituminous</b> .....	<b>256</b>	-	-	-	<b>256</b>
Railroad .....	256	-	-	-	256
<b>Tennessee</b> .....	<b>30</b>	-	-	-	<b>30</b>
Railroad .....	30	-	-	-	30
<b>Virginia</b> .....	<b>589</b>	-	<b>2</b>	-	<b>590</b>
Railroad .....	589	-	2	-	590
<b>West Virginia Total</b> .....	<b>2,590</b>	-	<b>25</b>	-	<b>2,615</b>
Railroad .....	1,125	-	9	-	1,135
River .....	159	-	13	-	172

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: FLORIDA (Continued)</b>					
<b>West Virginia Total</b>					
Tidewater .....	1,306	-	-	-	1,306
Truck .....	-	-	3	-	3
<b>Northern</b> .....	<b>855</b>	-	-	-	<b>855</b>
Railroad .....	855	-	-	-	855
<b>Southern</b> .....	<b>1,735</b>	-	<b>25</b>	-	<b>1,760</b>
Railroad .....	270	-	9	-	279
River .....	159	-	13	-	172
Tidewater .....	1,306	-	-	-	1,306
Truck .....	-	-	3	-	3
<b>Wyoming</b> .....	<b>416</b>	-	-	-	<b>416</b>
River .....	416	-	-	-	416
<b>State Total</b> .....	<b>20,850</b>	-	<b>2,570</b>	<b>6</b>	<b>23,426</b>
Railroad .....	14,388	-	785	6	15,180
River .....	5,156	-	1,782	-	6,938
Tidewater .....	1,306	-	-	-	1,306
Truck .....	-	-	3	*	3
<b>DESTINATION: GEORGIA</b>					
<b>Alabama</b> .....	<b>194</b>	-	-	-	<b>194</b>
Railroad .....	194	-	-	-	194
<b>Illinois</b> .....	<b>614</b>	-	-	-	<b>614</b>
Railroad .....	614	-	-	-	614
<b>Kentucky Total</b> .....	<b>14,662</b>	-	<b>1,783</b>	<b>5</b>	<b>16,450</b>
Railroad .....	14,662	-	1,593	-	16,255
River .....	-	-	21	-	21
Truck .....	-	-	169	5	174
<b>Eastern</b> .....	<b>14,662</b>	-	<b>1,783</b>	<b>5</b>	<b>16,450</b>
Railroad .....	14,662	-	1,593	-	16,255
River .....	-	-	21	-	21
Truck .....	-	-	169	5	174
<b>Ohio</b> .....	<b>42</b>	-	-	-	<b>42</b>
Railroad .....	42	-	-	-	42
<b>Pennsylvania Total</b> .....	<b>688</b>	-	<b>3</b>	-	<b>691</b>
Railroad .....	688	-	*	-	688
Truck .....	-	-	3	-	3
<b>Anthracite</b> .....	-	-	<b>3</b>	-	<b>3</b>
Railroad .....	-	-	*	-	*
Truck .....	-	-	3	-	3
<b>Bituminous</b> .....	<b>688</b>	-	-	-	<b>688</b>
Railroad .....	688	-	-	-	688
<b>Tennessee</b> .....	<b>776</b>	-	<b>35</b>	-	<b>811</b>
Railroad .....	776	-	11	-	787
Truck .....	-	-	24	-	24
<b>Virginia</b> .....	<b>4,024</b>	-	<b>440</b>	<b>11</b>	<b>4,475</b>
Railroad .....	4,024	-	440	11	4,475
<b>West Virginia Total</b> .....	<b>3,713</b>	-	-	-	<b>3,713</b>
Railroad .....	3,713	-	-	-	3,713
<b>Southern</b> .....	<b>3,713</b>	-	-	-	<b>3,713</b>
Railroad .....	3,713	-	-	-	3,713
<b>Wyoming</b> .....	<b>6,805</b>	-	-	-	<b>6,805</b>
Railroad .....	6,805	-	-	-	6,805
<b>State Total</b> .....	<b>31,517</b>	-	<b>2,261</b>	<b>17</b>	<b>33,795</b>
Railroad .....	31,517	-	2,045	11	33,573
River .....	-	-	21	-	21
Truck .....	-	-	195	5	201
<b>DESTINATION: IDAHO</b>					
<b>Utah</b> .....	-	-	<b>12</b>	<b>54</b>	<b>66</b>
Railroad .....	-	-	12	-	12
Truck .....	-	-	-	54	54
<b>Wyoming</b> .....	-	-	<b>248</b>	<b>1</b>	<b>249</b>
Railroad .....	-	-	237	-	237
Truck .....	-	-	11	1	12

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: IDAHO (Continued)</b>					
<b>State Total</b> .....	-	-	<b>261</b>	<b>55</b>	<b>315</b>
Railroad.....	-	-	249	-	249
Truck.....	-	-	11	55	66
<b>DESTINATION: ILLINOIS</b>					
<b>Colorado</b> .....	<b>171</b>	-	<b>159</b>	-	<b>330</b>
Railroad.....	30	-	155	-	185
River.....	141	-	-	-	141
Truck.....	-	-	4	-	4
<b>Illinois</b> .....	<b>14,748</b>	-	<b>2,701</b>	<b>143</b>	<b>17,592</b>
Railroad.....	8,235	-	1,186	-	9,420
River.....	3,136	-	-	25	3,161
Truck.....	3,378	-	1,494	118	4,989
Tramway, Conveyor, and Slurry Pipeline.....	-	-	21	-	21
<b>Indiana</b> .....	<b>965</b>	-	<b>27</b>	<b>12</b>	<b>1,004</b>
Railroad.....	740	-	27	-	767
Truck.....	225	-	-	12	237
<b>Kentucky Total</b> .....	<b>30</b>	-	<b>1,336</b>	<b>26</b>	<b>1,391</b>
Railroad.....	19	-	848	-	867
River.....	10	-	364	26	400
Great Lakes.....	-	-	82	-	82
Truck.....	-	-	43	*	43
<b>Eastern</b> .....	<b>19</b>	-	<b>1,191</b>	<b>26</b>	<b>1,236</b>
Railroad.....	19	-	848	-	867
River.....	-	-	219	26	245
Great Lakes.....	-	-	82	-	82
Truck.....	-	-	43	*	43
<b>Western</b> .....	<b>10</b>	-	<b>145</b>	-	<b>155</b>
River.....	10	-	145	-	155
<b>Montana</b> .....	<b>1,769</b>	-	-	-	<b>1,769</b>
Railroad.....	1,769	-	-	-	1,769
<b>Pennsylvania Total</b> .....	-	-	<b>113</b>	<b>*</b>	<b>114</b>
Railroad.....	-	-	16	-	16
River.....	-	-	97	-	97
Truck.....	-	-	*	*	*
<b>Anthracite</b> .....	-	-	<b>17</b>	<b>*</b>	<b>17</b>
Railroad.....	-	-	16	-	16
Truck.....	-	-	*	*	*
<b>Bituminous</b> .....	-	-	<b>97</b>	-	<b>97</b>
River.....	-	-	97	-	97
<b>Texas</b> .....	-	-	<b>12</b>	-	<b>12</b>
River.....	-	-	12	-	12
<b>Utah</b> .....	<b>1,331</b>	-	<b>175</b>	-	<b>1,507</b>
Railroad.....	1,331	-	175	-	1,507
<b>Virginia</b> .....	-	<b>2</b>	<b>3</b>	-	<b>4</b>
River.....	-	2	3	-	4
<b>West Virginia Total</b> .....	-	<b>1,157</b>	<b>392</b>	-	<b>1,549</b>
Railroad.....	-	736	200	-	936
River.....	-	415	172	-	587
Great Lakes.....	-	-	20	-	20
Truck.....	-	6	-	-	6
<b>Northern</b> .....	-	-	<b>4</b>	-	<b>4</b>
Railroad.....	-	-	4	-	4
<b>Southern</b> .....	-	<b>1,157</b>	<b>388</b>	-	<b>1,545</b>
Railroad.....	-	736	196	-	932
River.....	-	415	172	-	587
Great Lakes.....	-	-	20	-	20
Truck.....	-	6	-	-	6
<b>Wyoming</b> .....	<b>23,311</b>	-	-	-	<b>23,311</b>
Railroad.....	23,311	-	-	-	23,311
<b>State Total</b> .....	<b>42,326</b>	<b>1,158</b>	<b>4,918</b>	<b>181</b>	<b>48,583</b>
Railroad.....	35,436	736	2,607	-	38,779
River.....	3,288	417	647	51	4,402
Great Lakes.....	-	-	102	-	102
Truck.....	3,603	6	1,540	130	5,279

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: ILLINOIS (Continued)</b>					
<b>State Total</b>					
Tramway, Conveyor, and Slurry Pipeline .....	-	-	21	-	21
<b>DESTINATION: INDIANA</b>					
<b>Alabama</b> .....	-	<b>1,302</b>	-	-	<b>1,302</b>
Railroad .....	-	1,302	-	-	1,302
<b>Illinois</b> .....	<b>5,007</b>	-	<b>152</b>	<b>3</b>	<b>5,162</b>
Railroad .....	3,956	-	-	-	3,956
River .....	770	-	-	3	773
Truck .....	282	-	152	-	434
<b>Indiana</b> .....	<b>28,908</b>	-	<b>1,551</b>	<b>283</b>	<b>30,742</b>
Railroad .....	20,377	-	188	*	20,565
River .....	-	-	293	-	293
Truck .....	7,907	-	1,070	283	9,260
Tramway, Conveyor, and Slurry Pipeline .....	624	-	-	-	624
<b>Kentucky Total</b> .....	<b>2,388</b>	<b>205</b>	<b>342</b>	<b>52</b>	<b>2,987</b>
Railroad .....	222	205	102	26	556
River .....	1,784	-	170	25	1,979
Truck .....	382	-	70	1	452
<b>Eastern</b> .....	<b>2,376</b>	<b>205</b>	<b>309</b>	<b>52</b>	<b>2,942</b>
Railroad .....	222	205	102	26	556
River .....	1,777	-	170	25	1,973
Truck .....	377	-	37	1	414
<b>Western</b> .....	<b>12</b>	-	<b>33</b>	-	<b>45</b>
River .....	7	-	-	-	7
Truck .....	5	-	33	-	38
<b>Montana</b> .....	<b>1,308</b>	-	-	-	<b>1,308</b>
Railroad .....	1,308	-	-	-	1,308
<b>Ohio</b> .....	<b>29</b>	-	<b>61</b>	-	<b>91</b>
River .....	7	-	-	-	7
Truck .....	22	-	61	-	84
<b>Pennsylvania Total</b> .....	<b>283</b>	-	<b>39</b>	<b>5</b>	<b>327</b>
Railroad .....	68	-	*	*	68
River .....	215	-	-	-	215
Truck .....	-	-	39	5	44
<b>Anthracite</b> .....	-	-	<b>39</b>	<b>5</b>	<b>44</b>
Railroad .....	-	-	*	*	*
Truck .....	-	-	39	5	44
<b>Bituminous</b> .....	<b>283</b>	-	-	-	<b>283</b>
Railroad .....	68	-	-	-	68
River .....	215	-	-	-	215
<b>Virginia</b> .....	<b>941</b>	<b>798</b>	-	-	<b>1,739</b>
Railroad .....	-	798	-	-	798
River .....	941	-	-	-	941
<b>West Virginia Total</b> .....	<b>1,178</b>	<b>5,356</b>	<b>949</b>	-	<b>7,484</b>
Railroad .....	381	4,665	850	-	5,896
River .....	797	691	99	-	1,588
Tidewater .....	-	*	-	-	*
<b>Northern</b> .....	<b>338</b>	-	-	-	<b>338</b>
Railroad .....	219	-	-	-	219
River .....	120	-	-	-	120
<b>Southern</b> .....	<b>840</b>	<b>5,356</b>	<b>949</b>	-	<b>7,146</b>
Railroad .....	163	4,665	850	-	5,678
River .....	678	691	99	-	1,468
Tidewater .....	-	*	-	-	*
<b>Wyoming</b> .....	<b>14,315</b>	-	-	-	<b>14,315</b>
Railroad .....	7,102	-	-	-	7,102
River .....	7,213	-	-	-	7,213
<b>State Total</b> .....	<b>54,357</b>	<b>7,662</b>	<b>3,095</b>	<b>343</b>	<b>65,457</b>
Railroad .....	33,414	6,971	1,141	27	41,552
River .....	11,727	691	562	28	13,008
Tidewater .....	-	*	-	-	*
Truck .....	8,593	-	1,392	288	10,273
Tramway, Conveyor, and Slurry Pipeline .....	624	-	-	-	624

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: IOWA</b>					
<b>Colorado</b> .....	<b>306</b>	—	<b>170</b>	—	<b>475</b>
Railroad .....	—	—	170	—	170
River .....	306	—	—	—	306
<b>Illinois</b> .....	<b>1,418</b>	—	<b>425</b>	<b>219</b>	<b>2,061</b>
Railroad .....	203	—	11	—	214
River .....	1,215	—	221	219	1,655
Truck .....	—	—	193	*	193
<b>Indiana</b> .....	<b>40</b>	—	<b>69</b>	—	<b>109</b>
Railroad .....	40	—	69	—	109
<b>Kentucky Total</b> .....	<b>27</b>	—	<b>284</b>	<b>78</b>	<b>389</b>
Railroad .....	—	—	30	—	30
River .....	27	—	254	78	359
Truck .....	*	—	—	—	*
<b>Eastern</b> .....	<b>5</b>	—	<b>209</b>	<b>54</b>	<b>268</b>
Railroad .....	—	—	30	—	30
River .....	5	—	178	54	237
Truck .....	*	—	—	—	*
<b>Western</b> .....	<b>21</b>	—	<b>76</b>	<b>25</b>	<b>122</b>
River .....	21	—	76	25	122
<b>Pennsylvania Total</b> .....	<b>19</b>	—	<b>236</b>	<b>25</b>	<b>280</b>
Railroad .....	—	—	34	—	34
River .....	19	—	200	25	243
Truck .....	—	—	2	*	2
<b>Anthracite</b> .....	—	—	<b>36</b>	*	<b>36</b>
Railroad .....	—	—	34	—	34
Truck .....	—	—	2	*	2
<b>Bituminous</b> .....	<b>19</b>	—	<b>200</b>	<b>25</b>	<b>243</b>
River .....	19	—	200	25	243
<b>West Virginia Total</b> .....	<b>3,417</b>	—	<b>47</b>	<b>68</b>	<b>3,531</b>
Railroad .....	3,409	—	27	—	3,437
River .....	7	—	20	68	95
<b>Southern</b> .....	<b>3,417</b>	—	<b>47</b>	<b>68</b>	<b>3,531</b>
Railroad .....	3,409	—	27	—	3,437
River .....	7	—	20	68	95
<b>Wyoming</b> .....	<b>23,251</b>	—	<b>849</b>	—	<b>24,100</b>
Railroad .....	23,251	—	849	—	24,100
<b>State Total</b> .....	<b>28,476</b>	—	<b>2,081</b>	<b>389</b>	<b>30,946</b>
Railroad .....	26,903	—	1,190	—	28,093
River .....	1,573	—	695	389	2,657
Truck .....	*	—	195	*	196
<b>DESTINATION: KANSAS</b>					
<b>Colorado</b> .....	<b>587</b>	—	—	—	<b>587</b>
Railroad .....	587	—	—	—	587
<b>Kansas</b> .....	<b>406</b>	—	—	—	<b>406</b>
Truck .....	406	—	—	—	406
<b>Missouri</b> .....	—	—	—	<b>1</b>	<b>1</b>
Truck .....	—	—	—	1	1
<b>Montana</b> .....	<b>1,319</b>	—	—	—	<b>1,319</b>
Railroad .....	1,319	—	—	—	1,319
<b>Oklahoma</b> .....	<b>71</b>	—	<b>5</b>	<b>5</b>	<b>82</b>
Truck .....	71	—	5	5	82
<b>Pennsylvania Total</b> .....	—	—	<b>1</b>	—	<b>1</b>
Railroad .....	—	—	1	—	1
<b>Anthracite</b> .....	—	—	<b>1</b>	—	<b>1</b>
Railroad .....	—	—	1	—	1
<b>Utah</b> .....	—	—	—	*	*
Truck .....	—	—	—	*	*
<b>Wyoming</b> .....	<b>13,751</b>	—	—	—	<b>13,751</b>
Railroad .....	13,751	—	—	—	13,751
<b>State Total</b> .....	<b>16,134</b>	—	<b>6</b>	<b>7</b>	<b>16,147</b>
Railroad .....	15,657	—	1	—	15,658
Truck .....	477	—	5	7	489

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: KENTUCKY</b>					
<b>Colorado</b> .....	<b>2,946</b>	-	-	-	<b>2,946</b>
Railroad.....	2,946	-	-	-	2,946
<b>Illinois</b> .....	<b>395</b>	-	-	*	<b>395</b>
Railroad.....	368	-	-	-	368
Truck.....	27	-	-	*	27
<b>Indiana</b> .....	<b>1,887</b>	-	-	-	<b>1,887</b>
Railroad.....	799	-	-	-	799
River.....	237	-	-	-	237
Truck.....	851	-	-	-	851
<b>Kentucky Total</b> .....	<b>24,558</b>	<b>448</b>	<b>625</b>	<b>298</b>	<sup>1</sup> <b>25,939</b>
Railroad.....	8,050	423	4	*	8,477
River.....	5,170	-	66	168	5,404
Truck.....	11,338	25	554	130	12,047
Unknown.....	-	-	-	-	1 10
<b>Eastern</b> .....	<b>8,586</b>	<b>448</b>	<b>580</b>	<b>297</b>	<sup>1</sup> <b>9,921</b>
Railroad.....	2,690	423	4	*	3,117
River.....	1,749	-	66	168	1,984
Truck.....	4,147	25	509	128	4,809
Unknown.....	-	-	-	-	1 10
<b>Western</b> .....	<b>15,972</b>	-	<b>45</b>	<b>2</b>	<b>16,019</b>
Railroad.....	5,360	-	-	-	5,360
River.....	3,421	-	-	-	3,421
Truck.....	7,191	-	45	2	7,238
<b>Ohio</b> .....	<b>123</b>	-	-	-	<b>123</b>
River.....	123	-	-	-	123
<b>Pennsylvania Total</b> .....	<b>589</b>	-	<b>19</b>	<b>*</b>	<b>608</b>
Railroad.....	319	-	11	-	331
River.....	269	-	3	-	272
Truck.....	-	-	5	*	5
<b>Anthracite</b> .....	-	-	<b>19</b>	<b>*</b>	<b>19</b>
Railroad.....	-	-	11	-	11
River.....	-	-	3	-	3
Truck.....	-	-	5	*	5
<b>Bituminous</b> .....	<b>589</b>	-	-	-	<b>589</b>
Railroad.....	319	-	-	-	319
River.....	269	-	-	-	269
<b>Tennessee</b> .....	<b>46</b>	-	<b>2</b>	<b>39</b>	<b>87</b>
Railroad.....	-	-	1	-	1
Truck.....	46	-	1	39	86
<b>West Virginia Total</b> .....	<b>6,926</b>	<b>739</b>	<b>1,065</b>	<b>63</b>	<b>8,793</b>
Railroad.....	337	739	102	12	1,190
River.....	6,296	-	845	45	7,186
Truck.....	294	-	117	7	418
<b>Northern</b> .....	<b>1,441</b>	-	-	-	<b>1,441</b>
River.....	1,436	-	-	-	1,436
Truck.....	5	-	-	-	5
<b>Southern</b> .....	<b>5,485</b>	<b>739</b>	<b>1,065</b>	<b>63</b>	<b>7,352</b>
Railroad.....	337	739	102	12	1,190
River.....	4,859	-	845	45	5,750
Truck.....	289	-	117	7	413
<b>Wyoming</b> .....	<b>1,789</b>	-	-	-	<b>1,789</b>
Railroad.....	1,789	-	-	-	1,789
<b>State Total</b> .....	<b>39,258</b>	<b>1,187</b>	<b>1,711</b>	<b>401</b>	<sup>1</sup> <b>42,567</b>
Railroad.....	14,609	1,162	119	12	15,902
River.....	12,094	-	915	214	13,222
Truck.....	12,555	25	677	176	13,433
Unknown.....	-	-	-	-	1 10
<b>DESTINATION: LOUISIANA</b>					
<b>Kentucky Total</b> .....	<b>264</b>	-	<b>15</b>	-	<b>279</b>
River.....	264	-	15	-	279
<b>Eastern</b> .....	<b>1</b>	-	<b>15</b>	-	<b>16</b>
River.....	1	-	15	-	16
<b>Western</b> .....	<b>262</b>	-	-	-	<b>262</b>
River.....	262	-	-	-	262

See footnotes at end of table.



**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: LOUISIANA (Continued)</b>					
<b>Louisiana</b> .....	<b>2,952</b>	-	-	-	<b>2,952</b>
Truck .....	716	-	-	-	716
Tramway, Conveyor, and Slurry Pipeline .....	2,236	-	-	-	2,236
<b>Pennsylvania Total</b> .....	<b>68</b>	-	*	*	<b>68</b>
Railroad .....	-	-	*	-	*
River .....	68	-	-	-	68
Truck .....	-	-	-	*	*
<b>Anthracite</b> .....	-	-	*	*	*
Railroad .....	-	-	*	-	*
Truck .....	-	-	-	*	*
<b>Bituminous</b> .....	<b>68</b>	-	-	-	<b>68</b>
River .....	68	-	-	-	68
<b>West Virginia Total</b> .....	<b>155</b>	-	-	-	<b>155</b>
River .....	155	-	-	-	155
<b>Northern</b> .....	<b>155</b>	-	-	-	<b>155</b>
River .....	155	-	-	-	155
<b>Wyoming</b> .....	<b>11,130</b>	-	-	-	<b>11,130</b>
Railroad .....	11,130	-	-	-	11,130
<b>State Total</b> .....	<b>14,570</b>	-	<b>15</b>	<b>*</b>	<b>14,584</b>
Railroad .....	11,130	-	-	-	11,130
River .....	487	-	15	-	502
Truck .....	716	-	-	*	716
Tramway, Conveyor, and Slurry Pipeline .....	2,236	-	-	-	2,236
<b>DESTINATION: MAINE</b>					
<b>Kentucky Total</b> .....	-	-	<b>168</b>	-	<b>168</b>
Tidewater .....	-	-	168	-	168
<b>Eastern</b> .....	-	-	<b>168</b>	-	<b>168</b>
Tidewater .....	-	-	168	-	168
<b>Pennsylvania Total</b> .....	-	-	<b>12</b>	<b>3</b>	<b>15</b>
Railroad .....	-	-	12	*	12
Truck .....	-	-	-	2	2
<b>Anthracite</b> .....	-	-	-	<b>2</b>	<b>2</b>
Railroad .....	-	-	-	*	*
Truck .....	-	-	-	2	2
<b>Bituminous</b> .....	-	-	<b>12</b>	<b>*</b>	<b>12</b>
Railroad .....	-	-	12	-	12
Truck .....	-	-	-	*	*
<b>West Virginia Total</b> .....	-	-	<b>*</b>	<b>*</b>	<b>*</b>
Truck .....	-	-	*	-	*
<b>Southern</b> .....	-	-	<b>*</b>	<b>*</b>	<b>*</b>
Truck .....	-	-	*	-	*
<b>State Total</b> .....	-	-	<b>180</b>	<b>3</b>	<b>182</b>
Railroad .....	-	-	12	*	12
Tidewater .....	-	-	168	-	168
Truck .....	-	-	*	2	2
<b>DESTINATION: MARYLAND</b>					
<b>Kentucky Total</b> .....	<b>108</b>	-	-	-	<b>108</b>
Railroad .....	108	-	-	-	108
<b>Eastern</b> .....	<b>108</b>	-	-	-	<b>108</b>
Railroad .....	108	-	-	-	108
<b>Maryland</b> .....	<b>467</b>	-	<b>208</b>	<b>2</b>	<b>677</b>
Railroad .....	183	-	-	-	183
Truck .....	284	-	208	2	495
<b>Pennsylvania Total</b> .....	<b>2,881</b>	-	<b>292</b>	<b>3</b>	<b>3,176</b>
Railroad .....	2,781	-	98	*	2,879
Truck .....	100	-	194	3	297
<b>Anthracite</b> .....	-	-	<b>98</b>	<b>2</b>	<b>100</b>
Railroad .....	-	-	98	*	98
Truck .....	-	-	-	2	2
<b>Bituminous</b> .....	<b>2,881</b>	-	<b>194</b>	<b>1</b>	<b>3,076</b>
Railroad .....	2,781	-	-	-	2,781
Truck .....	100	-	194	1	295

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: MARYLAND (Continued)</b>					
<b>Virginia</b> .....	-	-	-	<b>1</b>	<b>1</b>
Truck.....	-	-	-	1	1
<b>West Virginia Total</b> .....	<b>8,748</b>	-	<b>245</b>	<b>40</b>	<b>9,033</b>
Railroad.....	6,772	-	163	-	6,936
Tidewater.....	1,226	-	-	-	1,226
Truck.....	750	-	82	40	871
<b>Northern</b> .....	<b>4,504</b>	-	<b>244</b>	<b>40</b>	<b>4,787</b>
Railroad.....	3,754	-	162	-	3,916
Truck.....	750	-	82	40	871
<b>Southern</b> .....	<b>4,244</b>	-	<b>1</b>	-	<b>4,245</b>
Railroad.....	3,018	-	1	-	3,019
Tidewater.....	1,226	-	-	-	1,226
<b>State Total</b> .....	<b>12,205</b>	-	<b>745</b>	<b>46</b>	<b>12,996</b>
Railroad.....	9,845	-	261	*	10,106
Tidewater.....	1,226	-	-	-	1,226
Truck.....	1,134	-	483	46	1,664
<b>DESTINATION: MASSACHUSETTS</b>					
<b>Kentucky Total</b> .....	<b>296</b>	-	<b>29</b>	<b>28</b>	<b>353</b>
Railroad.....	166	-	29	28	223
River.....	82	-	-	-	82
Great Lakes.....	48	-	-	-	48
<b>Eastern</b> .....	<b>296</b>	-	<b>29</b>	<b>28</b>	<b>353</b>
Railroad.....	166	-	29	28	223
River.....	82	-	-	-	82
Great Lakes.....	48	-	-	-	48
<b>Pennsylvania Total</b> .....	<b>115</b>	-	*	<b>10</b>	<b>124</b>
Railroad.....	115	-	-	*	115
Truck.....	-	-	*	9	9
<b>Anthracite</b> .....	-	-	*	<b>10</b>	<b>10</b>
Railroad.....	-	-	-	*	*
Truck.....	-	-	*	9	9
<b>Bituminous</b> .....	<b>115</b>	-	-	-	<b>115</b>
Railroad.....	115	-	-	-	115
<b>West Virginia Total</b> .....	<b>870</b>	-	<b>4</b>	-	<b>873</b>
Railroad.....	625	-	4	-	628
Tidewater.....	245	-	-	-	245
<b>Northern</b> .....	<b>3</b>	-	-	-	<b>3</b>
Railroad.....	3	-	-	-	3
<b>Southern</b> .....	<b>867</b>	-	<b>4</b>	-	<b>870</b>
Railroad.....	621	-	4	-	625
Tidewater.....	245	-	-	-	245
<b>State Total</b> .....	<b>1,281</b>	-	<b>33</b>	<b>37</b>	<b>1,351</b>
Railroad.....	906	-	33	28	966
River.....	82	-	-	-	82
Great Lakes.....	48	-	-	-	48
Tidewater.....	245	-	-	-	245
Truck.....	-	-	*	9	9
<b>DESTINATION: MICHIGAN</b>					
<b>Colorado</b> .....	<b>55</b>	-	-	-	<b>55</b>
Railroad.....	12	-	-	-	12
River.....	43	-	-	-	43
<b>Indiana</b> .....	<b>68</b>	-	-	-	<b>68</b>
Great Lakes.....	68	-	-	-	68
<b>Kentucky Total</b> .....	<b>4,128</b>	<b>866</b>	<b>1,032</b>	<b>13</b>	<b>6,040</b>
Railroad.....	2,263	603	319	13	3,198
Great Lakes.....	397	263	691	-	1,351
Truck.....	1,468	-	23	*	1,491
<b>Eastern</b> .....	<b>4,128</b>	<b>866</b>	<b>1,032</b>	<b>13</b>	<b>6,040</b>
Railroad.....	2,263	603	319	13	3,198
Great Lakes.....	397	263	691	-	1,351
Truck.....	1,468	-	23	*	1,491

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: MICHIGAN (Continued)</b>					
<b>Montana</b> .....	<b>9,688</b>	—	<b>264</b>	—	<b>9,952</b>
Railroad.....	3,474	—	—	—	3,474
Great Lakes.....	6,214	—	264	—	6,478
<b>Ohio</b> .....	<b>158</b>	—	<b>76</b>	<b>5</b>	<b>239</b>
Great Lakes.....	2	—	1	—	2
Truck.....	156	—	76	5	237
<b>Pennsylvania Total</b> .....	<b>2,912</b>	<b>188</b>	<b>241</b>	<b>1</b>	<b>3,342</b>
Railroad.....	2,647	—	94	*	2,741
River.....	265	—	—	—	265
Great Lakes.....	—	188	147	—	334
Truck.....	—	—	*	1	1
<b>Anthracite</b> .....	—	—	*	<b>1</b>	<b>2</b>
Railroad.....	—	—	*	*	*
Truck.....	—	—	*	1	1
<b>Bituminous</b> .....	<b>2,912</b>	<b>188</b>	<b>240</b>	—	<b>3,340</b>
Railroad.....	2,647	—	94	—	2,741
River.....	265	—	—	—	265
Great Lakes.....	—	188	147	—	334
<b>Texas</b> .....	<b>23</b>	—	—	—	<b>23</b>
Great Lakes.....	23	—	—	—	23
<b>Virginia</b> .....	—	—	*	*	*
Railroad.....	—	—	*	—	*
Truck.....	—	—	—	*	*
<b>West Virginia Total</b> .....	<b>4,830</b>	<b>891</b>	<b>223</b>	—	<b>5,944</b>
Railroad.....	4,737	1	202	—	4,940
River.....	7	—	—	—	7
Great Lakes.....	87	890	21	—	997
<b>Northern</b> .....	<b>568</b>	—	—	—	<b>568</b>
Railroad.....	545	—	—	—	545
Great Lakes.....	23	—	—	—	23
<b>Southern</b> .....	<b>4,261</b>	<b>891</b>	<b>223</b>	—	<b>5,375</b>
Railroad.....	4,191	1	202	—	4,394
River.....	7	—	—	—	7
Great Lakes.....	63	890	21	—	974
<b>Wyoming</b> .....	<b>10,462</b>	—	—	—	<b>10,462</b>
Railroad.....	9,505	—	—	—	9,505
Great Lakes.....	957	—	—	—	957
<b>State Total</b> .....	<b>32,324</b>	<b>1,944</b>	<b>1,837</b>	<b>20</b>	<b>36,125</b>
Railroad.....	22,637	604	615	14	23,869
River.....	315	—	—	—	315
Great Lakes.....	7,747	1,341	1,123	—	10,212
Truck.....	1,624	—	99	6	1,729
<b>DESTINATION: MINNESOTA</b>					
<b>Illinois</b> .....	<b>72</b>	—	—	—	<b>72</b>
River.....	72	—	—	—	72
<b>Indiana</b> .....	<b>83</b>	—	—	—	<b>83</b>
Railroad.....	83	—	—	—	83
<b>Kentucky Total</b> .....	<b>19</b>	—	<b>139</b>	—	<b>157</b>
River.....	15	—	110	—	126
Great Lakes.....	3	—	28	—	32
<b>Eastern</b> .....	<b>3</b>	—	<b>139</b>	—	<b>142</b>
River.....	—	—	110	—	110
Great Lakes.....	3	—	28	—	32
<b>Western</b> .....	<b>15</b>	—	—	—	<b>15</b>
River.....	15	—	—	—	15
<b>Montana</b> .....	<b>9,429</b>	—	—	—	<b>9,429</b>
Railroad.....	9,429	—	—	—	9,429
<b>Ohio</b> .....	—	—	—	<b>5</b>	<b>5</b>
Truck.....	—	—	—	5	5
<b>Pennsylvania Total</b> .....	—	—	<b>5</b>	<b>*</b>	<b>6</b>
Railroad.....	—	—	5	*	5
Truck.....	—	—	—	*	*
<b>Anthracite</b> .....	—	—	<b>5</b>	<b>*</b>	<b>6</b>
Railroad.....	—	—	5	*	5
Truck.....	—	—	—	*	*

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: MINNESOTA (Continued)</b>					
<b>West Virginia Total</b> .....	<b>5</b>	—	<b>87</b>	<b>3</b>	<b>94</b>
River.....	5	—	87	3	94
<b>Southern</b> .....	<b>5</b>	—	<b>87</b>	<b>3</b>	<b>94</b>
River.....	5	—	87	3	94
<b>Wyoming</b> .....	<b>8,803</b>	—	<b>159</b>	<b>6</b>	<b>8,968</b>
Railroad.....	7,946	—	159	6	8,111
Great Lakes.....	470	—	—	—	470
Truck.....	387	—	—	—	387
<b>State Total</b> .....	<b>18,410</b>	—	<b>389</b>	<b>15</b>	<b>18,814</b>
Railroad.....	17,458	—	164	6	17,628
River.....	92	—	197	3	292
Great Lakes.....	473	—	28	—	501
Truck.....	387	—	*	5	393
<b>DESTINATION: MISSISSIPPI</b>					
<b>Alabama</b> .....	—	—	<b>35</b>	—	<b>35</b>
Truck.....	—	—	35	—	35
<b>Colorado</b> .....	<b>1,101</b>	—	—	—	<b>1,101</b>
Railroad.....	1,101	—	—	—	1,101
<b>Illinois</b> .....	<b>1,433</b>	—	<b>38</b>	—	<b>1,472</b>
River.....	388	—	38	—	427
Tidewater.....	1,045	—	—	—	1,045
<b>Kentucky Total</b> .....	<b>1,043</b>	—	<b>77</b>	—	<b>1,119</b>
Railroad.....	1,039	—	—	—	1,039
River.....	4	—	77	—	81
<b>Eastern</b> .....	<b>1,039</b>	—	<b>3</b>	—	<b>1,042</b>
Railroad.....	1,039	—	—	—	1,039
River.....	—	—	3	—	3
<b>Western</b> .....	<b>4</b>	—	<b>74</b>	—	<b>78</b>
River.....	4	—	74	—	78
<b>Mississippi</b> .....	<b>18</b>	—	—	—	<b>18</b>
Tramway, Conveyor, and Slurry Pipeline.....	18	—	—	—	18
<b>Montana</b> .....	<b>1,926</b>	—	—	—	<b>1,926</b>
Railroad.....	1,926	—	—	—	1,926
<b>Pennsylvania Total</b> .....	—	—	*	—	*
Railroad.....	—	—	*	—	*
<b>Anthracite</b> .....	—	—	*	—	*
Railroad.....	—	—	*	—	*
<b>West Virginia Total</b> .....	<b>99</b>	—	<b>41</b>	—	<b>140</b>
Railroad.....	99	—	41	—	140
<b>Southern</b> .....	<b>99</b>	—	<b>41</b>	—	<b>140</b>
Railroad.....	99	—	41	—	140
<b>State Total</b> .....	<b>5,621</b>	—	<b>191</b>	—	<b>5,812</b>
Railroad.....	4,165	—	41	—	4,206
River.....	393	—	115	—	507
Tidewater.....	1,045	—	—	—	1,045
Truck.....	—	—	35	—	35
Tramway, Conveyor, and Slurry Pipeline.....	18	—	—	—	18
<b>DESTINATION: MISSOURI</b>					
<b>Arkansas</b> .....	—	—	<b>16</b>	—	<b>16</b>
Truck.....	—	—	16	—	16
<b>Colorado</b> .....	<b>1,766</b>	—	—	—	<b>1,766</b>
Railroad.....	1,766	—	—	—	1,766
<b>Illinois</b> .....	<b>1,556</b>	—	<b>538</b>	<b>177</b>	<b>2,271</b>
Railroad.....	999	—	—	*	1,000
River.....	499	—	53	—	551
Truck.....	58	—	485	176	720
<b>Indiana</b> .....	<b>6</b>	—	—	—	<b>6</b>
Railroad.....	6	—	—	—	6
<b>Kansas</b> .....	<b>2</b>	—	—	—	<b>2</b>
Truck.....	2	—	—	—	2

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: MISSOURI (Continued)</b>					
<b>Kentucky Total</b> .....	<b>221</b>	—	<b>51</b>	—	<b>273</b>
Railroad .....	218	—	—	—	218
River .....	3	—	51	—	54
<b>Eastern</b> .....	<b>218</b>	—	<b>43</b>	—	<b>261</b>
Railroad .....	218	—	—	—	218
River .....	—	—	43	—	43
<b>Western</b> .....	<b>3</b>	—	<b>8</b>	—	<b>11</b>
River .....	3	—	8	—	11
<b>Missouri</b> .....	<b>312</b>	—	<b>78</b>	<b>1</b>	<b>391</b>
Truck .....	312	—	78	1	391
<b>Pennsylvania Total</b> .....	—	—	<b>6</b>	<b>3</b>	<b>9</b>
Railroad .....	—	—	6	—	6
Truck .....	—	—	—	3	3
<b>Anthracite</b> .....	—	—	<b>6</b>	<b>3</b>	<b>9</b>
Railroad .....	—	—	6	—	6
Truck .....	—	—	—	3	3
<b>Utah</b> .....	<b>77</b>	—	<b>22</b>	—	<b>99</b>
Railroad .....	77	—	22	—	99
<b>West Virginia Total</b> .....	<b>199</b>	—	<b>65</b>	<b>45</b>	<b>308</b>
Railroad .....	11	—	1	—	12
River .....	188	—	63	45	297
<b>Northern</b> .....	—	—	<b>3</b>	—	<b>3</b>
River .....	—	—	3	—	3
<b>Southern</b> .....	<b>199</b>	—	<b>61</b>	<b>45</b>	<b>305</b>
Railroad .....	11	—	1	—	12
River .....	188	—	60	45	293
<b>Wyoming</b> .....	<b>35,958</b>	—	—	—	<b>35,958</b>
Railroad .....	34,537	—	—	—	34,537
River .....	1,422	—	—	—	1,422
<b>State Total</b> .....	<b>40,097</b>	—	<b>776</b>	<b>226</b>	<b>41,098</b>
Railroad .....	37,613	—	29	*	37,643
River .....	2,112	—	168	45	2,324
Truck .....	372	—	579	181	1,131
<b>DESTINATION: MONTANA</b>					
<b>Montana</b> .....	<b>9,861</b>	—	<b>483</b>	<b>3</b>	<b>10,346</b>
Railroad .....	9	—	—	—	9
Truck .....	223	—	64	3	289
Tramway, Conveyor, and Slurry Pipeline .....	9,629	—	419	—	10,048
<b>Pennsylvania Total</b> .....	—	—	<b>3</b>	<b>*</b>	<b>3</b>
Railroad .....	—	—	3	—	3
Truck .....	—	—	—	*	*
<b>Anthracite</b> .....	—	—	<b>3</b>	<b>*</b>	<b>3</b>
Railroad .....	—	—	3	—	3
Truck .....	—	—	—	*	*
<b>Utah</b> .....	—	—	<b>4</b>	—	<b>4</b>
Truck .....	—	—	4	—	4
<b>Wyoming</b> .....	<b>656</b>	—	<b>67</b>	<b>*</b>	<b>724</b>
Railroad .....	656	—	67	—	723
Truck .....	—	—	—	*	*
<b>State Total</b> .....	<b>10,517</b>	—	<b>557</b>	<b>3</b>	<b>11,077</b>
Railroad .....	665	—	70	—	735
Truck .....	223	—	67	3	293
Tramway, Conveyor, and Slurry Pipeline .....	9,629	—	419	—	10,048
<b>DESTINATION: NEBRASKA</b>					
<b>Colorado</b> .....	<b>6</b>	—	<b>14</b>	—	<b>20</b>
Railroad .....	6	—	14	—	20
<b>Pennsylvania Total</b> .....	—	—	<b>8</b>	—	<b>8</b>
Railroad .....	—	—	8	—	8
Truck .....	—	—	—	*	*
<b>Anthracite</b> .....	—	—	<b>8</b>	—	<b>8</b>
Railroad .....	—	—	8	—	8
Truck .....	—	—	—	*	*

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: NEBRASKA (Continued)</b>					
<b>Utah</b> .....	<b>3</b>	-	-	-	<b>3</b>
Truck .....	3	-	-	-	3
<b>Wyoming</b> .....	<b>12,060</b>	-	<b>166</b>	-	<b>12,226</b>
Railroad .....	12,060	-	166	-	12,226
<b>State Total</b> .....	<b>12,069</b>	-	<b>188</b>	-	<b>12,257</b>
Railroad .....	12,066	-	188	-	12,254
Truck .....	3	-	*	-	3
<b>DESTINATION: NEVADA</b>					
<b>Arizona</b> .....	<b>4,494</b>	-	-	-	<b>4,494</b>
Tramway, Conveyor, and Slurry Pipeline .....	4,494	-	-	-	4,494
<b>Kentucky Total</b> .....	<b>11</b>	-	-	-	<b>11</b>
Railroad .....	11	-	-	-	11
<b>Eastern</b> .....	<b>11</b>	-	-	-	<b>11</b>
Railroad .....	11	-	-	-	11
<b>Utah</b> .....	<b>3,440</b>	-	<b>417</b>	*	<b>3,857</b>
Railroad .....	3,440	-	299	-	3,740
Truck .....	-	-	117	*	118
<b>West Virginia Total</b> .....	-	-	-	*	*
Truck .....	-	-	-	*	*
<b>Southern</b> .....	-	-	-	*	*
Truck .....	-	-	-	*	*
<b>State Total</b> .....	<b>7,946</b>	-	<b>417</b>	*	<b>8,363</b>
Railroad .....	3,452	-	299	-	3,751
Truck .....	-	-	117	*	118
Tramway, Conveyor, and Slurry Pipeline .....	4,494	-	-	-	4,494
<b>DESTINATION: NEW HAMPSHIRE</b>					
<b>Ohio</b> .....	<b>7</b>	-	-	-	<b>7</b>
Railroad .....	7	-	-	-	7
<b>Pennsylvania Total</b> .....	<b>556</b>	-	<b>1</b>	<b>3</b>	<b>560</b>
Railroad .....	542	-	-	*	542
Tidewater .....	13	-	-	-	13
Truck .....	-	-	1	3	4
<b>Anthracite</b> .....	-	-	<b>1</b>	<b>3</b>	<b>4</b>
Railroad .....	-	-	-	*	*
Truck .....	-	-	1	3	4
<b>Bituminous</b> .....	<b>556</b>	-	-	-	<b>556</b>
Railroad .....	542	-	-	-	542
Tidewater .....	13	-	-	-	13
<b>West Virginia Total</b> .....	<b>211</b>	-	-	-	<b>211</b>
Railroad .....	211	-	-	-	211
<b>Northern</b> .....	<b>177</b>	-	-	-	<b>177</b>
Railroad .....	177	-	-	-	177
<b>Southern</b> .....	<b>34</b>	-	-	-	<b>34</b>
Railroad .....	34	-	-	-	34
<b>State Total</b> .....	<b>773</b>	-	<b>1</b>	<b>3</b>	<b>777</b>
Railroad .....	760	-	-	*	760
Tidewater .....	13	-	-	-	13
Truck .....	-	-	1	3	4
<b>DESTINATION: NEW JERSEY</b>					
<b>Kentucky Total</b> .....	<b>10</b>	-	-	-	<b>10</b>
Tidewater .....	10	-	-	-	10
<b>Eastern</b> .....	<b>10</b>	-	-	-	<b>10</b>
Tidewater .....	10	-	-	-	10
<b>Ohio</b> .....	<b>16</b>	-	-	-	<b>16</b>
Railroad .....	16	-	-	-	16
<b>Pennsylvania Total</b> .....	<b>446</b>	-	<b>6</b>	<b>5</b>	<b>456</b>
Railroad .....	446	-	*	*	446
Truck .....	-	-	6	5	10

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: NEW JERSEY (Continued)</b>					
<b>Anthracite</b> .....	-	-	6	5	10
Railroad.....	-	-	*	*	*
Truck.....	-	-	6	5	10
<b>Bituminous</b> .....	446	-	-	-	446
Railroad.....	446	-	-	-	446
<b>Virginia</b> .....	731	-	2	-	734
Tidewater.....	731	-	-	-	731
Truck.....	-	-	2	-	2
<b>West Virginia Total</b> .....	1,591	-	-	-	1,591
Railroad.....	1,063	-	-	-	1,063
River.....	46	-	-	-	46
Tidewater.....	483	-	-	-	483
<b>Northern</b> .....	1,379	-	-	-	1,379
Railroad.....	948	-	-	-	948
Tidewater.....	430	-	-	-	430
<b>Southern</b> .....	212	-	-	-	212
Railroad.....	114	-	-	-	114
River.....	46	-	-	-	46
Tidewater.....	52	-	-	-	52
<b>State Total</b> .....	2,794	-	8	5	2,807
Railroad.....	1,525	-	*	*	1,525
River.....	46	-	-	-	46
Tidewater.....	1,224	-	-	-	1,224
Truck.....	-	-	8	5	13
<b>DESTINATION: NEW MEXICO</b>					
<b>Colorado</b> .....	26	-	72	1	99
Truck.....	26	-	72	1	99
<b>New Mexico</b> .....	16,417	-	-	5	<sup>1</sup> 16,423
Railroad.....	9,378	-	-	-	9,378
Truck.....	-	-	-	5	5
Tramway, Conveyor, and Slurry Pipeline.....	7,039	-	-	-	7,039
Unknown.....	-	-	-	-	10
<b>Pennsylvania Total</b> .....	-	-	*	-	*
Railroad.....	-	-	*	-	*
Truck.....	-	-	*	-	*
<b>Anthracite</b> .....	-	-	*	-	*
Railroad.....	-	-	*	-	*
Truck.....	-	-	*	-	*
<b>Utah</b> .....	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>State Total</b> .....	16,443	-	72	6	<sup>1</sup> 16,521
Railroad.....	9,378	-	*	-	9,378
Truck.....	26	-	72	6	104
Tramway, Conveyor, and Slurry Pipeline.....	7,039	-	-	-	7,039
Unknown.....	-	-	-	-	10
<b>DESTINATION: NEW YORK</b>					
<b>Illinois</b> .....	-	-	-	63	63
Truck.....	-	-	-	63	63
<b>Kentucky Total</b> .....	557	82	537	39	1,216
Railroad.....	557	82	537	-	1,176
River.....	-	-	-	39	39
<b>Eastern</b> .....	557	82	537	39	1,216
Railroad.....	557	82	537	-	1,176
River.....	-	-	-	39	39
<b>Ohio</b> .....	1	-	-	19	20
Railroad.....	-	-	-	16	16
Truck.....	1	-	-	3	4
<b>Pennsylvania Total</b> .....	4,833	-	489	53	5,376
Railroad.....	3,930	-	296	1	4,227
River.....	48	-	-	2	50
Great Lakes.....	465	-	-	-	465
Truck.....	390	-	194	51	634

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: NEW YORK (Continued)</b>					
<b>Anthracite</b> .....	<b>12</b>	—	<b>22</b>	<b>45</b>	<b>79</b>
Railroad.....	—	—	*	1	1
Truck.....	12	—	22	44	78
<b>Bituminous</b> .....	<b>4,821</b>	—	<b>467</b>	<b>8</b>	<b>5,296</b>
Railroad.....	3,930	—	296	—	4,226
River.....	48	—	—	2	50
Great Lakes.....	465	—	—	—	465
Truck.....	378	—	172	6	556
<b>Virginia</b> .....	—	<b>93</b>	—	—	<b>93</b>
Railroad.....	—	93	—	—	93
<b>West Virginia Total</b> .....	<b>2,735</b>	<b>887</b>	<b>154</b>	<b>5</b>	<b>3,782</b>
Railroad.....	2,658	887	62	—	3,608
River.....	—	—	92	—	92
Tidewater.....	77	—	—	—	77
Truck.....	—	—	—	5	5
<b>Northern</b> .....	<b>2,246</b>	<b>317</b>	—	<b>1</b>	<b>2,565</b>
Railroad.....	2,246	317	—	—	2,563
Truck.....	—	—	—	1	1
<b>Southern</b> .....	<b>489</b>	<b>570</b>	<b>154</b>	<b>4</b>	<b>1,217</b>
Railroad.....	412	570	62	—	1,044
River.....	—	—	92	—	92
Tidewater.....	77	—	—	—	77
Truck.....	—	—	—	4	4
<b>State Total</b> .....	<b>8,126</b>	<b>1,063</b>	<b>1,181</b>	<b>180</b>	<b>10,550</b>
Railroad.....	7,145	1,063	896	17	9,120
River.....	48	—	92	41	181
Great Lakes.....	465	—	—	—	465
Tidewater.....	77	—	—	—	77
Truck.....	391	—	194	122	706
<b>DESTINATION: NORTH CAROLINA</b>					
<b>Kentucky Total</b> .....	<b>12,675</b>	—	<b>710</b>	<b>72</b>	<b>13,457</b>
Railroad.....	12,360	—	566	72	12,998
Truck.....	315	—	144	*	459
<b>Eastern</b> .....	<b>12,675</b>	—	<b>710</b>	<b>72</b>	<b>13,457</b>
Railroad.....	12,360	—	566	72	12,998
Truck.....	315	—	144	*	459
<b>Pennsylvania Total</b> .....	—	—	*	*	*
Railroad.....	—	—	*	*	*
Truck.....	—	—	*	*	*
<b>Anthracite</b> .....	—	—	*	*	*
Railroad.....	—	—	*	—	*
Truck.....	—	—	*	*	*
<b>Tennessee</b> .....	—	—	<b>354</b>	*	<b>354</b>
Railroad.....	—	—	352	—	352
Truck.....	—	—	1	*	1
<b>Virginia</b> .....	<b>281</b>	—	<b>396</b>	<b>23</b>	<b>700</b>
Railroad.....	268	—	361	23	652
Truck.....	13	—	35	*	48
<b>West Virginia Total</b> .....	<b>8,442</b>	—	<b>1,770</b>	<b>54</b>	<b>10,266</b>
Railroad.....	8,442	—	1,770	54	10,266
<b>Southern</b> .....	<b>8,442</b>	—	<b>1,770</b>	<b>54</b>	<b>10,266</b>
Railroad.....	8,442	—	1,770	54	10,266
<b>Wyoming</b> .....	<b>28</b>	—	—	—	<b>28</b>
Railroad.....	28	—	—	—	28
<b>State Total</b> .....	<b>21,426</b>	—	<b>3,229</b>	<b>150</b>	<b>24,805</b>
Railroad.....	21,098	—	3,049	149	24,297
Truck.....	328	—	180	1	508
<b>DESTINATION: NORTH DAKOTA</b>					
<b>Kentucky Total</b> .....	—	—	—	*	*
Truck.....	—	—	—	*	*

See footnotes at end of table.



**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: NORTH DAKOTA (Continued)</b>					
<b>Eastern</b> .....	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>Montana</b> .....	<b>810</b>	-	-	<b>67</b>	<b>877</b>
Railroad.....	810	-	-	67	877
<b>North Dakota</b> .....	<b>24,631</b>	-	<b>6,257</b>	<b>50</b>	<b>30,938</b>
Railroad.....	502	-	-	-	502
Truck.....	4,492	-	-	50	4,542
Tramway, Conveyor, and Slurry Pipeline.....	19,636	-	6,257	-	25,893
<b>Pennsylvania Total</b> .....	*	-	-	<b>11</b>	<b>11</b>
Truck.....	*	-	-	11	11
<b>Anthracite</b> .....	-	-	-	<b>1</b>	<b>1</b>
Truck.....	-	-	-	1	1
<b>Bituminous</b> .....	*	-	-	<b>10</b>	<b>11</b>
Truck.....	*	-	-	10	11
<b>Utah</b> .....	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>State Total</b> .....	<b>25,441</b>	-	<b>6,257</b>	<b>128</b>	<b>31,826</b>
Railroad.....	1,312	-	-	67	1,379
Truck.....	4,493	-	-	61	4,554
Tramway, Conveyor, and Slurry Pipeline.....	19,636	-	6,257	-	25,893
<b>DESTINATION: OHIO</b>					
<b>Indiana</b> .....	<b>72</b>	-	-	-	<b>72</b>
Railroad.....	46	-	-	-	46
River.....	26	-	-	-	26
<b>Kentucky Total</b> .....	<b>7,993</b>	<b>614</b>	<b>453</b>	<b>81</b>	<b>9,140</b>
Railroad.....	1,875	614	106	-	2,595
River.....	5,986	-	157	32	6,174
Great Lakes.....	-	-	29	-	29
Truck.....	133	-	161	49	342
<b>Eastern</b> .....	<b>7,935</b>	<b>614</b>	<b>453</b>	<b>81</b>	<b>9,083</b>
Railroad.....	1,875	614	106	-	2,595
River.....	5,928	-	157	32	6,117
Great Lakes.....	-	-	29	-	29
Truck.....	133	-	161	49	342
<b>Western</b> .....	<b>58</b>	-	-	-	<b>58</b>
River.....	58	-	-	-	58
<b>Montana</b> .....	-	-	<b>168</b>	-	<b>168</b>
Great Lakes.....	-	-	168	-	168
<b>Ohio</b> .....	<b>19,178</b>	-	<b>1,242</b>	<b>101</b>	<b>20,521</b>
Railroad.....	1,335	-	-	-	1,335
River.....	4,649	-	-	-	4,649
Great Lakes.....	*	-	-	-	*
Truck.....	6,707	-	1,242	101	8,050
Tramway, Conveyor, and Slurry Pipeline.....	6,487	-	-	-	6,487
<b>Pennsylvania Total</b> .....	<b>4,486</b>	<b>273</b>	<b>290</b>	<b>4</b>	<b>5,053</b>
Railroad.....	1,555	-	18	*	1,573
River.....	2,879	273	107	2	3,261
Great Lakes.....	15	-	87	-	102
Truck.....	38	-	78	2	118
<b>Anthracite</b> .....	-	-	<b>9</b>	<b>2</b>	<b>11</b>
Railroad.....	-	-	*	*	*
Truck.....	-	-	9	2	11
<b>Bituminous</b> .....	<b>4,486</b>	<b>273</b>	<b>281</b>	<b>2</b>	<b>5,042</b>
Railroad.....	1,555	-	18	-	1,572
River.....	2,879	273	107	2	3,261
Great Lakes.....	15	-	87	-	102
Truck.....	38	-	69	-	107
<b>Tennessee</b> .....	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>Texas</b> .....	<b>7</b>	-	-	-	<b>7</b>
Great Lakes.....	7	-	-	-	7
<b>Virginia</b> .....	<b>427</b>	<b>564</b>	*	*	<b>991</b>
Railroad.....	-	564	-	-	564
River.....	427	-	*	*	427

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: OHIO (Continued)</b>					
<b>West Virginia Total</b> .....	<b>24,185</b>	<b>1,249</b>	<b>1,036</b>	<b>31</b>	<b>26,501</b>
Railroad.....	4,124	868	373	-	5,365
River.....	19,840	314	172	8	20,334
Great Lakes.....	7	68	101	-	175
Truck.....	215	-	389	23	627
<b>Northern</b> .....	<b>5,723</b>	-	<b>41</b>	-	<b>5,764</b>
Railroad.....	1,883	-	18	-	1,901
River.....	3,828	-	11	-	3,839
Great Lakes.....	7	-	12	-	19
Truck.....	6	-	-	-	6
<b>Southern</b> .....	<b>18,462</b>	<b>1,249</b>	<b>995</b>	<b>31</b>	<b>20,737</b>
Railroad.....	2,241	868	356	-	3,465
River.....	16,012	314	161	8	16,495
Great Lakes.....	-	68	89	-	157
Truck.....	209	-	389	23	621
<b>Wyoming</b> .....	<b>3,364</b>	-	<b>475</b>	-	<b>3,840</b>
Railroad.....	3,364	-	-	-	3,364
Great Lakes.....	-	-	475	-	475
<b>State Total</b> .....	<b>59,713</b>	<b>2,700</b>	<b>3,664</b>	<b>217</b>	<b>66,294</b>
Railroad.....	12,298	2,045	498	*	14,841
River.....	33,806	587	436	42	34,872
Great Lakes.....	29	68	860	-	957
Truck.....	7,093	-	1,869	175	9,137
Tramway, Conveyor, and Slurry Pipeline.....	6,487	-	-	-	6,487
<b>DESTINATION: OKLAHOMA</b>					
<b>Illinois</b> .....	-	-	<b>1</b>	-	<b>1</b>
River.....	-	-	1	-	1
<b>Indiana</b> .....	-	-	<b>1</b>	-	<b>1</b>
River.....	-	-	1	-	1
<b>Kentucky Total</b> .....	-	-	<b>46</b>	-	<b>46</b>
River.....	-	-	46	-	46
<b>Eastern</b> .....	-	-	<b>46</b>	-	<b>46</b>
River.....	-	-	46	-	46
<b>New Mexico</b> .....	-	-	<b>64</b>	-	<b>64</b>
Railroad.....	-	-	64	-	64
<b>Oklahoma</b> .....	<b>1,204</b>	-	<b>247</b>	<b>2</b>	<b>1,453</b>
Truck.....	1,204	-	247	2	1,453
<b>Pennsylvania Total</b> .....	-	-	<b>*</b>	<b>*</b>	<b>*</b>
Railroad.....	-	-	*	*	*
<b>Anthracite</b> .....	-	-	<b>*</b>	<b>*</b>	<b>*</b>
Railroad.....	-	-	*	*	*
<b>West Virginia Total</b> .....	-	-	<b>14</b>	-	<b>14</b>
Railroad.....	-	-	7	-	7
River.....	-	-	7	-	7
<b>Northern</b> .....	-	-	<b>*</b>	-	<b>*</b>
River.....	-	-	*	-	*
<b>Southern</b> .....	-	-	<b>13</b>	-	<b>13</b>
Railroad.....	-	-	7	-	7
River.....	-	-	7	-	7
<b>Wyoming</b> .....	<b>21,058</b>	-	<b>5</b>	-	<b>21,063</b>
Railroad.....	21,058	-	5	-	21,063
<b>State Total</b> .....	<b>22,261</b>	-	<b>379</b>	<b>2</b>	<b>22,642</b>
Railroad.....	21,058	-	76	*	21,134
River.....	-	-	55	-	55
Truck.....	1,204	-	247	2	1,453
<b>DESTINATION: OREGON</b>					
<b>Kentucky Total</b> .....	-	-	<b>7</b>	-	<b>7</b>
Railroad.....	-	-	7	-	7
<b>Eastern</b> .....	-	-	<b>7</b>	-	<b>7</b>
Railroad.....	-	-	7	-	7

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: OREGON (Continued)</b>					
Montana.....	1,507	-	-	-	1,507
Railroad.....	1,507	-	-	-	1,507
<b>Pennsylvania Total</b> .....	-	-	17	-	17
Railroad.....	-	-	17	-	17
<b>Anthracite</b> .....	-	-	17	-	17
Railroad.....	-	-	17	-	17
<b>Utah</b> .....	287	-	144	*	431
Railroad.....	287	-	144	-	431
Truck.....	-	-	-	*	*
<b>West Virginia Total</b> .....	-	-	19	-	19
Railroad.....	-	-	19	-	19
<b>Southern</b> .....	-	-	19	-	19
Railroad.....	-	-	19	-	19
<b>Wyoming</b> .....	2,012	-	28	-	2,040
Railroad.....	2,012	-	28	-	2,040
<b>State Total</b> .....	3,805	-	216	*	4,021
Railroad.....	3,805	-	216	-	4,021
Truck.....	-	-	-	*	*
<b>DESTINATION: PENNSYLVANIA</b>					
Alabama.....	-	157	-	-	157
Railroad.....	-	157	-	-	157
<b>Illinois</b> .....	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>Kentucky Total</b> .....	113	102	452	47	714
Railroad.....	66	61	208	1	336
River.....	18	40	184	46	288
Truck.....	28	1	61	*	89
<b>Eastern</b> .....	113	102	452	47	714
Railroad.....	66	61	208	1	336
River.....	18	40	184	46	288
Truck.....	28	1	61	*	89
<b>Maryland</b> .....	2	-	-	-	2
Truck.....	2	-	-	-	2
<b>Ohio</b> .....	219	-	139	*	358
Railroad.....	*	-	-	-	*
River.....	167	-	-	-	167
Truck.....	52	-	139	*	191
<b>Pennsylvania Total</b> .....	31,755	1,395	3,128	633	1 36,912
Railroad.....	10,592	-	398	*	10,989
River.....	3,620	1,395	70	14	5,100
Truck.....	13,301	-	2,599	619	16,518
Tramway, Conveyor, and Slurry Pipeline.....	4,243	-	62	-	4,305
Unknown.....	-	-	-	-	1 1
<b>Anthracite</b> .....	2,969	-	320	488	3,776
Railroad.....	172	-	37	*	209
Truck.....	2,797	-	283	487	3,567
<b>Bituminous</b> .....	28,787	1,395	2,809	145	1 33,136
Railroad.....	10,420	-	361	-	10,780
River.....	3,620	1,395	70	14	5,100
Truck.....	10,504	-	2,316	131	12,951
Tramway, Conveyor, and Slurry Pipeline.....	4,243	-	62	-	4,305
Unknown.....	-	-	-	-	1 1
<b>Tennessee</b> .....	-	-	11	-	11
Truck.....	-	-	11	-	11
<b>Virginia</b> .....	20	322	8	-	350
Railroad.....	20	322	8	-	350
<b>West Virginia Total</b> .....	8,043	4,823	1,764	10	14,640
Railroad.....	2,049	1,588	782	-	4,418
River.....	5,154	3,235	907	-	9,296
Great Lakes.....	50	-	-	-	50
Tidewater.....	355	-	-	-	355
Truck.....	435	-	76	10	521
<b>Northern</b> .....	6,425	833	251	2	7,510
Railroad.....	1,049	812	180	-	2,041
River.....	5,153	21	-	-	5,174

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: PENNSYLVANIA (Continued)</b>					
<b>Northern</b>					
Great Lakes .....	50	-	-	-	50
Truck .....	172	-	71	2	245
<b>Southern</b> .....	<b>1,618</b>	<b>3,990</b>	<b>1,513</b>	<b>8</b>	<b>7,130</b>
Railroad .....	999	776	602	-	2,377
River .....	1	3,214	907	-	4,122
Tidewater .....	355	-	-	-	355
Truck .....	262	-	5	8	276
<b>State Total</b> .....	<b>40,152</b>	<b>6,798</b>	<b>5,502</b>	<b>690</b>	<sup>1</sup> <b>53,143</b>
Railroad .....	12,727	2,128	1,395	1	16,251
River .....	8,960	4,670	1,161	60	14,851
Great Lakes .....	50	-	-	-	50
Tidewater .....	355	-	-	-	355
Truck .....	13,817	1	2,885	629	17,331
Tramway, Conveyor, and Slurry Pipeline .....	4,243	-	62	-	4,305
Unknown .....	-	-	-	-	1 1
<b>DESTINATION: RHODE ISLAND</b>					
<b>Pennsylvania Total</b> .....	-	-	-	<b>2</b>	<b>2</b>
Truck .....	-	-	-	2	2
<b>Anthracite</b> .....	-	-	-	<b>2</b>	<b>2</b>
Truck .....	-	-	-	2	2
<b>State Total</b> .....	-	-	-	<b>2</b>	<b>2</b>
Truck .....	-	-	-	2	2
<b>DESTINATION: SOUTH CAROLINA</b>					
<b>Kentucky Total</b> .....	<b>10,342</b>	-	<b>1,378</b>	<b>5</b>	<b>11,724</b>
Railroad .....	10,342	-	1,332	5	11,678
Truck .....	-	-	46	*	46
<b>Eastern</b> .....	<b>10,342</b>	-	<b>1,378</b>	<b>5</b>	<b>11,724</b>
Railroad .....	10,342	-	1,332	5	11,678
Truck .....	-	-	46	*	46
<b>Pennsylvania Total</b> .....	<b>26</b>	-	<b>49</b>	-	<b>74</b>
Railroad .....	26	-	42	-	67
Truck .....	-	-	7	-	7
<b>Anthracite</b> .....	-	-	<b>49</b>	-	<b>49</b>
Railroad .....	-	-	42	-	42
Truck .....	-	-	7	-	7
<b>Bituminous</b> .....	<b>26</b>	-	-	-	<b>26</b>
Railroad .....	26	-	-	-	26
<b>Tennessee</b> .....	<b>289</b>	-	-	-	<b>289</b>
Railroad .....	289	-	-	-	289
<b>Virginia</b> .....	<b>759</b>	-	<b>379</b>	-	<b>1,138</b>
Railroad .....	759	-	379	-	1,137
Truck .....	-	-	*	-	*
<b>West Virginia Total</b> .....	<b>707</b>	-	<b>6</b>	<b>232</b>	<b>946</b>
Railroad .....	707	-	6	232	946
<b>Northern</b> .....	<b>106</b>	-	-	-	<b>106</b>
Railroad .....	106	-	-	-	106
<b>Southern</b> .....	<b>601</b>	-	<b>6</b>	<b>232</b>	<b>840</b>
Railroad .....	601	-	6	232	840
<b>Wyoming</b> .....	<b>1,122</b>	-	-	-	<b>1,122</b>
Railroad .....	1,122	-	-	-	1,122
<b>State Total</b> .....	<b>13,245</b>	-	<b>1,811</b>	<b>237</b>	<b>15,293</b>
Railroad .....	13,245	-	1,758	237	15,240
Truck .....	-	-	53	*	53
<b>DESTINATION: SOUTH DAKOTA</b>					
<b>Montana</b> .....	<b>1,496</b>	-	-	-	<b>1,496</b>
Railroad .....	1,496	-	-	-	1,496

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: SOUTH DAKOTA (Continued)</b>					
<b>Wyoming</b> .....	<b>679</b>	-	<b>267</b>	<b>1</b>	<b>947</b>
Railroad.....	558	-	-	-	558
Truck.....	120	-	267	1	388
<b>State Total</b> .....	<b>2,175</b>	-	<b>267</b>	<b>1</b>	<b>2,443</b>
Railroad.....	2,054	-	-	-	2,054
Truck.....	120	-	267	1	388
<b>DESTINATION: TENNESSEE</b>					
<b>Alabama</b> .....	-	-	<b>47</b>	-	<b>47</b>
Truck.....	-	-	47	-	47
<b>Colorado</b> .....	<b>2,920</b>	-	-	-	<b>2,920</b>
Railroad.....	2,803	-	-	-	2,803
River.....	117	-	-	-	117
<b>Illinois</b> .....	<b>3,109</b>	-	-	-	<b>3,109</b>
River.....	3,109	-	-	-	3,109
<b>Kentucky Total</b> .....	<b>15,121</b>	-	<b>1,572</b>	<b>79</b>	<b>16,772</b>
Railroad.....	7,465	-	917	11	8,392
River.....	7,414	-	262	67	7,743
Truck.....	242	-	393	1	636
<b>Eastern</b> .....	<b>6,016</b>	-	<b>1,525</b>	<b>46</b>	<b>7,587</b>
Railroad.....	5,618	-	917	11	6,546
River.....	157	-	219	34	410
Truck.....	241	-	390	1	632
<b>Western</b> .....	<b>9,105</b>	-	<b>46</b>	<b>33</b>	<b>9,185</b>
Railroad.....	1,847	-	-	-	1,847
River.....	7,257	-	43	33	7,333
Truck.....	2	-	3	-	5
<b>Pennsylvania Total</b> .....	<b>932</b>	-	<b>2</b>	-	<b>933</b>
Railroad.....	27	-	*	-	27
River.....	905	-	-	-	905
Truck.....	-	-	2	-	2
<b>Anthracite</b> .....	-	-	<b>2</b>	-	<b>2</b>
Railroad.....	-	-	*	-	*
Truck.....	-	-	2	-	2
<b>Bituminous</b> .....	<b>932</b>	-	-	-	<b>932</b>
Railroad.....	27	-	-	-	27
River.....	905	-	-	-	905
<b>Tennessee</b> .....	<b>1,245</b>	-	<b>216</b>	<b>4</b>	<b>1,465</b>
Railroad.....	542	-	142	-	684
Truck.....	703	-	74	4	781
<b>Utah</b> .....	<b>1,142</b>	-	-	-	<b>1,142</b>
Railroad.....	1,142	-	-	-	1,142
<b>Virginia</b> .....	<b>1,525</b>	-	<b>994</b>	-	<b>2,519</b>
Railroad.....	1,525	-	939	-	2,464
Truck.....	-	-	55	-	55
<b>West Virginia Total</b> .....	<b>87</b>	-	<b>71</b>	<b>15</b>	<b>173</b>
Railroad.....	87	-	2	-	90
River.....	-	-	48	-	48
Truck.....	-	-	21	15	36
<b>Southern</b> .....	<b>87</b>	-	<b>71</b>	<b>15</b>	<b>173</b>
Railroad.....	87	-	2	-	90
River.....	-	-	48	-	48
Truck.....	-	-	21	15	36
<b>Wyoming</b> .....	<b>2,743</b>	-	-	-	<b>2,743</b>
Railroad.....	2,743	-	-	-	2,743
<b>State Total</b> .....	<b>28,823</b>	-	<b>2,901</b>	<b>98</b>	<b>31,822</b>
Railroad.....	16,333	-	2,000	11	18,344
River.....	11,545	-	310	67	11,922
Truck.....	945	-	592	20	1,557
<b>DESTINATION: TEXAS</b>					
<b>Arkansas</b> .....	-	-	<b>3</b>	-	<b>3</b>
Truck.....	-	-	3	-	3

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: TEXAS (Continued)</b>					
<b>Colorado</b> .....	<b>2,610</b>	—	<b>340</b>	—	<b>2,951</b>
Railroad .....	2,610	—	340	—	2,951
<b>Kentucky Total</b> .....	<b>151</b>	—	<b>2</b>	—	<b>153</b>
Railroad .....	151	—	—	—	151
River .....	—	—	2	—	2
<b>Eastern</b> .....	<b>151</b>	—	<b>2</b>	—	<b>153</b>
Railroad .....	151	—	—	—	151
River .....	—	—	2	—	2
<b>New Mexico</b> .....	—	—	<b>395</b>	—	<b>395</b>
Railroad .....	—	—	395	—	395
<b>Oklahoma</b> .....	—	—	<b>56</b>	—	<b>56</b>
Truck .....	—	—	56	—	56
<b>Pennsylvania Total</b> .....	<b>*</b>	—	<b>5</b>	<b>*</b>	<b>6</b>
Railroad .....	—	—	3	—	3
River .....	—	—	2	—	2
Truck .....	*	—	*	*	1
<b>Anthracite</b> .....	<b>*</b>	—	<b>5</b>	<b>*</b>	<b>6</b>
Railroad .....	—	—	3	—	3
River .....	—	—	2	—	2
Truck .....	*	—	*	*	1
<b>Bituminous</b> .....	—	—	—	<b>*</b>	<b>*</b>
Truck .....	—	—	—	*	*
<b>Texas</b> .....	<b>50,027</b>	—	<b>2,828</b>	—	<b>52,855</b>
Railroad .....	23,668	—	149	—	23,817
Truck .....	13,545	—	260	—	13,805
Tramway, Conveyor, and Slurry Pipeline .....	12,815	—	2,419	—	15,233
<b>Utah</b> .....	<b>105</b>	—	—	—	<b>105</b>
Railroad .....	105	—	—	—	105
<b>Virginia</b> .....	—	—	<b>4</b>	<b>8</b>	<b>12</b>
Railroad .....	—	—	4	8	12
<b>West Virginia Total</b> .....	<b>167</b>	—	—	—	<b>167</b>
Railroad .....	103	—	—	—	103
River .....	63	—	—	—	63
<b>Northern</b> .....	<b>19</b>	—	—	—	<b>19</b>
Railroad .....	19	—	—	—	19
<b>Southern</b> .....	<b>148</b>	—	—	—	<b>148</b>
Railroad .....	84	—	—	—	84
River .....	63	—	—	—	63
<b>Wyoming</b> .....	<b>47,438</b>	—	<b>176</b>	—	<b>47,614</b>
Railroad .....	47,438	—	176	—	47,614
<b>State Total</b> .....	<b>100,499</b>	—	<b>3,809</b>	<b>8</b>	<b>104,316</b>
Railroad .....	74,076	—	1,068	8	75,152
River .....	63	—	3	—	67
Truck .....	13,545	—	319	*	13,865
Tramway, Conveyor, and Slurry Pipeline .....	12,815	—	2,419	—	15,233
<b>DESTINATION: UTAH</b>					
<b>Colorado</b> .....	<b>1,360</b>	<b>250</b>	—	—	<b>1,610</b>
Railroad .....	1,360	250	—	—	1,610
<b>Pennsylvania Total</b> .....	—	<b>77</b>	<b>5</b>	—	<b>82</b>
Railroad .....	—	77	—	—	77
Truck .....	—	—	5	—	5
<b>Bituminous</b> .....	—	<b>77</b>	<b>5</b>	—	<b>82</b>
Railroad .....	—	77	—	—	77
Truck .....	—	—	5	—	5
<b>Utah</b> .....	<b>10,646</b>	—	<b>219</b>	<b>114</b>	<b>10,979</b>
Railroad .....	3,112	—	—	—	3,112
Truck .....	4,141	—	219	114	4,474
Tramway, Conveyor, and Slurry Pipeline .....	3,393	—	—	—	3,393
<b>Virginia</b> .....	—	<b>58</b>	—	—	<b>58</b>
Railroad .....	—	58	—	—	58
<b>West Virginia Total</b> .....	—	<b>141</b>	<b>32</b>	—	<b>173</b>
Railroad .....	—	141	32	—	173
<b>Southern</b> .....	—	<b>141</b>	<b>32</b>	—	<b>173</b>
Railroad .....	—	141	32	—	173

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: UTAH (Continued)</b>					
Wyoming.....	15	-	-	*	15
Railroad.....	15	-	-	-	15
Truck.....	-	-	-	*	*
<b>State Total.....</b>	<b>12,020</b>	<b>527</b>	<b>257</b>	<b>114</b>	<b>12,918</b>
Railroad.....	4,486	527	32	-	5,045
Truck.....	4,141	-	224	114	4,479
Tramway, Conveyor, and Slurry Pipeline.....	3,393	-	-	-	3,393
<b>DESTINATION: VERMONT</b>					
Pennsylvania Total.....	-	-	-	2	2
Truck.....	-	-	-	2	2
<b>Anthracite.....</b>	-	-	-	2	2
Truck.....	-	-	-	2	2
<b>West Virginia Total.....</b>	-	-	*	-	*
Truck.....	-	-	*	-	*
<b>Southern.....</b>	-	-	*	-	*
Truck.....	-	-	*	-	*
<b>State Total.....</b>	-	-	*	2	2
Truck.....	-	-	*	2	2
<b>DESTINATION: VIRGINIA</b>					
<b>Kentucky Total.....</b>	<b>4,836</b>	-	<b>755</b>	<b>77</b>	<b>5,668</b>
Railroad.....	4,306	-	619	45	4,971
River.....	444	-	-	-	444
Tidewater.....	10	-	-	-	10
Truck.....	76	-	136	31	243
<b>Eastern.....</b>	<b>4,836</b>	-	<b>755</b>	<b>77</b>	<b>5,668</b>
Railroad.....	4,306	-	619	45	4,971
River.....	444	-	-	-	444
Tidewater.....	10	-	-	-	10
Truck.....	76	-	136	31	243
<b>Western.....</b>	-	-	-	*	*
Truck.....	-	-	-	*	*
<b>Pennsylvania Total.....</b>	<b>619</b>	-	<b>16</b>	<b>1</b>	<b>636</b>
Railroad.....	256	-	*	-	256
Truck.....	362	-	16	1	379
<b>Anthracite.....</b>	-	-	<b>2</b>	<b>1</b>	<b>3</b>
Railroad.....	-	-	*	-	*
Truck.....	-	-	1	1	3
<b>Bituminous.....</b>	<b>619</b>	-	<b>14</b>	<b>*</b>	<b>633</b>
Railroad.....	256	-	-	-	256
Truck.....	362	-	14	*	377
<b>Virginia.....</b>	<b>6,822</b>	<b>963</b>	<b>400</b>	<b>23</b>	<sup>1</sup> <b>8,355</b>
Railroad.....	5,336	-	371	11	5,718
Truck.....	1,485	*	15	12	1,513
Tramway, Conveyor, and Slurry Pipeline.....	-	963	14	-	977
Unknown.....	-	-	-	-	<sup>1</sup> 146
<b>West Virginia Total.....</b>	<b>3,466</b>	<b>142</b>	<b>1,039</b>	<b>23</b>	<b>4,670</b>
Railroad.....	3,039	84	1,002	16	4,141
River.....	-	-	5	-	5
Truck.....	427	-	32	7	466
Tramway, Conveyor, and Slurry Pipeline.....	-	59	-	-	59
<b>Northern.....</b>	<b>421</b>	-	-	-	<b>421</b>
Truck.....	421	-	-	-	421
<b>Southern.....</b>	<b>3,044</b>	<b>142</b>	<b>1,039</b>	<b>23</b>	<b>4,249</b>
Railroad.....	3,039	84	1,002	16	4,141
River.....	-	-	5	-	5
Truck.....	6	-	32	7	44
Tramway, Conveyor, and Slurry Pipeline.....	-	59	-	-	59
<b>State Total.....</b>	<b>15,742</b>	<b>1,106</b>	<b>2,210</b>	<b>124</b>	<sup>1</sup> <b>19,328</b>
Railroad.....	12,938	84	1,992	73	15,086
River.....	444	-	5	-	449
Tidewater.....	10	-	-	-	10

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: VIRGINIA (Continued)</b>					
<b>State Total</b>					
Truck .....	2,351	*	199	51	2,601
Tramway, Conveyor, and Slurry Pipeline .....	—	1,022	14	—	1,036
Unknown .....	—	—	—	—	1 146
<b>DESTINATION: WASHINGTON</b>					
<b>Utah</b> .....	—	—	<b>51</b>	<b>16</b>	<b>67</b>
Railroad .....	—	—	51	15	66
Truck .....	—	—	—	1	1
<b>Washington</b> .....	<b>4,074</b>	—	—	—	<b>4,074</b>
Tramway, Conveyor, and Slurry Pipeline .....	4,074	—	—	—	4,074
<b>Wyoming</b> .....	<b>82</b>	—	—	*	<b>83</b>
Railroad .....	82	—	—	*	83
<b>State Total</b> .....	<b>4,157</b>	—	<b>51</b>	<b>17</b>	<b>4,224</b>
Railroad .....	82	—	51	16	149
Truck .....	—	—	—	1	1
Tramway, Conveyor, and Slurry Pipeline .....	4,074	—	—	—	4,074
<b>DESTINATION: WEST VIRGINIA</b>					
<b>Kentucky Total</b> .....	<b>349</b>	—	<b>75</b>	—	<b>425</b>
Railroad .....	12	—	37	—	49
River .....	254	—	12	—	266
Truck .....	84	—	27	—	110
<b>Eastern</b> .....	<b>349</b>	—	<b>75</b>	—	<b>425</b>
Railroad .....	12	—	37	—	49
River .....	254	—	12	—	266
Truck .....	84	—	27	—	110
<b>Maryland</b> .....	<b>3,055</b>	—	<b>1</b>	*	<b>3,056</b>
Truck .....	3,055	—	1	*	3,056
<b>Ohio</b> .....	<b>1,609</b>	—	—	—	<b>1,609</b>
River .....	1,609	—	—	—	1,609
<b>Pennsylvania Total</b> .....	<b>5,848</b>	<b>24</b>	<b>510</b>	<b>1</b>	<b>6,382</b>
Railroad .....	28	24	*	—	53
River .....	3,991	—	417	—	4,408
Truck .....	650	—	89	1	739
Tramway, Conveyor, and Slurry Pipeline .....	1,178	—	4	—	1,182
<b>Anthracite</b> .....	<b>3</b>	—	<b>45</b>	*	<b>48</b>
Railroad .....	—	—	*	—	*
Truck .....	3	—	45	*	48
<b>Bituminous</b> .....	<b>5,845</b>	<b>24</b>	<b>465</b>	*	<b>6,334</b>
Railroad .....	28	24	—	—	52
River .....	3,991	—	417	—	4,408
Truck .....	647	—	44	*	692
Tramway, Conveyor, and Slurry Pipeline .....	1,178	—	4	—	1,182
<b>Tennessee</b> .....	—	—	<b>33</b>	—	<b>33</b>
Railroad .....	—	—	33	—	33
<b>Virginia</b> .....	<b>17</b>	<b>296</b>	—	*	<b>314</b>
Railroad .....	16	289	—	*	305
River .....	1	7	—	—	8
Truck .....	—	—	—	*	*
<b>West Virginia Total</b> .....	<b>21,126</b>	<b>1,131</b>	<b>1,378</b>	<b>167</b>	<sup>1</sup> <b>23,813</b>
Railroad .....	8,098	90	13	64	8,265
River .....	7,333	773	391	44	8,541
Tidewater .....	—	259	—	—	259
Truck .....	3,330	9	611	60	4,009
Tramway, Conveyor, and Slurry Pipeline .....	2,365	—	364	—	2,729
Unknown .....	—	—	—	—	1 11
<b>Northern</b> .....	<b>9,759</b>	<b>69</b>	<b>164</b>	<b>4</b>	<b>9,996</b>
Railroad .....	182	69	—	—	252
River .....	4,509	—	2	—	4,510
Truck .....	2,703	—	153	4	2,860
Tramway, Conveyor, and Slurry Pipeline .....	2,365	—	9	—	2,374

See footnotes at end of table.



**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: WEST VIRGINIA (Continued)</b>					
<b>Southern</b> .....	<b>11,367</b>	<b>1,062</b>	<b>1,214</b>	<b>163</b>	<sup>1</sup> <b>13,817</b>
Railroad .....	7,916	21	13	64	8,013
River .....	2,824	773	389	44	4,030
Tidewater .....	-	259	-	-	259
Truck .....	627	9	458	56	1,149
Tramway, Conveyor, and Slurry Pipeline .....	-	-	354	-	354
Unknown .....	-	-	-	-	<sup>1</sup> 11
<b>State Total</b> .....	<b>32,004</b>	<b>1,451</b>	<b>1,997</b>	<b>168</b>	<sup>1</sup> <b>35,632</b>
Railroad .....	8,154	403	83	64	8,704
River .....	13,188	781	819	44	14,832
Tidewater .....	-	259	-	-	259
Truck .....	7,119	9	727	60	7,915
Tramway, Conveyor, and Slurry Pipeline .....	3,543	-	368	-	3,911
Unknown .....	-	-	-	-	<sup>1</sup> 11
<b>DESTINATION: WISCONSIN</b>					
<b>Alabama</b> .....	<b>72</b>	-	-	-	<b>72</b>
Railroad .....	72	-	-	-	72
<b>Colorado</b> .....	<b>221</b>	-	-	-	<b>221</b>
River .....	221	-	-	-	221
<b>Illinois</b> .....	<b>710</b>	-	<b>125</b>	-	<b>835</b>
Railroad .....	-	-	99	-	99
River .....	710	-	-	-	710
Great Lakes .....	-	-	26	-	26
<b>Indiana</b> .....	<b>163</b>	-	<b>65</b>	-	<b>228</b>
Railroad .....	163	-	65	-	228
<b>Kentucky Total</b> .....	<b>203</b>	-	<b>593</b>	<b>156</b>	<b>952</b>
Railroad .....	49	-	311	*	360
River .....	64	-	39	143	246
Great Lakes .....	90	-	242	-	332
Truck .....	-	-	2	12	14
<b>Eastern</b> .....	<b>203</b>	-	<b>372</b>	<b>156</b>	<b>730</b>
Railroad .....	49	-	105	*	155
River .....	64	-	23	143	230
Great Lakes .....	90	-	242	-	332
Truck .....	-	-	2	12	14
<b>Western</b> .....	-	-	<b>221</b>	-	<b>221</b>
Railroad .....	-	-	206	-	206
River .....	-	-	16	-	16
<b>Montana</b> .....	<b>482</b>	-	-	-	<b>482</b>
Railroad .....	482	-	-	-	482
<b>New Mexico</b> .....	<b>216</b>	-	-	-	<b>216</b>
Railroad .....	216	-	-	-	216
<b>Ohio</b> .....	<b>*</b>	-	-	-	<b>*</b>
Railroad .....	*	-	-	-	*
<b>Pennsylvania Total</b> .....	<b>980</b>	-	<b>25</b>	<b>1</b>	<b>1,007</b>
Railroad .....	514	-	8	-	522
River .....	-	-	17	1	19
Great Lakes .....	466	-	-	-	466
Truck .....	-	-	*	-	*
<b>Anthracite</b> .....	-	-	<b>8</b>	-	<b>8</b>
Railroad .....	-	-	8	-	8
Truck .....	-	-	*	-	*
<b>Bituminous</b> .....	<b>980</b>	-	<b>17</b>	<b>1</b>	<b>999</b>
Railroad .....	514	-	-	-	514
River .....	-	-	17	1	19
Great Lakes .....	466	-	-	-	466
<b>Texas</b> .....	<b>4</b>	-	-	-	<b>4</b>
Railroad .....	4	-	-	-	4
<b>West Virginia Total</b> .....	<b>100</b>	-	<b>112</b>	-	<b>212</b>
Railroad .....	39	-	30	-	69
River .....	47	-	5	-	52
Great Lakes .....	13	-	78	-	91
<b>Northern</b> .....	<b>21</b>	-	<b>72</b>	-	<b>94</b>
Railroad .....	12	-	-	-	12
Great Lakes .....	9	-	72	-	82

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: WISCONSIN (Continued)</b>					
<b>Southern</b> .....	<b>78</b>	—	<b>40</b>	—	<b>118</b>
Railroad .....	27	—	30	—	57
River .....	47	—	5	—	52
Great Lakes .....	4	—	6	—	10
<b>Wyoming</b> .....	<b>22,849</b>	—	<b>929</b>	—	<b>23,778</b>
Railroad .....	22,164	—	929	—	23,093
River .....	191	—	—	—	191
Great Lakes .....	494	—	—	—	494
<b>State Total</b> .....	<b>26,001</b>	—	<b>1,849</b>	<b>157</b>	<b>28,007</b>
Railroad .....	23,704	—	1,441	*	25,146
River .....	1,232	—	61	144	1,438
Great Lakes .....	1,064	—	345	—	1,409
Truck .....	—	—	2	12	14
<b>DESTINATION: WYOMING</b>					
<b>Colorado</b> .....	—	—	<b>148</b>	—	<b>148</b>
Railroad .....	—	—	1	—	1
Truck .....	—	—	146	—	146
<b>Pennsylvania Total</b> .....	—	—	<b>48</b>	—	<b>48</b>
Railroad .....	—	—	2	—	2
Truck .....	—	—	47	—	47
<b>Anthracite</b> .....	—	—	<b>2</b>	—	<b>2</b>
Railroad .....	—	—	2	—	2
<b>Bituminous</b> .....	—	—	<b>47</b>	—	<b>47</b>
Truck .....	—	—	47	—	47
<b>Utah</b> .....	—	—	—	*	*
Truck .....	—	—	—	*	*
<b>Wyoming</b> .....	<b>26,509</b>	—	<b>1,907</b>	<b>104</b>	<b>28,519</b>
Railroad .....	14,227	—	1,216	1	15,444
Truck .....	761	—	691	103	1,555
Tramway, Conveyor, and Slurry Pipeline .....	11,521	—	—	—	11,521
<b>State Total</b> .....	<b>26,509</b>	—	<b>2,103</b>	<b>104</b>	<b>28,715</b>
Railroad .....	14,227	—	1,219	1	15,447
Truck .....	761	—	884	103	1,748
Tramway, Conveyor, and Slurry Pipeline .....	11,521	—	—	—	11,521
<b>DESTINATION: U.S. TOTAL</b>					
<b>Alabama</b> .....	<b>12,658</b>	<b>1,681</b>	<b>1,582</b>	<b>23</b>	<sup>2</sup> <b>15,990</b>
Railroad .....	5,528	1,620	134	—	7,282
River .....	4,116	—	—	—	4,116
Truck .....	3,014	61	1,448	23	4,546
Unknown .....	—	—	—	—	2 46
<b>Alaska</b> .....	<b>483</b>	—	—	<b>553</b>	<b>1,036</b>
Railroad .....	148	—	—	483	631
Truck .....	335	—	—	69	405
<b>Arizona</b> .....	<b>12,623</b>	—	—	—	<b>12,623</b>
Railroad .....	8,129	—	—	—	8,129
Tramway, Conveyor, and Slurry Pipeline .....	4,494	—	—	—	4,494
<b>Arkansas</b> .....	—	—	<b>22</b>	—	<b>22</b>
Truck .....	—	—	22	—	22
<b>Colorado</b> .....	<b>26,244</b>	<b>250</b>	<b>1,594</b>	<b>100</b>	<sup>2</sup> <b>28,198</b>
Railroad .....	21,129	250	1,173	—	22,553
River .....	829	—	—	—	829
Truck .....	4,287	—	421	100	4,808
Unknown .....	—	—	—	—	2 8
<b>Illinois</b> .....	<b>34,700</b>	—	<b>3,980</b>	<b>604</b>	<sup>2</sup> <b>40,102</b>
Railroad .....	16,108	—	1,296	*	17,405
River .....	13,703	—	313	247	14,263
Great Lakes .....	—	—	26	—	26
Tidewater .....	1,145	—	—	—	1,145
Truck .....	3,744	—	2,324	357	6,425
Tramway, Conveyor, and Slurry Pipeline .....	—	—	21	—	21
Unknown .....	—	—	—	—	2 818

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: U.S. TOTAL (Continued)</b>					
<b>Indiana</b> .....	<b>32,191</b>	—	<b>1,713</b>	<b>295</b>	<sup>2</sup> <b>34,215</b>
Railroad.....	22,254	—	349	*	22,603
River.....	263	—	294	—	557
Great Lakes.....	68	—	—	—	68
Truck.....	8,983	—	1,070	295	10,347
Tramway, Conveyor, and Slurry Pipeline.....	624	—	—	—	624
Unknown.....	—	—	—	—	<sup>2</sup> 16
<b>Kansas</b> .....	<b>408</b>	—	—	—	<b>408</b>
Truck.....	408	—	—	—	408
<b>Kentucky Total</b> .....	<b>114,895</b>	<b>2,317</b>	<b>15,259</b>	<b>1,066</b>	<sup>3</sup> <b>133,997</b>
Railroad.....	76,293	1,988	8,478	211	86,969
River.....	23,979	40	3,689	625	28,334
Great Lakes.....	538	263	1,072	—	1,874
Tidewater.....	19	—	168	—	187
Truck.....	14,065	25	1,852	230	16,172
Unknown.....	—	—	—	—	<sup>3</sup> 460
<b>Eastern</b> .....	<b>86,144</b>	<b>2,317</b>	<b>14,610</b>	<b>1,007</b>	<sup>3</sup> <b>104,287</b>
Railroad.....	68,217	1,988	8,272	211	78,688
River.....	10,502	40	3,328	567	14,437
Great Lakes.....	538	263	1,072	—	1,874
Tidewater.....	19	—	168	—	187
Truck.....	6,867	25	1,771	228	8,891
Unknown.....	—	—	—	—	<sup>3</sup> 209
<b>Western</b> .....	<b>28,751</b>	—	<b>648</b>	<b>59</b>	<sup>2</sup> <b>29,710</b>
Railroad.....	8,076	—	206	—	8,281
River.....	13,477	—	362	57	13,896
Truck.....	7,198	—	81	2	7,281
Unknown.....	—	—	—	—	<sup>2</sup> 251
<b>Louisiana</b> .....	<b>2,952</b>	—	—	—	<b>2,952</b>
Truck.....	716	—	—	—	716
Tramway, Conveyor, and Slurry Pipeline.....	2,236	—	—	—	2,236
<b>Maryland</b> .....	<b>3,663</b>	—	<b>209</b>	<b>2</b>	<sup>2</sup> <b>3,875</b>
Railroad.....	322	—	—	—	322
Truck.....	3,341	—	209	2	3,552
Unknown.....	—	—	—	—	<sup>2</sup> 1
<b>Mississippi</b> .....	<b>18</b>	—	—	—	<b>18</b>
Tramway, Conveyor, and Slurry Pipeline.....	18	—	—	—	18
<b>Missouri</b> .....	<b>312</b>	—	<b>78</b>	<b>3</b>	<b>392</b>
Truck.....	312	—	78	3	392
<b>Montana</b> .....	<b>39,664</b>	—	<b>915</b>	<b>69</b>	<b>40,649</b>
Railroad.....	23,598	—	—	67	23,665
Great Lakes.....	6,214	—	433	—	6,647
Truck.....	223	—	64	3	289
Tramway, Conveyor, and Slurry Pipeline.....	9,629	—	419	—	10,048
<b>New Mexico</b> .....	<b>27,482</b>	—	<b>963</b>	<b>5</b>	<sup>1</sup> <b>28,450</b>
Railroad.....	20,443	—	963	—	21,406
Truck.....	—	—	—	5	5
Tramway, Conveyor, and Slurry Pipeline.....	7,039	—	—	—	7,039
Unknown.....	—	—	—	—	<sup>1</sup> 0
<b>North Dakota</b> .....	<b>24,631</b>	—	<b>6,257</b>	<b>50</b>	<b>30,938</b>
Railroad.....	502	—	—	—	502
Truck.....	4,492	—	—	50	4,542
Tramway, Conveyor, and Slurry Pipeline.....	19,636	—	6,257	—	25,893
<b>Ohio</b> .....	<b>21,413</b>	—	<b>1,518</b>	<b>130</b>	<sup>2</sup> <b>23,068</b>
Railroad.....	1,400	—	—	16	1,416
River.....	6,585	—	—	—	6,585
Great Lakes.....	2	—	1	—	3
Truck.....	6,939	—	1,518	114	8,570
Tramway, Conveyor, and Slurry Pipeline.....	6,487	—	—	—	6,487
Unknown.....	—	—	—	—	<sup>2</sup> 7
<b>Oklahoma</b> .....	<b>1,275</b>	—	<b>375</b>	<b>7</b>	<b>1,657</b>
Truck.....	1,275	—	375	7	1,657
<b>Pennsylvania Total</b> .....	<b>60,167</b>	<b>1,957</b>	<b>5,642</b>	<b>771</b>	<sup>3</sup> <b>68,703</b>
Railroad.....	25,462	101	1,123	3	26,689
River.....	13,482	1,668	924	44	16,118
Great Lakes.....	947	188	233	—	1,367
Tidewater.....	13	—	—	—	13
Truck.....	14,842	—	3,296	725	18,862

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: U.S. TOTAL (Continued)</b>					
<b>Pennsylvania Total</b>					
Tramway, Conveyor, and Slurry Pipeline .....	5,421	-	66	-	5,486
Unknown .....	-	-	-	-	3 166
<b>Anthracite</b> .....	<b>2,984</b>	-	<b>761</b>	<b>578</b>	<b>2 4,365</b>
Railroad .....	172	-	310	3	485
River .....	-	-	16	-	16
Truck .....	2,812	-	435	575	3,822
Unknown .....	-	-	-	-	2 42
<b>Bituminous</b> .....	<b>57,184</b>	<b>1,957</b>	<b>4,881</b>	<b>193</b>	<b>3 64,338</b>
Railroad .....	25,291	101	813	-	26,204
River .....	13,482	1,668	908	44	16,103
Great Lakes .....	947	188	233	-	1,367
Tidewater .....	13	-	-	-	13
Truck .....	12,030	-	2,861	149	15,040
Tramway, Conveyor, and Slurry Pipeline .....	5,421	-	66	-	5,486
Unknown .....	-	-	-	-	3 124
<b>Tennessee</b> .....	<b>2,385</b>	-	<b>714</b>	<b>44</b>	<b>2 3,151</b>
Railroad .....	1,637	-	574	-	2,211
Truck .....	748	-	139	44	931
Unknown .....	-	-	-	-	2 9
<b>Texas</b> .....	<b>50,061</b>	-	<b>2,840</b>	-	<b>2 52,903</b>
Railroad .....	23,672	-	149	-	23,821
River .....	-	-	12	-	12
Great Lakes .....	30	-	-	-	30
Truck .....	13,545	-	260	-	13,805
Tramway, Conveyor, and Slurry Pipeline .....	12,815	-	2,419	-	15,233
Unknown .....	-	-	-	-	2 2
<b>Utah</b> .....	<b>20,185</b>	-	<b>2,992</b>	<b>215</b>	<b>2 23,402</b>
Railroad .....	12,648	-	2,650	15	15,314
Truck .....	4,144	-	342	200	4,685
Tramway, Conveyor, and Slurry Pipeline .....	3,393	-	-	-	3,393
Unknown .....	-	-	-	-	2 10
<b>Virginia</b> .....	<b>16,317</b>	<b>3,373</b>	<b>2,953</b>	<b>67</b>	<b>3 22,865</b>
Railroad .....	12,718	2,401	2,829	54	18,001
River .....	1,369	9	3	*	1,381
Tidewater .....	731	-	-	-	731
Truck .....	1,499	*	107	13	1,620
Tramway, Conveyor, and Slurry Pipeline .....	-	963	14	-	977
Unknown .....	-	-	-	-	3 154
<b>Washington</b> .....	<b>4,074</b>	-	-	-	<b>4,074</b>
Tramway, Conveyor, and Slurry Pipeline .....	4,074	-	-	-	4,074
<b>West Virginia Total</b> .....	<b>105,225</b>	<b>18,125</b>	<b>10,692</b>	<b>760</b>	<b>3 134,882</b>
Railroad .....	52,462	11,408	5,772	382	70,024
River .....	40,498	5,428	2,991	212	49,130
Great Lakes .....	157	957	220	-	1,335
Tidewater .....	4,290	259	-	-	4,548
Truck .....	5,453	15	1,345	166	6,978
Tramway, Conveyor, and Slurry Pipeline .....	2,365	59	364	-	2,787
Unknown .....	-	-	-	-	3 80
<b>Northern</b> .....	<b>35,181</b>	<b>1,219</b>	<b>797</b>	<b>47</b>	<b>2 37,259</b>
Railroad .....	12,191	1,198	380	-	13,769
River .....	15,451	21	17	-	15,488
Great Lakes .....	90	-	84	-	174
Tidewater .....	1,028	-	-	-	1,028
Truck .....	4,057	-	307	47	4,411
Tramway, Conveyor, and Slurry Pipeline .....	2,365	-	9	-	2,374
Unknown .....	-	-	-	-	2 14
<b>Southern</b> .....	<b>70,044</b>	<b>16,906</b>	<b>9,895</b>	<b>713</b>	<b>3 97,624</b>
Railroad .....	40,271	10,210	5,393	382	56,255
River .....	25,047	5,407	2,975	212	33,641
Great Lakes .....	67	957	136	-	1,161
Tidewater .....	3,262	259	-	-	3,521
Truck .....	1,396	15	1,037	119	2,567
Tramway, Conveyor, and Slurry Pipeline .....	-	59	354	-	413
Unknown .....	-	-	-	-	3 65
<b>Wyoming</b> .....	<b>327,609</b>	-	<b>5,527</b>	<b>113</b>	<b>2 333,253</b>
Railroad .....	303,657	-	4,083	8	307,748
River .....	9,242	-	-	-	9,242

See footnotes at end of table.

**Table 64. Domestic Distribution of U.S. Coal by Destination State, Consumer, Origin and Method of Transportation, 1999 (Continued)**  
(Thousand Short Tons)

Coal-Producing State of Origin by Method of Transportation	Electricity Generation	Coke Plants	Industrial Plants (Except Coke)	Residential and Commercial	Total
<b>DESTINATION: U.S. TOTAL (Continued)</b>					
<b>Wyoming</b>					
Great Lakes.....	1,921	—	475	—	2,397
Truck.....	1,269	—	969	105	2,343
Tramway, Conveyor, and Slurry Pipeline.....	11,521	—	—	—	11,521
Unknown.....	—	—	—	—	2 <sup>3</sup>
<b>U.S. Total.....</b>	<b>941,636</b>	<b>27,703</b>	<b>65,824</b>	<b>4,879</b>	<sup>3</sup> <b>1,041,823</b>
Railroad.....	628,110	17,768	29,574	1,239	676,691
River.....	114,066	7,145	8,226	1,128	130,566
Great Lakes.....	9,877	1,408	2,459	—	13,745
Tidewater.....	6,199	259	168	—	6,625
Truck.....	93,632	101	15,838	2,511	112,083
Tramway, Conveyor, and Slurry Pipeline.....	89,751	1,022	9,559	—	100,332
Unknown.....	—	—	—	—	<sup>3</sup> 1,781

<sup>1</sup> Includes distribution to the transportation sector.

<sup>2</sup> Includes distribution to unknown consumers.

<sup>3</sup> Includes distribution to both the transportation sector and unknown consumers.

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

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

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

**Table 65. Distribution of U.S. Coal by Origin, Destination, and Method of Transportation, 1999**

(Thousand Short Tons)

Origin State and Destination State	Railroad	Water				Truck	Tramway, Conveyor, and Slurry Pipeline	Unknown	Total
		River	Great Lakes	Tidewater	Total				
<b>Alabama</b> .....	<b>7,282</b>	<b>4,116</b>	—	<b>3,307</b>	<b>7,423</b>	<b>4,546</b>	—	<b>46</b>	<b>19,297</b>
Alabama .....	5,444	4,116	—	—	4,116	4,464	—	—	14,024
Arkansas .....	113	—	—	—	—	—	—	—	113
Georgia .....	194	—	—	—	—	—	—	—	194
Indiana .....	1,302	—	—	—	—	—	—	—	1,302
Mississippi .....	—	—	—	—	—	35	—	—	35
Pennsylvania .....	157	—	—	—	—	—	—	—	157
Tennessee .....	—	—	—	—	—	47	—	—	47
Wisconsin .....	72	—	—	—	—	—	—	—	72
Unknown State .....	—	—	—	—	—	—	—	46	46
Foreign .....	—	—	—	3,307	3,307	—	—	—	3,307
<b>Alaska</b> .....	<b>631</b>	—	—	<b>537</b>	<b>537</b>	<b>405</b>	—	—	<b>1,573</b>
Alaska .....	631	—	—	—	—	405	—	—	1,036
Foreign .....	—	—	—	537	537	—	—	—	537
<b>Arizona</b> .....	<b>8,129</b>	—	—	—	—	—	<b>4,494</b>	—	<b>12,623</b>
Arizona .....	8,129	—	—	—	—	—	—	—	8,129
Nevada .....	—	—	—	—	—	—	4,494	—	4,494
<b>Arkansas</b> .....	—	—	—	—	—	<b>22</b>	—	—	<b>22</b>
Arkansas .....	—	—	—	—	—	4	—	—	4
Missouri .....	—	—	—	—	—	16	—	—	16
Texas .....	—	—	—	—	—	3	—	—	3
<b>Colorado</b> .....	<b>23,905</b>	<b>829</b>	—	<b>467</b>	<b>1,295</b>	<b>4,808</b>	—	<b>8</b>	<b>30,017</b>
Alaska .....	15	—	—	—	—	—	—	—	15
Arizona .....	630	—	—	—	—	*	—	—	630
Arkansas .....	10	—	—	—	—	—	—	—	10
California .....	10	—	—	—	—	—	—	—	10
Colorado .....	7,735	—	—	—	—	4,559	—	—	12,294
Illinois .....	185	141	—	—	141	4	—	—	330
Iowa .....	170	306	—	—	306	—	—	—	475
Kansas .....	587	—	—	—	—	—	—	—	587
Kentucky .....	2,946	—	—	—	—	—	—	—	2,946
Michigan .....	12	43	—	—	43	—	—	—	55
Mississippi .....	1,101	—	—	—	—	—	—	—	1,101
Missouri .....	1,766	—	—	—	—	—	—	—	1,766
Nebraska .....	20	—	—	—	—	—	—	—	20
New Mexico .....	—	—	—	—	—	99	—	—	99
Tennessee .....	2,803	117	—	—	117	—	—	—	2,920
Texas .....	2,951	—	—	—	—	—	—	—	2,951
Utah .....	1,610	—	—	—	—	—	—	—	1,610
Wisconsin .....	—	221	—	—	221	—	—	—	221
Wyoming .....	1	—	—	—	—	146	—	—	148
Unknown State .....	—	—	—	—	—	—	—	8	8
Foreign .....	1,352	—	—	467	467	—	—	—	1,819
<b>Illinois</b> .....	<b>17,405</b>	<b>14,263</b>	<b>26</b>	<b>1,210</b>	<b>15,499</b>	<b>6,425</b>	<b>21</b>	<b>818</b>	<b>40,167</b>
Alabama .....	661	577	—	100	677	—	—	—	1,338
Florida .....	1,073	3,227	—	—	3,227	—	—	—	4,300
Georgia .....	614	—	—	—	—	—	—	—	614
Illinois .....	9,420	3,161	—	—	3,161	4,989	21	—	17,592
Indiana .....	3,956	773	—	—	773	434	—	—	5,162
Iowa .....	214	1,655	—	—	1,655	193	—	—	2,061
Kentucky .....	368	—	—	—	—	27	—	—	395
Minnesota .....	—	72	—	—	72	—	—	—	72
Mississippi .....	—	427	—	1,045	1,472	—	—	—	1,472
Missouri .....	1,000	551	—	—	551	720	—	—	2,271
New York .....	—	—	—	—	—	63	—	—	63
Oklahoma .....	—	1	—	—	1	—	—	—	1
Pennsylvania .....	—	—	—	—	—	*	—	—	*
Tennessee .....	—	3,109	—	—	3,109	—	—	—	3,109
Wisconsin .....	99	710	26	—	735	—	—	—	835
Unknown State .....	—	—	—	—	—	—	—	818	818
Foreign .....	—	—	—	65	65	—	—	—	65
<b>Indiana</b> .....	<b>22,603</b>	<b>557</b>	<b>68</b>	—	<b>625</b>	<b>10,347</b>	<b>624</b>	<b>16</b>	<b>34,215</b>

See footnotes at end of table.

**Table 65. Distribution of U.S. Coal by Origin, Destination, and Method of Transportation, 1999**  
**(Continued)**  
(Thousand Short Tons)

Origin State and Destination State	Railroad	Water				Truck	Tramway, Conveyor, and Slurry Pipeline	Unknown	Total
		River	Great Lakes	Tidewater	Total				
<b>Indiana (Continued)</b>									
Illinois .....	767	-	-	-	-	237	-	-	1,004
Indiana .....	20,565	293	-	-	293	9,260	624	-	30,742
Iowa .....	109	-	-	-	-	-	-	-	109
Kentucky .....	799	237	-	-	237	851	-	-	1,887
Michigan .....	-	-	68	-	68	-	-	-	68
Minnesota .....	83	-	-	-	-	-	-	-	83
Missouri .....	6	-	-	-	-	-	-	-	6
Ohio .....	46	26	-	-	26	-	-	-	72
Oklahoma .....	-	1	-	-	1	-	-	-	1
Wisconsin .....	228	-	-	-	-	-	-	-	228
Unknown State .....	-	-	-	-	-	-	-	16	16
<b>Kansas .....</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>408</b>	<b>-</b>	<b>-</b>	<b>408</b>
Kansas .....	-	-	-	-	-	406	-	-	406
Missouri .....	-	-	-	-	-	2	-	-	2
<b>Kentucky .....</b>	<b>87,555</b>	<b>28,356</b>	<b>2,763</b>	<b>3,325</b>	<b>34,444</b>	<b>16,172</b>	<b>-</b>	<b>460</b>	<b>138,632</b>
Alabama .....	1,085	1,178	-	-	1,178	26	-	-	2,288
Arkansas .....	20	-	-	-	-	-	-	-	20
Delaware .....	69	-	-	-	-	-	-	-	69
District of Columbia .....	3	-	-	-	-	-	-	-	3
Florida .....	12,096	3,122	-	-	3,122	-	-	-	15,218
Georgia .....	16,255	21	-	-	21	174	-	-	16,450
Illinois .....	867	400	82	-	482	43	-	-	1,391
Indiana .....	556	1,979	-	-	1,979	452	-	-	2,987
Iowa .....	30	359	-	-	359	*	-	-	389
Kentucky .....	8,477	5,404	-	-	5,404	12,047	-	10	25,939
Louisiana .....	-	279	-	-	279	-	-	-	279
Maine .....	-	-	-	168	168	-	-	-	168
Maryland .....	108	-	-	-	-	-	-	-	108
Massachusetts .....	223	82	48	-	130	-	-	-	353
Michigan .....	3,198	-	1,351	-	1,351	1,491	-	-	6,040
Minnesota .....	-	126	32	-	157	-	-	-	157
Mississippi .....	1,039	81	-	-	81	-	-	-	1,119
Missouri .....	218	54	-	-	54	-	-	-	273
Nevada .....	11	-	-	-	-	-	-	-	11
New Jersey .....	-	-	-	10	10	-	-	-	10
New York .....	1,176	39	-	-	39	-	-	-	1,216
North Carolina .....	12,998	-	-	-	-	459	-	-	13,457
North Dakota .....	-	-	-	-	-	*	-	-	*
Ohio .....	2,595	6,174	29	-	6,204	342	-	-	9,140
Oklahoma .....	-	46	-	-	46	-	-	-	46
Oregon .....	7	-	-	-	-	-	-	-	7
Pennsylvania .....	336	288	-	-	288	89	-	-	714
South Carolina .....	11,678	-	-	-	-	46	-	-	11,724
Tennessee .....	8,392	7,743	-	-	7,743	636	-	-	16,772
Texas .....	151	2	-	-	2	-	-	-	153
Virginia .....	4,971	444	-	10	454	243	-	-	5,668
West Virginia .....	49	266	-	-	266	110	-	-	425
Wisconsin .....	360	246	332	-	578	14	-	-	952
Unknown State .....	-	-	-	-	-	-	-	450	450
Foreign .....	586	22	889	3,138	4,050	-	-	-	4,636
<b>Kentucky, Eastern .....</b>	<b>79,274</b>	<b>14,459</b>	<b>2,763</b>	<b>3,325</b>	<b>20,548</b>	<b>8,891</b>	<b>-</b>	<b>209</b>	<b>108,922</b>
Alabama .....	276	112	-	-	112	26	-	-	415
Arkansas .....	20	-	-	-	-	-	-	-	20
Delaware .....	69	-	-	-	-	-	-	-	69
District of Columbia .....	3	-	-	-	-	-	-	-	3
Florida .....	12,035	1,769	-	-	1,769	-	-	-	13,804
Georgia .....	16,255	21	-	-	21	174	-	-	16,450
Illinois .....	867	245	82	-	327	43	-	-	1,236
Indiana .....	556	1,973	-	-	1,973	414	-	-	2,942
Iowa .....	30	237	-	-	237	*	-	-	268
Kentucky .....	3,117	1,984	-	-	1,984	4,809	-	10	9,921
Louisiana .....	-	16	-	-	16	-	-	-	16
Maine .....	-	-	-	168	168	-	-	-	168
Maryland .....	108	-	-	-	-	-	-	-	108

See footnotes at end of table.

**Table 65. Distribution of U.S. Coal by Origin, Destination, and Method of Transportation, 1999**  
**(Continued)**  
(Thousand Short Tons)

Origin State and Destination State	Railroad	Water				Truck	Tramway, Conveyor, and Slurry Pipeline	Unknown	Total
		River	Great Lakes	Tidewater	Total				
<b>Kentucky, Eastern (Continued)</b>									
Massachusetts .....	223	82	48	-	130	-	-	-	353
Michigan .....	3,198	-	1,351	-	1,351	1,491	-	-	6,040
Minnesota .....	-	110	32	-	142	-	-	-	142
Mississippi .....	1,039	3	-	-	3	-	-	-	1,042
Missouri .....	218	43	-	-	43	-	-	-	261
Nevada .....	11	-	-	-	-	-	-	-	11
New Jersey .....	-	-	-	10	10	-	-	-	10
New York .....	1,176	39	-	-	39	-	-	-	1,216
North Carolina .....	12,998	-	-	-	-	459	-	-	13,457
North Dakota .....	-	-	-	-	-	*	-	-	*
Ohio .....	2,595	6,117	29	-	6,146	342	-	-	9,083
Oklahoma .....	-	46	-	-	46	-	-	-	46
Oregon .....	7	-	-	-	-	-	-	-	7
Pennsylvania .....	336	288	-	-	288	89	-	-	714
South Carolina .....	11,678	-	-	-	-	46	-	-	11,724
Tennessee .....	6,546	410	-	-	410	632	-	-	7,587
Texas .....	151	2	-	-	2	-	-	-	153
Virginia .....	4,971	444	-	10	454	243	-	-	5,668
West Virginia .....	49	266	-	-	266	110	-	-	425
Wisconsin .....	155	230	332	-	562	14	-	-	730
Unknown State .....	-	-	-	-	-	-	-	199	199
Foreign .....	586	22	889	3,138	4,050	-	-	-	4,636
<b>Kentucky, Western .....</b>	<b>8,281</b>	<b>13,896</b>	-	-	<b>13,896</b>	<b>7,281</b>	-	<b>251</b>	<b>29,710</b>
Alabama .....	808	1,065	-	-	1,065	-	-	-	1,873
Florida .....	61	1,353	-	-	1,353	-	-	-	1,414
Illinois .....	-	155	-	-	155	-	-	-	155
Indiana .....	-	7	-	-	7	38	-	-	45
Iowa .....	-	122	-	-	122	-	-	-	122
Kentucky .....	5,360	3,421	-	-	3,421	7,238	-	-	16,019
Louisiana .....	-	262	-	-	262	-	-	-	262
Minnesota .....	-	15	-	-	15	-	-	-	15
Mississippi .....	-	78	-	-	78	-	-	-	78
Missouri .....	-	11	-	-	11	-	-	-	11
Ohio .....	-	58	-	-	58	-	-	-	58
Tennessee .....	1,847	7,333	-	-	7,333	5	-	-	9,185
Virginia .....	-	-	-	-	-	*	-	-	*
Wisconsin .....	206	16	-	-	16	-	-	-	221
Unknown State .....	-	-	-	-	-	-	-	251	251
<b>Louisiana .....</b>	-	-	-	-	-	<b>716</b>	<b>2,236</b>	-	<b>2,952</b>
Louisiana .....	-	-	-	-	-	716	2,236	-	2,952
<b>Maryland .....</b>	<b>322</b>	-	-	*	*	<b>3,552</b>	-	<b>1</b>	<b>3,875</b>
Delaware .....	139	-	-	-	-	-	-	-	139
Maryland .....	183	-	-	-	-	495	-	-	677
Pennsylvania .....	-	-	-	-	-	2	-	-	2
West Virginia .....	-	-	-	-	-	3,056	-	-	3,056
Unknown State .....	-	-	-	-	-	-	-	1	1
Foreign .....	-	-	-	*	*	-	-	-	*
<b>Mississippi .....</b>	-	-	-	-	-	-	<b>18</b>	-	<b>18</b>
Mississippi .....	-	-	-	-	-	-	18	-	18
<b>Missouri .....</b>	-	-	-	-	-	<b>392</b>	-	-	<b>392</b>
Kansas .....	-	-	-	-	-	1	-	-	1
Missouri .....	-	-	-	-	-	391	-	-	391
<b>Montana .....</b>	<b>24,136</b>	-	<b>6,858</b>	-	<b>6,858</b>	<b>289</b>	<b>10,048</b>	-	<b>41,332</b>
Arizona .....	69	-	-	-	-	-	-	-	69
Illinois .....	1,769	-	-	-	-	-	-	-	1,769
Indiana .....	1,308	-	-	-	-	-	-	-	1,308
Kansas .....	1,319	-	-	-	-	-	-	-	1,319
Michigan .....	3,474	-	6,478	-	6,478	-	-	-	9,952
Minnesota .....	9,429	-	-	-	-	-	-	-	9,429
Mississippi .....	1,926	-	-	-	-	-	-	-	1,926
Montana .....	9	-	-	-	-	289	10,048	-	10,346

See footnotes at end of table.



**Table 65. Distribution of U.S. Coal by Origin, Destination, and Method of Transportation, 1999**  
**(Continued)**  
(Thousand Short Tons)

Origin State and Destination State	Railroad	Water				Truck	Tramway, Conveyor, and Slurry Pipeline	Unknown	Total
		River	Great Lakes	Tidewater	Total				
<b>Montana (Continued)</b>									
North Dakota .....	877	-	-	-	-	-	-	-	877
Ohio .....	-	-	168	-	168	-	-	-	168
Oregon .....	1,507	-	-	-	-	-	-	-	1,507
South Dakota .....	1,496	-	-	-	-	-	-	-	1,496
Wisconsin.....	482	-	-	-	-	-	-	-	482
Foreign.....	471	-	212	-	212	-	-	-	682
<b>New Mexico .....</b>	<b>21,406</b>	-	-	-	-	<b>5</b>	<b>7,039</b>	<b>*</b>	<b>28,450</b>
Arizona.....	11,346	-	-	-	-	-	-	-	11,346
California .....	6	-	-	-	-	-	-	-	6
Colorado.....	1	-	-	-	-	-	-	-	1
New Mexico .....	9,378	-	-	-	-	5	7,039	*	16,423
Oklahoma.....	64	-	-	-	-	-	-	-	64
Texas .....	395	-	-	-	-	-	-	-	395
Wisconsin.....	216	-	-	-	-	-	-	-	216
<b>North Dakota.....</b>	<b>502</b>	-	-	-	-	<b>4,542</b>	<b>25,893</b>	-	<b>30,938</b>
North Dakota .....	502	-	-	-	-	4,542	25,893	-	30,938
<b>Ohio .....</b>	<b>1,416</b>	<b>6,585</b>	<b>7</b>	<b>2</b>	<b>6,594</b>	<b>8,570</b>	<b>6,487</b>	<b>7</b>	<b>23,074</b>
Alabama.....	-	31	-	-	31	-	-	-	31
Connecticut .....	-	-	-	-	-	*	-	-	*
Georgia.....	42	-	-	-	-	-	-	-	42
Indiana.....	-	7	-	-	7	84	-	-	91
Kentucky.....	-	123	-	-	123	-	-	-	123
Michigan.....	-	-	2	-	2	237	-	-	239
Minnesota.....	-	-	-	-	-	5	-	-	5
New Hampshire.....	7	-	-	-	-	-	-	-	7
New Jersey.....	16	-	-	-	-	-	-	-	16
New York .....	16	-	-	-	-	4	-	-	20
Ohio .....	1,335	4,649	*	-	4,649	8,050	6,487	-	20,521
Pennsylvania.....	*	167	-	-	167	191	-	-	358
West Virginia.....	-	1,609	-	-	1,609	-	-	-	1,609
Wisconsin.....	*	-	-	-	-	-	-	-	*
Unknown State .....	-	-	-	-	-	-	-	7	7
Foreign.....	-	-	4	2	6	-	-	-	6
<b>Oklahoma.....</b>	-	-	-	-	-	<b>1,657</b>	-	-	<b>1,657</b>
Arkansas.....	-	-	-	-	-	66	-	-	66
Kansas .....	-	-	-	-	-	82	-	-	82
Oklahoma.....	-	-	-	-	-	1,453	-	-	1,453
Texas.....	-	-	-	-	-	56	-	-	56
<b>Pennsylvania .....</b>	<b>26,995</b>	<b>16,764</b>	<b>2,591</b>	<b>4,802</b>	<b>24,157</b>	<b>18,864</b>	<b>5,486</b>	<b>166</b>	<b>75,669</b>
Alabama.....	200	117	-	-	117	*	-	-	317
Arizona.....	*	-	-	-	-	*	-	-	*
Arkansas.....	-	-	-	-	-	1	-	-	1
California .....	-	-	-	-	-	*	-	-	*
Colorado.....	18	1,096	-	-	1,096	1	-	-	1,115
Connecticut.....	80	-	-	-	-	6	-	-	87
Delaware.....	426	-	-	-	-	7	-	-	433
District of Columbia.....	-	-	-	-	-	*	-	-	*
Florida.....	256	-	-	-	-	*	-	-	256
Georgia.....	688	-	-	-	-	3	-	-	691
Illinois .....	16	97	-	-	97	*	-	-	114
Indiana .....	68	215	-	-	215	44	-	-	327
Iowa .....	34	243	-	-	243	2	-	-	280
Kansas.....	1	-	-	-	-	-	-	-	1
Kentucky.....	331	272	-	-	272	5	-	-	608
Louisiana.....	*	68	-	-	68	*	-	-	68
Maine.....	12	-	-	-	-	2	-	-	15
Maryland.....	2,879	-	-	-	-	297	-	-	3,176
Massachusetts .....	115	-	-	-	-	9	-	-	124
Michigan.....	2,741	265	334	-	599	1	-	-	3,342
Minnesota.....	5	-	-	-	-	*	-	-	6
Mississippi .....	*	-	-	-	-	-	-	-	*
Missouri.....	6	-	-	-	-	3	-	-	9

See footnotes at end of table.

**Table 65. Distribution of U.S. Coal by Origin, Destination, and Method of Transportation, 1999**  
**(Continued)**  
(Thousand Short Tons)

Origin State and Destination State	Railroad	Water				Truck	Tramway, Conveyor, and Slurry Pipeline	Unknown	Total
		River	Great Lakes	Tidewater	Total				
<b>Pennsylvania (Continued)</b>									
Montana .....	3	-	-	-	-	*	-	-	3
Nebraska .....	8	-	-	-	-	*	-	-	8
New Hampshire .....	542	-	-	13	13	4	-	-	560
New Jersey .....	446	-	-	-	-	10	-	-	456
New Mexico .....	*	-	-	-	-	*	-	-	*
New York .....	4,227	50	465	-	515	634	-	-	5,376
North Carolina .....	*	-	-	-	-	*	-	-	*
North Dakota .....	-	-	-	-	-	11	-	-	11
Ohio .....	1,573	3,261	102	-	3,363	118	-	-	5,053
Oklahoma .....	*	-	-	-	-	-	-	-	*
Oregon .....	17	-	-	-	-	-	-	-	17
Pennsylvania .....	10,989	5,100	-	-	5,100	16,518	4,305	1	36,912
Rhode Island .....	-	-	-	-	-	2	-	-	2
South Carolina .....	67	-	-	-	-	7	-	-	74
Tennessee .....	27	905	-	-	905	2	-	-	933
Texas .....	3	2	-	-	2	1	-	-	6
Utah .....	77	-	-	-	-	5	-	-	82
Vermont .....	-	-	-	-	-	2	-	-	2
Virginia .....	256	-	-	-	-	379	-	-	636
West Virginia .....	53	4,408	-	-	4,408	739	1,182	-	6,382
Wisconsin .....	522	19	466	-	485	*	-	-	1,007
Wyoming .....	2	-	-	-	-	47	-	-	48
Unknown State .....	-	-	-	-	-	-	-	166	166
Foreign .....	306	646	1,224	4,789	6,659	2	-	-	6,966
<b>Pennsylvania Anthracite .....</b>	<b>695</b>	<b>16</b>	<b>-</b>	<b>4</b>	<b>20</b>	<b>3,823</b>	<b>-</b>	<b>42</b>	<b>4,580</b>
Alabama .....	*	11	-	-	11	*	-	-	11
Arizona .....	*	-	-	-	-	*	-	-	*
Arkansas .....	-	-	-	-	-	1	-	-	1
California .....	*	-	-	-	-	*	-	-	*
Colorado .....	18	-	-	-	-	1	-	-	18
Connecticut .....	-	-	-	-	-	6	-	-	6
Delaware .....	*	-	-	-	-	7	-	-	7
District of Columbia .....	-	-	-	-	-	*	-	-	*
Florida .....	*	-	-	-	-	*	-	-	*
Georgia .....	*	-	-	-	-	3	-	-	3
Illinois .....	16	-	-	-	-	*	-	-	17
Indiana .....	*	-	-	-	-	44	-	-	44
Iowa .....	34	-	-	-	-	2	-	-	36
Kansas .....	1	-	-	-	-	-	-	-	1
Kentucky .....	11	3	-	-	3	5	-	-	19
Louisiana .....	*	-	-	-	-	*	-	-	*
Maine .....	*	-	-	-	-	2	-	-	2
Maryland .....	98	-	-	-	-	2	-	-	100
Massachusetts .....	*	-	-	-	-	9	-	-	10
Michigan .....	*	-	-	-	-	1	-	-	2
Minnesota .....	5	-	-	-	-	*	-	-	6
Mississippi .....	*	-	-	-	-	-	-	-	*
Missouri .....	6	-	-	-	-	3	-	-	9
Montana .....	3	-	-	-	-	*	-	-	3
Nebraska .....	8	-	-	-	-	*	-	-	8
New Hampshire .....	*	-	-	-	-	4	-	-	4
New Jersey .....	*	-	-	-	-	10	-	-	10
New Mexico .....	*	-	-	-	-	*	-	-	*
New York .....	1	-	-	-	-	78	-	-	79
North Carolina .....	*	-	-	-	-	*	-	-	*
North Dakota .....	-	-	-	-	-	1	-	-	1
Ohio .....	*	-	-	-	-	11	-	-	11
Oklahoma .....	*	-	-	-	-	-	-	-	*
Oregon .....	17	-	-	-	-	-	-	-	17
Pennsylvania .....	209	-	-	-	-	3,567	-	-	3,776
Rhode Island .....	-	-	-	-	-	2	-	-	2
South Carolina .....	42	-	-	-	-	7	-	-	49
Tennessee .....	*	-	-	-	-	2	-	-	2
Texas .....	3	2	-	-	2	1	-	-	6
Vermont .....	-	-	-	-	-	2	-	-	2
Virginia .....	*	-	-	-	-	3	-	-	3

See footnotes at end of table.

**Table 65. Distribution of U.S. Coal by Origin, Destination, and Method of Transportation, 1999**  
**(Continued)**  
(Thousand Short Tons)

Origin State and Destination State	Railroad	Water				Truck	Tramway, Conveyor, and Slurry Pipeline	Unknown	Total
		River	Great Lakes	Tidewater	Total				
<b>Pennsylvania Anthracite (Continued)</b>									
West Virginia.....	*	-	-	-	-	48	-	-	48
Wisconsin.....	8	-	-	-	-	*	-	-	8
Wyoming.....	2	-	-	-	-	-	-	-	2
Unknown State.....	-	-	-	-	-	-	-	42	42
Foreign.....	210	-	-	4	4	2	-	-	216
<b>Pennsylvania Bituminous.....</b>	<b>26,300</b>	<b>16,749</b>	<b>2,591</b>	<b>4,798</b>	<b>24,138</b>	<b>15,041</b>	<b>5,486</b>	<b>124</b>	<b>71,089</b>
Alabama.....	200	106	-	-	106	-	-	-	306
Colorado.....	-	1,096	-	-	1,096	-	-	-	1,096
Connecticut.....	80	-	-	-	-	*	-	-	80
Delaware.....	425	-	-	-	-	*	-	-	425
Florida.....	256	-	-	-	-	-	-	-	256
Georgia.....	688	-	-	-	-	-	-	-	688
Illinois.....	-	97	-	-	97	-	-	-	97
Indiana.....	68	215	-	-	215	-	-	-	283
Iowa.....	-	243	-	-	243	-	-	-	243
Kentucky.....	319	269	-	-	269	-	-	-	589
Louisiana.....	-	68	-	-	68	-	-	-	68
Maine.....	12	-	-	-	-	*	-	-	12
Maryland.....	2,781	-	-	-	-	295	-	-	3,076
Massachusetts.....	115	-	-	-	-	-	-	-	115
Michigan.....	2,741	265	334	-	599	-	-	-	3,340
New Hampshire.....	542	-	-	13	13	-	-	-	556
New Jersey.....	446	-	-	-	-	-	-	-	446
New York.....	4,226	50	465	-	515	556	-	-	5,296
North Dakota.....	-	-	-	-	-	11	-	-	11
Ohio.....	1,572	3,261	102	-	3,363	107	-	-	5,042
Pennsylvania.....	10,780	5,100	-	-	5,100	12,951	4,305	1	33,136
South Carolina.....	26	-	-	-	-	-	-	-	26
Tennessee.....	27	905	-	-	905	-	-	-	932
Texas.....	-	-	-	-	-	*	-	-	*
Utah.....	77	-	-	-	-	5	-	-	82
Virginia.....	256	-	-	-	-	377	-	-	633
West Virginia.....	52	4,408	-	-	4,408	692	1,182	-	6,334
Wisconsin.....	514	19	466	-	485	-	-	-	999
Wyoming.....	-	-	-	-	-	47	-	-	47
Unknown State.....	-	-	-	-	-	-	-	123	123
Foreign.....	96	646	1,224	4,785	6,655	*	-	-	6,750
<b>Tennessee.....</b>	<b>2,215</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>931</b>	<b>-</b>	<b>9</b>	<b>3,155</b>
Alabama.....	35	-	-	-	-	14	-	-	49
Delaware.....	-	-	-	-	-	13	-	-	13
Florida.....	30	-	-	-	-	-	-	-	30
Georgia.....	787	-	-	-	-	24	-	-	811
Kentucky.....	1	-	-	-	-	86	-	-	87
North Carolina.....	352	-	-	-	-	1	-	-	354
Ohio.....	-	-	-	-	-	*	-	-	*
Pennsylvania.....	-	-	-	-	-	11	-	-	11
South Carolina.....	289	-	-	-	-	-	-	-	289
Tennessee.....	684	-	-	-	-	781	-	-	1,465
West Virginia.....	33	-	-	-	-	-	-	-	33
Unknown State.....	-	-	-	-	-	-	-	9	9
Foreign.....	4	-	-	-	-	-	-	-	4
<b>Texas.....</b>	<b>23,830</b>	<b>12</b>	<b>102</b>	<b>92</b>	<b>205</b>	<b>13,805</b>	<b>15,233</b>	<b>2</b>	<b>53,075</b>
Illinois.....	-	12	-	-	12	-	-	-	12
Michigan.....	-	-	23	-	23	-	-	-	23
Ohio.....	-	-	7	-	7	-	-	-	7
Texas.....	23,817	-	-	-	-	13,805	15,233	-	52,855
Wisconsin.....	4	-	-	-	-	-	-	-	4
Unknown State.....	-	-	-	-	-	-	-	2	2
Foreign.....	8	-	72	92	163	-	-	-	172
<b>Utah.....</b>	<b>15,314</b>	<b>-</b>	<b>-</b>	<b>2,313</b>	<b>2,313</b>	<b>4,685</b>	<b>3,393</b>	<b>10</b>	<b>25,715</b>

See footnotes at end of table.

**Table 65. Distribution of U.S. Coal by Origin, Destination, and Method of Transportation, 1999**  
**(Continued)**  
(Thousand Short Tons)

Origin State and Destination State	Railroad	Water				Truck	Tramway, Conveyor, and Slurry Pipeline	Unknown	Total
		River	Great Lakes	Tidewater	Total				
<b>Utah (Continued)</b>									
California .....	5,101	-	-	-	-	29	-	-	5,130
Colorado .....	-	-	-	-	-	3	-	-	3
Idaho .....	12	-	-	-	-	54	-	-	66
Illinois .....	1,507	-	-	-	-	-	-	-	1,507
Kansas .....	-	-	-	-	-	*	-	-	*
Missouri .....	99	-	-	-	-	-	-	-	99
Montana .....	-	-	-	-	-	4	-	-	4
Nebraska .....	-	-	-	-	-	3	-	-	3
Nevada .....	3,740	-	-	-	-	118	-	-	3,857
New Mexico .....	-	-	-	-	-	*	-	-	*
North Dakota .....	-	-	-	-	-	*	-	-	*
Oregon .....	431	-	-	-	-	*	-	-	431
Tennessee .....	1,142	-	-	-	-	-	-	-	1,142
Texas .....	105	-	-	-	-	-	-	-	105
Utah .....	3,112	-	-	-	-	4,474	3,393	-	10,979
Washington .....	66	-	-	-	-	1	-	-	67
Wyoming .....	-	-	-	-	-	*	-	-	*
Unknown State .....	-	-	-	-	-	-	-	10	10
Foreign .....	-	-	-	2,313	2,313	-	-	-	2,313
<b>Virginia .....</b>	<b>18,276</b>	<b>1,381</b>	<b>-</b>	<b>9,226</b>	<b>10,608</b>	<b>1,620</b>	<b>977</b>	<b>154</b>	<b>31,634</b>
Alabama .....	601	-	-	-	-	-	-	-	601
Delaware .....	182	-	-	-	-	-	-	-	182
Florida .....	590	-	-	-	-	-	-	-	590
Georgia .....	4,475	-	-	-	-	-	-	-	4,475
Illinois .....	-	4	-	-	4	-	-	-	4
Indiana .....	798	941	-	-	941	-	-	-	1,739
Maryland .....	-	-	-	-	-	1	-	-	1
Michigan .....	*	-	-	-	-	*	-	-	*
New Jersey .....	-	-	-	731	731	2	-	-	734
New York .....	93	-	-	-	-	-	-	-	93
North Carolina .....	652	-	-	-	-	48	-	-	700
Ohio .....	564	427	-	-	427	-	-	-	991
Pennsylvania .....	350	-	-	-	-	-	-	-	350
South Carolina .....	1,137	-	-	-	-	*	-	-	1,138
Tennessee .....	2,464	-	-	-	-	55	-	-	2,519
Texas .....	12	-	-	-	-	-	-	-	12
Utah .....	58	-	-	-	-	-	-	-	58
Virginia .....	5,718	-	-	-	-	1,513	977	146	8,355
West Virginia .....	305	8	-	-	8	*	-	-	314
Unknown State .....	-	-	-	-	-	-	-	8	8
Foreign .....	274	-	-	8,495	8,495	-	-	-	8,770
<b>Washington .....</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>4,074</b>	<b>-</b>	<b>4,074</b>
Washington .....	-	-	-	-	-	-	4,074	-	4,074
<b>West Virginia .....</b>	<b>74,196</b>	<b>49,165</b>	<b>6,412</b>	<b>18,110</b>	<b>73,687</b>	<b>6,980</b>	<b>2,787</b>	<b>80</b>	<b>157,730</b>
Alabama .....	1,677	464	-	-	464	16	-	-	2,156
Connecticut .....	117	-	-	598	598	-	-	-	715
Delaware .....	523	-	-	-	-	2	-	-	525
District of Columbia .....	3	3	-	-	3	-	-	-	6
Florida .....	1,135	172	-	1,306	1,478	3	-	-	2,615
Georgia .....	3,713	-	-	-	-	-	-	-	3,713
Illinois .....	936	587	20	-	607	6	-	-	1,549
Indiana .....	5,896	1,588	-	*	1,588	-	-	-	7,484
Iowa .....	3,437	95	-	-	95	-	-	-	3,531
Kentucky .....	1,190	7,186	-	-	7,186	418	-	-	8,793
Louisiana .....	-	155	-	-	155	-	-	-	155
Maine .....	-	-	-	-	-	*	-	-	*
Maryland .....	6,936	-	-	1,226	1,226	871	-	-	9,033
Massachusetts .....	628	-	-	245	245	-	-	-	873
Michigan .....	4,940	7	997	-	1,004	-	-	-	5,944
Minnesota .....	-	94	-	-	94	-	-	-	94
Mississippi .....	140	-	-	-	-	-	-	-	140
Missouri .....	12	297	-	-	297	-	-	-	308
Nevada .....	-	-	-	-	-	*	-	-	*
New Hampshire .....	211	-	-	-	-	-	-	-	211

See footnotes at end of table.

**Table 65. Distribution of U.S. Coal by Origin, Destination, and Method of Transportation, 1999**  
**(Continued)**  
(Thousand Short Tons)

Origin State and Destination State	Railroad	Water				Truck	Tramway, Conveyor, and Slurry Pipeline	Unknown	Total
		River	Great Lakes	Tidewater	Total				
<b>West Virginia (Continued)</b>									
New Jersey.....	1,063	46	-	483	528	-	-	-	1,591
New York.....	3,608	92	-	77	169	5	-	-	3,782
North Carolina.....	10,266	-	-	-	-	-	-	-	10,266
Ohio.....	5,365	20,334	175	-	20,509	627	-	-	26,501
Oklahoma.....	7	7	-	-	7	-	-	-	14
Oregon.....	19	-	-	-	-	-	-	-	19
Pennsylvania.....	4,418	9,296	50	355	9,701	521	-	-	14,640
South Carolina.....	946	-	-	-	-	-	-	-	946
Tennessee.....	90	48	-	-	48	36	-	-	173
Texas.....	103	63	-	-	63	-	-	-	167
Utah.....	173	-	-	-	-	-	-	-	173
Vermont.....	-	-	-	-	-	*	-	-	*
Virginia.....	4,141	5	-	-	5	466	59	-	4,670
West Virginia.....	8,265	8,541	-	259	8,799	4,009	2,729	11	23,813
Wisconsin.....	69	52	91	-	143	-	-	-	212
Unknown State.....	-	-	-	-	-	-	-	69	69
Foreign.....	4,172	36	5,077	13,562	18,674	2	-	-	22,848
<b>West Virginia, Northern.....</b>	<b>13,968</b>	<b>15,488</b>	<b>1,706</b>	<b>1,549</b>	<b>18,744</b>	<b>4,411</b>	<b>2,374</b>	<b>14</b>	<b>39,512</b>
Alabama.....	-	250	-	-	250	-	-	-	250
Connecticut.....	17	-	-	598	598	-	-	-	614
Delaware.....	191	-	-	-	-	2	-	-	193
Florida.....	855	-	-	-	-	-	-	-	855
Illinois.....	4	-	-	-	-	-	-	-	4
Indiana.....	219	120	-	-	120	-	-	-	338
Kentucky.....	-	1,436	-	-	1,436	5	-	-	1,441
Louisiana.....	-	155	-	-	155	-	-	-	155
Maryland.....	3,916	-	-	-	-	871	-	-	4,787
Massachusetts.....	3	-	-	-	-	-	-	-	3
Michigan.....	545	-	23	-	23	-	-	-	568
Missouri.....	-	3	-	-	3	-	-	-	3
New Hampshire.....	177	-	-	-	-	-	-	-	177
New Jersey.....	948	-	-	430	430	-	-	-	1,379
New York.....	2,563	-	-	-	-	1	-	-	2,565
Ohio.....	1,901	3,839	19	-	3,858	6	-	-	5,764
Oklahoma.....	-	*	-	-	*	-	-	-	*
Pennsylvania.....	2,041	5,174	50	-	5,224	245	-	-	7,510
South Carolina.....	106	-	-	-	-	-	-	-	106
Texas.....	19	-	-	-	-	-	-	-	19
Virginia.....	-	-	-	-	-	421	-	-	421
West Virginia.....	252	4,510	-	-	4,510	2,860	2,374	-	9,996
Wisconsin.....	12	-	82	-	82	-	-	-	94
Unknown State.....	-	-	-	-	-	-	-	14	14
Foreign.....	199	-	1,533	521	2,054	-	-	-	2,253
<b>West Virginia, Southern.....</b>	<b>60,228</b>	<b>33,677</b>	<b>4,706</b>	<b>16,561</b>	<b>54,943</b>	<b>2,569</b>	<b>413</b>	<b>65</b>	<b>118,219</b>
Alabama.....	1,677	213	-	-	213	16	-	-	1,906
Connecticut.....	101	-	-	-	-	-	-	-	101
Delaware.....	332	-	-	-	-	-	-	-	332
District of Columbia.....	3	3	-	-	3	-	-	-	6
Florida.....	279	172	-	1,306	1,478	3	-	-	1,760
Georgia.....	3,713	-	-	-	-	-	-	-	3,713
Illinois.....	932	587	20	-	607	6	-	-	1,545
Indiana.....	5,678	1,468	-	*	1,468	-	-	-	7,146
Iowa.....	3,437	95	-	-	95	-	-	-	3,531
Kentucky.....	1,190	5,750	-	-	5,750	413	-	-	7,352
Maine.....	-	-	-	-	-	*	-	-	*
Maryland.....	3,019	-	-	1,226	1,226	-	-	-	4,245
Massachusetts.....	625	-	-	245	245	-	-	-	870
Michigan.....	4,394	7	974	-	981	-	-	-	5,375
Minnesota.....	-	94	-	-	94	-	-	-	94
Mississippi.....	140	-	-	-	-	-	-	-	140
Missouri.....	12	293	-	-	293	-	-	-	305
Nevada.....	-	-	-	-	-	*	-	-	*
New Hampshire.....	34	-	-	-	-	-	-	-	34
New Jersey.....	114	46	-	52	98	-	-	-	212
New York.....	1,044	92	-	77	169	4	-	-	1,217

See footnotes at end of table.

**Table 65. Distribution of U.S. Coal by Origin, Destination, and Method of Transportation, 1999**  
**(Continued)**  
 (Thousand Short Tons)

Origin State and Destination State	Railroad	Water				Truck	Tramway, Conveyor, and Slurry Pipeline	Unknown	Total
		River	Great Lakes	Tidewater	Total				
<b>West Virginia, Southern (Continued)</b>									
North Carolina.....	10,266	-	-	-	-	-	-	-	10,266
Ohio.....	3,465	16,495	157	-	16,651	621	-	-	20,737
Oklahoma.....	7	7	-	-	7	-	-	-	13
Oregon.....	19	-	-	-	-	-	-	-	19
Pennsylvania.....	2,377	4,122	-	355	4,477	276	-	-	7,130
South Carolina.....	840	-	-	-	-	-	-	-	840
Tennessee.....	90	48	-	-	48	36	-	-	173
Texas.....	84	63	-	-	63	-	-	-	148
Utah.....	173	-	-	-	-	-	-	-	173
Vermont.....	-	-	-	-	-	*	-	-	*
Virginia.....	4,141	5	-	-	5	44	59	-	4,249
West Virginia.....	8,013	4,030	-	259	4,289	1,149	354	11	13,817
Wisconsin.....	57	52	10	-	62	-	-	-	118
Unknown State.....	-	-	-	-	-	-	-	54	54
Foreign.....	3,973	36	3,545	13,040	16,620	2	-	-	20,595
<b>Wyoming.....</b>	<b>308,057</b>	<b>9,242</b>	<b>5,039</b>	<b>823</b>	<b>15,104</b>	<b>2,343</b>	<b>11,521</b>	<b>3</b>	<b>337,027</b>
Alabama.....	10,679	-	-	-	-	-	-	-	10,679
Arizona.....	142	-	-	-	-	-	-	-	142
Arkansas.....	15,167	-	-	-	-	-	-	-	15,167
California.....	189	-	-	-	-	-	-	-	189
Colorado.....	11,077	-	-	-	-	-	-	-	11,077
Florida.....	-	416	-	-	416	-	-	-	416
Georgia.....	6,805	-	-	-	-	-	-	-	6,805
Idaho.....	237	-	-	-	-	12	-	-	249
Illinois.....	23,311	-	-	-	-	-	-	-	23,311
Indiana.....	7,102	7,213	-	-	7,213	-	-	-	14,315
Iowa.....	24,100	-	-	-	-	-	-	-	24,100
Kansas.....	13,751	-	-	-	-	-	-	-	13,751
Kentucky.....	1,789	-	-	-	-	-	-	-	1,789
Louisiana.....	11,130	-	-	-	-	-	-	-	11,130
Michigan.....	9,505	-	957	-	957	-	-	-	10,462
Minnesota.....	8,111	-	470	-	470	387	-	-	8,968
Missouri.....	34,537	1,422	-	-	1,422	-	-	-	35,958
Montana.....	723	-	-	-	-	*	-	-	724
Nebraska.....	12,226	-	-	-	-	-	-	-	12,226
North Carolina.....	28	-	-	-	-	-	-	-	28
Ohio.....	3,364	-	475	-	475	-	-	-	3,840
Oklahoma.....	21,063	-	-	-	-	-	-	-	21,063
Oregon.....	2,040	-	-	-	-	-	-	-	2,040
South Carolina.....	1,122	-	-	-	-	-	-	-	1,122
South Dakota.....	558	-	-	-	-	388	-	-	947
Tennessee.....	2,743	-	-	-	-	-	-	-	2,743
Texas.....	47,614	-	-	-	-	-	-	-	47,614
Utah.....	15	-	-	-	-	*	-	-	15
Washington.....	83	-	-	-	-	-	-	-	83
Wisconsin.....	23,093	191	494	-	685	-	-	-	23,778
Wyoming.....	15,444	-	-	-	-	1,555	11,521	-	28,519
Unknown State.....	-	-	-	-	-	-	-	3	3
Foreign.....	309	-	2,642	823	3,465	-	-	-	3,774
<b>U.S. Total.....</b>	<b>684,173</b>	<b>131,269</b>	<b>23,865</b>	<b>44,214</b>	<b>199,348</b>	<b>112,086</b>	<b>100,332</b>	<b>1,781</b>	<b>1,097,721</b>
Alabama.....	20,380	6,482	-	100	6,582	4,520	-	-	31,482
Alaska.....	646	-	-	-	-	405	-	-	1,051
Arizona.....	20,316	-	-	-	-	*	-	-	20,317
Arkansas.....	15,309	-	-	-	-	70	-	-	15,380
California.....	5,305	-	-	-	-	29	-	-	5,335
Colorado.....	18,831	1,096	-	-	1,096	4,562	-	-	24,490
Connecticut.....	197	-	-	598	598	6	-	-	801
Delaware.....	1,339	-	-	-	-	22	-	-	1,362
District of Columbia.....	6	3	-	-	3	*	-	-	9
Florida.....	15,180	6,938	-	1,306	8,244	3	-	-	23,426
Georgia.....	33,573	21	-	-	21	201	-	-	33,795
Idaho.....	249	-	-	-	-	66	-	-	315
Illinois.....	38,779	4,402	102	-	4,504	5,279	21	-	48,583
Indiana.....	41,552	13,008	-	*	13,008	10,273	624	-	65,457
Iowa.....	28,093	2,657	-	-	2,657	196	-	-	30,946

See footnotes at end of table.

**Table 65. Distribution of U.S. Coal by Origin, Destination, and Method of Transportation, 1999**  
**(Continued)**  
(Thousand Short Tons)

Origin State and Destination State	Railroad	Water				Truck	Tramway, Conveyor, and Slurry Pipeline	Unknown	Total
		River	Great Lakes	Tidewater	Total				
<b>U.S. Total (Continued)</b>									
Kansas .....	15,658	-	-	-	-	489	-	-	16,147
Kentucky .....	15,902	13,222	-	-	13,222	13,433	-	10	42,567
Louisiana .....	11,130	502	-	-	502	716	2,236	-	14,584
Maine .....	12	-	-	168	168	2	-	-	182
Maryland .....	10,106	-	-	1,226	1,226	1,664	-	-	12,996
Massachusetts .....	966	82	48	245	375	9	-	-	1,351
Michigan .....	23,869	315	10,212	-	10,527	1,729	-	-	36,125
Minnesota .....	17,628	292	501	-	793	393	-	-	18,814
Mississippi .....	4,206	507	-	1,045	1,552	35	18	-	5,812
Missouri .....	37,643	2,324	-	-	2,324	1,131	-	-	41,098
Montana .....	735	-	-	-	-	293	10,048	-	11,077
Nebraska .....	12,254	-	-	-	-	3	-	-	12,257
Nevada .....	3,751	-	-	-	-	118	4,494	-	8,363
New Hampshire .....	760	-	-	13	13	4	-	-	777
New Jersey .....	1,525	46	-	1,224	1,269	13	-	-	2,807
New Mexico .....	9,378	-	-	-	-	104	7,039	*	16,521
New York .....	9,120	181	465	77	723	706	-	-	10,550
North Carolina .....	24,297	-	-	-	-	508	-	-	24,805
North Dakota .....	1,379	-	-	-	-	4,554	25,893	-	31,826
Ohio .....	14,841	34,872	957	-	35,829	9,137	6,487	-	66,294
Oklahoma .....	21,134	55	-	-	55	1,453	-	-	22,642
Oregon .....	4,021	-	-	-	-	*	-	-	4,021
Pennsylvania .....	16,251	14,851	50	355	15,256	17,331	4,305	1	53,143
Rhode Island .....	-	-	-	-	-	2	-	-	2
South Carolina .....	15,240	-	-	-	-	53	-	-	15,293
South Dakota .....	2,054	-	-	-	-	388	-	-	2,443
Tennessee .....	18,344	11,922	-	-	11,922	1,557	-	-	31,822
Texas .....	75,152	67	-	-	67	13,865	15,233	-	104,316
Utah .....	5,045	-	-	-	-	4,479	3,393	-	12,918
Vermont .....	-	-	-	-	-	2	-	-	2
Virginia .....	15,086	449	-	10	458	2,601	1,036	146	19,328
Washington .....	149	-	-	-	-	1	4,074	-	4,224
West Virginia .....	8,704	14,832	-	259	15,091	7,915	3,911	11	35,632
Wisconsin .....	25,146	1,438	1,409	-	2,847	14	-	-	28,007
Wyoming .....	15,447	-	-	-	-	1,748	11,521	-	28,715
Unknown State .....	-	-	-	-	-	-	-	1,612	1,612
Foreign .....	7,482	704	10,120	37,589	48,413	3	-	-	55,898

\* Data round to zero.

Note: Totals may not equal sum of components due to independent rounding.

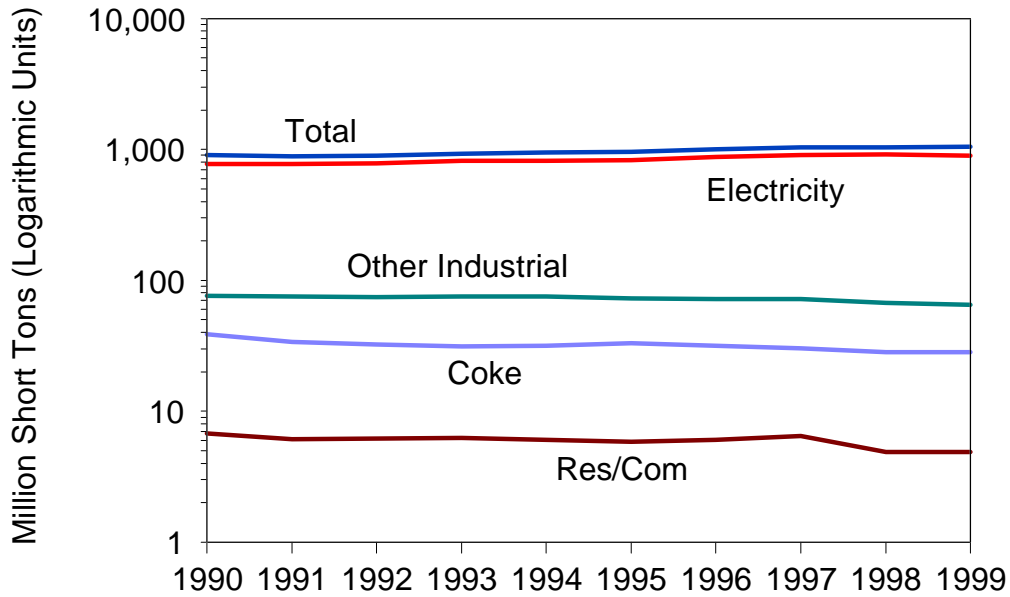
Source: Energy Information Administration, Form EIA-6A, "Coal Distribution Report."

# Demand



# Domestic Markets

**Figure 9. U.S. Coal Consumption, 1990-1999**



Note: Total consumption does not include coal consumed by other power producers.

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

**Table 66. Major U.S. Coal Consumers, 1999**

Rank	Company Name	Plant Locations
<b>Electric Utilities</b>		
1	Tennessee Valley Authority	(AL) (KY) (TN)
2	Texas Utilities Electric Company	(TX)
3	Pacificorp	(UT) (WA) (WY)
4	Georgia Power Company	(GA)
5	Alabama Power Company	(AL)
6	Detroit Edison Company (The)	(MI)
7	Reliant Energy	(TX)
8	Union Electric Company	(MO)
9	Basin Electric Power	(ND) (WY)
10	Duke Power Company	(NC) (SC)
11	PSI Energy, Inc	(IN)
12	Commonwealth Edison Company	(IL)
13	Ohio Power Company	(OH) (WV)
14	Appalachian Power Company	(VA) (WV)
15	Virginia Electric & Power Company	(VA) (WV)
16	Monongahela Power Company	(WV)
17	Arkansas Power & Light Company	(AR)
18	Northern States Power Company	(MN) (WI)
19	Arizona Public Service Company	(AZ) (NM)
20	Southwestern Electric Power Company	(AR) (TX)
21	Midamerican Energy	(IA)
22	Cincinnati Gas Electric Company	(KY) (OH)
23	Carolina Power & Light Company	(NC) (SC)
24	Pennsylvania Electric Company	(PA)
25	Indiana Michigan Power Company	(IN)
26	Wisconsin Electric Power Company	(MI) (WI)
27	Salt River Project	(AZ)
28	Public Service Company of Colorado	(CO)
29	KPL - Western Resources	(KS)
30	Kansas City Power & Light Company	(KS) (MO)
31	Montana Power Company	(MT)
32	Oklahoma Gas & Electric Company	(OK)
33	Associated Electric Coop	(MO)
34	Southwestern Public Service Company	(TX)
35	Consumers Power Company	(MI)
36	Northern Indiana Public Service Company	(IN)
37	Dayton Power & Light Company (The)	(OH)
38	Kentucky Utilities Company	(KY)
39	Indianapolis Power & Light Company	(IN)
40	Wisconsin Power & Light Company	(WI)
41	Pennsylvania Power & Light Company	(PA)
42	Tampa Electric Company	(FL)
43	Ohio Edison Company	(OH)
44	Cooperative Power Association	(ND)
45	Louisville Gas & Electric Company	(KY)
46	Lower Colorado River Authority	(TX)
47	Cajun Elec Power Coop Inc	(LA)
48	Public Service Company of New Mexico	(NM)
49	Central Illinois Public Service Company	(IL)
50	Potomac Electric Power Company	(MD) (VA)
51	South Carolina Public Service Authority	(SC)
52	Seana Corporation	(SC)
53	Pennsylvania Power Company	(PA)
54	San Antonio Public Service Board	(TX)
55	Illinois Power Company	(IL)
56	Nebraska Public Power Distribution	(NE)
57	Florida Power Corporation	(FL)
58	Baltimore Gas & Electric Company	(MD)
59	Los Angeles (City of)	(UT)
60	Mississippi Power Company	(MS)
61	Electric Energy Inc	(IL)
62	Central Louisiana Electric Company	(LA)
63	I E S Utilities Company	(IA)
64	Tri-State G & T Association Inc	(CO)
65	West Penn Power Company	(PA)
66	Omaha Public Power District	(NE)
67	Minnkota Power Coop Inc	(ND)
68	Southern California Edison Company	(NV)
69	Indiana-Kentucky Electric Corporation	(IN)
70	Columbus Southern Power Company	(OH)
71	Cleveland Elec Illumination Company	(OH)
72	Minnesota Power Inc	(MN)

See footnotes at end of table.

**Table 66. Major U.S. Coal Consumers, 1999 (Continued)**

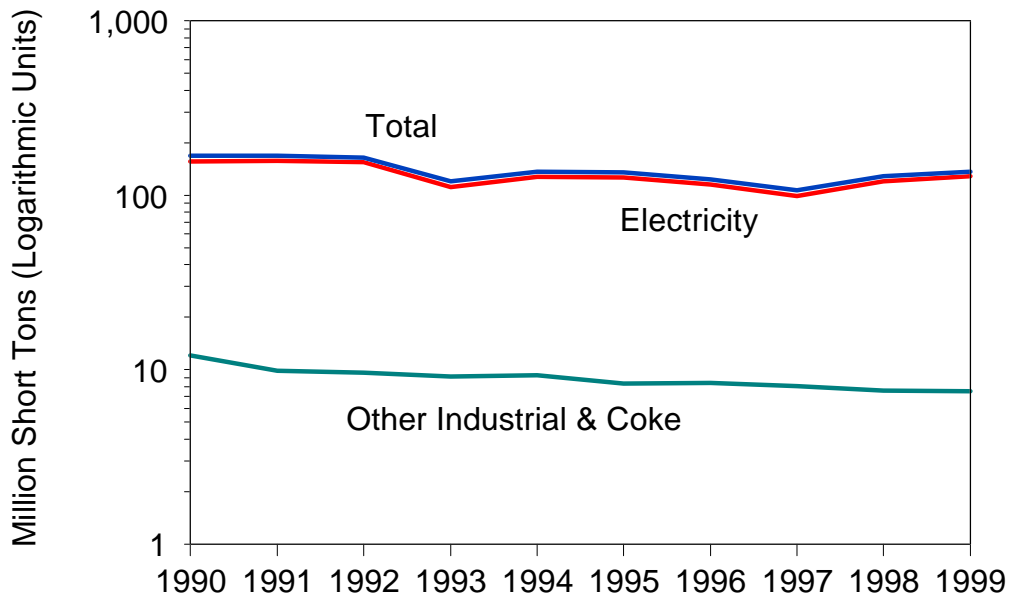
Company Name	Plant Location
<b>Top Ten Manufacturers</b>	
Aluminum Company of America	(IN) (OH) (TN) (TX)
Archer Daniels Midland	(IA) (IL) (MN)
Champion International Corp	(AL) (FL) (ME) (MI) (MN) (NC) (NY) (OH)
Dakota Gasification Co	(ND)
E I Du Pont De Nemours & Co	(DE) (MS) (NC) (SC) (TN) (VA) (WV)
Eastman Chemical Company	(AR) (NY) (SC) (TN) (TX)
Hoechst AG	(SC) (TX) (VA)
Holnam Inc	(AL) (CO) (IA) (MI) (MO) (MS) (SC) (UT) (WA)
Inland Steel Industries Inc	(IN)
Westvaco Corporation	(MD) (PA) (SD) (VA)
<b>Other Major Manufacturers</b>	
A E Staley Manufacturing Co	(IL) (IN) (TN)
American Crystal Sugar Co	(MN) (ND)
Applied Energy Services Inc	(PA)
Ash Grove Cement Company	(AR) (KS) (MT) (NE) (OR) (TX) (UT)
Blue Circle Inc	(AL) (GA) (NY) (OK) (SC)
Cargill Incorporated	(GA) (IA) (MI) (MN) (NC) (OH) (TN) (VA)
Consolidated Papers Inc	(WI)
Dravo Corporation	(AL) (KY)
Elkem A/S	(OH) (WV)
Florida Crushed Stone	(FL)
Fort James Corporation	(GA) (OK) (WI)
FMC Corporation	(NC) (WV) (WY)
General Chemical Corporation	(WY)
General Motors Corporation	(AL) (IL) (IN) (MI) (MO) (OH) (WI)
Georgia-Pacific Corp	(AR) (GA) (MI) (VA)
International Paper Company	(AL) (LA) (PA) (SC) (WI)
Jefferson Smurfit Corp	(AL) (FL) (IL) (IN) (OH) (PA)
Kerr-McGee Corporation	(CA)
Kimberly Clark Corporation	(AL) (MI) (PA) (WI)
Lafarge Corporation	(IA) (IL) (KS) (MI) (MO) (PA)
Lone Star Industries, Inc	(FL) (IL) (IN) (MO) (OK) (TX)
Mead Corporation	(MI) (OH) (TN)
Monsanto Company	(AL) (IA) (ID) (IL) (MA) (WV)
P H Glatfelter Co	(NC) (PA)
PPG Industries Inc	(WV)
Societe Des Ciments Francais	(IN) (MD) (PA)
Solvay Minerals, Inc.	(OH) (TN) (WY)
Southdown Inc	(CA) (CO) (FL) (OH) (TN)
Stone Container Corporation	(AZ) (FL) (MI) (SC) (VA)
Union Camp Corporation	(AL) (GA) (SC) (VA)
<b>Top Ten Coke Producers</b>	
AK Steel Corp	(KY) (OH)
Bethlehem Steel Corp	(IN) (MD) (NY) (PA)
Citizens Gas & Coke Utility	(IN)
Drummond Company Inc	(AL)
Indiana Harbor Coke Co, LP	(IN)
LTV Steel Company Inc	(IL) (IN) (OH) (PA)
National Steel Corp.	(IL) (MI)
Sun Coal Co	(VA)
USX Corporation	(IN) (PA)
Wheeling Pittsburgh Steel Corp	(WV)

Note: Major electric utility coal consumers are companies that consumed more than 4.04 million short tons of coal in 1999. Major manufacturers are the top 40 coal consumers in the manufacturing sector. Major coke producers are the top 10 coal consumers in the coke plant sector. Electric utilities are ranked by consumption and manufacturers and coke producers are listed in alphabetical order.

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



Figure 10. U.S. Consumer Coal Stocks, 1990-1999



Notes: Each increment represents end-of-year data. Industrial stocks reflect manufacturing plants and coke plants.

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







**Table 70. Year-End Coal Stocks at Electric Utility Plants by Census Division and State, 1990, 1995-1999**  
(Thousand Short Tons)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England Total</b> .....	w	575	754	1,236	908	1,113	-51.1	-25.4	-14.2
Connecticut.....	-	134	66	173	164	140	-	-	-
Massachusetts.....	w	163	389	704	425	597	-62.4	-38.4	-22.4
New Hampshire.....	w	278	298	359	319	348	-20.9	-8.9	-5.0
Rhode Island.....	-	-	-	-	-	28	-	-	-
<b>Middle Atlantic Total</b> .....	<b>4,307</b>	<b>10,232</b>	<b>9,175</b>	<b>9,606</b>	<b>11,064</b>	<b>17,148</b>	<b>-57.9</b>	<b>-21.0</b>	<b>-14.2</b>
New Jersey.....	w	663	566	824	804	740	6.7	-3.1	-5
New York.....	w	1,128	819	905	1,015	2,045	-75.5	-27.8	-19.9
Pennsylvania.....	w	8,441	7,790	7,878	9,244	14,363	-60.6	-22.6	-15.0
<b>East North Central Total</b> .....	<b>33,073</b>	<b>34,128</b>	<b>28,051</b>	<b>27,618</b>	<b>30,505</b>	<b>40,740</b>	<b>-3.1</b>	<b>2.0</b>	<b>-2.3</b>
Illinois.....	w	6,572	4,828	4,578	5,331	7,398	-57.0	-14.7	-10.1
Indiana.....	w	8,198	5,822	7,103	8,435	10,610	26.5	5.3	-3
Michigan.....	w	8,776	7,222	6,530	7,708	9,093	1.2	3.6	-3
Ohio.....	w	5,902	6,066	5,229	5,661	9,956	-7.1	-8	-6.4
Wisconsin.....	w	4,679	4,113	4,178	3,371	3,683	17.9	13.1	4.6
<b>West North Central Total</b> .....	<b>21,199</b>	<b>17,961</b>	<b>13,707</b>	<b>17,107</b>	<b>17,732</b>	<b>19,324</b>	<b>18.0</b>	<b>4.6</b>	<b>1.0</b>
Iowa.....	w	3,788	2,447	4,042	3,923	4,206	14.6	2.5	.3
Kansas.....	w	3,168	2,282	2,968	3,850	3,729	18.7	-6	.1
Minnesota.....	w	2,093	1,737	1,461	1,898	2,253	-16.6	-2.1	-2.8
Missouri.....	w	5,032	3,670	5,159	4,641	4,434	32.8	9.5	4.7
Nebraska.....	w	2,096	1,596	1,691	1,409	1,589	34.2	18.9	6.5
North Dakota.....	w	1,580	1,755	1,642	1,858	2,828	3.3	-3.2	-5.9
South Dakota.....	w	204	219	143	153	286	10.0	10.0	-2.7
<b>South Atlantic Total</b> .....	<b>22,924</b>	<b>20,938</b>	<b>16,141</b>	<b>18,662</b>	<b>18,851</b>	<b>27,799</b>	<b>9.5</b>	<b>5.0</b>	<b>-2.1</b>
Delaware.....	w	470	319	322	363	406	11.0	9.5	2.8
Florida.....	w	4,565	3,441	3,349	3,204	4,822	-5.0	7.8	-1.2
Georgia.....	w	3,424	2,279	3,727	3,657	5,473	27.7	4.6	-2.5
Maryland.....	w	1,157	1,188	1,346	1,038	2,114	23.0	8.2	-4.3
North Carolina.....	w	3,622	1,912	2,559	2,715	4,419	5.3	8.9	-1.6
South Carolina.....	w	2,539	1,809	1,979	2,033	2,052	-21.3	-4	-3
Virginia.....	w	1,370	1,152	1,010	1,098	1,639	15.1	9.5	-4
West Virginia.....	w	3,791	4,042	4,370	4,744	6,874	28.7	.7	-3.7
<b>East South Central Total</b> .....	<b>12,154</b>	<b>10,808</b>	<b>9,329</b>	<b>8,514</b>	<b>10,148</b>	<b>15,876</b>	<b>12.4</b>	<b>4.6</b>	<b>-2.9</b>
Alabama.....	w	3,195	2,609	2,526	3,282	3,869	8.9	1.5	-1.2
Kentucky.....	w	4,668	4,475	4,119	4,472	7,612	7.5	2.9	-4.5
Mississippi.....	w	820	614	602	724	799	56.4	15.4	5.4
Tennessee.....	w	2,124	1,630	1,266	1,670	3,596	11.6	9.2	-4.5
<b>West South Central Total</b> .....	<b>21,626</b>	<b>14,396</b>	<b>11,050</b>	<b>19,525</b>	<b>20,195</b>	<b>15,344</b>	<b>50.2</b>	<b>1.7</b>	<b>3.9</b>
Arkansas.....	w	1,107	934	2,701	2,790	1,722	41.7	-13.4	-1.0
Louisiana.....	w	2,157	1,248	2,470	2,659	2,458	2.0	-4.6	-1.2
Oklahoma.....	w	3,349	2,516	4,067	4,118	2,633	76.6	9.5	9.4
Texas.....	w	7,784	6,352	10,287	10,628	8,531	53.4	3.0	3.8
<b>Mountain Total</b> .....	<b>11,797</b>	<b>10,404</b>	<b>9,667</b>	<b>11,304</b>	<b>14,562</b>	<b>16,828</b>	<b>13.4</b>	<b>-5.1</b>	<b>-3.9</b>
Arizona.....	w	1,855	1,386	1,992	2,998	3,090	33.8	-4.6	-2.4
Colorado.....	w	2,840	2,458	3,027	3,622	3,298	30.6	.6	1.3
Montana.....	w	335	410	508	511	767	-96.6	-61.4	-37.4
Nevada.....	w	881	812	1,239	1,356	1,222	34.4	-3.3	-3
New Mexico.....	w	789	795	815	967	1,538	6.8	-3.4	-6.5
Utah.....	w	2,461	2,309	1,526	2,250	3,697	-14.5	-1.7	-6.1
Wyoming.....	w	1,243	1,498	2,197	2,857	3,215	17.7	-15.4	-8.4
<b>Pacific Total</b> .....	<b>w</b>	<b>1,060</b>	<b>952</b>	<b>1,052</b>	<b>2,341</b>	<b>1,993</b>	<b>6.8</b>	<b>-16.6</b>	<b>-6.1</b>
Alaska.....	w	-	*	1	1	2	-	-	-11.0
Oregon.....	w	196	83	203	399	675	96.6	-8	-6.0
Washington.....	w	864	868	848	1,941	1,316	-13.6	-21.2	-6.1
<b>U.S. Total</b> .....	<b>128,494</b>	<b>120,501</b>	<b>98,826</b>	<b>114,623</b>	<b>126,304</b>	<b>156,166</b>	<b>6.6</b>	<b>.4</b>	<b>-2.1</b>

\* Data round to zero.

<sup>w</sup> Withheld to avoid disclosure of individual company data.

Note: Totals may not equal sum of components due to independent rounding.

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

**Table 71. Coal Consumption at Other Industrial Plants by Census Division and State, 1990, 1995-1999**  
(Thousand Short Tons)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England Total</b> .....	w	w	R 333	268	321	325	w	w	w
Connecticut.....	-	-	-	-	w	w	-	-	-
Maine.....	w	w	w	w	w	w	w	w	w
Massachusetts.....	w	w	w	w	w	w	w	w	w
New Hampshire.....	-	-	-	-	w	w	-	-	-
Rhode Island.....	-	-	-	-	-	w	-	-	-
Vermont.....	-	-	107	-	-	w	-	-	-
<b>Middle Atlantic Total</b> .....	5,118	R 5,179	w	w	w	w	w	w	w
New Jersey.....	w	w	w	w	w	w	w	w	w
New York.....	w	w	R 1,484	1,449	1,408	1,844	w	w	w
Pennsylvania.....	3,587	R 3,584	R 4,492	4,466	4,027	4,090	0.1	-2.8	-1.4
<b>East North Central Total</b> .....	14,750	R 15,745	R 16,896	R 17,146	16,566	18,886	-6.3	-2.9	-2.7
Illinois.....	3,635	R 3,846	R 3,880	3,740	3,653	3,888	-5.5	-1	-7
Indiana.....	4,145	R 4,399	R 5,096	4,987	4,373	4,629	-5.8	-1.3	-1.2
Michigan.....	1,945	R 2,129	R 2,413	R 2,948	2,983	3,656	-8.6	-10.1	-6.8
Ohio.....	3,371	R 3,684	R 3,751	3,794	3,609	4,753	-8.5	-1.7	-3.7
Wisconsin.....	1,653	R 1,687	R 1,757	1,678	1,949	1,960	-2.0	-4.0	-1.9
<b>West North Central Total</b> .....	13,780	R 13,673	R 13,329	R 13,853	13,581	11,972	.8	.4	1.6
Iowa.....	2,999	R 2,832	R 3,103	3,085	2,761	2,353	5.9	2.1	2.7
Kansas.....	108	109	137	154	138	157	-9	-5.8	-4.0
Minnesota.....	1,956	R 2,014	1,490	R 2,088	1,401	1,283	-2.9	8.7	4.8
Missouri.....	1,205	R 1,218	R 1,401	1,118	1,102	1,321	-1.1	2.2	-1.0
Nebraska.....	w	w	w	w	w	w	w	w	w
North Dakota.....	w	w	w	w	w	w	w	w	w
South Dakota.....	490	450	436	398	393	222	8.8	5.7	9.2
<b>South Atlantic Total</b> .....	w	w	w	w	w	w	w	w	w
Delaware.....	w	w	w	w	w	w	w	w	w
Florida.....	1,190	R 1,279	1,347	1,270	1,325	1,207	-6.9	-2.6	-1
Georgia.....	1,971	R 1,978	2,046	1,985	1,949	2,232	-4	.3	-1.4
Maryland.....	799	R 769	R 768	785	760	945	3.9	1.2	-1.8
North Carolina.....	1,753	1,883	R 2,158	2,336	2,437	2,989	-6.9	-7.9	-5.8
South Carolina.....	1,863	1,962	R 2,012	2,000	2,188	2,310	-5.0	-3.9	-2.4
Virginia.....	2,230	R 2,368	R 2,500	2,613	2,585	3,756	-5.8	-3.6	-5.6
West Virginia.....	1,600	R 1,913	R 1,690	1,630	1,984	2,918	-16.3	-5.2	-6.4
<b>East South Central Total</b> .....	w	w	w	w	w	w	w	w	w
Alabama.....	2,340	R 2,442	R 2,738	2,545	2,286	2,237	-4.2	.6	.5
Kentucky.....	1,108	R 1,392	R 1,912	R 2,321	2,250	2,253	-20.4	-16.2	-7.6
Mississippi.....	w	w	w	w	w	w	w	w	w
Tennessee.....	3,303	R 3,441	R 3,613	3,670	3,777	3,779	-4.0	-3.3	-1.5
<b>West South Central Total</b> .....	5,485	R 5,448	R 5,865	5,978	6,456	5,769	.7	-4.0	-5
Arkansas.....	325	287	R 296	348	325	256	13.3	*	2.7
Louisiana.....	w	w	w	w	w	w	w	w	w
Oklahoma.....	w	w	w	w	w	w	w	w	w
Texas.....	4,403	R 4,422	R 4,766	R 4,808	4,255	4,157	-4	.8	.6
<b>Mountain Total</b> .....	w	w	R 4,795	R 4,142	5,615	4,841	w	w	w
Arizona.....	685	698	702	675	657	660	-1.8	1.1	.4
Colorado.....	429	R 391	R 728	R 368	729	729	9.6	-12.4	-5.7
Idaho.....	w	w	330	369	426	489	-10.8	w	w
Montana.....	w	w	w	w	w	w	w	w	w
Nevada.....	w	w	w	w	w	w	w	w	w
New Mexico.....	w	w	w	w	w	w	w	w	w
Utah.....	745	R 1,304	R 709	512	915	676	-42.8	-5.0	1.1
Wyoming.....	1,936	R 1,939	R 1,959	1,835	1,937	1,857	-2	*	.5
<b>Pacific Total</b> .....	2,250	R 2,186	R 3,116	R 2,827	3,047	3,214	2.9	-7.3	-3.9
Alaska.....	w	w	w	w	-	-	w	-	-
California.....	2,036	R 1,885	R 2,697	R 2,414	2,485	2,874	8.0	-4.8	-3.8
Hawaii.....	w	w	w	w	w	w	w	w	w
Oregon.....	-	w	w	w	w	w	-	-	-
Washington.....	w	w	156	152	223	229	w	w	w
<b>U.S. Total</b> .....	64,738	R 67,439	R 71,515	R 71,689	73,055	76,330	-4.0	-3.0	-1.8

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

Note: Totals may not equal sum of components due to independent rounding. Regional totals for 1990 may not sum to the U.S. total due to distribution of coal to unknown State.

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

**Table 72. Year-End Coal Stocks at Other Industrial Plants by Census Division and State, 1990, 1995-1999**  
(Thousand Short Tons)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England Total</b> .....	w	w	62	60	60	32	w	w	w
Maine .....	w	w	w	w	w	w	w	w	w
Massachusetts .....	w	w	w	w	w	w	w	w	w
<b>Middle Atlantic Total</b> .....	477	416	w	w	w	w	w	w	w
New Jersey .....	w	w	w	w	w	w	w	w	w
New York .....	w	w	255	192	203	365	w	w	w
Pennsylvania .....	230	163	220	231	218	330	40.8	1.3	-3.9
<b>East North Central Total</b> .....	1,741	1,730	1,926	1,862	2,031	2,955	.7	-3.8	-5.7
Illinois .....	312	290	237	252	333	508	7.8	-1.6	-5.3
Indiana .....	290	306	379	384	451	856	-5.2	-10.4	-11.3
Michigan .....	716	674	825	827	822	1,046	6.3	-3.4	-4.1
Ohio .....	110	171	170	118	138	216	-35.8	-5.7	-7.3
Wisconsin .....	313	290	314	281	286	330	8.2	2.3	-6
<b>West North Central Total</b> .....	1,137	1,069	1,126	1,220	981	1,156	6.3	3.7	-2
Iowa .....	522	473	497	570	524	714	10.5	-1	-3.4
Kansas .....	22	19	16	16	10	13	18.2	23.3	6.2
Minnesota .....	243	301	257	277	87	84	-19.1	29.3	12.6
Missouri .....	126	127	182	158	138	177	-1.3	-2.3	-3.8
Nebraska .....	w	w	w	w	w	w	w	w	w
North Dakota .....	w	w	w	w	w	w	w	w	w
South Dakota .....	33	27	24	17	58	21	23.7	-12.9	5.3
<b>South Atlantic Total</b> .....	w	w	w	w	w	w	w	w	w
Delaware .....	w	w	w	w	w	w	w	w	w
Florida .....	90	84	67	89	64	151	6.6	9.0	-5.6
Georgia .....	127	142	128	121	129	231	-10.5	-4	-6.4
Maryland .....	23	21	16	30	24	35	7.1	-1.2	-4.6
North Carolina .....	96	128	112	112	140	240	-25.1	-9.0	-9.7
South Carolina .....	159	203	212	198	160	263	-22.0	-2	-5.5
Virginia .....	120	120	149	133	177	308	*	-9.3	-9.9
West Virginia .....	116	125	116	136	105	192	-7.4	2.5	-5.5
<b>East South Central Total</b> .....	w	w	w	w	w	w	w	w	w
Alabama .....	162	188	174	135	133	183	-14.0	4.9	-1.4
Kentucky .....	83	76	86	83	120	142	9.8	-8.6	-5.7
Mississippi .....	w	w	w	w	w	w	w	w	w
Tennessee .....	265	223	196	234	215	233	19.1	5.4	1.4
<b>West South Central Total</b> .....	341	354	294	361	370	1,214	-3.7	-2.0	-13.2
Arkansas .....	29	17	20	18	29	13	68.7	-1	9.3
Louisiana .....	w	w	w	w	w	w	w	w	w
Oklahoma .....	w	w	w	w	w	w	w	w	w
Texas .....	192	223	188	190	201	1,067	-13.7	-1.2	-17.3
<b>Mountain Total</b> .....	w	w	228	231	313	417	w	w	w
Arizona .....	49	70	28	32	34	39	-29.5	9.3	2.7
Colorado .....	19	23	18	27	59	36	-15.7	-24.8	-7.0
Idaho .....	w	w	105	77	118	140	26.5	w	w
Montana .....	w	w	w	w	w	w	w	w	w
Nevada .....	w	w	w	w	w	w	w	w	w
New Mexico .....	w	w	w	w	w	w	w	w	w
Utah .....	5	5	3	5	7	60	.4	-6.6	-23.9
Wyoming .....	69	77	57	71	79	78	-10.2	-3.4	-1.3
<b>Pacific Total</b> .....	242	241	212	222	245	237	.4	-3	.2
California .....	192	188	118	150	133	122	2.2	9.6	5.2
Hawaii .....	w	w	w	w	w	w	w	w	w
Oregon .....	-	w	w	w	w	w	-	-	-
Washington .....	w	w	14	8	28	62	w	w	w
<b>U.S. Total</b> .....	5,569	5,545	5,597	5,688	5,702	8,716	.4	-6	-4.8

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

Notes: Other industrial plants include manufacturing plants only. Totals may not equal sum of components due to independent rounding.

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

**Table 73. Coal Carbonized at Coke Plants by Census Division and State, 1990, 1995-1999**  
(Thousand Short Tons)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Middle Atlantic Total</b> .....	<b>7,799</b>	<b>8,401</b>	w	w	w	w	-7.2	w	w
New York .....	w	w	w	w	w	w	w	w	w
Pennsylvania .....	w	w	10,334	10,689	10,858	10,456	w	w	w
<b>East North Central Total</b> .....	<b>13,404</b>	<b>12,322</b>	<b>11,366</b>	<b>11,414</b>	<b>12,345</b>	<b>17,233</b>	<b>8.8</b>	<b>2.1</b>	<b>-2.8</b>
Illinois .....	w	w	w	w	w	w	w	w	w
Indiana .....	w	w	5,715	5,823	5,883	8,867	w	w	w
Michigan .....	w	w	w	w	w	w	w	w	w
Ohio .....	w	w	1,848	1,842	2,777	4,949	w	w	w
<b>South Atlantic Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Maryland .....	-	-	-	-	-	-	-	-	-
Virginia .....	w	w	w	w	w	w	w	w	w
West Virginia .....	w	w	w	w	w	w	w	w	w
<b>East South Central Total</b> .....	<b>3,584</b>	<b>3,736</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>-4.1</b>	<b>w</b>	<b>w</b>
Alabama .....	w	w	2,956	3,247	3,257	3,288	w	w	w
Kentucky .....	w	w	w	w	w	w	w	w	w
Tennessee .....	-	-	-	-	-	-	-	-	-
<b>Mountain Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Utah .....	w	w	w	w	w	w	w	w	w
<b>U.S. Total</b> .....	<b>28,108</b>	<b>28,189</b>	<b>30,203</b>	<b>31,706</b>	<b>33,011</b>	<b>38,877</b>	<b>-3</b>	<b>-3.9</b>	<b>-3.5</b>

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

**Table 74. Year-End Coal Stocks at Coke Plants by Census Division and State, 1990, 1995-1999**  
(Thousand Short Tons)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Middle Atlantic Total</b> .....	<b>559</b>	<b>584</b>	w	w	w	w	-4.3	w	w
New York .....	w	w	w	w	w	w	w	w	w
Pennsylvania .....	w	w	648	748	841	733	w	w	w
<b>East North Central Total</b> .....	<b>954</b>	<b>951</b>	<b>817</b>	<b>1,335</b>	<b>1,282</b>	<b>1,716</b>	<b>.3</b>	<b>-7.1</b>	<b>-6.3</b>
Illinois .....	w	w	w	w	w	w	w	w	w
Indiana .....	w	w	442	469	412	761	w	w	w
Michigan .....	w	w	w	w	w	w	w	w	w
Ohio .....	w	w	87	81	136	299	w	w	w
<b>South Atlantic Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Maryland .....	-	-	-	-	-	-	-	-	-
West Virginia .....	w	w	w	w	w	w	w	w	w
<b>East South Central Total</b> .....	<b>302</b>	<b>341</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>-11.4</b>	<b>w</b>	<b>w</b>
Alabama .....	w	w	188	197	233	320	w	w	w
Kentucky .....	w	w	w	w	w	w	w	w	w
Tennessee .....	-	-	-	-	-	-	-	-	-
<b>West South Central Total</b> .....	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>21</b>	<b>-</b>	<b>-</b>	<b>-</b>
Texas .....	-	-	-	-	-	21	-	-	-
<b>Mountain Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Utah .....	w	w	w	w	w	w	w	w	w
<b>U.S. Total</b> .....	<b>1,943</b>	<b>2,026</b>	<b>1,978</b>	<b>2,667</b>	<b>2,632</b>	<b>3,329</b>	<b>-4.1</b>	<b>-7.3</b>	<b>-5.8</b>

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

**Table 75. Coal Consumption by Residential and Commercial Sector, by Census Division and State, 1990, 1995-1999**  
(Thousand Short Tons)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England Total</b> .....	<b>w</b>	<b>w</b>	<b>51</b>	<b>55</b>	<b>69</b>	<b>142</b>	<b>w</b>	<b>w</b>	<b>w</b>
Connecticut.....	5	6	w	w	w	w	-19.8	w	w
Maine.....	w	w	w	w	w	w	w	w	w
Massachusetts.....	w	w	w	w	w	w	w	w	w
New Hampshire.....	w	w	w	w	w	w	w	w	w
Rhode Island.....	w	w	w	w	w	w	w	w	w
Vermont.....	w	w	w	w	w	w	w	w	w
<b>Middle Atlantic Total</b> .....	<b>875</b>	<b>993</b>	<b>1,504</b>	<b>1,285</b>	<b>1,416</b>	<b>1,594</b>	<b>-11.9</b>	<b>-11.3</b>	<b>-6.4</b>
New Jersey.....	w	w	w	w	w	w	w	w	w
New York.....	w	w	w	w	w	w	w	w	w
Pennsylvania.....	690	841	1,244	995	1,188	1,308	-17.9	-12.7	-6.8
<b>East North Central Total</b> .....	<b>918</b>	<b>1,272</b>	<b>1,370</b>	<b>1,574</b>	<b>1,301</b>	<b>1,743</b>	<b>-27.8</b>	<b>-8.3</b>	<b>-6.9</b>
Illinois.....	w	w	w	w	w	w	w	w	w
Indiana.....	343	371	395	356	287	551	-7.5	4.6	-5.1
Michigan.....	w	w	w	w	w	w	w	w	w
Ohio.....	217	391	329	656	409	654	-44.4	-14.6	-11.5
Wisconsin.....	w	w	w	w	w	w	w	w	w
<b>West North Central Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Iowa.....	389	279	374	222	90	245	39.4	44.3	5.3
Kansas.....	7	*	2	78	38	*	NM	-35.1	38.1
Minnesota.....	15	42	105	156	264	179	-65.1	-51.5	-24.3
Missouri.....	w	w	w	w	w	w	w	w	w
Nebraska.....	w	w	w	w	w	w	w	w	w
North Dakota.....	w	w	w	w	w	w	w	w	w
South Dakota.....	w	w	w	w	w	w	w	w	w
<b>South Atlantic Total</b> .....	<b>755</b>	<b>640</b>	<b>598</b>	<b>803</b>	<b>954</b>	<b>744</b>	<b>18.0</b>	<b>-5.7</b>	<b>.2</b>
Delaware.....	w	w	w	w	w	w	w	w	w
District of Columbia.....	6	6	40	23	6	69	-2.6	1.3	-23.8
Florida.....	6	6	-	1	5	15.3	49.3	3.7	3.7
Georgia.....	17	11	17	3	59	22	51.3	-27.4	-3.3
Maryland.....	w	w	w	w	w	w	w	w	w
North Carolina.....	150	200	192	206	224	156	-25.1	-9.5	-4
South Carolina.....	237	23	1	19	17	6	NM	93.6	49.3
Virginia.....	w	w	w	w	w	w	w	w	w
West Virginia.....	w	w	w	w	w	w	w	w	w
<b>East South Central Total</b> .....	<b>522</b>	<b>266</b>	<b>557</b>	<b>272</b>	<b>283</b>	<b>473</b>	<b>96.4</b>	<b>16.5</b>	<b>1.1</b>
Alabama.....	23	9	73	44	7	105	144.0	33.8	-15.5
Kentucky.....	w	w	w	w	w	w	w	w	w
Mississippi.....	-	w	w	-	-	w	-	-	-
Tennessee.....	w	w	w	w	w	w	w	w	w
<b>West South Central Total</b> .....	<b>11</b>	<b>15</b>	<b>291</b>	<b>1</b>	<b>17</b>	<b>11</b>	<b>-28.5</b>	<b>-10.3</b>	<b>*</b>
Arkansas.....	*	*	*	-	-	*	83.3	-	-15.6
Louisiana.....	w	w	w	-	w	w	w	w	-
Oklahoma.....	w	w	w	w	w	w	w	w	w
Texas.....	8	14	*	-	-	10	-41.4	-	-2.4
<b>Mountain Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Arizona.....	*	*	*	*	5	*	-83.5	-67.5	-9.0
Colorado.....	102	18	65	13	20	58	481.0	51.0	6.5
Idaho.....	55	58	30	28	39	61	-4.5	9.1	-1.1
Montana.....	w	w	w	w	w	w	w	w	w
Nevada.....	w	w	w	w	w	w	w	w	w
New Mexico.....	w	w	w	w	w	w	w	w	w
Utah.....	w	w	w	w	w	w	w	w	w
Wyoming.....	104	159	140	382	146	130	-34.6	-8.0	-2.4
<b>Pacific Total</b> .....	<b>597</b>	<b>659</b>	<b>634</b>	<b>675</b>	<b>734</b>	<b>586</b>	<b>-9.5</b>	<b>-5.0</b>	<b>.2</b>
Alaska.....	553	530	503	474	523	494	4.3	1.4	1.3
California.....	28	115	109	177	133	25	-76.1	-32.5	1.0
Hawaii.....	w	w	w	w	w	w	w	w	w
Oregon.....	w	w	w	w	w	w	w	w	w
Washington.....	17	14	22	23	78	66	21.3	-32.0	-14.2
<b>U.S. Total</b> .....	<b>4,879</b>	<b>4,856</b>	<b>6,463</b>	<b>6,006</b>	<b>5,807</b>	<b>6,724</b>	<b>.5</b>	<b>-4.3</b>	<b>-3.5</b>

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

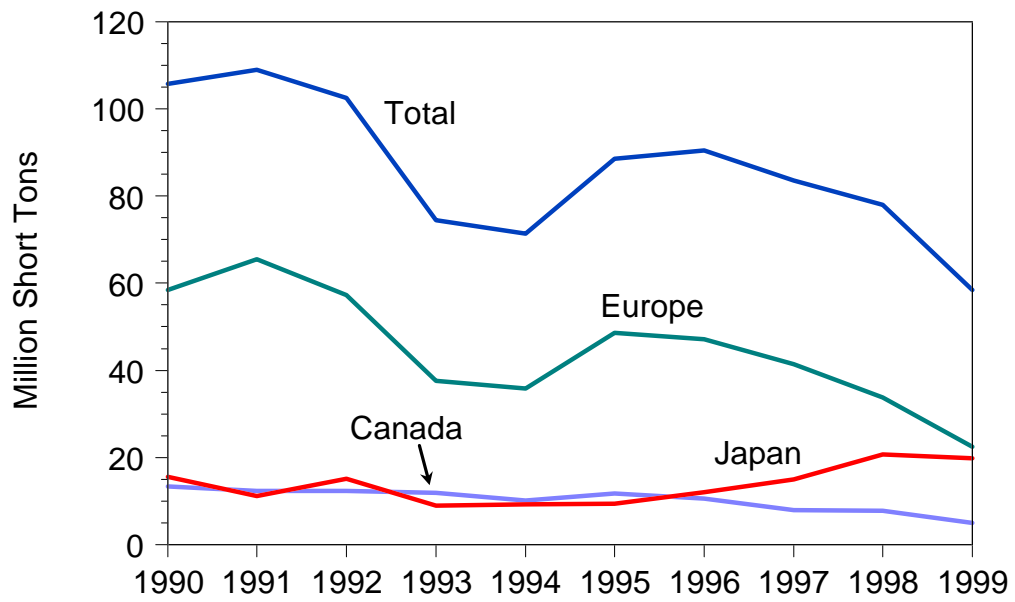
NM Not meaningful as value is greater than 500 percent.

Note: Totals may not equal sum of components due to independent rounding. Regional totals for 1990 may not sum to the U.S. total due to distribution of coal to unknown State.

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

# Foreign Markets

Figure 11. U.S. Coal Exports, 1990-1999



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

**Table 76. U.S. Coal Exports by Destination, 1990, 1995-1999**  
(Thousand Short Tons)

Continent and Country of Destination	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>21,244</b>	<b>22,316</b>	<b>16,947</b>	<b>13,609</b>	<b>10,411</b>	<b>15,859</b>	<b>-4.8</b>	<b>19.5</b>	<b>3.3</b>
Canada <sup>1</sup> .....	19,826	20,654	14,975	12,029	9,427	15,511	-4.0	20.4	2.8
Mexico .....	1,411	1,543	1,899	1,509	871	210	-8.6	12.8	23.5
Other <sup>2</sup> .....	7	119	73	72	113	137	-93.8	-49.3	-27.7
<b>South America Total</b> .....	<b>4,521</b>	<b>7,034</b>	<b>8,214</b>	<b>7,505</b>	<b>6,968</b>	<b>6,902</b>	<b>-35.7</b>	<b>-10.3</b>	<b>-4.6</b>
Brazil .....	4,442	6,475	7,455	6,540	6,351	5,847	-31.4	-8.5	-3.0
Other <sup>2</sup> .....	78	559	760	965	618	1,055	-86.0	-40.3	-25.1
<b>Europe Total</b> .....	<b>22,508</b>	<b>33,773</b>	<b>41,331</b>	<b>47,193</b>	<b>48,620</b>	<b>58,382</b>	<b>-33.3</b>	<b>-17.5</b>	<b>-10.0</b>
Belgium & Luxembourg .....	2,073	3,195	4,319	4,569	4,501	8,500	-35.1	-17.6	-14.5
Bulgaria .....	522	989	1,114	1,387	1,339	88	-47.2	-21.0	21.9
Finland .....	233	463	662	704	1,308	95	-49.6	-35.0	10.4
France .....	2,522	3,192	3,398	3,852	3,659	6,879	-21.0	-8.9	-10.5
Germany, FR .....	573	1,247	870	1,055	1,953	1,057	-54.0	-26.4	-6.6
Iceland .....	51	39	54	62	39	47	31.3	6.9	1.0
Ireland .....	868	1,150	637	765	914	1,458	-24.5	-1.3	-5.6
Italy .....	4,014	5,317	7,019	9,204	9,063	11,947	-24.5	-18.4	-11.4
Netherlands .....	3,432	4,516	4,825	7,058	7,301	8,369	-24.0	-17.2	-9.4
Norway .....	86	93	96	85	120	177	-7.4	-7.9	-7.7
Portugal .....	745	746	1,470	1,803	1,752	1,786	-1	-19.3	-9.3
Romania .....	322	1,097	2,244	1,512	1,984	1,718	-70.7	-36.5	-17.0
Spain .....	2,472	3,156	4,134	4,093	4,653	3,791	-21.7	-14.6	-4.6
Sweden .....	638	757	834	1,070	1,117	866	-15.6	-13.1	-3.3
Turkey .....	795	1,592	2,092	2,167	2,011	2,117	-50.1	-20.7	-10.3
United Kingdom .....	3,162	5,947	7,185	6,196	4,726	5,177	-46.8	-9.5	-5.3
Other <sup>2</sup> .....	1	277	379	1,612	2,179	4,310	-99.6	-85.1	-60.2
<b>Asia Total</b> .....	<b>9,157</b>	<b>12,311</b>	<b>14,498</b>	<b>17,980</b>	<b>19,095</b>	<b>22,725</b>	<b>-25.6</b>	<b>-16.8</b>	<b>-9.6</b>
China (Taiwan) .....	1,215	1,519	2,241	2,441	2,533	4,604	-20.0	-16.8	-13.8
Israel .....	603	527	593	1,202	760	639	14.3	-5.6	-6
Japan .....	4,953	7,734	7,974	10,529	11,787	13,338	-35.9	-19.5	-10.4
Korea, Republic of .....	2,365	2,453	3,489	3,773	4,012	3,999	-3.6	-12.4	-5.7
Other <sup>2</sup> .....	21	78	201	36	2	145	-72.9	73.7	-19.3
<b>Oceania &amp; Australia Total</b> .....	<b>*</b>	<b>5</b>	<b>1</b>	<b>1</b>	<b>*</b>	<b>3</b>	<b>-98.3</b>	<b>-22.0</b>	<b>-32.1</b>
Other <sup>2</sup> .....	*	5	1	1	*	3	-98.3	-22.0	-32.1
<b>Africa Total</b> .....	<b>1,046</b>	<b>2,609</b>	<b>2,554</b>	<b>4,184</b>	<b>3,453</b>	<b>1,933</b>	<b>-59.9</b>	<b>-25.8</b>	<b>-6.6</b>
Algeria .....	317	343	264	177	220	479	-7.6	9.6	-4.5
Egypt .....	260	891	1,130	1,038	1,235	646	-70.8	-32.3	-9.6
South Africa, Rep of .....	469	1,299	987	1,320	786	55	-63.9	-12.1	26.8
Other <sup>2</sup> .....	*	76	173	1,650	1,212	752	-99.9	-91.1	-64.0
<b>Total</b> .....	<b>58,476</b>	<b>78,048</b>	<b>83,545</b>	<b>90,473</b>	<b>88,547</b>	<b>105,804</b>	<b>-25.1</b>	<b>-9.8</b>	<b>-6.4</b>

<sup>1</sup> 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.

<sup>2</sup> Includes countries with exports less than or equal to 50,000 short tons in 1999.

\* Data round to zero.

Note: Totals may not equal sum of components due to independent rounding.

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



**Table 77. U.S. Metallurgical Coal Exports by Destination, 1990, 1995-1999**

(Thousand Short Tons)

Continent and Country of Destination	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>4,277</b>	<b>4,947</b>	<b>5,355</b>	<b>6,500</b>	<b>4,776</b>	<b>4,399</b>	<b>-13.5</b>	<b>-2.7</b>	<b>-0.3</b>
Canada <sup>1</sup> .....	4,277	4,927	4,891	6,030	4,452	4,396	-13.2	-1.0	-3
Mexico .....	1	20	463	470	324	3	-96.9	-79.1	-15.9
Other <sup>2</sup> .....	*	-	-	-	-	*	-	-	-16.8
<b>South America Total</b> .....	<b>4,424</b>	<b>6,822</b>	<b>7,641</b>	<b>6,814</b>	<b>6,778</b>	<b>6,468</b>	<b>-35.1</b>	<b>-10.1</b>	<b>-4.1</b>
Brazil .....	4,418	6,458	7,364	6,445	6,336	5,753	-31.6	-8.6	-2.9
Other <sup>2</sup> .....	6	363	277	368	442	715	-98.4	-65.9	-41.3
<b>Europe Total</b> .....	<b>18,313</b>	<b>26,002</b>	<b>28,802</b>	<b>28,253</b>	<b>27,282</b>	<b>36,690</b>	<b>-29.6</b>	<b>-9.5</b>	<b>-7.4</b>
Belgium & Luxembourg .....	2,020	2,925	3,372	3,445	3,468	6,098	-30.9	-12.6	-11.5
Bulgaria .....	522	989	1,114	1,214	1,339	49	-47.2	-21.0	30.1
Finland .....	233	463	501	540	724	95	-49.6	-24.7	10.4
France .....	2,491	3,103	3,056	3,084	3,155	4,961	-19.7	-5.7	-7.4
Germany, FR .....	136	380	650	538	231	701	-64.1	-12.3	-16.6
Iceland .....	51	39	54	54	39	31	31.3	6.9	5.8
Ireland .....	-	-	121	-	-	-	-	-	-
Italy .....	3,998	4,554	4,581	5,293	4,504	7,029	-12.2	-2.9	-6.1
Netherlands .....	2,569	4,115	4,114	4,142	3,978	3,975	-37.6	-10.3	-4.7
Norway .....	86	86	90	61	92	109	.3	-1.6	-2.6
Portugal .....	369	278	214	174	30	258	32.5	86.8	4.0
Romania .....	322	1,097	2,148	1,512	1,685	1,718	-70.7	-33.9	-17.0
Spain .....	1,676	2,398	2,251	2,103	2,178	3,479	-30.1	-6.3	-7.8
Sweden .....	638	757	834	987	1,109	843	-15.6	-12.9	-3.0
Turkey .....	794	1,589	2,087	2,027	1,806	2,101	-50.1	-18.6	-10.3
United Kingdom .....	2,407	3,228	3,615	3,081	2,932	4,090	-25.4	-4.8	-5.7
Other <sup>2</sup> .....	-	-	*	-	13	1,153	-	-100.0	-100.0
<b>Asia Total</b> .....	<b>4,068</b>	<b>6,788</b>	<b>7,978</b>	<b>8,814</b>	<b>11,014</b>	<b>14,721</b>	<b>-40.1</b>	<b>-22.0</b>	<b>-13.3</b>
China (Taiwan) .....	126	345	555	376	370	394	-63.4	-23.6	-11.9
Israel .....	-	73	137	265	141	55	-100.0	-100.0	-100.0
Japan .....	2,217	4,329	4,791	5,552	7,929	11,044	-48.8	-27.3	-16.3
Korea, Republic of .....	1,713	2,029	2,472	2,597	2,574	3,206	-15.6	-9.7	-6.7
Other <sup>2</sup> .....	12	12	23	24	-	23	*	-	-6.7
<b>Oceania &amp; Australia Total</b> .....	<b>-</b>	<b>3</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-100.0</b>	<b>-</b>	<b>-100.0</b>
Other <sup>2</sup> .....	-	3	-	-	-	1	-100.0	-	-100.0
<b>Africa Total</b> .....	<b>1,046</b>	<b>2,532</b>	<b>2,379</b>	<b>2,570</b>	<b>2,239</b>	<b>1,180</b>	<b>-58.7</b>	<b>-17.3</b>	<b>-1.3</b>
Algeria .....	317	343	264	177	220	479	-7.6	9.6	-4.5
Egypt .....	260	890	1,128	1,037	1,233	646	-70.8	-32.3	-9.6
South Africa, Rep of .....	469	1,299	987	1,320	786	55	-63.9	-12.1	26.8
Other <sup>2</sup> .....	-	-	-	37	-	-	-	-	-
<b>Total</b> .....	<b>32,128</b>	<b>47,093</b>	<b>52,154</b>	<b>52,950</b>	<b>52,089</b>	<b>63,459</b>	<b>-31.8</b>	<b>-11.4</b>	<b>-7.3</b>

<sup>1</sup> 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.

<sup>2</sup> Includes countries with exports less than or equal to 50,000 short tons in 1999.

\* Data round to zero.

Note: Totals may not equal sum of components due to independent rounding.

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

**Table 78. U.S. Steam Coal Exports by Destination, 1990, 1995-1999**

(Thousand Short Tons)

Continent and Country of Destination	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>16,967</b>	<b>17,368</b>	<b>11,592</b>	<b>7,110</b>	<b>5,635</b>	<b>11,460</b>	<b>-2.3</b>	<b>31.7</b>	<b>4.4</b>
Canada <sup>1</sup> .....	15,549	15,727	10,084	5,999	4,975	11,115	-1.1	33.0	3.8
Mexico .....	1,410	1,522	1,435	1,039	547	208	-7.4	26.7	23.7
Other <sup>2</sup> .....	7	119	73	72	113	137	-93.8	-49.4	-27.7
<b>South America Total</b> .....	<b>96</b>	<b>213</b>	<b>573</b>	<b>691</b>	<b>190</b>	<b>435</b>	<b>-54.6</b>	<b>-15.6</b>	<b>-15.4</b>
Brazil .....	24	17	90	95	15	94	46.5	13.2	-14.0
Other <sup>2</sup> .....	72	196	482	596	176	340	-63.1	-19.9	-15.8
<b>Europe Total</b> .....	<b>4,195</b>	<b>7,771</b>	<b>12,530</b>	<b>18,940</b>	<b>21,338</b>	<b>21,692</b>	<b>-46.0</b>	<b>-33.4</b>	<b>-16.7</b>
Belgium & Luxembourg .....	53	270	947	1,125	1,033	2,402	-80.4	-52.4	-34.5
Bulgaria .....	-	-	-	173	-	39	-	-	-100.0
Finland .....	-	-	160	164	584	-	-	-100.0	-
France .....	30	89	342	769	503	1,918	-65.8	-50.5	-36.9
Germany, FR .....	437	867	221	517	1,722	356	-49.6	-29.0	2.3
Iceland .....	-	-	-	8	-	16	-	-	-100.0
Ireland .....	868	1,150	516	765	914	1,458	-24.5	-1.3	-5.6
Italy .....	15	764	2,438	3,911	4,559	4,917	-98.0	-75.9	-47.4
Netherlands .....	862	401	711	2,917	3,323	4,393	115.1	-28.6	-16.5
Norway .....	-	7	7	24	28	68	-100.0	-100.0	-100.0
Portugal .....	377	468	1,256	1,628	1,722	1,528	-19.5	-31.6	-14.4
Romania .....	-	-	96	-	299	-	-	-100.0	-
Spain .....	796	758	1,883	1,990	2,475	312	5.0	-24.7	10.9
Sweden .....	-	-	-	83	9	23	-	-100.0	-100.0
Turkey .....	1	3	5	140	206	17	-55.9	-71.4	-24.2
United Kingdom .....	755	2,719	3,570	3,115	1,795	1,088	-72.2	-19.4	-4.0
Other <sup>2</sup> .....	1	277	379	1,612	2,166	3,157	-99.6	-85.1	-58.8
<b>Asia Total</b> .....	<b>5,089</b>	<b>5,523</b>	<b>6,520</b>	<b>9,166</b>	<b>8,081</b>	<b>8,004</b>	<b>-7.9</b>	<b>-10.9</b>	<b>-4.9</b>
China (Taiwan) .....	1,089	1,174	1,686	2,066	2,163	4,211	-7.3	-15.8	-13.9
Israel .....	603	454	456	936	620	584	32.8	-7	.3
Japan .....	2,736	3,406	3,183	4,976	3,858	2,294	-19.6	-8.2	2.0
Korea, Republic of .....	652	424	1,017	1,175	1,438	793	53.8	-17.9	-2.1
Other <sup>2</sup> .....	9	66	178	12	2	122	-86.4	40.1	-25.3
<b>Oceania &amp; Australia Total</b> .....	<b>*</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>*</b>	<b>2</b>	<b>-95.9</b>	<b>-22.0</b>	<b>-30.4</b>
Other <sup>2</sup> .....	*	2	1	1	*	2	-95.9	-22.0	-30.4
<b>Africa Total</b> .....	<b>*</b>	<b>77</b>	<b>175</b>	<b>1,615</b>	<b>1,214</b>	<b>753</b>	<b>-99.9</b>	<b>-91.1</b>	<b>-64.0</b>
Egypt .....	-	1	2	1	2	*	-100.0	-100.0	-100.0
South Africa, Rep of .....	-	-	-	-	*	-	-	-100.0	-
Other <sup>2</sup> .....	*	76	173	1,614	1,212	752	-99.9	-91.1	-64.0
<b>Total</b> .....	<b>26,347</b>	<b>30,954</b>	<b>31,390</b>	<b>37,522</b>	<b>36,458</b>	<b>42,345</b>	<b>-14.9</b>	<b>-7.8</b>	<b>-5.1</b>

<sup>1</sup> 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.

<sup>2</sup> Includes countries with exports less than or equal to 50,000 short tons in 1999.

\* Data round to zero.

Note: Totals may not equal sum of components due to independent rounding.

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

**Table 79. Coal Exports by Customs District, 1990, 1995-1999**  
(Thousand Short Tons)

Customs District	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Eastern Total</b> .....	<b>32,444</b>	<sup>R</sup> <b>48,668</b>	<b>52,806</b>	<b>58,161</b>	<b>55,374</b>	<b>66,160</b>	<b>-33.3</b>	<b>-12.5</b>	<b>-7.6</b>
Boston, MA.....	-	-	22	-	33	54	-	-100.0	-100.0
Baltimore, MD.....	4,834	6,576	6,297	11,221	11,313	7,786	-26.5	-19.1	-5.1
Portland, ME.....	396	400	1	*	57	1	-1.0	62.1	99.7
Buffalo, NY.....	3,118	<sup>R</sup> 5,144	3,594	2,263	1,574	503	-39.4	18.6	22.5
New York City, NY.....	1	<sup>R</sup> 9	3	6	87	17	-84.4	-64.1	-24.1
Ogdensburg, NY.....	117	<sup>R</sup> 85	92	116	163	54	38.8	-7.9	9.0
Philadelphia, PA.....	167	202	265	406	339	3,237	-17.0	-16.2	-28.0
Norfolk, VA.....	23,810	36,252	42,533	44,148	41,808	54,508	-34.3	-13.1	-8.8
St. Albans, VT.....	*	-	1	1	*	-	-	55.7	-
<b>Southern Total</b> .....	<b>7,091</b>	<sup>R</sup> <b>11,261</b>	<b>15,327</b>	<b>16,077</b>	<b>19,936</b>	<b>21,988</b>	<b>-37.0</b>	<b>-22.8</b>	<b>-11.8</b>
Mobile, AL.....	2,683	4,537	5,379	5,897	8,283	7,607	-40.9	-24.6	-10.9
Savannah, GA.....	1	2	37	-	4	*	-30.3	-27.1	21.0
Miami, FL.....	1	2	1	2	2	1	-49.8	-11.6	-2.3
Tampa, FL.....	-	*	*	-	1	19	-100.0	-100.0	-100.0
New Orleans, LA.....	2,923	<sup>R</sup> 4,848	7,639	8,669	10,522	12,811	-39.7	-27.4	-15.1
Wilmington, NC.....	*	*	*	*	-	-	NM	-	-
San Juan, PR.....	28	40	83	*	*	-	-28.5	327.5	-
Charleston, SC.....	3	*	164	154	401	1,193	NM	-69.4	-47.7
El Paso, TX.....	-	-	*	-	*	-	-	-100.0	-
Houston-Galveston, TX.....	74	299	560	297	179	154	-75.4	-19.9	-7.9
Laredo, TX.....	1,377	<sup>R</sup> 1,533	1,463	1,057	542	201	-10.2	26.2	23.8
<b>Western Total</b> .....	<b>3,698</b>	<sup>R</sup> <b>3,793</b>	<b>4,771</b>	<b>6,832</b>	<b>5,527</b>	<b>3,009</b>	<b>-2.5</b>	<b>-9.6</b>	<b>2.3</b>
Anchorage, AK.....	618	343	740	784	919	793	80.0	-9.4	-2.7
Nogales, AZ.....	*	*	-	*	-	3	104.5	-	-36.5
Los Angeles, CA.....	3,049	3,440	3,785	5,899	4,475	1,936	-11.4	-9.1	5.2
San Diego, CA.....	12	3	*	-	*	3	350.8	261.6	14.9
San Francisco, CA.....	*	3	104	1	*	188	-93.1	-14.3	-53.2
Great Falls, MT.....	3	3	1	*	*	*	-3.5	80.2	40.8
Portland, OR.....	15	-	41	-	-	4	-	-	15.4
Seattle, WA.....	1	<sup>R</sup> 1	100	147	132	82	15.2	-68.2	-36.7
<b>Northern Total</b> .....	<b>15,220</b>	<sup>R</sup> <b>14,291</b>	<b>10,616</b>	<b>9,358</b>	<b>7,688</b>	<b>14,622</b>	<b>6.5</b>	<b>18.6</b>	<b>.4</b>
Chicago, IL.....	5	-	21	-	-	47	-	-	-21.7
Detroit, MI.....	1,974	<sup>R</sup> 2,485	2,283	3,804	1,845	3,901	-20.6	1.7	-7.3
Duluth, MN.....	3,319	1,093	128	247	210	504	203.6	99.3	23.3
Pembina, ND.....	59	<sup>R</sup> 63	1	1	19	*	-5.3	33.3	81.0
Cleveland, OH.....	9,863	10,651	8,183	5,306	5,614	10,073	-7.4	15.1	-2
Milwaukee, WI.....	-	*	-	-	-	96	-100.0	-	-100.0
<b>Other Ports</b> .....	<b>23</b>	<sup>R</sup> <b>35</b>	<b>25</b>	<b>45</b>	<b>22</b>	<b>25</b>	<b>-33.7</b>	<b>.8</b>	<b>-9</b>
<b>Total</b> .....	<b>58,476</b>	<b>78,048</b>	<b>83,545</b>	<b>90,473</b>	<b>88,547</b>	<b>105,804</b>	<b>-25.1</b>	<b>-9.8</b>	<b>-6.4</b>

\* Data round to zero.

<sup>R</sup> Revised Data.

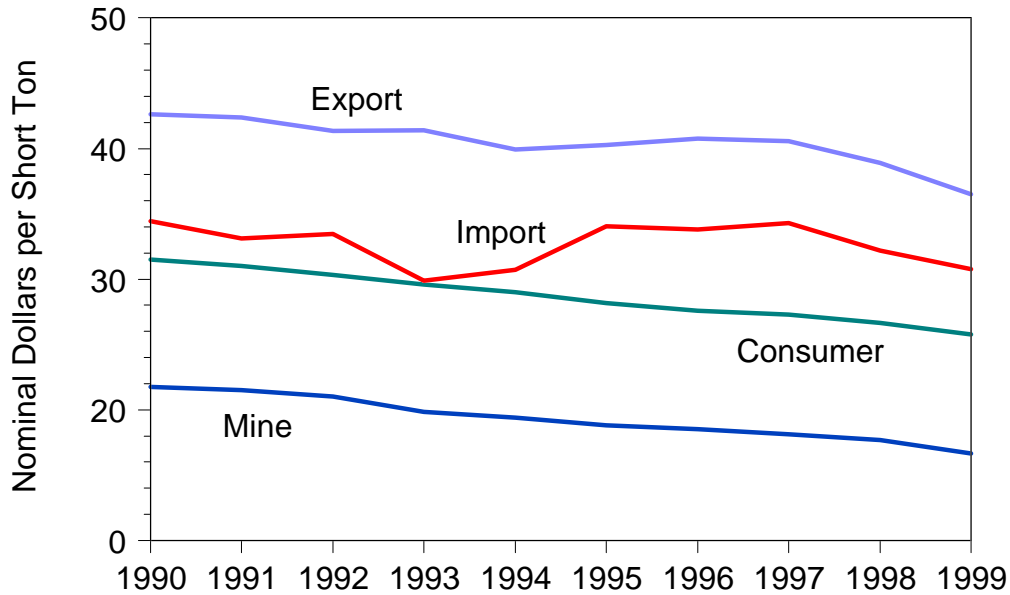
<sup>NM</sup> Not meaningful as value is greater than 500 percent.

Note: Totals may not equal sum of components due to independent rounding.

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

# Coal Prices

**Figure 12. Coal Prices, 1990-1999**



Notes: Average mine prices exclude mines producing less than 10,000 short tons of coal during the year. Mine Price is calculated by dividing the total free on board (f.o.b.) mine value of the coal produced by the total production. Consumer Price is based on the cost including insurance and freight (C.I.F. cost) for electric utilities, and insurance, freight and taxes for manufacturing and coke plants, and does not include the residential and commercial sector. Export Price is based on the free alongside ship (f.a.s.) value. Import Price is based on the customers import value.

Sources: • Mine Price: Energy Information Administration (EIA), Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report." • Consumer Prices: Federal Regulatory Commission (FERC), FERC Form 423, "Monthly Report on Cost and Quality of Fuels for Electric Plants"; EIA, Form EIA-5, "Coke Plant Report - Quarterly" and Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants." • Export Prices: U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545." • Import Prices: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145."

# Mine Prices

**Table 80. Average Price of Coal by State, 1990, 1995-1999**  
(Nominal Dollars per Short Ton)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	\$35.29	\$37.23	\$38.48	\$39.48	\$38.44	\$43.04	-5.2	-2.1	-2.2
Alaska.....	w	w	w	w	w	w	w	w	w
Arizona.....	w	w	w	w	w	w	w	w	w
Arkansas.....	w	w	w	-	w	w	w	w	w
California.....	-	-	-	-	-	w	-	-	-
Colorado.....	\$17.23	\$17.30	\$18.46	\$17.94	\$19.26	\$21.75	-4	-2.7	-2.5
Illinois.....	22.90	22.86	21.44	22.74	23.05	27.73	.2	-2	-2.1
Indiana.....	19.99	19.68	19.62	20.24	21.71	23.91	1.6	-2.0	-2.0
Iowa.....	-	-	-	-	-	w	-	-	-
Kansas.....	w	w	w	w	w	w	w	w	w
Kentucky Total.....	\$23.50	\$23.82	\$23.72	\$23.91	\$24.79	\$25.19	-1.3	-1.3	-8
Eastern.....	24.14	24.59	24.65	24.98	26.00	25.84	-1.8	-1.8	-8
Western.....	21.15	21.01	20.49	20.38	20.75	23.32	.7	.5	-1.1
Louisiana.....	w	w	w	w	w	w	w	w	w
Maryland.....	\$23.27	\$24.35	\$23.26	\$24.40	\$24.69	\$25.97	-4.4	-1.5	-1.2
Mississippi.....	w	-	-	-	-	-	-	-	-
Missouri.....	w	20.78	16.87	23.31	18.91	w	w	w	w
Montana.....	\$8.82	8.25	9.84	9.96	9.62	\$9.42	6.8	-2.2	-7
New Mexico.....	20.97	20.68	21.83	24.66	23.80	22.43	1.4	-3.1	-7
North Dakota.....	8.01	8.01	8.06	8.01	7.99	7.67	*	*	.5
Ohio.....	28.18	27.56	23.66	24.85	25.97	28.65	2.3	2.1	-2
Oklahoma.....	26.70	26.02	26.32	26.54	24.13	30.39	2.6	2.5	-1.4
Pennsylvania Total.....	24.14	R 25.79	25.98	25.78	26.78	30.15	-6.4	-2.6	-2.4
Anthracite.....	35.13	42.91	35.12	36.78	39.78	39.40	-18.1	-3.1	-1.3
Bituminous.....	23.43	R 24.66	25.41	24.98	25.77	29.72	-5.0	-2.3	-2.6
Tennessee.....	29.24	28.69	27.03	27.79	26.94	27.96	1.9	2.1	.5
Texas.....	12.46	12.47	12.15	12.17	12.16	11.20	*	.6	1.2
Utah.....	17.33	18.47	17.61	21.63	19.10	18.53	-6.2	-2.4	-7
Virginia.....	26.30	28.69	28.24	28.45	28.47	28.05	-8.3	-1.9	-7
Washington.....	w	w	w	w	w	w	w	w	w
West Virginia Total.....	\$25.57	\$27.07	\$26.64	\$26.58	\$27.18	\$28.62	-5.6	-1.5	-1.2
Northern.....	22.98	25.62	25.86	24.86	24.91	29.05	-10.3	-2.0	-2.6
Southern.....	26.39	27.57	26.90	27.21	28.07	28.40	-4.3	-1.5	-8
Wyoming.....	5.38	5.41	6.00	6.41	6.58	8.43	-7	-4.9	-4.9
<b>Appalachian Total<sup>1</sup>.....</b>	<b>25.58</b>	R <b>26.84</b>	<b>26.55</b>	<b>26.78</b>	<b>27.45</b>	<b>28.89</b>	<b>-4.7</b>	<b>-1.7</b>	<b>-1.3</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>18.52</b>	<b>18.45</b>	<b>17.91</b>	<b>18.41</b>	<b>18.81</b>	<b>21.45</b>	<b>.4</b>	<b>-.4</b>	<b>-1.6</b>
<b>Western Total<sup>1</sup>.....</b>	<b>8.59</b>	<b>8.76</b>	<b>9.52</b>	<b>10.03</b>	<b>10.15</b>	<b>11.60</b>	<b>-2.0</b>	<b>-4.1</b>	<b>-3.3</b>
<b>East of Miss. River.....</b>	<b>24.77</b>	R <b>25.77</b>	<b>25.39</b>	<b>25.70</b>	<b>26.35</b>	<b>28.09</b>	<b>-3.9</b>	<b>-1.5</b>	<b>-1.4</b>
<b>West of Miss. River.....</b>	<b>9.07</b>	<b>9.25</b>	<b>9.92</b>	<b>10.40</b>	<b>10.48</b>	<b>11.81</b>	<b>-1.9</b>	<b>-3.5</b>	<b>-2.9</b>
<b>U.S. Total.....</b>	<b>16.63</b>	<b>17.67</b>	<b>18.14</b>	<b>18.50</b>	<b>18.83</b>	<b>21.76</b>	<b>-5.8</b>	<b>-3.0</b>	<b>-2.9</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

Notes: For 1997 and prior years, average mine price is calculated by dividing the total free on board (f.o.b.) mine value of the coal produced by the total production. For 1998 and forward, average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. A measure of dispersion of the 1999 average prices at the State level (interquartile range) is given in Appendix D, Table D1. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 81. Average Real Price of Coal by State, 1990, 1995-1999**  
(Real Dollars per Short Ton)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	\$33.74	\$36.11	\$37.75	\$39.48	\$39.19	\$49.75	-6.6	-3.7	-4.2
Alaska.....	w	w	w	w	w	w	w	w	w
Arizona.....	w	w	w	w	w	w	w	w	w
Arkansas.....	w	w	w	-	w	w	w	w	w
California.....	-	-	-	-	-	w	-	-	-
Colorado.....	\$16.47	\$16.78	\$18.12	\$17.94	\$19.63	\$25.15	-1.8	-4.3	-4.6
Illinois.....	21.89	22.17	21.03	22.74	23.50	32.05	-1.3	-1.8	-4.1
Indiana.....	19.11	19.08	19.25	20.24	22.13	27.64	.1	-3.6	-4.0
Iowa.....	-	-	-	-	-	w	-	-	-
Kansas.....	w	w	w	w	w	w	w	w	w
Kentucky Total.....	\$22.47	\$23.10	\$23.27	\$23.91	\$25.27	\$29.12	-2.7	-2.9	-2.8
Eastern.....	23.07	23.84	24.19	24.98	26.50	29.87	-3.2	-3.4	-2.8
Western.....	20.22	20.37	20.11	20.38	21.15	26.96	-8	-1.1	-3.1
Louisiana.....	w	w	w	w	w	w	w	w	w
Maryland.....	\$22.24	\$23.62	\$22.82	\$24.40	\$25.17	\$30.02	-5.8	-3.0	-3.3
Mississippi.....	w	-	-	-	-	-	-	-	-
Missouri.....	w	20.15	16.55	23.31	19.27	w	w	w	w
Montana.....	\$8.43	8.01	9.66	9.96	9.81	\$10.89	5.3	-3.7	-2.8
New Mexico.....	20.05	20.05	21.42	24.66	24.26	25.92	*	-4.6	-2.8
North Dakota.....	7.65	7.77	7.91	8.01	8.15	8.87	-1.5	-1.5	-1.6
Ohio.....	26.94	26.72	23.21	24.85	26.47	33.11	.8	.4	-2.3
Oklahoma.....	25.52	25.23	25.83	26.54	24.60	35.13	1.1	.9	-3.5
Pennsylvania Total.....	23.08	25.01	25.49	25.78	27.30	34.85	-7.7	-4.1	-4.5
Anthracite.....	33.58	41.62	34.46	36.78	40.55	45.55	-19.3	-4.6	-3.3
Bituminous.....	22.40	23.92	24.93	24.98	26.27	34.35	-6.3	-3.9	-4.6
Tennessee.....	27.95	27.83	26.53	27.79	27.46	32.31	.4	.4	-1.6
Texas.....	11.91	12.09	11.93	12.17	12.40	12.94	-1.5	-1.0	-9
Utah.....	16.56	17.91	17.28	21.63	19.47	21.42	-7.5	-4.0	-2.8
Virginia.....	25.15	27.82	27.71	28.45	29.02	32.43	-9.6	-3.5	-2.8
Washington.....	w	w	w	w	w	w	w	w	w
West Virginia Total.....	\$24.44	\$26.25	\$26.14	\$26.58	\$27.71	\$33.08	-6.9	-3.1	-3.3
Northern.....	21.97	24.85	25.38	24.86	25.40	33.58	-11.6	-3.6	-4.6
Southern.....	25.23	26.74	26.39	27.21	28.62	32.83	-5.6	-3.1	-2.9
Wyoming.....	5.14	5.25	5.89	6.41	6.70	9.74	-2.1	-6.4	-6.9
<b>Appalachian Total<sup>1</sup>.....</b>	<b>24.45</b>	<b>26.03</b>	<b>26.05</b>	<b>26.78</b>	<b>27.98</b>	<b>33.39</b>	<b>-6.0</b>	<b>-3.3</b>	<b>-3.4</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>17.71</b>	<b>17.89</b>	<b>17.58</b>	<b>18.41</b>	<b>19.17</b>	<b>24.79</b>	<b>-1.0</b>	<b>-2.0</b>	<b>-3.7</b>
<b>Western Total<sup>1</sup>.....</b>	<b>8.21</b>	<b>8.50</b>	<b>9.35</b>	<b>10.03</b>	<b>10.35</b>	<b>13.41</b>	<b>-3.4</b>	<b>-5.6</b>	<b>-5.3</b>
<b>East of Miss. River.....</b>	<b>23.68</b>	<b>24.99</b>	<b>24.92</b>	<b>25.70</b>	<b>26.86</b>	<b>32.47</b>	<b>-5.2</b>	<b>-3.1</b>	<b>-3.4</b>
<b>West of Miss. River.....</b>	<b>8.67</b>	<b>8.97</b>	<b>9.73</b>	<b>10.40</b>	<b>10.69</b>	<b>13.65</b>	<b>-3.3</b>	<b>-5.1</b>	<b>-4.9</b>
<b>U.S. Total.....</b>	<b>15.90</b>	<b>17.13</b>	<b>17.80</b>	<b>18.50</b>	<b>19.20</b>	<b>25.16</b>	<b>-7.2</b>	<b>-4.6</b>	<b>-5.0</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

<sup>w</sup> Withheld to avoid disclosure of individual company data.

Notes: Real prices are in 1996 dollars, calculated using implicit Gross Domestic Product price deflators. See Appendix D, Table D2. For 1997 and prior years, average mine price is calculated by dividing the total free on board (f.o.b.) mine value of the coal produced by the total production. For 1998 and forward, average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."



**Table 82. Average Price of Coal by State and Mine Type, 1999**

(Dollars per Short Ton)

Coal-Producing State and Region	Underground		Surface		Total	
	Nominal	Real <sup>1</sup>	Nominal	Real <sup>1</sup>	Nominal	Real <sup>1</sup>
Alabama .....	\$35.58	\$34.01	\$34.40	\$32.89	\$35.29	\$33.74
Alaska .....	—	—	w	w	w	w
Arizona.....	—	—	w	w	w	w
Arkansas.....	—	—	w	w	w	w
Colorado.....	16.30	15.58	\$19.27	\$18.42	\$17.23	\$16.48
Illinois .....	22.84	21.83	23.56	22.52	22.90	21.89
Indiana .....	w	w	w	w	19.99	19.11
Kansas .....	—	—	w	w	w	w
Kentucky Total.....	\$23.82	\$22.78	\$22.97	\$21.96	\$23.50	\$22.47
Eastern.....	24.59	23.51	23.51	22.48	24.14	23.07
Western.....	21.71	20.75	19.25	18.40	21.15	20.22
Louisiana.....	—	—	w	w	w	w
Maryland.....	w	w	w	w	\$23.27	\$22.24
Mississippi .....	—	—	w	w	w	w
Missouri .....	—	—	w	w	w	w
Montana .....	—	—	\$8.82	\$8.43	\$8.82	\$8.43
New Mexico .....	w	w	w	w	20.97	20.05
North Dakota .....	—	—	\$8.01	\$7.66	8.01	7.66
Ohio .....	\$31.50	\$30.12	24.52	23.44	28.18	26.94
Oklahoma.....	w	w	w	w	26.70	25.52
Pennsylvania Total.....	\$23.86	\$22.81	\$25.07	\$23.97	24.14	23.08
Anthracite.....	40.86	39.06	34.77	33.24	35.13	33.58
Bituminous.....	23.78	22.73	21.90	20.94	23.43	22.40
Tennessee.....	w	w	w	w	29.24	27.95
Texas .....	—	—	\$12.46	\$11.91	12.46	11.91
Utah.....	\$17.33	\$16.57	—	—	17.33	16.57
Virginia .....	26.73	25.55	25.32	24.21	26.30	25.15
Washington.....	—	—	w	w	w	w
West Virginia Total.....	26.21	25.06	\$24.36	\$23.29	\$25.57	\$24.44
Northern.....	23.10	22.08	22.29	21.31	22.98	21.97
Southern.....	27.66	26.44	24.59	23.51	26.39	25.23
Wyoming .....	w	w	w	w	5.38	5.14
<b>Appalachian Total<sup>2</sup>.....</b>	<b>26.07</b>	<b>24.92</b>	<b>24.65</b>	<b>23.57</b>	<b>25.58</b>	<b>24.46</b>
<b>Interior Total<sup>2</sup>.....</b>	<b>22.42</b>	<b>21.43</b>	<b>16.04</b>	<b>15.33</b>	<b>18.52</b>	<b>17.71</b>
<b>Western Total<sup>2</sup>.....</b>	<b>16.95</b>	<b>16.20</b>	<b>7.69</b>	<b>7.36</b>	<b>8.59</b>	<b>8.21</b>
<b>East of Miss. River.....</b>	<b>25.39</b>	<b>24.27</b>	<b>23.64</b>	<b>22.60</b>	<b>24.77</b>	<b>23.68</b>
<b>West of Miss. River.....</b>	<b>17.00</b>	<b>16.25</b>	<b>8.32</b>	<b>7.95</b>	<b>9.07</b>	<b>8.67</b>
<b>U.S. Total.....</b>	<b>24.33</b>	<b>23.26</b>	<b>12.37</b>	<b>11.82</b>	<b>16.63</b>	<b>15.90</b>

<sup>1</sup> Real prices are in 1996 dollars, calculated using implicit Gross Domestic Product price deflators. See Appendix D, Table D2.<sup>2</sup> For a definition of coal-producing regions, see Appendix C.

w Withheld to avoid disclosure of individual company data.

Notes: Average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. A measure of dispersion of these average nominal prices at the State level (interquartile range) is given in Appendix D, Table D2. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 83. Average Price of Coal by State and Underground Mining Method, 1999**  
(Nominal Dollars per Short Ton)

Coal-Producing State and Region	Continuous <sup>1</sup>	Conventional <sup>2</sup>	Longwall <sup>3</sup>	Other <sup>4</sup>	Total
Alabama.....	\$28.51	—	\$35.62	—	\$35.58
Colorado.....	21.47	—	16.11	—	16.30
Illinois.....	22.12	—	24.12	—	22.84
Indiana.....	w	—	—	—	w
Kentucky Total.....	\$23.83	\$23.90	23.71	\$30.71	\$23.82
Eastern.....	24.68	23.90	21.86	30.71	24.59
Western.....	20.47	—	24.06	—	21.71
Maryland.....	w	—	w	—	w
New Mexico.....	\$19.31	—	—	—	\$19.31
Ohio.....	20.97	—	\$33.90	—	31.50
Oklahoma.....	29.31	—	—	—	29.31
Pennsylvania Total.....	26.16	37.17	23.19	43.34	23.86
Anthracite.....	41.63	37.17	—	43.34	40.86
Bituminous.....	25.92	—	23.19	—	23.78
Tennessee.....	w	—	—	—	w
Utah.....	\$16.12	21.38	17.26	—	\$17.33
Virginia.....	25.90	28.40	28.69	—	26.73
West Virginia Total.....	26.30	23.60	26.09	—	26.21
Northern.....	20.52	—	24.09	—	23.10
Southern.....	27.39	23.60	28.26	—	27.66
Wyoming.....	—	—	w	—	w
<b>Appalachian Total<sup>5</sup>.....</b>	<b>25.51</b>	<b>24.21</b>	<b>26.76</b>	<b>34.29</b>	<b>26.07</b>
<b>Interior Total<sup>5</sup>.....</b>	<b>21.58</b>	—	<b>24.10</b>	—	<b>22.42</b>
<b>Western Total<sup>5</sup>.....</b>	<b>17.52</b>	<b>21.38</b>	<b>16.81</b>	—	<b>16.95</b>
<b>East of Miss. River.....</b>	<b>24.64</b>	<b>24.21</b>	<b>26.38</b>	<b>34.29</b>	<b>25.39</b>
<b>West of Miss. River.....</b>	<b>18.24</b>	<b>21.38</b>	<b>16.81</b>	—	<b>17.00</b>
<b>U.S. Total.....</b>	<b>24.53</b>	<b>23.43</b>	<b>24.14</b>	<b>34.29</b>	<b>24.33</b>

<sup>1</sup> Mines that produce greater than 50 percent of coal by continuous mining method.

<sup>2</sup> Mines that produce greater than 50 percent of coal by conventional mining method, or mines that produce less than 10,000 short tons, which are not required to provide data.

<sup>3</sup> Mines that have any production from longwall mining method. A typical longwall mining operation uses 80 percent longwall mining and 20 percent continuous mining.

<sup>4</sup> Mines that produce coal using shortwall, scoop loading, hand loading, or other mining methods or a 50/50 percent continuous/conventional split in mining method.

<sup>5</sup> For a definition of coal-producing regions, see Appendix C.

w Withheld to avoid disclosure of individual company data.

Notes: Average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 84. Coal Disposition, Number of Mines, and Average Price,  
by State and County, 1999**  
(Thousand Short Tons, Nominal Dollars per Short Ton)

Coal-Producing State and County	Number of Mines	Disposition	Average Price
<b>Alabama</b> .....	<b>44</b>	<b>19,258</b>	<b>35.29</b>
Bibb .....	1	45	w
Cullman .....	2	82	w
Fayette .....	1	2,350	w
Jefferson .....	8	7,903	\$40.68
Marion .....	1	34	w
Tuscaloosa .....	7	5,261	\$31.21
Walker .....	21	3,254	35.41
Winston .....	3	330	w
<b>Alaska</b> .....	<b>1</b>	<b>1,573</b>	<b>w</b>
Yukon River .....	1	1,573	w
<b>Arizona</b> .....	<b>2</b>	<b>12,623</b>	<b>w</b>
Navajo .....	2	12,623	w
<b>Arkansas</b> .....	<b>1</b>	<b>15</b>	<b>w</b>
Johnson .....	1	15	w
<b>Colorado</b> .....	<b>12</b>	<b>30,146</b>	<b>17.23</b>
Delta .....	1	1,751	w
Fremont .....	1	226	w
Gunnison .....	2	8,298	w
La Plata .....	1	223	w
Mesa .....	1	278	w
Moffat .....	2	7,780	w
Montrose .....	1	359	w
Rio Blanco .....	1	1,333	w
Routt .....	2	9,898	w
<b>Illinois</b> .....	<b>23</b>	<b>40,280</b>	<b>22.90</b>
Christian .....	1	43	w
Gallatin .....	4	4,639	\$24.10
Jackson .....	2	815	w
Jefferson .....	1	3,878	w
Logan .....	1	2,303	w
Macoupin .....	2	4,309	w
McDonough .....	1	480	w
Montgomery .....	1	1,703	w
Perry .....	1	2,436	w
Randolph .....	1	2,490	w
Saline .....	3	9,245	w
Vermilion .....	1	919	w
Wabash .....	1	1,296	w
Washington .....	1	3,384	w
White .....	1	2,320	w
Williamson .....	1	21	w
<b>Indiana</b> .....	<b>34</b>	<b>33,969</b>	<b>19.99</b>
Clay .....	3	78	w
Daviess .....	4	3,573	\$20.10
Dubois .....	1	79	w
Gibson .....	4	5,888	\$18.19
Greene .....	4	4,970	21.46
Knox .....	6	5,490	21.47
Parke .....	1	216	w
Pike .....	4	4,503	\$19.94
Spencer .....	1	228	w
Sullivan .....	1	1,508	w
Vigo .....	2	3,548	w
Warrick .....	3	3,888	w
<b>Kansas</b> .....	<b>2</b>	<b>400</b>	<b>w</b>
Linn .....	2	400	w
<b>Kentucky</b> .....	<b>415</b>	<b>139,117</b>	<b>23.50</b>
Bell .....	20	4,565	\$25.68
Breathitt .....	6	2,626	21.60
Christian .....	1	332	w
Clay .....	3	86	w
Daviess .....	2	934	w
Floyd .....	29	4,841	\$24.02
Harlan .....	33	8,638	25.08
Henderson .....	2	1,259	w
Hopkins .....	12	7,371	\$19.42
Johnson .....	5	1,168	22.83
Knott .....	48	10,813	19.45
Knox .....	11	489	36.68
Laurel .....	1	43	w

See footnotes at end of table.

**Table 84. Coal Disposition, Number of Mines, and Average Price,  
by State and County, 1999 (Continued)**  
(Thousand Short Tons, Nominal Dollars per Short Ton)

Coal-Producing State and County	Number of Mines	Disposition	Average Price
<b>Kentucky (Continued)</b>			
Lawrence .....	2	131	\$24.46
Leslie .....	12	7,940	23.15
Letcher .....	37	9,460	25.49
Martin .....	28	11,171	23.95
McLean .....	2	616	w
Morgan .....	1	43	w
Muhlenberg .....	5	3,403	\$17.25
Ohio .....	3	161	w
Owsley .....	2	31	w
Perry .....	30	12,895	\$22.19
Pike .....	107	34,369	25.90
Union .....	3	7,396	w
Webster .....	6	8,101	\$23.02
Whitley .....	4	235	20.22
<b>Louisiana .....</b>	<b>2</b>	<b>2,952</b>	<b>w</b>
De Soto .....	1	2,236	w
Red River .....	1	716	w
<b>Maryland .....</b>	<b>11</b>	<b>3,963</b>	<b>23.27</b>
Allegany .....	6	562	\$25.55
Garrett .....	5	3,402	22.89
<b>Mississippi .....</b>	<b>1</b>	<b>15</b>	<b>w</b>
Choctaw .....	1	15	w
<b>Missouri .....</b>	<b>2</b>	<b>391</b>	<b>w</b>
Barton .....	1	73	w
Bates .....	1	318	w
<b>Montana .....</b>	<b>6</b>	<b>41,231</b>	<b>8.82</b>
Big Horn .....	3	27,340	w
Richland .....	1	278	w
Rosebud .....	2	13,613	w
<b>New Mexico .....</b>	<b>7</b>	<b>28,011</b>	<b>20.97</b>
Colfax .....	1	1,146	w
McKinley .....	2	11,813	w
San Juan .....	4	15,051	\$20.89
<b>North Dakota .....</b>	<b>4</b>	<b>30,977</b>	<b>8.01</b>
McLean .....	1	7,151	w
Mercer .....	2	19,297	w
Oliver .....	1	4,529	w
<b>Ohio .....</b>	<b>59</b>	<b>23,113</b>	<b>28.18</b>
Belmont .....	6	5,408	\$20.05
Carroll .....	2	142	17.83
Columbiana .....	4	491	14.98
Coshocton .....	3	105	w
Gallia .....	1	221	w
Guernsey .....	2	68	w
Harrison .....	7	2,982	\$21.61
Holmes .....	1	168	w
Jackson .....	3	1,422	w
Jefferson .....	5	654	\$22.31
Meigs .....	2	4,554	w
Monroe .....	1	1,065	w
Morgan .....	1	1,016	w
Muskingum .....	1	663	w
Noble .....	2	714	w
Perry .....	5	966	\$23.16
Stark .....	3	551	16.56
Tuscarawas .....	8	800	18.06
Vinton .....	2	1,123	w
<b>Oklahoma .....</b>	<b>7</b>	<b>1,648</b>	<b>26.70</b>
Craig .....	1	195	w
Haskell .....	1	614	w
Latimer .....	1	116	w
Le Flore .....	3	501	\$28.10
Rogers .....	1	222	w
<b>Pennsylvania .....</b>	<b>230</b>	<b>76,952</b>	<b>24.14</b>
Allegheny .....	1	11	w
Armstrong .....	22	5,412	\$25.00
Beaver .....	1	209	w
Butler .....	2	530	\$25.93
Cambria .....	12	1,395	23.83
Carbon .....	1	39	w

See footnotes at end of table.

**Table 84. Coal Disposition, Number of Mines, and Average Price,  
by State and County, 1999 (Continued)**  
(Thousand Short Tons, Nominal Dollars per Short Ton)

Coal-Producing State and County	Number of Mines	Disposition	Average Price
<b>Pennsylvania (Continued)</b>			
Clarion.....	5	435	\$23.62
Clearfield.....	29	3,446	24.03
Columbia.....	3	532	40.47
Elk.....	3	448	17.40
Fayette.....	8	280	21.23
Greene.....	10	38,136	22.69
Indiana.....	23	4,994	28.68
Jefferson.....	14	1,569	21.85
Lawrence.....	2	74	w
Luzerne.....	8	1,051	\$42.23
Lycoming.....	1	256	w
Northumberland.....	4	847	\$19.72
Schuylkill.....	39	2,127	36.85
Somerset.....	25	4,898	19.96
Sullivan.....	2	60	w
Venango.....	1	91	w
Washington.....	7	9,621	\$25.34
Westmoreland.....	7	490	19.63
<b>Tennessee.....</b>	<b>20</b>	<b>3,013</b>	<b>29.24</b>
Anderson.....	2	91	w
Campbell.....	8	880	\$32.61
Claiborne.....	7	1,198	26.01
Cumberland.....	1	263	w
Scott.....	1	168	w
Sequatchie.....	1	413	w
<b>Texas.....</b>	<b>14</b>	<b>53,048</b>	<b>12.46</b>
Atascosa.....	1	3,420	w
Freestone.....	1	4,971	w
Harrison.....	2	3,873	w
Hopkins.....	1	2,126	w
Leon.....	1	8,935	w
Milam.....	1	6,298	w
Panola.....	2	7,768	w
Robertson.....	1	1,640	w
Rusk.....	1	6,237	w
Titus.....	2	7,536	w
Webb.....	1	244	w
<b>Utah.....</b>	<b>14</b>	<b>26,787</b>	<b>17.33</b>
Carbon.....	8	8,206	\$18.83
Emery.....	3	11,966	w
Sevier.....	3	6,615	w
<b>Virginia.....</b>	<b>142</b>	<b>31,673</b>	<b>26.30</b>
Buchanan.....	46	11,139	\$27.74
Dickenson.....	23	4,238	28.71
Lee.....	7	1,003	24.88
Russell.....	3	406	27.56
Tazewell.....	8	1,346	28.87
Wise.....	55	13,541	24.18
<b>Washington.....</b>	<b>1</b>	<b>4,074</b>	<b>w</b>
Lewis.....	1	4,074	w
<b>West Virginia.....</b>	<b>275</b>	<b>158,437</b>	<b>25.57</b>
Barbour.....	4	688	\$22.30
Boone.....	31	30,144	25.37
Brooke.....	1	1,645	w
Clay.....	6	6,462	\$27.01
Fayette.....	5	2,078	30.76
Grant.....	3	603	w
Greenbrier.....	3	327	w
Harrison.....	14	7,099	\$25.04
Kanawha.....	12	14,905	23.89
Lincoln.....	1	357	w
Logan.....	20	9,524	\$24.18
Marion.....	2	1,278	w
Marshall.....	2	10,846	w
McDowell.....	46	4,886	\$26.80
Mineral.....	1	49	w
Mingo.....	29	19,961	\$27.25
Monongalia.....	8	6,714	21.30
Nicholas.....	11	4,319	26.04
Preston.....	6	1,354	25.14

See footnotes at end of table.

**Table 84. Coal Disposition, Number of Mines, and Average Price,  
by State and County, 1999 (Continued)**  
(Thousand Short Tons, Nominal Dollars per Short Ton)

Coal-Producing State and County	Number of Mines	Disposition	Average Price
<b>West Virginia (Continued)</b>			
Raleigh .....	18	10,789	\$31.02
Tucker .....	2	258	w
Upshur .....	12	2,262	\$20.29
Wayne .....	7	6,673	25.93
Webster .....	9	5,495	20.03
Wyoming .....	22	9,718	28.10
<b>Wyoming</b> .....	<b>22</b>	<b>336,646</b>	<b>5.38</b>
Campbell .....	13	294,339	\$4.77
Carbon .....	3	2,921	w
Converse .....	2	25,625	w
Lincoln .....	1	4,320	w
Sheridan .....	1	72	w
Sweetwater .....	2	9,369	w
<b>U.S. Total</b> .....	<b>1,351</b>	<b>1,100,313</b>	<b>16.63</b>

<sup>w</sup> Withheld to avoid disclosure of individual company data.

Notes: Average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 85. Average Price by State and Coal Rank, 1999**  
(Nominal Dollars per Short Ton)

Coal-Producing State and Region	Bituminous	Subbituminous	Lignite	Anthracite	Total
Alabama.....	\$35.29	—	—	—	\$35.29
Alaska.....	—	w	—	—	w
Arizona.....	w	—	—	—	w
Arkansas.....	—	—	—	w	w
Colorado.....	\$16.79	\$18.50	—	—	\$17.23
Illinois.....	22.90	—	—	—	22.90
Indiana.....	19.99	—	—	—	19.99
Kansas.....	w	—	—	—	w
Kentucky Total.....	\$23.50	—	—	—	\$23.50
Eastern.....	24.14	—	—	—	24.14
Western.....	21.15	—	—	—	21.15
Louisiana.....	—	—	w	—	w
Maryland.....	23.27	—	—	—	\$23.27
Mississippi.....	—	—	w	—	w
Missouri.....	w	—	—	—	w
Montana.....	—	w	w	—	\$8.82
New Mexico.....	w	w	—	—	20.97
North Dakota.....	—	—	\$8.01	—	8.01
Ohio.....	\$28.18	—	—	—	28.18
Oklahoma.....	26.70	—	—	—	26.70
Pennsylvania Total.....	23.43	—	—	\$35.13	24.14
Anthracite.....	—	—	—	35.13	35.13
Bituminous.....	23.43	—	—	—	23.43
Tennessee.....	29.24	—	—	—	29.24
Texas.....	w	—	w	—	12.46
Utah.....	\$17.33	—	—	—	17.33
Virginia.....	26.30	—	—	—	26.30
Washington.....	—	w	—	—	w
West Virginia Total.....	25.57	—	—	—	\$25.57
Northern.....	22.98	—	—	—	22.98
Southern.....	26.39	—	—	—	26.39
Wyoming.....	w	w	—	—	5.38
<b>Appalachian Total<sup>1</sup>.....</b>	<b>25.48</b>	—	—	<b>35.13</b>	<b>25.58</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>21.56</b>	—	<b>12.73</b>	<b>w</b>	<b>18.52</b>
<b>Western Total<sup>1</sup>.....</b>	<b>18.82</b>	<b>6.87</b>	<b>8.03</b>	—	<b>8.59</b>
<b>East of Miss. River.....</b>	<b>24.68</b>	—	<b>11.04</b>	<b>35.13</b>	<b>24.77</b>
<b>West of Miss. River.....</b>	<b>19.05</b>	<b>6.87</b>	<b>11.04</b>	<b>w</b>	<b>9.07</b>
<b>U.S. Total.....</b>	<b>23.92</b>	<b>6.87</b>	<b>11.04</b>	<sup>2</sup> <b>35.13</b>	<b>16.63</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

<sup>2</sup> Does not include Arkansas.

w Withheld to avoid disclosure of individual company data.

Notes: Average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 86. Average Price of U.S. Coal by Mine Production Range and Mine Type, 1999**  
(Nominal Dollars per Short Ton)

Mine Production Range (thousand short tons)	Underground	Surface	Total
Over 1,000 .....	\$24.00	\$10.41	\$14.56
500 to 1,000 .....	26.20	22.64	24.57
200 to 500 .....	24.48	24.36	24.42
100 to 200 .....	23.58	24.48	23.90
50 to 100 .....	24.17	24.07	24.12
10 to 50 .....	25.70	23.31	24.20
<b>U.S. Total .....</b>	<b>24.33</b>	<b>12.37</b>	<b>16.63</b>

Notes: Average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 87. Average Price of U.S. Coal by Coalbed Thickness and Mine Type, 1999**  
(Nominal Dollars per Short Ton)

Coalbed Thickness (inches)	Underground	Surface	Total
< 7 .....	-	\$30.86	\$30.86
7-12 .....	-	22.43	22.43
13-18 .....	-	24.20	24.20
19-24 .....	\$29.72	20.57	20.71
25-30 .....	25.25	22.04	22.46
31-36 .....	26.42	22.68	24.60
37-42 .....	24.73	22.71	23.94
43-48 .....	26.14	24.05	25.21
49-54 .....	27.25	22.21	25.08
55-60 .....	25.78	22.62	24.61
61-66 .....	24.07	20.86	23.51
67-72 .....	24.31	19.45	22.98
73-78 .....	26.51	23.38	26.08
79-84 .....	24.56	17.94	22.38
85-90 .....	25.66	15.90	20.94
91-96 .....	21.65	21.63	21.65
97-102 .....	19.74	22.88	20.93
103-108 .....	29.49	15.15	17.74
109-114 .....	14.46	22.57	18.98
115-120 .....	20.22	24.80	22.01
> 120 .....	16.43	7.09	7.59
<b>U.S. Total .....</b>	<b>24.33</b>	<b>12.37</b>	<b>16.63</b>

Notes: Average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."



**Table 88. Average Price of Coal by State and Productivity Range, 1999**  
(Nominal Dollars per Short Ton)

Coal-Producing State and Region	Productivity Range (short tons per miner per hour)					Total
	> = 16	8 to 16	4 to 8	2 to 4	0 to 2	
Alabama.....	-	-	\$29.89	\$36.89	\$32.04	\$35.29
Alaska.....	-	-	w	-	-	w
Arizona.....	-	-	w	-	-	w
Arkansas.....	-	-	-	-	w	w
Colorado.....	-	w	\$21.50	w	-	\$17.23
Illinois.....	-	w	22.40	\$24.77	w	22.90
Indiana.....	-	w	19.94	22.88	w	19.99
Kansas.....	-	w	w	-	-	w
Kentucky Total.....	w	\$23.54	\$23.10	24.37	w	\$23.50
Eastern.....	w	w	23.78	24.53	w	24.14
Western.....	-	w	21.38	21.52	-	21.15
Louisiana.....	-	w	-	-	-	w
Maryland.....	-	w	22.78	26.05	w	\$23.27
Mississippi.....	-	-	-	-	w	w
Missouri.....	-	-	-	w	w	w
Montana.....	w	w	-	-	-	\$8.82
New Mexico.....	-	\$19.57	24.47	-	-	20.97
North Dakota.....	\$7.73	10.62	-	-	-	8.01
Ohio.....	-	19.50	20.47	\$37.64	\$22.92	28.18
Oklahoma.....	-	-	25.66	27.27	29.31	26.70
Pennsylvania Total.....	17.47	22.10	22.87	24.94	37.14	24.14
Anthracite.....	17.70	35.56	25.55	38.47	53.79	35.13
Bituminous.....	16.35	21.04	22.86	24.40	31.94	23.43
Tennessee.....	-	w	w	27.90	26.53	29.24
Texas.....	-	\$12.27	w	w	-	12.46
Utah.....	-	17.74	\$16.52	w	w	17.33
Virginia.....	-	26.53	25.30	\$27.25	\$26.54	26.30
Washington.....	-	-	-	w	-	w
West Virginia Total.....	19.60	25.58	25.62	\$25.78	26.51	\$25.57
Northern.....	13.49	21.46	23.64	22.16	23.87	22.98
Southern.....	22.15	26.13	26.32	27.78	27.70	26.39
Wyoming.....	4.74	15.62	w	w	-	5.38
<b>Appalachian Total<sup>1</sup>.....</b>	<b>19.12</b>	<b>24.70</b>	<b>24.37</b>	<b>27.84</b>	<b>31.01</b>	<b>25.58</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>-</b>	<b>13.09</b>	<b>20.93</b>	<b>24.18</b>	<b>24.11</b>	<b>18.52</b>
<b>Western Total<sup>1</sup>.....</b>	<b>5.39</b>	<b>16.78</b>	<b>20.53</b>	<b>24.22</b>	<b>17.18</b>	<b>8.59</b>
<b>East of Miss. River.....</b>	<b>19.12</b>	<b>24.23</b>	<b>23.52</b>	<b>27.42</b>	<b>30.90</b>	<b>24.77</b>
<b>West of Miss. River.....</b>	<b>5.39</b>	<b>15.15</b>	<b>20.07</b>	<b>24.57</b>	<b>21.21</b>	<b>9.07</b>
<b>U.S. Total.....</b>	<b>5.54</b>	<b>18.02</b>	<b>23.09</b>	<b>27.26</b>	<b>30.54</b>	<b>16.63</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

w Withheld to avoid disclosure of individual company data.

Notes: Average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 89. Average Price of Underground Coal by State and Productivity Range, 1999**  
(Nominal Dollars per Short Ton)

Coal-Producing State and Region	Productivity Range (short tons per miner per hour)					
	> = 16	8 to 16	4 to 8	2 to 4	0 to 2	Total
Alabama .....	-	-	-	\$37.55	\$31.97	\$35.58
Colorado.....	-	\$14.44	\$22.36	21.47	-	16.30
Illinois .....	-	w	22.26	25.07	w	22.84
Indiana .....	-	-	w	w	-	w
Kentucky Total .....	w	\$26.06	\$23.26	\$24.62	\$25.41	\$23.82
Eastern.....	w	26.06	24.27	24.82	25.41	24.59
Western.....	-	-	21.69	w	-	21.71
Maryland.....	-	-	w	-	-	w
New Mexico .....	-	-	w	-	-	w
Ohio .....	-	-	\$19.92	\$42.08	-	\$31.50
Oklahoma.....	-	-	-	-	w	w
Pennsylvania Total .....	-	21.38	23.07	25.04	\$34.29	\$23.86
Anthracite.....	-	-	-	-	40.86	40.86
Bituminous.....	-	21.38	23.07	25.04	33.75	23.78
Tennessee.....	-	-	w	27.28	26.00	w
Utah.....	-	17.74	\$16.52	18.89	17.18	\$17.33
Virginia .....	-	-	25.65	27.39	27.34	26.73
West Virginia Total.....	\$19.22	27.70	26.10	25.83	26.65	26.21
Northern .....	12.85	23.60	23.51	22.13	23.47	23.10
Southern.....	21.50	27.79	27.75	27.80	27.84	27.66
Wyoming.....	-	w	-	-	-	w
<b>Appalachian Total<sup>1</sup> .....</b>	<b>19.85</b>	<b>25.20</b>	<b>24.70</b>	<b>28.06</b>	<b>30.36</b>	<b>26.07</b>
<b>Interior Total<sup>1</sup> .....</b>	<b>-</b>	<b>20.53</b>	<b>21.97</b>	<b>24.34</b>	<b>26.78</b>	<b>22.42</b>
<b>Western Total<sup>1</sup> .....</b>	<b>-</b>	<b>16.19</b>	<b>18.25</b>	<b>19.80</b>	<b>17.18</b>	<b>16.95</b>
<b>East of Miss. River.....</b>	<b>19.85</b>	<b>25.03</b>	<b>24.00</b>	<b>27.61</b>	<b>30.32</b>	<b>25.39</b>
<b>West of Miss. River.....</b>	<b>-</b>	<b>16.19</b>	<b>18.25</b>	<b>19.80</b>	<b>21.16</b>	<b>17.00</b>
<b>U.S. Total.....</b>	<b>19.85</b>	<b>20.47</b>	<b>23.61</b>	<b>27.46</b>	<b>29.95</b>	<b>24.33</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

<sup>w</sup> Withheld to avoid disclosure of individual company data.

Notes: Average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 90. Average Price of Surface Coal by State and Productivity Range, 1999**  
(Nominal Dollars per Short Ton)

Coal-Producing State and Region	Productivity Range (short tons per miner per hour)					Total
	> = 16	8 to 16	4 to 8	2 to 4	0 to 2	
Alabama.....	-	-	\$29.89	\$35.26	\$37.48	\$34.40
Alaska.....	-	-	w	-	-	w
Arizona.....	-	-	w	-	-	w
Arkansas.....	-	-	-	-	w	w
Colorado.....	-	\$18.34	\$20.57	-	-	\$19.27
Illinois.....	-	w	25.11	w	\$24.49	23.56
Indiana.....	-	w	19.89	\$19.06	w	w
Kansas.....	-	w	w	-	-	w
Kentucky Total.....	\$23.93	\$22.96	\$22.87	23.46	\$22.70	\$22.97
Eastern.....	23.93	24.98	23.29	23.57	22.70	23.51
Western.....	-	17.31	20.02	17.31	-	19.25
Louisiana.....	-	w	-	-	-	w
Maryland.....	-	\$24.71	-	26.05	w	w
Mississippi.....	-	-	-	-	w	w
Missouri.....	-	-	-	w	w	w
Montana.....	8.81	10.27	-	-	-	\$8.82
New Mexico.....	-	w	w	-	-	w
North Dakota.....	7.73	\$10.62	-	-	-	\$8.01
Ohio.....	-	19.50	\$20.97	\$30.59	\$22.92	24.52
Oklahoma.....	-	-	w	w	-	w
Pennsylvania Total.....	17.47	25.96	\$21.85	\$24.73	42.62	\$25.07
Anthracite.....	17.70	35.56	25.55	38.47	57.23	34.77
Bituminous.....	16.35	17.69	21.72	22.87	24.76	21.90
Tennessee.....	-	w	w	28.46	28.00	w
Texas.....	-	\$12.27	\$13.73	30.40	-	\$12.46
Virginia.....	-	26.53	24.82	26.66	22.71	25.32
Washington.....	-	-	-	w	-	w
West Virginia Total.....	21.56	23.72	24.74	\$23.92	25.34	\$24.36
Northern.....	15.41	21.26	27.09	22.68	25.35	22.29
Southern.....	26.61	24.35	24.67	26.32	25.32	24.59
Wyoming.....	4.74	15.31	w	w	-	w
<b>Appalachian Total<sup>1</sup>.....</b>	<b>18.52</b>	<b>24.15</b>	<b>23.83</b>	<b>27.11</b>	<b>33.55</b>	<b>24.65</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>-</b>	<b>12.95</b>	<b>19.64</b>	<b>23.60</b>	<b>21.35</b>	<b>16.04</b>
<b>Western Total<sup>1</sup>.....</b>	<b>5.39</b>	<b>17.20</b>	<b>21.76</b>	<b>26.41</b>	<b>-</b>	<b>7.69</b>
<b>East of Miss. River.....</b>	<b>18.52</b>	<b>23.41</b>	<b>22.75</b>	<b>26.74</b>	<b>33.08</b>	<b>23.64</b>
<b>West of Miss. River.....</b>	<b>5.39</b>	<b>14.80</b>	<b>20.90</b>	<b>26.41</b>	<b>21.54</b>	<b>8.32</b>
<b>U.S. Total.....</b>	<b>5.47</b>	<b>16.80</b>	<b>22.37</b>	<b>26.69</b>	<b>32.83</b>	<b>12.37</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

w Withheld to avoid disclosure of individual company data.

Notes: Average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table 91. Average Price by State and Disposition, 1999**  
(Nominal Dollars per Short Ton)

Coal-Producing State and Region	Open Market <sup>1</sup>	Captive <sup>2</sup>	Total
Alabama .....	w	w	35.29
Alaska.....	w	-	w
Arizona.....	w	-	w
Arkansas.....	w	-	w
Colorado.....	w	w	17.23
Illinois.....	w	w	22.90
Indiana.....	19.99	-	19.99
Kansas.....	w	-	w
Kentucky Total.....	23.47	26.60	23.50
Eastern.....	24.11	26.60	24.14
Western.....	21.15	-	21.15
Louisiana.....	w	-	w
Maryland.....	w	w	23.27
Mississippi.....	w	-	w
Missouri.....	21.75	-	21.75
Montana.....	w	w	8.82
New Mexico.....	20.97	-	20.97
North Dakota.....	w	w	8.01
Ohio.....	20.51	46.47	28.18
Oklahoma.....	26.70	-	26.70
Pennsylvania Total.....	24.28	20.97	24.14
Anthracite.....	41.79	17.31	35.13
Bituminous.....	23.44	23.31	23.43
Tennessee.....	29.24	-	29.24
Texas.....	w	w	12.46
Utah.....	w	w	17.33
Virginia.....	26.43	23.61	26.30
Washington.....	-	w	w
West Virginia Total.....	25.59	25.21	25.57
Northern.....	23.55	13.73	22.98
Southern.....	26.23	29.09	26.39
Wyoming.....	5.17	9.27	5.38
<b>Appalachian Total<sup>3</sup>.....</b>	<b>25.27</b>	<b>31.15</b>	<b>25.58</b>
<b>Interior Total<sup>3</sup>.....</b>	<b>20.91</b>	<b>12.24</b>	<b>18.52</b>
<b>Western Total<sup>3</sup>.....</b>	<b>8.22</b>	<b>13.62</b>	<b>8.59</b>
<b>East of Miss. River.....</b>	<b>24.51</b>	<b>30.06</b>	<b>24.77</b>
<b>West of Miss. River.....</b>	<b>8.52</b>	<b>12.62</b>	<b>9.07</b>
<b>U.S. Total.....</b>	<b>16.61</b>	<b>16.88</b>	<b>16.63</b>

<sup>1</sup> Open Market includes all coal sold on the open market to other coal companies or consumers.

<sup>2</sup> Captive includes all coal used by the producing company or sold to affiliated or parent companies.

<sup>3</sup> For a definition of coal-producing regions, see Appendix C.

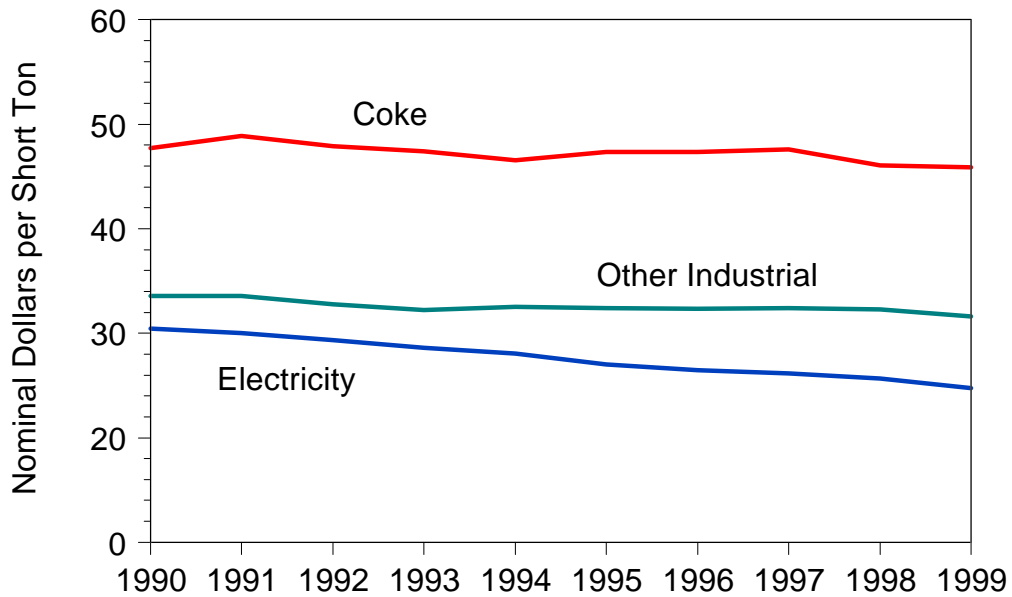
<sup>w</sup> Withheld to avoid disclosure of individual company data.

Notes: Average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report" and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

# Consumer Prices

Figure 13. U.S. Coal Prices by Sector, 1990-1999



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

**Table 92. Average Price of Coal Delivered to Electric Utilities by Census Division and State, 1990, 1995-1999**  
(Nominal Dollars per Short Ton)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England Total</b> .....	<b>\$41.22</b>	<b>\$42.94</b>	<b>\$43.67</b>	<b>\$43.55</b>	<b>\$43.34</b>	<b>\$47.38</b>	<b>-4.0</b>	<b>-1.2</b>	<b>-1.5</b>
Connecticut.....	45.85	47.59	50.02	50.05	49.33	56.35	-3.6	-1.8	-2.3
Massachusetts.....	45.63	42.30	42.72	42.64	42.63	45.30	7.9	1.7	.1
New Hampshire.....	39.79	42.35	42.62	42.23	41.67	47.39	-6.0	-1.1	-1.9
<b>Middle Atlantic Total</b> .....	<b>33.48</b>	<b>34.33</b>	<b>34.39</b>	<b>35.08</b>	<b>34.63</b>	<b>38.56</b>	<b>-2.5</b>	<b>-8</b>	<b>-1.5</b>
New Jersey .....	38.23	41.71	45.94	45.53	47.17	48.37	-8.3	-5.1	-2.6
New York.....	37.77	37.44	37.32	37.15	36.86	41.45	.9	.6	-1.0
Pennsylvania.....	32.61	33.28	33.28	34.06	33.48	37.25	-2.0	-.7	-1.5
<b>East North Central Total</b> .....	<b>26.60</b>	<b>27.51</b>	<b>27.68</b>	<b>28.29</b>	<b>29.67</b>	<b>33.17</b>	<b>-3.3</b>	<b>-2.7</b>	<b>-2.4</b>
Illinois.....	27.47	30.22	30.41	32.14	32.58	37.79	-9.1	-4.2	-3.5
Indiana .....	23.58	23.63	24.35	24.67	25.94	28.78	-.2	-2.3	-2.2
Michigan.....	27.39	28.19	28.93	29.34	30.95	35.60	-2.8	-3.0	-2.9
Ohio .....	32.47	32.52	31.41	32.31	34.44	36.01	-.1	-1.4	-1.1
Wisconsin.....	18.66	19.97	20.43	19.55	21.23	26.18	-6.6	-3.2	-3.7
<b>West North Central Total</b> .....	<b>14.58</b>	<b>14.91</b>	<b>15.39</b>	<b>15.53</b>	<b>16.10</b>	<b>19.66</b>	<b>-2.3</b>	<b>-2.5</b>	<b>-3.3</b>
Iowa.....	14.09	15.12	16.23	16.30	17.13	19.89	-6.8	-4.8	-3.8
Kansas.....	16.47	17.06	17.91	17.51	17.83	22.23	-3.5	-2.0	-3.3
Minnesota.....	19.47	19.00	19.47	18.99	20.12	22.00	2.4	-.8	-1.3
Missouri.....	16.56	16.40	16.80	17.31	18.14	28.03	1.0	-2.2	-5.7
Nebraska.....	9.42	10.07	10.06	12.37	12.86	12.88	-6.4	-7.5	-3.4
North Dakota.....	9.56	10.01	10.21	9.72	9.65	9.10	-4.4	-.2	.5
South Dakota.....	16.16	16.19	15.99	16.94	14.35	13.97	-.1	3.0	1.6
<b>South Atlantic Total</b> .....	<b>34.84</b>	<b>35.58</b>	<b>36.34</b>	<b>36.68</b>	<b>38.25</b>	<b>41.86</b>	<b>-2.1</b>	<b>-2.3</b>	<b>-2.0</b>
Delaware.....	41.12	40.52	41.05	41.51	42.27	47.31	1.5	-.7	-1.5
Florida.....	39.08	40.03	41.82	42.40	43.93	45.72	-2.4	-2.9	-1.7
Georgia.....	36.29	36.31	37.28	36.54	38.62	42.48	-.1	-1.5	-1.7
Maryland.....	35.69	37.63	38.75	38.49	39.00	41.96	-5.1	-2.2	-1.8
North Carolina.....	35.80	35.66	35.35	36.87	40.57	44.64	.4	-3.1	-2.4
South Carolina.....	36.29	37.05	37.21	37.54	38.86	43.54	-2.1	-1.7	-2.0
Virginia.....	34.11	34.73	34.98	35.73	36.90	39.29	-1.8	-1.9	-1.5
West Virginia.....	29.22	30.06	30.68	30.93	31.61	36.66	-2.8	-1.9	-2.5
<b>East South Central Total</b> .....	<b>28.03</b>	<b>29.10</b>	<b>28.70</b>	<b>29.35</b>	<b>30.08</b>	<b>33.98</b>	<b>-3.7</b>	<b>-1.8</b>	<b>-2.1</b>
Alabama.....	32.36	36.28	35.58	36.39	37.00	44.58	-10.8	-3.3	-3.5
Kentucky.....	24.52	24.52	24.20	24.43	25.71	27.58	*	-1.2	-1.3
Mississippi.....	34.34	32.51	32.44	33.31	34.40	41.49	5.6	*	-2.1
Tennessee.....	26.32	26.39	26.67	27.64	27.94	32.12	-.3	-1.5	-2.2
<b>West South Central Total</b> .....	<b>18.86</b>	<b>19.34</b>	<b>19.69</b>	<b>20.13</b>	<b>20.66</b>	<b>22.91</b>	<b>-2.4</b>	<b>-2.3</b>	<b>-2.1</b>
Arkansas.....	25.19	25.53	28.56	26.15	27.99	28.17	-1.3	-2.6	-1.2
Louisiana.....	22.79	23.15	23.97	24.74	25.13	27.78	-1.5	-2.4	-2.2
Oklahoma.....	15.73	15.74	15.87	16.79	17.00	24.98	-.1	-1.9	-5.0
Texas.....	18.01	18.61	18.69	19.26	19.65	21.19	-3.2	-2.1	-1.8
<b>Mountain Total</b> .....	<b>20.69</b>	<b>20.83</b>	<b>21.52</b>	<b>21.82</b>	<b>21.51</b>	<b>22.19</b>	<b>-.6</b>	<b>-1.0</b>	<b>-.8</b>
Arizona.....	27.21	27.12	28.95	29.55	28.65	29.98	.3	-1.3	-1.1
Colorado.....	19.20	19.41	19.93	20.24	20.73	20.81	-1.0	-1.9	-.9
Montana.....	12.26	11.36	11.52	11.90	11.47	11.47	7.9	1.7	.7
Nevada.....	29.13	29.07	31.10	30.44	29.02	33.16	.2	.1	-1.4
New Mexico.....	24.27	23.72	24.23	26.04	25.59	24.03	2.3	-1.3	.1
Utah.....	23.96	25.97	25.22	24.66	25.27	26.80	-7.8	-1.3	-1.2
Wyoming.....	13.39	13.83	14.16	14.30	14.29	14.74	-3.2	-1.6	-1.0
<b>Pacific Total</b> .....	<b>23.77</b>	<b>23.07</b>	<b>25.19</b>	<b>23.96</b>	<b>22.83</b>	<b>24.42</b>	<b>3.0</b>	<b>1.0</b>	<b>-.3</b>
Oregon.....	19.34	18.92	19.95	18.81	18.79	18.02	2.2	.7	.8
Washington.....	25.65	24.44	26.15	24.91	23.74	25.64	5.0	1.9	*
<b>U.S. Total</b> .....	<b>24.72</b>	<b>25.64</b>	<b>26.16</b>	<b>26.45</b>	<b>27.01</b>	<b>30.45</b>	<b>-3.5</b>	<b>-2.2</b>	<b>-2.3</b>

\* Data round to zero.

Note: Average prices are based on the cost including insurance and freight.

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

**Table 93. Average Real Price of Coal Delivered to Electric Utilities by Census Division and State, 1990, 1995-1999**  
(Real Dollars per Short Ton)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England Total</b> .....	<b>\$39.40</b>	<b>\$41.64</b>	<b>\$42.85</b>	<b>\$43.55</b>	<b>\$44.18</b>	<b>\$54.77</b>	<b>-5.4</b>	<b>-2.8</b>	<b>-3.6</b>
Connecticut.....	43.83	46.15	49.09	50.05	50.28	65.14	-5.0	-3.4	-4.3
Massachusetts.....	43.62	41.02	41.92	42.64	43.46	52.36	6.3	.1	-2.0
New Hampshire.....	38.04	41.07	41.82	42.23	42.47	54.78	-7.4	-2.7	-4.0
<b>Middle Atlantic Total</b> .....	<b>32.01</b>	<b>33.29</b>	<b>33.74</b>	<b>35.08</b>	<b>35.30</b>	<b>44.57</b>	<b>-3.9</b>	<b>-2.4</b>	<b>-3.6</b>
New Jersey .....	36.55	40.45	45.08	45.53	48.08	55.92	-9.6	-6.6	-4.6
New York.....	36.11	36.31	36.62	37.15	37.57	47.91	-6	-1.0	-3.1
Pennsylvania.....	31.17	32.28	32.66	34.06	34.13	43.06	-3.4	-2.2	-3.5
<b>East North Central Total</b> .....	<b>25.43</b>	<b>26.68</b>	<b>27.16</b>	<b>28.29</b>	<b>30.24</b>	<b>38.34</b>	<b>-4.7</b>	<b>-4.2</b>	<b>-4.5</b>
Illinois.....	26.26	29.30	29.84	32.14	33.21	43.68	-10.4	-5.7	-5.5
Indiana.....	22.54	22.91	23.89	24.67	26.44	33.26	-1.6	-3.9	-4.2
Michigan.....	26.19	27.34	28.39	29.34	31.55	41.15	-4.2	-4.5	-4.9
Ohio.....	31.04	31.54	30.82	32.31	35.10	41.63	-1.6	-3.0	-3.2
Wisconsin.....	17.84	19.37	20.05	19.55	21.64	30.27	-7.9	-4.7	-5.7
<b>West North Central Total</b> .....	<b>13.93</b>	<b>14.46</b>	<b>15.10</b>	<b>15.53</b>	<b>16.42</b>	<b>22.73</b>	<b>-3.7</b>	<b>-4.0</b>	<b>-5.3</b>
Iowa.....	13.47	14.67	15.92	16.30	17.46	22.99	-8.1	-6.3	-5.8
Kansas.....	15.74	16.55	17.57	17.51	18.18	25.70	-4.9	-3.5	-5.3
Minnesota.....	18.61	18.43	19.11	18.99	20.51	25.44	1.0	-2.4	-3.4
Missouri.....	15.83	15.90	16.49	17.31	18.49	32.40	-4	-3.8	-7.6
Nebraska.....	9.01	9.76	9.87	12.37	13.11	14.89	-7.8	-9.0	-5.4
North Dakota.....	9.14	9.71	10.02	9.72	9.84	10.52	-5.8	-1.8	-1.5
South Dakota.....	15.45	15.70	15.69	16.94	14.63	16.15	-1.6	1.4	-5
<b>South Atlantic Total</b> .....	<b>33.31</b>	<b>34.51</b>	<b>35.65</b>	<b>36.68</b>	<b>38.99</b>	<b>48.39</b>	<b>-3.5</b>	<b>-3.9</b>	<b>-4.1</b>
Delaware.....	39.31	39.30	40.28	41.51	43.09	54.69	*	-2.3	-3.6
Florida.....	37.35	38.82	41.04	42.40	44.78	52.85	-3.8	-4.4	-3.8
Georgia.....	34.69	35.22	36.58	36.54	39.36	49.11	-1.5	-3.1	-3.8
Maryland.....	34.12	36.49	38.02	38.49	39.75	48.50	-6.5	-3.7	-3.8
North Carolina.....	34.22	34.58	34.69	36.87	41.35	51.61	-1.0	-4.6	-4.5
South Carolina.....	34.69	35.93	36.51	37.54	39.61	50.33	-3.5	-3.3	-4.0
Virginia.....	32.61	33.69	34.33	35.73	37.62	45.42	-3.2	-3.5	-3.6
West Virginia.....	27.93	29.16	30.10	30.93	32.22	42.37	-4.2	-3.5	-4.5
<b>East South Central Total</b> .....	<b>26.79</b>	<b>28.22</b>	<b>28.16</b>	<b>29.35</b>	<b>30.67</b>	<b>39.28</b>	<b>-5.0</b>	<b>-3.3</b>	<b>-4.2</b>
Alabama.....	30.94	35.18	34.91	36.39	37.71	51.53	-12.1	-4.8	-5.5
Kentucky.....	23.44	23.78	23.75	24.43	26.20	31.88	-1.4	-2.8	-3.4
Mississippi.....	32.83	31.53	31.83	33.31	35.07	47.96	4.1	-1.6	-4.1
Tennessee.....	25.16	25.60	26.17	27.64	28.49	37.13	-1.7	-3.0	-4.2
<b>West South Central Total</b> .....	<b>18.03</b>	<b>18.75</b>	<b>19.32</b>	<b>20.13</b>	<b>21.06</b>	<b>26.49</b>	<b>-3.8</b>	<b>-3.8</b>	<b>-4.2</b>
Arkansas.....	24.08	24.76	28.02	26.15	28.53	32.56	-2.7	-4.1	-3.3
Louisiana.....	21.78	22.45	23.52	24.74	25.61	32.11	-2.9	-4.0	-4.2
Oklahoma.....	15.04	15.27	15.57	16.79	17.33	28.87	-1.5	-3.5	-7.0
Texas.....	17.22	18.05	18.34	19.26	20.03	24.50	-4.6	-3.7	-3.8
<b>Mountain Total</b> .....	<b>19.78</b>	<b>20.20</b>	<b>21.11</b>	<b>21.82</b>	<b>21.92</b>	<b>25.65</b>	<b>-2.1</b>	<b>-2.5</b>	<b>-2.8</b>
Arizona.....	26.01	26.30	28.40	29.55	29.21	34.65	-1.1	-2.8	-3.1
Colorado.....	18.36	18.82	19.56	20.24	21.13	24.05	-2.5	-3.4	-2.9
Montana.....	11.72	11.02	11.30	11.90	11.69	13.26	6.3	.1	-1.4
Nevada.....	27.84	28.20	30.51	30.44	29.58	38.33	-1.3	-1.5	-3.5
New Mexico.....	23.20	23.01	23.78	26.04	26.09	27.78	.8	-2.9	-2.0
Utah.....	22.90	25.19	24.74	24.66	25.76	30.98	-9.1	-2.9	-3.3
Wyoming.....	12.80	13.41	13.89	14.30	14.56	17.03	-4.6	-3.2	-3.1
<b>Pacific Total</b> .....	<b>22.72</b>	<b>22.37</b>	<b>24.72</b>	<b>23.96</b>	<b>23.27</b>	<b>28.22</b>	<b>1.6</b>	<b>-6</b>	<b>-2.4</b>
Oregon.....	18.49	18.35	19.58	18.81	19.16	20.83	.8	-9	-1.3
Washington.....	24.52	23.70	25.66	24.91	24.20	29.64	3.5	.3	-2.1
<b>U.S. Total</b> .....	<b>23.63</b>	<b>24.86</b>	<b>25.67</b>	<b>26.45</b>	<b>27.53</b>	<b>35.20</b>	<b>-4.9</b>	<b>-3.7</b>	<b>-4.3</b>

\* Data round to zero.

Notes: Real prices are in 1996 dollars, calculated using implicit Gross Domestic Product price deflators. See Appendix D, Table D2. Average prices are based on the cost including insurance and freight.

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

**Table 94. Average Price of Coal Delivered to Other Industrial Plants By Census Division and State, 1990, 1995-1999**  
(Nominal Dollars per Short Ton)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England Total</b> .....	w	w	w	\$57.36	\$56.90	\$65.11	w	w	w
Maine.....	w	w	w	w	w	w	w	w	w
Massachusetts.....	w	w	w	w	w	w	w	w	w
New Hampshire.....	-	-	-	-	w	w	-	-	-
<b>Middle Atlantic Total</b> .....	\$35.65	w	w	w	w	w	w	w	w
New Jersey.....	w	w	w	w	w	w	w	w	w
New York.....	w	w	w	\$40.11	\$41.91	\$44.07	w	w	w
Pennsylvania.....	\$33.63	\$34.33	\$34.20	33.84	34.07	36.61	-2.0	-0.3	-0.9
<b>East North Central Total</b> .....	33.34	33.22	33.53	34.44	34.89	36.16	.4	-1.1	-9
Illinois.....	29.62	29.46	29.76	29.69	29.03	31.28	.5	.5	-6
Indiana.....	30.33	30.21	29.75	31.76	33.14	32.83	.4	-2.2	-9
Michigan.....	40.05	40.40	41.94	41.28	41.18	43.39	-9	-7	-9
Ohio.....	34.44	33.52	34.05	35.28	35.18	35.04	2.8	-5	-2
Wisconsin.....	38.99	40.42	40.03	40.02	40.21	43.41	-3.5	-8	-1.2
<b>West North Central Total</b> .....	18.78	18.72	19.02	19.05	18.92	18.41	.3	-2	.2
Iowa.....	28.22	28.19	28.92	29.32	29.24	30.26	.1	-9	-8
Kansas.....	33.01	31.08	31.93	32.46	32.42	28.69	6.2	.4	1.6
Minnesota.....	31.02	29.70	31.03	28.85	34.40	36.63	4.4	-2.5	-1.8
Missouri.....	29.87	30.48	30.06	31.37	32.81	30.18	-2.0	-2.3	-1
Nebraska.....	w	w	w	w	w	w	w	w	w
North Dakota.....	w	w	w	w	w	w	w	w	w
South Dakota.....	\$25.71	\$23.99	\$23.36	\$24.90	\$22.21	\$16.20	7.1	3.7	5.3
<b>South Atlantic Total</b> .....	w	w	w	w	w	w	w	w	w
Delaware.....	w	w	w	w	w	w	w	w	w
Florida.....	\$42.62	\$44.62	\$45.13	\$45.69	\$46.63	\$47.22	-4.5	-2.2	-1.1
Georgia.....	44.12	44.54	44.84	44.21	44.64	44.90	-9	-3	-2
Maryland.....	32.00	32.41	32.62	32.52	31.66	28.71	-1.2	.3	1.2
North Carolina.....	41.68	42.72	43.14	43.36	43.29	44.86	-2.4	-9	-8
South Carolina.....	44.13	44.03	44.23	44.08	43.16	43.79	.2	.5	.1
Virginia.....	42.93	43.60	43.85	43.51	42.50	41.05	-1.5	.3	.5
West Virginia.....	37.86	48.24	35.31	33.37	33.61	31.88	-21.5	3.0	1.9
<b>East South Central Total</b> .....	w	w	w	w	w	w	w	w	w
Alabama.....	\$39.81	\$39.49	\$40.20	\$40.15	\$39.53	\$40.58	.8	.2	-2
Kentucky.....	42.72	43.66	44.71	44.02	44.09	45.81	-2.1	-8	-8
Mississippi.....	w	w	w	w	w	w	w	w	w
Tennessee.....	\$35.26	\$36.62	\$36.33	\$35.21	\$35.68	\$35.16	-3.7	-3	*
<b>West South Central Total</b> .....	22.87	22.91	22.42	21.79	22.04	21.28	-2	.9	.8
Arkansas.....	43.08	41.58	42.38	43.24	43.52	45.39	3.6	-3	-6
Louisiana.....	w	w	w	w	w	w	w	w	w
Oklahoma.....	w	w	w	w	w	w	w	w	w
Texas.....	\$21.01	\$21.05	\$20.13	\$18.99	\$18.76	\$16.79	-2	2.9	2.5
<b>Mountain Total</b> .....	w	w	27.14	26.70	27.06	28.75	w	w	w
Arizona.....	\$39.88	\$38.67	38.81	39.27	40.46	39.54	3.1	-4	.1
Colorado.....	23.99	23.75	25.13	23.17	26.11	26.93	1.0	-2.1	-1.3
Idaho.....	w	w	34.57	36.39	34.11	31.78	12.3	w	w
Montana.....	w	w	w	w	w	w	w	w	w
Nevada.....	w	w	w	w	w	w	w	w	w
New Mexico.....	w	w	w	w	w	w	w	w	w
Utah.....	\$21.53	\$19.05	\$19.28	\$19.10	\$19.74	\$28.49	13.0	2.2	-3.1
Wyoming.....	24.26	24.10	23.68	22.32	22.72	24.91	.6	1.6	-3
<b>Pacific Total</b> .....	41.08	43.12	43.24	42.45	43.68	45.96	-4.7	-1.5	-1.2
California.....	39.82	41.02	40.14	39.54	41.11	45.11	-2.9	-8	-1.4
Hawaii.....	w	w	w	w	w	w	w	w	w
Oregon.....	-	w	w	w	w	w	-	-	-
Washington.....	w	w	\$59.80	\$58.81	\$59.15	\$55.63	w	w	w
<b>U.S. Total</b> .....	\$31.59	\$32.30	32.41	32.32	32.42	33.59	-2.2	-6	-7

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

Notes: Price data are for manufacturing plants only. Average prices are based on the cost including insurance, freight, and taxes.

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



**Table 95. Average Real Price of Coal Delivered to Other Industrial Plants by Census Division and State, 1990, 1995-1999**  
(Real Dollars per Short Ton)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England Total</b> .....	w	w	w	\$57.36	\$58.00	\$75.26	w	w	w
Maine.....	w	w	w	w	w	w	w	w	w
Massachusetts.....	w	w	w	w	w	w	w	w	w
New Hampshire.....	-	-	-	-	w	w	-	-	-
<b>Middle Atlantic Total</b> .....	\$34.08	w	w	w	w	w	w	w	w
New Jersey.....	w	w	w	w	w	w	w	w	w
New York.....	w	w	w	\$40.11	\$42.72	\$50.94	w	w	w
Pennsylvania.....	\$32.15	\$33.29	\$33.56	33.84	34.73	42.32	-3.4	-1.9	-3.0
<b>East North Central Total</b> .....	\$31.87	\$32.22	\$32.90	\$34.44	\$35.56	\$41.80	-1.0	-2.7	-3.0
Illinois.....	28.31	28.57	29.20	29.69	29.59	36.16	-9	-1.1	-2.7
Indiana.....	29.00	29.30	29.20	31.76	33.78	37.95	-1.0	-3.7	-2.9
Michigan.....	38.29	39.19	41.15	41.28	41.98	50.16	-2.3	-2.3	-2.9
Ohio.....	32.92	32.50	33.41	35.28	35.86	40.50	1.3	-2.1	-2.3
Wisconsin.....	37.27	39.20	39.27	40.02	40.99	50.18	-4.9	-2.3	-3.3
<b>West North Central Total</b> .....	\$17.96	\$18.16	\$18.67	\$19.05	\$19.29	\$21.28	-1.1	-1.8	-1.9
Iowa.....	26.97	27.34	28.38	29.32	29.80	34.98	-1.3	-2.5	-2.8
Kansas.....	31.56	30.14	31.33	32.46	33.05	33.16	4.7	-1.1	-5
Minnesota.....	29.65	28.81	30.45	28.85	35.06	42.34	2.9	-4.1	-3.9
Missouri.....	28.55	29.56	29.50	31.37	33.45	34.89	-3.4	-3.9	-2.2
Nebraska.....	w	w	w	w	w	w	w	w	w
North Dakota.....	w	w	w	w	w	w	w	w	w
South Dakota.....	\$24.57	\$23.27	\$22.92	\$24.90	\$22.64	\$18.73	5.6	2.1	3.1
<b>South Atlantic Total</b> .....	w	w	w	w	w	w	w	w	w
Delaware.....	w	w	w	w	w	w	w	w	w
Florida.....	\$40.74	\$43.27	\$44.28	\$45.69	\$47.54	\$54.59	-5.8	-3.8	-3.2
Georgia.....	42.18	43.20	44.00	44.21	45.50	51.90	-2.3	-1.9	-2.3
Maryland.....	30.59	31.43	32.01	32.52	32.27	33.18	-2.7	-1.3	-9
North Carolina.....	39.84	41.43	42.33	43.36	44.13	51.86	-3.8	-2.5	-2.9
South Carolina.....	42.18	42.70	43.40	44.08	44.00	50.62	-1.2	-1.0	-2.0
Virginia.....	41.04	42.29	43.03	43.51	43.32	47.45	-2.9	-1.3	-1.6
West Virginia.....	36.19	46.79	34.64	33.37	34.26	36.85	-22.7	1.4	-2
<b>East South Central Total</b> .....	w	w	w	w	w	w	w	w	w
Alabama.....	\$38.06	\$38.30	\$39.45	\$40.15	\$40.30	\$46.90	-6	-1.4	-2.3
Kentucky.....	40.84	42.34	43.87	44.02	44.94	52.95	-3.5	-2.4	-2.8
Mississippi.....	w	w	w	w	w	w	w	w	w
Tennessee.....	\$33.71	\$35.52	\$35.65	\$35.21	\$36.37	\$40.64	-5.1	-1.9	-2.0
<b>West South Central Total</b> .....	\$21.86	\$22.22	\$22.00	\$21.79	\$22.46	\$24.60	-1.6	-7	-1.3
Arkansas.....	41.18	40.32	41.58	43.24	44.36	52.47	2.1	-1.8	-2.6
Louisiana.....	w	w	w	w	w	w	w	w	w
Oklahoma.....	w	w	w	w	w	w	w	w	w
Texas.....	\$20.08	\$20.41	\$19.75	\$18.99	\$19.12	\$19.41	-1.6	1.2	.4
<b>Mountain Total</b> .....	w	w	\$26.63	\$26.70	\$27.59	\$33.23	w	w	w
Arizona.....	\$38.12	\$37.51	38.08	39.27	41.24	45.71	1.6	-1.9	-2.0
Colorado.....	22.93	23.03	24.66	23.17	26.61	31.13	-4	-3.6	-3.3
Idaho.....	w	w	33.92	36.39	34.77	36.73	10.7	w	w
Montana.....	w	w	w	w	w	w	w	w	w
Nevada.....	w	w	w	w	w	w	w	w	w
New Mexico.....	w	w	w	w	w	w	w	w	w
Utah.....	\$20.58	\$18.47	\$18.92	\$19.10	\$20.12	\$32.93	11.4	.6	-5.1
Wyoming.....	23.19	23.37	23.24	22.32	23.16	28.80	-8	*	-2.4
<b>Pacific Total</b> .....	\$39.27	\$41.82	\$42.43	\$42.45	\$44.53	\$53.12	-6.1	-3.1	-3.3
California.....	38.07	39.78	39.39	39.54	41.91	52.15	-4.3	-2.4	-3.4
Hawaii.....	w	w	w	w	w	w	w	w	w
Oregon.....	-	w	w	w	w	w	-	-	-
Washington.....	w	w	\$58.68	\$58.81	\$60.30	\$64.30	w	w	w
<b>U.S. Total</b> .....	\$30.20	\$31.33	\$31.80	\$32.32	\$33.05	\$38.83	-3.6	-2.2	-2.8

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

Notes: Price data are for manufacturing plants only. Real prices are in 1996 dollars, calculated using implicit Gross Domestic Product price deflators. See Appendix D, Table D2. Average prices are based on the cost including insurance, freight, and taxes.

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

**Table 96. Average Price of Coal Delivered to Coke Plants by Census Division and State, 1990, 1995-1999**  
(Nominal Dollars per Short Ton)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Middle Atlantic Total</b> .....	<b>\$44.33</b>	<b>\$44.16</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>0.4</b>	<b>w</b>	<b>w</b>
New York .....	w	w	w	w	w	w	w	w	w
Pennsylvania .....	w	w	\$46.20	\$45.16	\$46.11	\$45.78	w	w	w
<b>East North Central Total</b> .....	<b>\$47.74</b>	<b>\$48.39</b>	<b>49.12</b>	<b>49.54</b>	<b>49.09</b>	<b>48.81</b>	<b>-1.3</b>	<b>-0.7</b>	<b>-0.2</b>
Illinois .....	w	w	w	w	w	w	w	w	w
Indiana .....	w	w	\$50.75	\$51.93	\$52.74	\$49.39	w	w	w
Michigan .....	w	w	w	w	w	w	w	w	w
Ohio .....	w	w	\$46.89	\$44.98	\$42.18	\$48.29	w	w	w
<b>South Atlantic Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Maryland .....	-	-	-	-	-	-	-	-	-
Virginia .....	w	w	w	w	w	w	w	w	w
West Virginia .....	w	w	w	w	w	w	w	w	w
<b>East South Central Total</b> .....	<b>\$45.28</b>	<b>\$46.43</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>-2.5</b>	<b>w</b>	<b>w</b>
Alabama .....	w	w	\$50.04	\$49.37	\$48.42	\$48.93	w	w	w
Kentucky .....	w	w	w	w	w	w	w	w	w
Tennessee .....	-	-	-	-	-	-	-	-	-
<b>Mountain Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Utah .....	w	w	w	w	w	w	w	w	w
<b>U.S. Total</b> .....	<b>\$45.85</b>	<b>\$46.06</b>	<b>\$47.61</b>	<b>\$47.33</b>	<b>\$47.34</b>	<b>\$47.73</b>	<b>-4</b>	<b>-8</b>	<b>-4</b>

<sup>w</sup> Withheld to avoid disclosure of individual company data.  
Note: Average prices are based on the cost including insurance, freight, and taxes.  
Source: Energy Information Administration, Form EIA-5, "Coke Plant Report - Quarterly."

**Table 97. Average Real Price of Coal Delivered to Coke Plants by Census Division and State, 1990, 1995-1999**  
(Real Dollars per Short Ton)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Middle Atlantic Total</b> .....	<b>\$42.38</b>	<b>\$42.82</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>-1.0</b>	<b>w</b>	<b>w</b>
New York .....	w	w	w	w	w	w	w	w	w
Pennsylvania .....	w	w	\$45.33	\$45.16	\$47.00	\$52.92	w	w	w
<b>East North Central Total</b> .....	<b>\$45.64</b>	<b>\$46.93</b>	<b>48.20</b>	<b>49.54</b>	<b>50.05</b>	<b>56.43</b>	<b>-2.7</b>	<b>-2.3</b>	<b>-2.3</b>
Illinois .....	w	w	w	w	w	w	w	w	w
Indiana .....	w	w	\$49.80	\$51.93	\$53.76	\$57.09	w	w	w
Michigan .....	w	w	w	w	w	w	w	w	w
Ohio .....	w	w	\$46.01	\$44.98	\$43.00	\$55.83	w	w	w
<b>South Atlantic Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Maryland .....	-	-	-	-	-	-	-	-	-
Virginia .....	w	w	w	w	w	w	w	w	w
West Virginia .....	w	w	w	w	w	w	w	w	w
<b>East South Central Total</b> .....	<b>\$43.28</b>	<b>\$45.03</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>-3.9</b>	<b>w</b>	<b>w</b>
Alabama .....	w	w	\$49.10	\$49.37	\$49.36	\$56.56	w	w	w
Kentucky .....	w	w	w	w	w	w	w	w	w
Tennessee .....	-	-	-	-	-	-	-	-	-
<b>Mountain Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Utah .....	w	w	w	w	w	w	w	w	w
<b>U.S. Total</b> .....	<b>\$43.83</b>	<b>\$44.67</b>	<b>\$46.72</b>	<b>\$47.33</b>	<b>\$48.26</b>	<b>\$55.17</b>	<b>-1.9</b>	<b>-2.4</b>	<b>-2.5</b>

<sup>w</sup> Withheld to avoid disclosure of individual company data.  
Notes: Real prices are in 1996 dollars, calculated using implicit Gross Domestic Product price deflators. See Appendix D, Table D2. Average prices are based on the cost including insurance, freight, and taxes.  
Source: Energy Information Administration, Form EIA-5, "Coke Plant Report - Quarterly."

# Import/Export Prices

**Table 98. Average Price of U.S. Coal Imports by Continent and Country of Origin, 1990, 1995-1999**  
(Nominal Dollars per Short Ton)

Continent and Country of Origin	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>\$34.23</b>	<b>\$35.38</b>	<b>\$38.11</b>	<b>\$36.51</b>	<b>\$36.87</b>	<b>\$24.56</b>	<b>-3.2</b>	<b>-1.8</b>	<b>3.8</b>
Canada .....	35.03	35.40	38.11	36.52	36.94	24.45	-1.0	-1.3	4.1
Mexico .....	21.93	20.87	-	33.43	20.87	38.36	5.1	1.2	-6.0
<b>South America Total</b> .....	<b>29.98</b>	<b>31.16</b>	<b>32.49</b>	<b>31.53</b>	<b>32.38</b>	<b>37.59</b>	<b>-3.8</b>	<b>-1.9</b>	<b>-2.5</b>
Colombia .....	29.17	31.21	32.11	31.90	31.26	36.87	-6.5	-1.7	-2.6
Venezuela .....	31.99	31.09	33.26	30.87	34.70	41.50	2.9	-2.0	-2.8
<b>Europe Total</b> .....	<b>29.48</b>	<b>36.80</b>	<b>49.22</b>	<b>-</b>	<b>25.70</b>	<b>37.17</b>	<b>-19.9</b>	<b>3.5</b>	<b>-2.5</b>
Denmark .....	-	-	-	-	-	36.35	-	-	-100.0
Norway .....	-	-	49.45	-	-	-	-	-	-
Spain .....	-	36.48	-	-	-	-	-100.0	-	-
Switzerland .....	-	-	41.20	-	-	-	-	-	-
United Kingdom .....	29.48	42.03	-	-	25.70	37.19	-29.8	3.5	-2.5
<b>Asia Total</b> .....	<b>43.14</b>	<b>34.13</b>	<b>33.05</b>	<b>32.45</b>	<b>35.13</b>	<b>-</b>	<b>26.4</b>	<b>5.3</b>	<b>-</b>
China (Mainland) .....	42.65	-	-	-	-	-	-	-	-
Indonesia .....	43.15	34.13	32.82	32.45	35.13	-	26.4	5.3	-
Vietnam .....	-	-	49.09	-	-	-	-	-	-
<b>Oceania &amp; Australia Total</b> .....	<b>27.26</b>	<b>31.89</b>	<b>33.47</b>	<b>33.41</b>	<b>33.57</b>	<b>41.73</b>	<b>-14.5</b>	<b>-5.1</b>	<b>-4.6</b>
Australia .....	27.26	31.89	33.47	33.41	30.99	41.73	-14.5	-3.1	-4.6
New Zealand .....	-	-	-	-	46.42	-	-	-100.0	-
<b>Total</b> <sup>1</sup> .....	<b>31.50</b>	<b>32.19</b>	<b>33.50</b>	<b>32.67</b>	<b>33.60</b>	<b>33.43</b>	<b>-2.1</b>	<b>-1.6</b>	<b>-7</b>
<b>U.S. Total</b> <sup>2</sup> .....	<b>30.77</b>	<b>32.18</b>	<b>34.32</b>	<b>33.78</b>	<b>34.05</b>	<b>34.45</b>	<b>-4.4</b>	<b>-2.5</b>	<b>-1.2</b>

<sup>1</sup> 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.

<sup>2</sup> U.S. Total is the average price of all coal imports.

Notes: Average price is based on the customs import value. Coal imports include coal to Puerto Rico and the Virgin Islands.

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

**Table 99. Average Price of U.S. Coal Exports by Destination, 1990, 1995-1999**  
(Nominal Dollars per Short Ton)

Continent and Country of Destination	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>\$28.74</b>	<b>\$28.48</b>	<b>\$30.57</b>	<b>\$33.09</b>	<b>\$34.05</b>	<b>\$32.75</b>	<b>0.9</b>	<b>-4.1</b>	<b>-1.4</b>
Canada <sup>1</sup> .....	27.69	27.65	29.16	32.23	33.49	32.66	.1	-4.6	-1.8
Mexico .....	43.13	38.61	41.31	39.70	39.96	38.12	11.7	1.9	1.4
Other <sup>2</sup> .....	36.16	37.38	38.08	38.03	34.29	34.18	-3.3	1.3	.6
<b>South America Total</b> .....	<b>39.31</b>	<b>42.82</b>	<b>43.94</b>	<b>43.81</b>	<b>43.46</b>	<b>46.30</b>	<b>-8.2</b>	<b>-2.5</b>	<b>-1.8</b>
Brazil .....	39.41	42.85	44.12	44.67	43.88	46.88	-8.0	-2.6	-1.9
Other <sup>2</sup> .....	32.66	42.36	42.14	36.09	39.06	43.05	-22.9	-4.4	-3.0
<b>Europe Total</b> .....	<b>41.10</b>	<b>43.28</b>	<b>43.02</b>	<b>42.10</b>	<b>40.92</b>	<b>44.18</b>	<b>-5.0</b>	<b>.1</b>	<b>-8</b>
Belgium & Luxembourg .....	43.86	46.38	45.71	45.73	43.47	45.05	-5.4	.2	-3
Bulgaria .....	41.63	44.57	46.42	44.26	44.04	49.24	-6.6	-1.4	-1.8
Finland .....	37.00	40.50	41.63	42.11	39.47	44.72	-8.6	-1.6	-2.1
France .....	42.71	46.07	45.96	44.94	43.71	43.00	-7.3	-.6	-.1
Germany, FR .....	31.64	35.49	44.59	41.08	34.99	42.81	-10.8	-2.5	-3.3
Iceland .....	54.30	55.88	59.33	57.49	56.04	48.24	-2.8	-.8	1.3
Ireland .....	29.92	36.38	37.99	37.35	36.07	39.05	-17.7	-4.5	-2.9
Italy .....	46.28	46.53	45.54	45.05	44.14	44.95	-.5	1.2	.3
Netherlands .....	39.93	45.26	44.97	41.36	41.97	42.93	-11.8	-1.2	-.8
Norway .....	54.50	55.80	58.38	57.05	56.42	54.02	-2.3	-.9	.1
Portugal .....	32.96	38.03	36.76	36.53	36.46	40.80	-13.3	-2.5	-2.3
Romania .....	39.26	42.31	44.58	46.95	42.43	47.90	-7.2	-1.9	-2.2
Spain .....	39.05	42.89	37.01	37.56	34.75	47.87	-8.9	3.0	-2.2
Sweden .....	45.26	47.16	48.19	47.50	48.21	48.40	-4.0	-1.6	-.7
Turkey .....	38.50	44.92	46.07	44.33	42.61	46.13	-14.3	-2.5	-2.0
United Kingdom .....	40.74	39.01	39.30	38.90	40.92	47.34	4.4	-.1	-1.6
Other <sup>2</sup> .....	40.00	34.03	31.78	30.15	29.63	37.32	17.5	7.8	.8
<b>Asia Total</b> .....	<b>36.33</b>	<b>39.37</b>	<b>39.73</b>	<b>39.57</b>	<b>39.10</b>	<b>43.37</b>	<b>-7.7</b>	<b>-1.8</b>	<b>-1.9</b>
China (Taiwan) .....	34.44	36.29	36.75	36.86	36.95	38.64	-5.1	-1.7	-1.3
Israel .....	31.81	33.50	36.81	36.40	35.79	39.42	-5.0	-2.9	-2.3
Japan .....	35.79	38.59	39.00	39.41	39.14	44.33	-7.3	-2.2	-2.3
Korea, Republic of .....	39.48	44.79	43.98	42.72	40.97	46.43	-11.9	-.9	-1.8
Other <sup>2</sup> .....	50.10	45.76	36.33	48.89	30.41	38.91	9.5	13.3	2.8
<b>Oceania &amp; Australia Total</b> .....	<b>-</b>	<b>48.03</b>	<b>40.79</b>	<b>40.71</b>	<b>39.87</b>	<b>34.74</b>	<b>-100.0</b>	<b>-100.0</b>	<b>-100.0</b>
Other <sup>2</sup> .....	-	48.03	40.79	40.71	39.87	34.74	-100.0	-100.0	-100.0
<b>Africa Total</b> .....	<b>48.53</b>	<b>45.52</b>	<b>48.50</b>	<b>44.36</b>	<b>43.07</b>	<b>41.36</b>	<b>6.6</b>	<b>3.0</b>	<b>1.8</b>
Algeria .....	42.78	43.77	46.64	50.23	47.80	48.42	-2.3	-2.7	-1.4
Egypt .....	56.23	43.59	51.29	53.37	49.36	47.04	29.0	3.3	2.0
South Africa, Rep of .....	48.15	48.13	48.66	49.55	47.38	50.21	*	.4	-.5
Other <sup>2</sup> .....	-	32.31	32.22	33.93	33.00	31.34	-100.0	-100.0	-100.0
<b>Total</b> <sup>3</sup> .....	<b>35.91</b>	<b>38.55</b>	<b>40.24</b>	<b>40.53</b>	<b>40.03</b>	<b>42.42</b>	<b>-6.8</b>	<b>-2.7</b>	<b>-1.8</b>
<b>U.S. Total</b> <sup>4</sup> .....	<b>36.50</b>	<b>38.89</b>	<b>40.55</b>	<b>40.76</b>	<b>40.27</b>	<b>42.63</b>	<b>-6.1</b>	<b>-2.4</b>	<b>-1.7</b>

<sup>1</sup> 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.

<sup>2</sup> Includes countries with exports less than or equal to 50,000 short tons in 1999.

<sup>3</sup> 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.

<sup>4</sup> U.S. Total is the average price of all coal exports.

\* Data round to zero.

Note: Average price is based on the free alongside ship (f.a.s.) value.

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

**Table 100. Average Real Price of U.S. Coal Exports by Destination, 1990, 1995-1999**  
(Real Dollars per Short Ton)

Continent and Country of Destination	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>\$27.47</b>	<b>\$27.63</b>	<b>\$30.00</b>	<b>\$33.09</b>	<b>\$34.71</b>	<b>\$37.86</b>	<b>-0.5</b>	<b>-5.7</b>	<b>-3.5</b>
Canada <sup>1</sup> .....	26.48	26.82	28.62	32.23	34.14	37.76	-1.3	-6.1	-3.9
Mexico .....	41.24	37.45	40.54	39.70	40.73	44.07	10.1	.3	-7
Other <sup>2</sup> .....	34.57	36.26	37.37	38.03	34.96	39.52	-4.6	-3	-1.5
<b>South America Total</b> .....	<b>37.58</b>	<b>41.53</b>	<b>43.13</b>	<b>43.81</b>	<b>44.30</b>	<b>53.53</b>	<b>-9.5</b>	<b>-4.0</b>	<b>-3.8</b>
Brazil .....	37.67	41.57	43.30	44.67	44.73	54.20	-9.3	-4.2	-4.0
Other <sup>2</sup> .....	31.22	41.09	41.35	36.09	39.82	49.77	-24.0	-5.9	-5.0
<b>Europe Total</b> .....	<b>39.29</b>	<b>41.98</b>	<b>42.22</b>	<b>42.10</b>	<b>41.71</b>	<b>51.07</b>	<b>-6.4</b>	<b>-1.5</b>	<b>-2.9</b>
Belgium & Luxembourg.....	41.93	44.98	44.85	45.73	44.31	52.08	-6.8	-1.4	-2.4
Bulgaria .....	39.80	43.23	45.55	44.26	44.89	56.92	-7.9	-3.0	-3.9
Finland .....	35.37	39.28	40.86	42.11	40.24	51.70	-9.9	-3.2	-4.1
France .....	40.83	44.68	45.10	44.94	44.56	49.71	-8.6	-2.2	-2.2
Germany, FR .....	30.25	34.42	43.76	41.08	35.67	49.49	-12.1	-4.0	-5.3
Iceland .....	51.92	54.20	58.22	57.49	57.13	55.77	-4.2	-2.4	-8
Ireland .....	28.61	35.29	37.28	37.35	36.76	45.15	-18.9	-6.1	-4.9
Italy .....	44.25	45.13	44.69	45.05	45.00	51.96	-1.9	-4	-1.8
Netherlands.....	38.17	43.90	44.13	41.36	42.78	49.63	-13.0	-2.8	-2.9
Norway .....	52.10	54.13	57.29	57.05	57.51	62.45	-3.7	-2.4	-2.0
Portugal.....	31.52	36.89	36.08	36.53	37.16	47.16	-14.6	-4.0	-4.4
Romania.....	37.53	41.04	43.75	46.95	43.25	55.37	-8.5	-3.5	-4.2
Spain .....	37.33	41.60	36.32	37.56	35.42	55.34	-10.3	1.3	-4.3
Sweden .....	43.27	45.74	47.30	47.50	49.14	55.95	-5.4	-3.1	-2.8
Turkey.....	36.81	43.57	45.21	44.33	43.44	53.33	-15.5	-4.0	-4.0
United Kingdom.....	38.95	37.84	38.57	38.90	41.71	54.73	2.9	-1.7	-3.7
Other <sup>2</sup> .....	38.24	33.00	31.18	30.15	30.20	43.14	15.9	6.1	-1.3
<b>Asia Total</b> .....	<b>34.73</b>	<b>38.19</b>	<b>38.98</b>	<b>39.57</b>	<b>39.86</b>	<b>50.14</b>	<b>-9.0</b>	<b>-3.4</b>	<b>-4.0</b>
China (Taiwan).....	32.92	35.20	36.07	36.86	37.67	44.67	-6.5	-3.3	-3.3
Israel .....	30.41	32.50	36.13	36.40	36.48	45.57	-6.4	-4.4	-4.4
Japan .....	34.21	37.43	38.27	39.41	39.90	51.24	-8.6	-3.8	-4.4
Korea, Republic of.....	37.74	43.45	43.16	42.72	41.77	53.67	-13.1	-2.5	-3.8
Other <sup>2</sup> .....	47.90	44.39	35.66	48.89	31.00	44.99	7.9	11.5	.7
<b>Oceania &amp; Australia Total</b> .....	<b>-</b>	<b>46.58</b>	<b>40.03</b>	<b>40.71</b>	<b>40.64</b>	<b>40.16</b>	<b>-100.0</b>	<b>-100.0</b>	<b>-100.0</b>
Other <sup>2</sup> .....	-	46.58	40.03	40.71	40.64	40.16	-100.0	-100.0	-100.0
<b>Africa Total</b> .....	<b>46.39</b>	<b>44.15</b>	<b>47.60</b>	<b>44.36</b>	<b>43.90</b>	<b>47.82</b>	<b>5.1</b>	<b>1.4</b>	<b>-3</b>
Algeria .....	40.89	42.46	45.77	50.23	48.72	55.98	-3.7	-4.3	-3.4
Egypt.....	53.75	42.28	50.33	53.37	50.32	54.38	27.1	1.7	-1
South Africa, Rep of.....	46.04	46.68	47.76	49.55	48.30	58.05	-1.4	-1.2	-2.5
Other <sup>2</sup> .....	-	31.34	31.62	33.93	33.63	36.23	-100.0	-100.0	-100.0
<b>Total</b> <sup>3</sup> .....	<b>34.33</b>	<b>37.39</b>	<b>39.49</b>	<b>40.53</b>	<b>40.81</b>	<b>49.04</b>	<b>-8.2</b>	<b>-4.2</b>	<b>-3.9</b>
<b>U.S. Total</b> <sup>4</sup> .....	<b>34.90</b>	<b>37.72</b>	<b>39.80</b>	<b>40.76</b>	<b>41.05</b>	<b>49.28</b>	<b>-7.5</b>	<b>-4.0</b>	<b>-3.8</b>

<sup>1</sup> 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.

<sup>2</sup> Includes countries with exports less than or equal to 50,000 short tons in 1999.

<sup>3</sup> 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 (nominal) per short ton, inclusively.

<sup>4</sup> U.S. Total is the average price of all coal exports.

Notes: Real prices are in 1996 dollars, calculated using implicit Gross Domestic Product price deflators. See Appendix D, Table D2. Average prices are based on the free alongside ship (f.a.s.) value.

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

**Table 101. Average Price of U.S. Metallurgical Coal Exports by Destination, 1990, 1995-1999**  
(Nominal Dollars per Short Ton)

Continent and Country of Destination	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>\$32.63</b>	<b>\$34.44</b>	<b>\$35.39</b>	<b>\$36.79</b>	<b>\$37.25</b>	<b>\$37.94</b>	<b>-5.3</b>	<b>-3.3</b>	<b>-1.7</b>
Canada <sup>1</sup> .....	32.63	34.38	34.10	35.99	36.55	37.93	-5.1	-2.8	-1.7
Mexico .....	49.80	50.28	49.86	47.36	46.90	43.67	-9	1.5	1.5
Other <sup>2</sup> .....	-	-	-	-	-	49.93	-	-	-100.0
<b>South America Total</b> .....	<b>39.42</b>	<b>42.96</b>	<b>44.32</b>	<b>44.61</b>	<b>43.66</b>	<b>46.89</b>	<b>-8.3</b>	<b>-2.5</b>	<b>-1.9</b>
Brazil .....	39.41	42.86	44.15	44.73	43.89	46.95	-8.0	-2.6	-1.9
Other <sup>2</sup> .....	44.51	44.85	48.88	41.11	40.34	46.38	-8	2.5	-4
<b>Europe Total</b> .....	<b>44.14</b>	<b>46.84</b>	<b>47.60</b>	<b>47.68</b>	<b>46.02</b>	<b>47.45</b>	<b>-5.8</b>	<b>-1.0</b>	<b>-8</b>
Belgium & Luxembourg .....	44.00	47.34	48.34	48.68	45.97	47.98	-7.1	-1.1	-9
Bulgaria .....	41.63	44.57	46.42	43.36	44.04	49.44	-6.6	-1.4	-1.9
Finland .....	37.00	40.50	43.37	44.21	42.65	44.72	-8.6	-3.5	-2.1
France .....	42.76	46.35	47.20	47.13	45.08	45.29	-7.7	-1.3	-6
Germany, FR .....	42.59	46.41	47.84	49.87	47.52	46.63	-8.2	-2.7	-1.0
Iceland .....	54.30	55.88	59.33	57.43	56.04	50.67	-2.8	-8	.8
Ireland .....	-	-	37.42	-	-	-	-	-	-
Italy .....	46.28	48.02	48.85	47.90	46.61	47.88	-3.6	-2	-4
Netherlands .....	43.46	46.88	47.10	47.29	46.56	47.12	-7.3	-1.7	-9
Norway .....	54.50	55.70	58.38	57.05	56.42	55.00	-2.1	-9	-1
Portugal .....	41.64	45.49	44.31	45.20	46.45	45.79	-8.5	-2.7	-1.0
Romania .....	39.26	42.31	45.31	46.95	43.02	47.90	-7.2	-2.3	-2.2
Spain .....	46.61	48.62	49.23	50.92	49.02	48.97	-4.1	-1.3	-5
Sweden .....	45.26	47.16	48.19	48.20	48.20	48.77	-4.0	-1.6	-8
Turkey .....	38.50	44.93	46.08	44.54	43.28	46.16	-14.3	-2.9	-2.0
United Kingdom .....	44.68	47.74	48.49	49.08	47.22	48.49	-6.4	-1.4	-9
Other <sup>2</sup> .....	-	-	-	-	-	45.50	-	-	-100.0
<b>Asia Total</b> .....	<b>42.25</b>	<b>43.59</b>	<b>43.64</b>	<b>43.45</b>	<b>42.38</b>	<b>46.24</b>	<b>-3.1</b>	<b>-1</b>	<b>-1.0</b>
China (Taiwan) .....	37.19	42.54	42.95	45.24	44.48	47.48	-12.6	-4.4	-2.7
Israel .....	-	35.69	39.79	40.91	40.91	43.64	-100.0	-100.0	-100.0
Japan .....	40.33	42.29	41.68	42.19	41.14	45.67	-4.6	-5	-1.4
Korea, Republic of .....	45.00	46.75	47.68	46.08	45.98	48.11	-3.7	-5	-7
Other <sup>2</sup> .....	56.93	57.72	57.41	59.36	-	-	-1.4	-	-
<b>Oceania &amp; Australia Total</b> .....	<b>-</b>	<b>55.11</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>27.24</b>	<b>-100.0</b>	<b>-</b>	<b>-100.0</b>
Other <sup>2</sup> .....	-	55.11	-	-	-	27.24	-100.0	-	-100.0
<b>Africa Total</b> .....	<b>48.53</b>	<b>45.92</b>	<b>49.69</b>	<b>50.87</b>	<b>48.52</b>	<b>47.75</b>	<b>5.7</b>	<b>*</b>	<b>.2</b>
Algeria .....	42.78	43.77	46.64	50.23	47.80	48.42	-2.3	-2.7	-1.4
Egypt .....	56.23	43.60	51.31	53.38	49.38	47.05	29.0	3.3	2.0
South Africa, Rep of .....	48.15	48.13	48.66	49.55	47.38	50.21	*	.4	-5
Other <sup>2</sup> .....	-	-	-	30.30	-	-	-	-	-
<b>Total</b> <sup>3</sup> .....	<b>41.86</b>	<b>44.48</b>	<b>45.36</b>	<b>45.40</b>	<b>44.24</b>	<b>46.46</b>	<b>-5.9</b>	<b>-1.4</b>	<b>-1.1</b>
<b>U.S. Total</b> <sup>4</sup> .....	<b>41.91</b>	<b>44.58</b>	<b>45.45</b>	<b>45.49</b>	<b>44.30</b>	<b>46.51</b>	<b>-6.0</b>	<b>-1.4</b>	<b>-1.1</b>

<sup>1</sup> 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.

<sup>2</sup> Includes countries with exports less than or equal to 50,000 short tons in 1999.

<sup>3</sup> 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.

<sup>4</sup> U.S. Total is the average price of all coal exports.

\* Data round to zero.

Note: Average price is based on the free alongside ship (f.a.s.) value.

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

**Table 102. Average Real Price of U.S. Metallurgical Coal Exports by Destination, 1990, 1995-1999**  
(Real Dollars per Short Ton)

Continent and Country of Destination	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>\$31.19</b>	<b>\$33.40</b>	<b>\$34.73</b>	<b>\$36.79</b>	<b>\$37.98</b>	<b>\$43.86</b>	<b>-6.6</b>	<b>-4.8</b>	<b>-3.7</b>
Canada <sup>1</sup> .....	31.19	33.35	33.46	35.99	37.26	43.85	-6.5	-4.3	-3.7
Mexico .....	47.61	48.76	48.93	47.36	47.81	50.48	-2.4	-1	-6
Other <sup>2</sup> .....	-	-	-	-	-	57.72	-	-	-100.0
<b>South America Total</b> .....	<b>37.68</b>	<b>41.67</b>	<b>43.49</b>	<b>44.61</b>	<b>44.51</b>	<b>54.20</b>	<b>-9.6</b>	<b>-4.1</b>	<b>-3.9</b>
Brazil .....	37.68	41.57	43.33	44.73	44.74	54.28	-9.4	-4.2	-4.0
Other <sup>2</sup> .....	42.55	43.50	47.97	41.11	41.12	53.62	-2.2	.8	-2.5
<b>Europe Total</b> .....	<b>42.20</b>	<b>45.43</b>	<b>46.72</b>	<b>47.68</b>	<b>46.91</b>	<b>54.86</b>	<b>-7.1</b>	<b>-2.6</b>	<b>-2.9</b>
Belgium & Luxembourg .....	42.06	45.92	47.43	48.68	46.86	55.47	-8.4	-2.7	-3.0
Bulgaria .....	39.80	43.23	45.55	43.36	44.89	57.16	-7.9	-3.0	-3.9
Finland .....	35.37	39.28	42.56	44.21	43.47	51.70	-9.9	-5.0	-4.1
France .....	40.88	44.96	46.32	47.13	45.96	52.36	-9.1	-2.9	-2.7
Germany, FR .....	40.71	45.01	46.95	49.87	48.44	53.90	-9.5	-4.2	-3.1
Iceland .....	51.92	54.20	58.22	57.43	57.13	58.58	-4.2	-2.4	-1.3
Ireland .....	-	-	36.72	-	-	-	-	-	-
Italy .....	44.25	46.58	47.94	47.90	47.51	55.35	-5.0	-1.8	-2.4
Netherlands .....	41.54	45.47	46.22	47.29	47.46	54.48	-8.6	-3.3	-3.0
Norway .....	52.10	54.02	57.29	57.05	57.51	63.58	-3.6	-2.4	-2.2
Portugal .....	39.81	44.12	43.48	45.20	47.35	52.93	-9.8	-4.2	-3.1
Romania .....	37.53	41.04	44.46	46.95	43.86	55.37	-8.5	-3.8	-4.2
Spain .....	44.56	47.15	48.31	50.92	49.97	56.61	-5.5	-2.8	-2.6
Sweden .....	43.27	45.74	47.30	48.20	49.14	56.38	-5.4	-3.1	-2.9
Turkey .....	36.81	43.58	45.22	44.54	44.12	53.36	-15.5	-4.4	-4.0
United Kingdom .....	42.72	46.31	47.59	49.08	48.13	56.06	-7.8	-2.9	-3.0
Other <sup>2</sup> .....	-	-	-	-	-	52.60	-	-	-100.0
<b>Asia Total</b> .....	<b>40.39</b>	<b>42.28</b>	<b>42.83</b>	<b>43.45</b>	<b>43.20</b>	<b>53.46</b>	<b>-4.5</b>	<b>-1.7</b>	<b>-3.1</b>
China (Taiwan) .....	35.56	41.26	42.15	45.24	45.34	54.89	-13.8	-5.9	-4.7
Israel .....	-	34.61	39.05	40.91	41.71	50.45	-100.0	-100.0	-100.0
Japan .....	38.56	41.02	40.90	42.19	41.94	52.79	-6.0	-2.1	-3.4
Korea, Republic of .....	43.03	45.34	46.79	46.08	46.87	55.62	-5.1	-2.1	-2.8
Other <sup>2</sup> .....	54.43	55.99	56.34	59.36	-	-	-2.8	-	-
<b>Oceania &amp; Australia Total</b> .....	<b>-</b>	<b>53.45</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>31.49</b>	<b>-100.0</b>	<b>-</b>	<b>-100.0</b>
Other <sup>2</sup> .....	-	53.45	-	-	-	31.49	-100.0	-	-100.0
<b>Africa Total</b> .....	<b>46.39</b>	<b>44.54</b>	<b>48.77</b>	<b>50.87</b>	<b>49.46</b>	<b>55.20</b>	<b>4.2</b>	<b>-1.6</b>	<b>-1.9</b>
Algeria .....	40.89	42.46	45.77	50.23	48.72	55.98	-3.7	-4.3	-3.4
Egypt .....	53.75	42.29	50.35	53.38	50.33	54.39	27.1	1.6	-1
South Africa, Rep of .....	46.04	46.68	47.76	49.55	48.30	58.05	-1.4	-1.2	-2.5
Other <sup>2</sup> .....	-	-	-	30.30	-	-	-	-	-
<b>Total</b> <sup>3</sup> .....	<b>40.02</b>	<b>43.14</b>	<b>44.51</b>	<b>45.40</b>	<b>45.10</b>	<b>53.71</b>	<b>-7.2</b>	<b>-2.9</b>	<b>-3.2</b>
<b>U.S. Total</b> <sup>4</sup> .....	<b>40.07</b>	<b>43.24</b>	<b>44.60</b>	<b>45.49</b>	<b>45.16</b>	<b>53.77</b>	<b>-7.3</b>	<b>-2.9</b>	<b>-3.2</b>

<sup>1</sup> 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.

<sup>2</sup> Includes countries with exports less than or equal to 50,000 short tons in 1999.

<sup>3</sup> 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 (nominal) per short ton, inclusively.

<sup>4</sup> U.S. Total is the average price of all coal exports.

Notes: Real prices are in 1996 dollars, calculated using implicit Gross Domestic Product price deflators. See Appendix D, Table D2. Average prices are based on the free alongside ship (f.a.s.) value.

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



**Table 103. Average Price of U.S. Steam Coal Exports by Destination, 1990, 1995-1999**  
(Nominal Dollars per Short Ton)

Continent and Country of Destination	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>\$27.72</b>	<b>\$26.76</b>	<b>\$28.26</b>	<b>\$29.41</b>	<b>\$31.06</b>	<b>\$30.67</b>	<b>3.6</b>	<b>-2.8</b>	<b>-1.1</b>
Canada <sup>1</sup> .....	26.28	25.51	26.64	28.06	30.46	30.48	3.0	-3.6	-1.6
Mexico .....	43.13	38.48	38.67	36.21	35.60	38.04	12.1	4.9	1.4
Other <sup>2</sup> .....	36.16	37.38	38.08	38.03	34.29	34.16	-3.3	1.3	.6
<b>South America Total</b> .....	<b>33.67</b>	<b>37.82</b>	<b>38.78</b>	<b>34.94</b>	<b>35.66</b>	<b>37.16</b>	<b>-11.0</b>	<b>-1.4</b>	<b>-1.1</b>
Brazil .....	39.00	40.81	42.12	40.57	34.81	42.44	-4.4	2.9	-9
Other <sup>2</sup> .....	31.44	37.56	38.13	33.90	35.70	35.83	-16.3	-3.1	-1.4
<b>Europe Total</b> .....	<b>27.09</b>	<b>31.22</b>	<b>32.52</b>	<b>33.71</b>	<b>34.33</b>	<b>38.64</b>	<b>-13.2</b>	<b>-5.7</b>	<b>-3.9</b>
Belgium & Luxembourg .....	38.47	35.91	36.34	36.69	35.07	37.64	7.1	2.3	.2
Bulgaria .....	-	-	-	50.55	-	48.99	-	-	-100.0
Finland .....	-	-	36.20	35.23	35.53	-	-	-100.0	-
France .....	38.23	36.14	34.84	36.14	35.13	37.07	5.8	2.1	.3
Germany, FR .....	28.22	30.70	35.04	31.92	33.31	35.29	-8.1	-4.1	-2.4
Iceland .....	-	-	-	57.93	-	43.59	-	-	-100.0
Ireland .....	29.92	36.38	38.13	37.35	36.07	39.05	-17.7	-4.5	-2.9
Italy .....	46.39	37.66	39.30	41.20	41.70	40.76	23.2	2.7	1.4
Netherlands .....	27.16	27.91	32.52	32.94	36.45	39.14	-2.7	-7.1	-4.0
Norway .....	-	56.66	-	-	-	52.77	-100.0	-	-100.0
Portugal .....	24.48	33.60	35.48	35.60	36.28	39.96	-27.2	-9.4	-5.3
Romania .....	-	-	29.17	-	39.08	-	-	-100.0	-
Spain .....	21.40	22.43	22.38	22.14	21.37	35.64	-4.6	*	-5.5
Sweden .....	-	-	-	39.21	48.54	35.00	-	-100.0	-100.0
Turkey .....	40.80	40.78	42.02	41.28	30.98	39.30	*	7.1	.4
United Kingdom .....	28.16	28.64	29.99	28.82	30.63	43.00	-1.7	-2.1	-4.6
Other <sup>2</sup> .....	40.00	34.03	31.78	30.15	29.63	34.43	17.5	7.8	1.7
<b>Asia Total</b> .....	<b>31.59</b>	<b>34.18</b>	<b>34.94</b>	<b>35.84</b>	<b>34.63</b>	<b>38.11</b>	<b>-7.6</b>	<b>-2.3</b>	<b>-2.1</b>
China (Taiwan) .....	34.12	34.46	34.71	35.33	35.66	37.81	-1.0	-1.1	-1.1
Israel .....	31.81	33.15	35.92	35.12	34.63	39.02	-4.0	-2.1	-2.2
Japan .....	32.10	33.88	34.97	36.31	35.03	37.87	-5.3	-2.1	-1.8
Korea, Republic of .....	24.95	35.43	35.01	35.32	32.01	39.63	-29.6	-6.0	-5.0
Other <sup>2</sup> .....	39.54	43.53	33.56	38.26	30.41	38.91	-9.1	6.8	.2
<b>Oceania &amp; Australia Total</b> .....	<b>-</b>	<b>37.25</b>	<b>40.79</b>	<b>40.71</b>	<b>39.87</b>	<b>36.60</b>	<b>-100.0</b>	<b>-100.0</b>	<b>-100.0</b>
Other <sup>2</sup> .....	-	37.25	40.79	40.71	39.87	36.60	-100.0	-100.0	-100.0
<b>Africa Total</b> .....	<b>-</b>	<b>32.38</b>	<b>32.31</b>	<b>34.02</b>	<b>33.01</b>	<b>31.34</b>	<b>-100.0</b>	<b>-100.0</b>	<b>-100.0</b>
Egypt .....	-	39.88	40.73	40.78	40.81	35.91	-100.0	-100.0	-100.0
South Africa, Rep of .....	-	-	-	-	39.80	-	-	-100.0	-
Other <sup>2</sup> .....	-	32.31	32.22	34.01	33.00	31.34	-100.0	-100.0	-100.0
<b>Total</b> <sup>3</sup> .....	<b>28.41</b>	<b>29.34</b>	<b>31.61</b>	<b>33.51</b>	<b>33.89</b>	<b>36.30</b>	<b>-3.1</b>	<b>-4.3</b>	<b>-2.7</b>
<b>U.S. Total</b> <sup>4</sup> .....	<b>29.91</b>	<b>30.24</b>	<b>32.42</b>	<b>34.09</b>	<b>34.51</b>	<b>36.81</b>	<b>-1.1</b>	<b>-3.5</b>	<b>-2.3</b>

<sup>1</sup> 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.

<sup>2</sup> Includes countries with exports less than or equal to 50,000 short tons in 1999.

<sup>3</sup> 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.

<sup>4</sup> U.S. Total is the average price of all coal exports.

\* Data round to zero.

Notes: Average price is based on the free alongside ship (f.a.s.) value. Steam coal includes bituminous, subbituminous, lignite, and anthracite.

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

**Table 104. Average Real Price of U.S. Steam Coal Exports by Destination, 1990, 1995-1999**  
(Real Dollars per Short Ton)

Continent and Country of Destination	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>\$26.50</b>	<b>\$25.96</b>	<b>\$27.73</b>	<b>\$29.41</b>	<b>\$31.67</b>	<b>\$35.46</b>	<b>2.1</b>	<b>-4.3</b>	<b>-3.2</b>
Canada <sup>1</sup> .....	25.13	24.74	26.15	28.06	31.05	35.24	1.6	-5.1	-3.7
Mexico .....	41.23	37.33	37.95	36.21	36.29	43.97	10.5	3.2	-7
Other <sup>2</sup> .....	34.57	36.26	37.37	38.03	34.96	39.49	-4.6	-3	-1.5
<b>South America Total</b> .....	<b>32.19</b>	<b>36.68</b>	<b>38.05</b>	<b>34.94</b>	<b>36.35</b>	<b>42.96</b>	<b>-12.2</b>	<b>-3.0</b>	<b>-3.1</b>
Brazil .....	37.29	39.58	41.33	40.57	35.49	49.06	-5.8	1.2	-3.0
Other <sup>2</sup> .....	30.05	36.43	37.42	33.90	36.39	41.42	-17.5	-4.7	-3.5
<b>Europe Total</b> .....	<b>25.90</b>	<b>30.28</b>	<b>31.92</b>	<b>33.71</b>	<b>34.99</b>	<b>44.67</b>	<b>-14.5</b>	<b>-7.2</b>	<b>-5.9</b>
Belgium & Luxembourg.....	36.78	34.83	35.66	36.69	35.74	43.51	5.6	.7	-1.8
Bulgaria .....	-	-	-	50.55	-	56.63	-	-	-100.0
Finland .....	-	-	35.52	35.23	36.22	-	-	-100.0	-
France .....	36.55	35.05	34.19	36.14	35.81	42.86	4.3	.5	-1.8
Germany, FR .....	26.98	29.78	34.38	31.92	33.96	40.80	-9.4	-5.6	-4.5
Iceland .....	-	-	-	57.93	-	50.40	-	-	-100.0
Ireland .....	28.61	35.29	37.42	37.35	36.76	45.15	-18.9	-6.1	-4.9
Italy .....	44.35	36.53	38.56	41.20	42.51	47.12	21.4	1.1	-7
Netherlands.....	25.96	27.08	31.92	32.94	37.16	45.25	-4.1	-8.6	-6.0
Norway .....	-	54.95	-	-	-	61.00	-100.0	-	-100.0
Portugal.....	23.40	32.59	34.82	35.60	36.98	46.19	-28.2	-10.8	-7.3
Romania.....	-	-	28.62	-	39.84	-	-	-100.0	-
Spain .....	20.46	21.75	21.96	22.14	21.79	41.20	-5.9	-1.6	-7.5
Sweden .....	-	-	-	39.21	49.48	40.46	-	-100.0	-100.0
Turkey.....	39.01	39.55	41.24	41.28	31.58	45.43	-1.4	5.4	-1.7
United Kingdom.....	26.92	27.78	29.43	28.82	31.22	49.72	-3.1	-3.6	-6.6
Other <sup>2</sup> .....	38.24	33.00	31.18	30.15	30.20	39.80	15.9	6.1	-4
<b>Asia Total</b> .....	<b>30.20</b>	<b>33.15</b>	<b>34.28</b>	<b>35.84</b>	<b>35.30</b>	<b>44.06</b>	<b>-8.9</b>	<b>-3.8</b>	<b>-4.1</b>
China (Taiwan).....	32.62	33.42	34.06	35.33	36.35	43.71	-2.4	-2.7	-3.2
Israel .....	30.41	32.15	35.25	35.12	35.30	45.11	-5.4	-3.7	-4.3
Japan .....	30.69	32.87	34.32	36.31	35.71	43.78	-6.6	-3.7	-3.9
Korea, Republic of.....	23.85	34.37	34.35	35.32	32.63	45.82	-30.6	-7.5	-7.0
Other <sup>2</sup> .....	37.80	42.22	32.93	38.26	31.00	44.99	-10.4	5.1	-1.9
<b>Oceania &amp; Australia Total</b> .....	<b>-</b>	<b>36.13</b>	<b>40.03</b>	<b>40.71</b>	<b>40.64</b>	<b>42.32</b>	<b>-100.0</b>	<b>-100.0</b>	<b>-100.0</b>
Other <sup>2</sup> .....	-	36.13	40.03	40.71	40.64	42.32	-100.0	-100.0	-100.0
<b>Africa Total</b> .....	<b>-</b>	<b>31.41</b>	<b>31.71</b>	<b>34.02</b>	<b>33.65</b>	<b>36.23</b>	<b>-100.0</b>	<b>-100.0</b>	<b>-100.0</b>
Egypt.....	-	38.68	39.97	40.78	41.60	41.51	-100.0	-100.0	-100.0
South Africa, Rep of.....	-	-	-	-	40.57	-	-	-100.0	-
Other <sup>2</sup> .....	-	31.34	31.62	34.01	33.63	36.23	-100.0	-100.0	-100.0
<b>Total</b> <sup>3</sup> .....	<b>27.17</b>	<b>28.46</b>	<b>31.02</b>	<b>33.51</b>	<b>34.54</b>	<b>41.97</b>	<b>-4.5</b>	<b>-5.8</b>	<b>-4.7</b>
<b>U.S. Total</b> <sup>4</sup> .....	<b>28.59</b>	<b>29.33</b>	<b>31.82</b>	<b>34.09</b>	<b>35.18</b>	<b>42.56</b>	<b>-2.5</b>	<b>-5.0</b>	<b>-4.3</b>

<sup>1</sup> 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.

<sup>2</sup> Includes countries with exports less than or equal to 50,000 short tons in 1999.

<sup>3</sup> 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 (nominal) per short ton, inclusively.

<sup>4</sup> U.S. Total is the average price of all coal exports.

Notes: Real prices are in 1996 dollars, calculated using implicit Gross Domestic Product price deflators. See Appendix D, Table D2. Average prices are based on the free alongside ship (f.a.s.) value. Steam coal includes bituminous, subbituminous, lignite, and anthracite.

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

# Coal Quality

**Table 105. Estimate of Recoverable Reserves of Coal by Sulfur Range, State, and Mine Type**  
(Million Short Tons Remaining as of January 1, 1997)

State and Type of Mining	Sulfur Content (pounds of sulfur per million Btu)						Total
	<= 0.40	0.41 - 0.60	0.61 - 0.83	0.84 - 1.67	1.68 - 2.50	> 2.50	
<b>Alabama</b> .....	—	<b>403</b>	<b>367</b>	<b>2,010</b>	<b>190</b>	—	<b>2,970</b>
Surface .....	—	253	267	1,664	136	—	2,320
Underground .....	—	150	100	347	54	—	650
<b>Alaska, Southern</b> .....	<b>251</b>	<b>94</b>	—	—	—	—	<b>2,544</b>
Surface .....	383	41	—	—	—	—	424
Underground .....	2,067	53	—	—	—	—	2,120
<b>Alaska, Northern</b> .....	—	—	—	—	—	—	—
Surface .....	—	—	—	—	—	—	—
Underground .....	—	—	—	—	—	—	—
<b>Arizona</b> .....	—	<b>98</b>	—	—	—	—	<b>98</b>
Surface .....	—	47	—	—	—	—	47
Underground .....	—	51	—	—	—	—	51
<b>Arkansas</b> <sup>1</sup> .....	—	<b>8</b>	<b>163</b>	<b>44</b>	<b>6</b>	<b>7</b>	<b>228</b>
Surface .....	—	2	73	24	1	1	101
Underground .....	—	7	90	20	5	6	127
<b>Colorado</b> <sup>1</sup> .....	<b>3,646</b>	<b>2,298</b>	<b>3,681</b>	<b>324</b>	<b>95</b>	—	<b>10,045</b>
Surface .....	264	116	3,325	41	14	—	3,759
Underground .....	3,382	2,183	357	283	81	—	6,286
<b>Georgia</b> .....	<b>1</b>	<b>1</b>	*	*	*	*	<b>2</b>
Surface .....	*	*	*	*	*	*	1
Underground .....	*	*	*	*	*	*	1
<b>Idaho</b> .....	*	<b>1</b>	<b>1</b>	<b>1</b>	—	—	<b>2</b>
Surface .....	—	—	—	—	—	—	—
Underground .....	*	1	1	1	—	—	2
<b>Illinois</b> .....	<b>46</b>	<b>188</b>	<b>407</b>	<b>1,540</b>	<b>1,588</b>	<b>34,437</b>	<b>38,206</b>
Surface .....	—	—	3	203	339	9,561	10,106
Underground .....	46	188	404	1,337	1,249	24,876	28,099
<b>Indiana</b> .....	—	<b>308</b>	<b>183</b>	<b>667</b>	<b>1,116</b>	<b>2,014</b>	<b>4,287</b>
Surface .....	—	60	26	101	141	290	618
Underground .....	—	248	157	566	975	1,724	3,669
<b>Iowa</b> .....	—	—	—	—	<b>407</b>	<b>720</b>	<b>1,127</b>
Surface .....	—	—	—	—	320	—	320
Underground .....	—	—	—	—	87	720	807
<b>Kansas</b> .....	—	—	—	—	<b>226</b>	<b>457</b>	<b>683</b>
Surface .....	—	—	—	—	226	457	683
Underground .....	—	—	—	—	—	—	—
<b>Kentucky, Eastern</b> .....	<b>169</b>	<b>2,011</b>	<b>1,388</b>	<b>1,713</b>	<b>833</b>	<b>636</b>	<b>6,750</b>
Surface .....	138	1,637	1,130	1,394	678	518	5,495
Underground .....	32	374	258	318	155	118	1,255
<b>Kentucky, Western</b> .....	—	—	—	<b>155</b>	<b>2,706</b>	<b>6,366</b>	<b>9,227</b>
Surface .....	—	—	—	124	919	1,267	2,310
Underground .....	—	—	—	31	1,787	5,099	6,917
<b>Louisiana</b> .....	—	—	—	<b>343</b>	—	—	<b>343</b>
Surface .....	—	—	—	343	—	—	343
Underground .....	—	—	—	—	—	—	—
<b>Maryland</b> .....	—	<b>31</b>	<b>56</b>	<b>116</b>	<b>201</b>	—	<b>403</b>
Surface .....	—	3	8	13	31	—	54
Underground .....	—	28	49	103	169	—	349
<b>Michigan</b> .....	—	—	<b>8</b>	<b>23</b>	<b>16</b>	<b>11</b>	<b>59</b>
Surface .....	—	—	1	2	1	*	3
Underground .....	—	—	8	21	16	11	55
<b>Missouri</b> .....	—	—	—	—	<b>170</b>	<b>3,680</b>	<b>3,850</b>
Surface .....	—	—	—	—	150	3,011	3,161
Underground .....	—	—	—	—	20	670	689
<b>Montana</b> .....	<b>33,529</b>	<b>16,816</b>	<b>16,761</b>	<b>4,811</b>	<b>2,022</b>	<b>1,371</b>	<b>75,310</b>
Surface .....	17,966	6,983	9,484	2,440	1,609	905	39,387
Underground .....	15,563	9,833	7,277	2,371	413	466	35,923
<b>New Mexico</b> <sup>1</sup> .....	<b>60</b>	<b>2,429</b>	<b>1,601</b>	<b>3,048</b>	—	—	<b>7,138</b>
Surface .....	36	1,045	1,096	2,099	—	—	4,276
Underground .....	25	1,384	505	949	—	—	2,863
<b>North Carolina</b> .....	—	—	*	<b>2</b>	<b>2</b>	<b>1</b>	<b>5</b>
Surface .....	—	—	—	—	—	—	—
Underground .....	—	—	*	2	2	1	5
<b>North Dakota</b> .....	<b>432</b>	<b>744</b>	<b>1,364</b>	<b>3,410</b>	<b>850</b>	<b>366</b>	<b>7,167</b>
Surface .....	432	744	1,364	3,410	850	366	7,167
Underground .....	—	—	—	—	—	—	—
<b>Ohio</b> .....	<b>81</b>	<b>168</b>	<b>334</b>	<b>1,045</b>	<b>2,626</b>	<b>7,418</b>	<b>11,672</b>
Surface .....	20	96	167	413	858	2,291	3,846
Underground .....	61	73	167	632	1,767	5,127	7,826

See footnotes at end of table.

**Table 105. Estimate of Recoverable Reserves of Coal by Sulfur Range, State, and Mine Type (Continued)**  
(Million Short Tons Remaining as of January 1, 1997)

State and Type of Mining	Sulfur Content (pounds of sulfur per million Btu)						Total
	< = 0.40	0.41 - 0.60	0.61 - 0.83	0.84 - 1.67	1.68 - 2.50	> 2.50	
<b>Oklahoma</b> .....	—	<b>219</b>	<b>123</b>	<b>178</b>	<b>113</b>	<b>180</b>	<b>813</b>
Surface .....	—	65	25	33	33	80	237
Underground .....	—	154	98	144	80	100	576
<b>Oregon</b> .....	<b>4</b>	<b>1</b>	<b>3</b>	—	<b>1</b>	<b>1</b>	<b>9</b>
Surface .....	1	*	1	—	*	*	2
Underground .....	3	1	2	—	1	1	7
<b>Pennsylvania, Anthracite</b> .....	<b>180</b>	<b>467</b>	<b>96</b>	<b>17</b>	<b>2</b>	<b>*</b>	<b>762</b>
Surface .....	85	262	61	11	1	*	422
Underground .....	95	205	35	6	1	—	341
<b>Pennsylvania, Bituminous</b> .....	—	<b>280</b>	<b>798</b>	<b>4,949</b>	<b>4,109</b>	<b>1,500</b>	<b>11,635</b>
Surface .....	—	22	62	295	219	130	728
Underground .....	—	258	736	4,654	3,890	1,370	10,907
<b>South Dakota</b> .....	—	—	<b>104</b>	<b>1</b>	<b>172</b>	—	<b>277</b>
Surface .....	—	—	104	1	172	—	277
Underground .....	—	—	—	—	—	—	—
<b>Tennessee</b> .....	—	<b>105</b>	<b>61</b>	<b>221</b>	<b>97</b>	—	<b>484</b>
Surface .....	—	38	23	92	40	—	193
Underground .....	—	67	38	129	58	—	291
<b>Texas</b> .....	—	—	<b>584</b>	<b>5,623</b>	<b>3,375</b>	<b>373</b>	<b>9,954</b>
Surface .....	—	—	584	5,623	3,375	372	9,954
Underground .....	—	—	—	—	—	—	—
<b>Utah</b> .....	<b>372</b>	<b>666</b>	<b>544</b>	<b>850</b>	<b>221</b>	<b>296</b>	<b>2,949</b>
Surface .....	8	32	19	85	35	34	212
Underground .....	363	634	525	765	186	262	2,737
<b>Virginia</b> <sup>1</sup> .....	<b>184</b>	<b>598</b>	<b>382</b>	<b>126</b>	—	—	<b>1,290</b>
Surface .....	42	190	156	44	—	—	432
Underground .....	143	408	227	82	—	—	858
<b>Washington</b> .....	<b>63</b>	<b>92</b>	<b>92</b>	<b>473</b>	—	—	<b>720</b>
Surface .....	—	—	6	39	—	—	45
Underground .....	63	92	86	434	—	—	675
<b>West Virginia</b> .....	<b>639</b>	<b>6,358</b>	<b>2,682</b>	<b>3,975</b>	<b>2,489</b>	<b>3,179</b>	<b>19,322</b>
Surface .....	112	1,414	550	436	177	106	2,794
Underground .....	528	4,945	2,131	3,539	2,312	3,073	16,528
<b>Wyoming</b> .....	<b>6,654</b>	<b>17,325</b>	<b>10,065</b>	<b>7,396</b>	<b>1,158</b>	<b>2,216</b>	<b>44,813</b>
Surface .....	4,303	8,563	4,015	2,274	517	2,184	21,855
Underground .....	2,351	8,762	6,050	5,122	640	33	22,959
<b>U.S. Total</b> .....	<b>48,512</b>	<b>51,708</b>	<b>41,847</b>	<b>43,060</b>	<b>24,788</b>	<b>65,229</b>	<b>275,143</b>
Surface .....	23,790	21,612	22,549	21,203	10,842	21,575	121,570
Underground .....	24,722	30,096	19,298	21,857	13,946	43,654	153,573

<sup>1</sup> Data include minor amounts of anthracite (all occurring in heat content categories greater than 23.00 million short tons) as follows: Arkansas 52.2, Colorado 13.4, New Mexico 1.2, and Virginia 70.5, expressed in million short tons.

\* Data round to zero.

Note: Totals may not equal sum of components due to independent rounding.

Source: Energy Information Administration, *U.S. Coal Reserves: A Review and Update* (DOE/EIA-0529(95)), August, 1996, and further updates.

**Table 106. Average Quality of Coal Received at Electric Utilities by Census Division and State, 1990, 1995-1999**

Census Division and State and Quality <sup>1</sup>	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England</b>									
Btu .....	13,147	12,810	12,756	12,793	12,848	13,136	3	1	*
Sulfur .....	1.22	.87	.86	.85	.84	1.24	40.6	9.8	-0.2
Ash .....	6.48	7.85	7.79	7.75	7.48	7.43	-17.5	-3.5	-1.5
<b>Connecticut</b>									
Btu .....	13,541	13,138	13,132	13,100	13,110	13,233	3	1	*
Sulfur .....	.61	.53	.54	.54	.56	.54	14.8	2.0	1.4
Ash .....	4.85	6.80	7.20	7.14	7.05	6.36	-28.6	-8.9	-3.0
<b>Massachusetts</b>									
Btu .....	13,160	12,617	12,571	12,633	12,698	13,062	4	1	*
Sulfur .....	.86	.72	.72	.71	.71	1.23	19.9	4.8	-3.9
Ash .....	7.22	8.52	8.24	8.07	7.83	7.89	-15.3	-2.0	-1.0
<b>New Hampshire</b>									
Btu .....	13,133	13,133	13,054	13,146	13,111	13,303	*	*	*
Sulfur .....	1.35	1.40	1.42	1.56	1.38	1.81	-4.1	-6	-3.3
Ash .....	6.31	6.71	6.88	7.02	6.74	6.75	-6.0	-1.6	-7
<b>Middle Atlantic</b>									
Btu .....	12,638	12,478	12,436	12,460	12,474	12,409	1	*	*
Sulfur .....	2.04	2.07	2.05	2.01	2.03	2.05	-1.7	.1	-1
Ash .....	10.81	11.84	12.03	11.80	11.93	12.38	-8.6	-2.4	-1.5
<b>New Jersey</b>									
Btu .....	13,150	13,113	13,084	12,993	13,282	13,429	*	*	*
Sulfur .....	1.14	1.13	1.24	1.36	1.21	1.16	.7	-1.5	-2
Ash .....	8.64	8.70	8.54	9.02	7.51	7.36	-8	3.5	1.8
<b>New York</b>									
Btu .....	13,034	13,052	13,105	13,013	13,051	12,846	*	*	*
Sulfur .....	1.67	1.75	1.80	1.80	1.79	1.84	-4.3	-1.7	-1.0
Ash .....	7.52	7.79	7.63	7.91	7.90	9.13	-3.4	-1.2	-2.1
<b>Pennsylvania</b>									
Btu .....	12,552	12,323	12,279	12,321	12,315	12,241	2	*	*
Sulfur .....	2.15	2.19	2.13	2.09	2.12	2.16	-1.9	.3	*
Ash .....	11.37	12.86	13.03	12.72	12.97	13.46	-11.5	-3.2	-1.8
<b>East North Central</b>									
Btu .....	10,562	10,589	10,588	10,611	10,676	10,988	*	*	*
Sulfur .....	1.28	1.33	1.35	1.36	1.28	1.82	-3.8	*	-3.8
Ash .....	8.02	8.12	8.22	8.07	8.00	8.93	-1.2	.1	-1.2
<b>Illinois</b>									
Btu .....	9,560	9,700	9,781	9,878	9,970	10,789	-1	-1	-1
Sulfur .....	1.03	1.10	1.17	1.16	1.14	2.07	-6.7	-2.5	-7.5
Ash .....	6.76	6.91	7.04	6.98	7.01	8.81	-2.1	-9	-2.9
<b>Indiana</b>									
Btu .....	10,620	10,517	10,461	10,357	10,338	10,562	1	1	*
Sulfur .....	1.58	1.63	1.61	1.59	1.57	2.06	-2.9	.2	-2.9
Ash .....	7.84	7.94	7.90	7.76	7.65	8.58	-1.2	.6	-1.0
<b>Michigan</b>									
Btu .....	10,487	10,563	10,566	10,504	10,677	11,131	-1	*	-1
Sulfur .....	.62	.67	.67	.63	.63	.70	-7.6	-5	-1.4
Ash .....	6.49	6.41	6.65	6.59	6.66	6.79	1.1	-6	-5
<b>Ohio</b>									
Btu .....	11,918	11,913	11,891	12,056	12,122	11,882	*	*	*
Sulfur .....	1.98	2.01	2.01	2.08	1.89	2.44	-1.6	1.1	-2.3
Ash .....	11.31	11.45	11.53	11.01	10.84	11.47	-1.3	1.0	-1
<b>Wisconsin</b>									
Btu .....	9,115	9,299	9,375	9,222	9,351	9,642	-2	-1	-1
Sulfur .....	.39	.46	.50	.46	.46	.81	-15.3	-3.9	-7.8
Ash .....	5.42	5.55	5.74	5.74	6.03	6.33	-2.3	-2.6	-1.7
<b>West North Central</b>									
Btu .....	8,347	8,388	8,394	8,430	8,418	8,701	*	*	*
Sulfur .....	.45	.47	.51	.53	.54	.96	-3.8	-4.4	-8.1
Ash .....	6.18	6.15	6.31	6.38	6.41	7.41	.5	-9	-2.0
<b>Iowa</b>									
Btu .....	8,581	8,636	8,662	8,658	8,678	8,892	-1	*	*
Sulfur .....	.40	.44	.45	.45	.49	.70	-8.9	-4.8	-6.0
Ash .....	5.54	5.57	5.53	5.61	5.60	5.98	-6	-3	-8

See footnotes at end of table.

**Table 106. Average Quality of Coal Received at Electric Utilities by Census Division and State, 1990, 1995-1999 (Continued)**

Census Division and State and Quality <sup>1</sup>	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Kansas</b>									
Btu .....	8,628	8,696	8,766	8,827	8,730	8,948	-1	*	*
Sulfur .....	.43	.45	.48	.49	.43	.58	-5.1	-0.1	-3.3
Ash .....	5.35	5.45	5.52	5.52	5.46	5.81	-1.8	-5	-9
<b>Minnesota</b>									
Btu .....	8,883	8,883	8,895	8,914	8,828	8,788	*	*	*
Sulfur .....	.44	.44	.45	.45	.47	.51	-1.0	-1.8	-1.7
Ash .....	6.27	6.29	6.32	6.32	6.71	7.58	-2	-1.7	-2.1
<b>Missouri</b>									
Btu .....	8,948	8,938	8,994	9,063	9,216	10,400	*	-1	-2
Sulfur .....	.34	.37	.47	.58	.57	2.01	-8.9	-12.5	-18.0
Ash .....	5.04	5.18	5.32	5.62	5.69	8.33	-2.6	-3.0	-5.4
<b>Nebraska</b>									
Btu .....	8,498	8,584	8,595	8,599	8,594	8,561	-1	*	*
Sulfur .....	.30	.27	.32	.34	.33	.35	9.0	-2.9	-2.0
Ash .....	5.06	4.77	4.79	5.11	5.16	5.05	6.1	-5	*
<b>North Dakota</b>									
Btu .....	6,547	6,566	6,559	6,597	6,585	6,636	*	*	*
Sulfur .....	.75	.76	.77	.72	.74	.81	-8	.5	-8
Ash .....	9.39	9.10	9.38	9.32	9.29	9.26	3.2	.2	.1
<b>South Dakota</b>									
Btu .....	8,630	8,728	8,687	9,034	6,972	6,096	-1	5	4
Sulfur .....	.60	.72	.63	.52	.87	.90	-17.2	-9.0	-4.4
Ash .....	8.67	9.12	8.88	6.66	4.96	8.44	-4.8	15.0	.3
<b>South Atlantic</b>									
Btu .....	12,344	12,296	12,311	12,285	12,324	12,395	*	*	*
Sulfur .....	1.26	1.26	1.29	1.27	1.27	1.52	*	-3	-2.1
Ash .....	9.83	9.92	10.05	9.75	9.71	9.99	-9	.3	-2
<b>Delaware</b>									
Btu .....	12,935	12,962	13,062	13,020	13,085	13,035	*	*	*
Sulfur .....	.97	.98	.99	1.01	1.00	.97	-1.0	-7	*
Ash .....	9.26	8.93	8.65	8.72	8.56	8.71	3.7	2.0	.7
<b>Florida</b>									
Btu .....	12,299	12,144	12,122	12,193	12,296	12,364	1	*	*
Sulfur .....	1.53	1.55	1.59	1.55	1.47	1.73	-1.4	.9	-1.4
Ash .....	8.06	8.01	8.40	7.96	8.09	8.44	.5	-1	-5
<b>Georgia</b>									
Btu .....	11,740	11,750	11,755	11,581	11,576	11,893	*	*	*
Sulfur .....	.80	.85	.84	.83	.81	1.63	-5.9	-5	-7.6
Ash .....	9.30	9.40	9.42	8.84	8.87	9.81	-1.0	1.2	-6
<b>Maryland</b>									
Btu .....	12,943	12,914	12,913	12,879	12,965	12,734	*	*	*
Sulfur .....	1.12	1.17	1.14	1.11	1.06	1.44	-4.6	1.4	-2.8
Ash .....	9.30	9.04	9.42	9.49	9.32	10.48	2.8	-1	-1.3
<b>North Carolina</b>									
Btu .....	12,450	12,398	12,368	12,422	12,461	12,544	*	*	*
Sulfur .....	.85	.89	.90	.89	.86	.96	-5.2	-4	-1.3
Ash .....	10.39	10.53	10.50	10.16	10.20	9.89	-1.3	.5	.5
<b>South Carolina</b>									
Btu .....	12,809	12,805	12,855	12,757	12,852	12,655	*	*	*
Sulfur .....	1.16	1.20	1.20	1.21	1.19	1.19	-3.7	-7	-4
Ash .....	8.78	8.90	8.70	8.90	8.53	9.21	-1.4	.7	-5
<b>Virginia</b>									
Btu .....	12,702	12,603	12,554	12,597	12,743	12,714	1	*	*
Sulfur .....	1.30	.97	1.01	.99	1.03	.96	33.9	6.2	3.4
Ash .....	9.62	9.96	11.58	11.02	10.21	9.84	-3.4	-1.5	-3
<b>West Virginia</b>									
Btu .....	12,361	12,305	12,398	12,378	12,418	12,452	*	*	*
Sulfur .....	1.84	1.86	1.95	1.93	1.98	1.89	-1.2	-1.8	-3
Ash .....	11.78	12.17	11.88	11.78	11.88	11.55	-3.2	-2	.2
<b>East South Central</b>									
Btu .....	11,376	11,543	11,584	11,714	11,808	11,855	-1	-1	*
Sulfur .....	1.60	1.71	1.83	1.86	1.87	2.10	-6.4	-3.8	-3.0
Ash .....	10.10	10.58	10.65	10.60	10.58	11.12	-4.6	-1.1	-1.1

See footnotes at end of table.

**Table 106. Average Quality of Coal Received at Electric Utilities by Census Division and State, 1990, 1995-1999 (Continued)**

Census Division and State and Quality <sup>1</sup>	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Alabama</b>									
Btu .....	10,963	11,519	11,584	11,794	11,861	12,094	-5	-2	-1
Sulfur .....	1.02	1.13	1.13	1.24	1.20	1.51	-9.7	-3.8	-4.2
Ash .....	9.32	10.45	10.49	10.71	10.74	11.74	-10.8	-3.5	-2.5
<b>Kentucky</b>									
Btu .....	11,582	11,579	11,571	11,536	11,625	11,558	*	*	*
Sulfur .....	2.27	2.37	2.50	2.47	2.42	2.59	-4.2	-1.6	-1.5
Ash .....	12.35	12.66	12.46	12.15	11.91	12.12	-2.5	.9	.2
<b>Mississippi</b>									
Btu .....	11,062	10,569	10,486	11,023	11,221	12,543	5	*	-1
Sulfur .....	.74	.75	.68	.93	1.04	1.64	-1.4	-8.1	-8.4
Ash .....	6.85	6.03	6.13	6.44	7.81	7.84	13.6	-3.2	-1.5
<b>Tennessee</b>									
Btu .....	11,635	11,733	11,855	12,062	12,130	11,966	-1	-1	*
Sulfur .....	1.58	1.69	1.90	1.87	1.97	2.00	-6.3	-5.4	-2.6
Ash .....	8.82	8.89	9.17	8.89	8.83	9.46	-7	*	-8
<b>West South Central</b>									
Btu .....	7,836	7,837	7,766	7,798	7,733	7,701	*	*	*
Sulfur .....	.56	.60	.64	.60	.64	.65	-7.3	-3.6	-1.6
Ash .....	9.16	9.12	9.35	9.19	9.53	10.04	.4	-1.0	-1.0
<b>Arkansas</b>									
Btu .....	8,651	8,671	8,707	8,703	8,687	8,740	*	*	*
Sulfur .....	.27	.29	.33	.33	.33	.34	-7.7	-4.5	-2.5
Ash .....	4.75	4.90	5.12	5.20	5.10	5.26	-3.0	-1.8	-1.1
<b>Louisiana</b>									
Btu .....	8,149	8,097	8,102	8,171	8,110	8,194	1	*	*
Sulfur .....	.58	.56	.64	.57	.58	.49	3.4	*	2.0
Ash .....	7.40	7.76	7.22	7.13	7.42	7.47	-4.6	-1	-1
<b>Oklahoma</b>									
Btu .....	8,620	8,651	8,641	8,600	8,557	8,894	*	*	*
Sulfur .....	.31	.30	.30	.33	.36	.47	1.9	-4.1	-4.5
Ash .....	5.18	4.87	4.85	4.93	5.20	5.50	6.5	-1	-6
<b>Texas</b>									
Btu .....	7,506	7,509	7,423	7,440	7,346	7,291	*	1	*
Sulfur .....	.65	.71	.75	.71	.77	.74	-9.0	-4.0	-1.4
Ash .....	10.90	10.82	11.09	10.98	11.50	11.80	.8	-1.3	-9
<b>Mountain</b>									
Btu .....	9,755	9,708	9,723	9,741	9,736	9,792	*	*	*
Sulfur .....	.55	.55	.56	.55	.54	.55	-1.0	.3	*
Ash .....	11.14	11.24	11.40	11.37	11.16	11.00	-9	*	.1
<b>Arizona</b>									
Btu .....	10,257	10,186	10,159	10,232	10,274	10,482	1	*	*
Sulfur .....	.55	.55	.54	.55	.53	.49	.3	1.0	1.3
Ash .....	12.67	12.70	12.73	12.41	12.13	11.95	-2	1.1	.6
<b>Colorado</b>									
Btu .....	9,749	9,834	9,872	9,858	9,895	9,808	-1	*	*
Sulfur .....	.38	.38	.38	.39	.39	.38	.3	-5	.1
Ash .....	6.67	6.73	6.92	6.94	7.16	6.95	-8	-1.8	-4
<b>Montana</b>									
Btu .....	8,435	8,433	8,426	8,439	8,520	8,564	*	*	*
Sulfur .....	.73	.72	.72	.68	.68	.63	.9	1.7	1.5
Ash .....	9.71	9.49	9.32	9.00	9.15	8.84	2.3	1.5	1.0
<b>Nevada</b>									
Btu .....	11,257	11,199	11,169	11,140	11,075	11,122	1	*	*
Sulfur .....	.46	.47	.50	.49	.48	.53	-8	-9	-1.5
Ash .....	9.35	9.68	9.80	9.71	9.70	9.82	-3.4	-9	-5
<b>New Mexico</b>									
Btu .....	9,132	9,082	9,069	9,116	9,033	9,117	1	*	*
Sulfur .....	.80	.80	.81	.80	.80	.79	-7	-1	*
Ash .....	22.86	22.80	22.71	22.78	22.51	21.84	.3	.4	.5
<b>Utah</b>									
Btu .....	11,620	11,310	11,330	11,513	11,550	11,483	3	*	*
Sulfur .....	.46	.46	.48	.47	.47	.49	-3	-6	-7
Ash .....	9.93	11.17	10.90	10.90	10.27	10.13	-11.0	-8	-2

See footnotes at end of table.



**Table 106. Average Quality of Coal Received at Electric Utilities by Census Division and State, 1990, 1995-1999 (Continued)**

Census Division and State and Quality <sup>1</sup>	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Wyoming</b>									
Btu .....	8,784	8,794	8,787	8,716	8,738	8,811	*	*	*
Sulfur .....	.51	.53	.54	.52	.50	.54	-4.8	0.4	-0.6
Ash .....	7.62	7.52	7.61	8.12	8.06	7.69	1.3	-1.4	-1.1
<b>Pacific</b>									
Btu .....	8,444	8,332	8,153	8,066	8,380	8,169	1	*	*
Sulfur .....	.64	.52	.58	.64	.62	.64	23.4	1.1	.1
Ash .....	10.39	10.42	12.43	13.62	11.79	13.00	-2	-3.1	-2.4
<b>Oregon</b>									
Btu .....	8,961	8,685	8,757	8,782	8,882	8,348	3	*	1
Sulfur .....	.39	.32	.33	.26	.30	.31	22.7	6.5	2.4
Ash .....	6.41	5.19	5.41	4.79	5.52	4.57	23.5	3.8	3.8
<b>Washington</b>									
Btu .....	8,224	8,215	8,043	7,936	8,267	8,135	*	*	*
Sulfur .....	.75	.59	.62	.71	.69	.70	27.6	2.3	.8
Ash .....	12.08	12.14	13.71	15.24	13.20	14.62	-5	-2.2	-2.1
<b>U.S. Total</b>									
Btu .....	10,163	10,241	10,275	10,263	10,248	10,465	-1	*	*
Sulfur .....	1.01	1.06	1.11	1.10	1.08	1.35	-5.2	-1.7	-3.2
Ash .....	9.01	9.18	9.36	9.22	9.23	9.85	-1.8	-6	-1.0

<sup>1</sup> Quality units are: Btu (per pound); sulfur (percent by weight); and ash (percent by weight).

\* Data round to zero.

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

**Table 107. Average Quality of Coal Received at Manufacturing and Coke Plants by Census Division and State, 1995-1999**

Census Division and State and Quality <sup>1</sup>	1999	1998	1997	1996	1995	Percent Change 1998-1999
<b>New England</b>						
Btu .....	13,236	13,264	13,326	13,028	13,410	-0.2
Sulfur .....	.80	.79	.85	1.03	1.32	1.3
Ash .....	6.03	7.55	7.33	7.35	6.99	-20.1
<b>Maine</b>						
Btu .....	13,041	13,174	13,218	12,935	13,392	-1.0
Sulfur .....	.82	.80	.87	1.08	1.39	2.1
Ash .....	6.26	7.60	7.34	7.31	6.93	-17.6
<b>Massachusetts</b>						
Btu .....	13,768	13,675	13,746	13,697	13,556	.7
Sulfur .....	.75	.73	.76	.74	.75	2.5
Ash .....	5.41	7.35	7.29	7.65	7.55	-26.5
<b>Middle Atlantic</b>						
Btu .....	12,611	12,790	12,797	12,780	12,559	-1.4
Sulfur .....	1.21	1.19	1.19	1.20	1.15	1.3
Ash .....	7.19	7.16	6.99	7.12	7.11	.4
<b>New Jersey</b>						
Btu .....	12,659	12,615	12,497	12,474	12,575	.3
Sulfur .....	1.35	1.72	.64	1.36	.96	-21.8
Ash .....	12.82	12.55	11.56	10.98	11.34	2.1
<b>New York<sup>2</sup></b>						
Btu .....	12,318	13,183	13,262	13,168	13,122	-6.6
Sulfur .....	1.32	1.18	1.36	1.41	1.29	12.1
Ash .....	6.52	6.73	6.82	6.84	7.20	-3.1
<b>Pennsylvania<sup>2</sup></b>						
Btu .....	12,722	12,633	12,640	12,658	12,366	.7
Sulfur .....	1.18	1.19	1.16	1.16	1.12	-1.4
Ash .....	7.36	7.26	7.02	7.17	7.09	1.3
<b>East North Central</b>						
Btu .....	11,972	11,939	12,013	11,990	12,022	.3
Sulfur .....	1.41	1.48	1.56	1.52	1.46	-4.8
Ash .....	7.27	7.59	7.55	7.34	7.59	-4.3
<b>Illinois<sup>2</sup></b>						
Btu .....	11,365	11,346	11,351	11,332	11,290	.2
Sulfur .....	1.91	1.97	1.95	1.89	1.82	-2.9
Ash .....	7.67	7.67	7.45	7.41	7.49	.1
<b>Indiana<sup>2</sup></b>						
Btu .....	11,997	11,941	11,867	11,826	11,894	.5
Sulfur .....	1.15	1.28	1.35	1.32	1.20	-10.2
Ash .....	7.00	7.32	7.07	7.02	7.38	-4.4
<b>Michigan<sup>2</sup></b>						
Btu .....	12,490	12,439	12,506	12,440	12,386	.4
Sulfur .....	.86	.99	1.04	.96	.96	-12.8
Ash .....	6.57	7.47	7.67	6.80	7.60	-12.0
<b>Ohio<sup>2</sup></b>						
Btu .....	12,363	12,310	12,348	12,415	12,424	.4
Sulfur .....	1.83	1.68	1.80	1.82	1.69	8.4
Ash .....	7.76	8.17	8.52	8.27	7.79	-5.1
<b>Wisconsin</b>						
Btu .....	11,837	11,876	12,453	12,330	12,450	-3
Sulfur .....	1.51	1.37	1.68	2.05	2.14	10.4
Ash .....	7.95	7.40	7.45	7.72	8.40	7.5
<b>West North Central</b>						
Btu .....	8,631	8,626	8,716	8,702	8,669	.1
Sulfur .....	.94	.95	.87	.87	.89	-1.0
Ash .....	6.34	6.34	6.44	6.40	6.54	*
<b>Iowa</b>						
Btu .....	10,140	10,292	10,261	10,373	10,332	-1.5
Sulfur .....	.97	1.01	.95	1.04	.96	-3.6
Ash .....	6.36	6.38	6.25	6.40	6.44	-4
<b>Kansas</b>						
Btu .....	12,354	12,344	12,287	12,243	12,197	.1
Sulfur .....	3.74	3.11	3.12	3.07	3.41	20.2
Ash .....	8.83	9.61	10.75	10.36	11.48	-8.2

See footnotes at end of table.

**Table 107. Average Quality of Coal Received at Manufacturing and Coke Plants by Census Division and State, 1995-1999 (Continued)**

Census Division and State and Quality <sup>1</sup>	1999	1998	1997	1996	1995	Percent Change 1998-1999
<b>Minnesota</b>						
Btu .....	9,656	9,626	9,910	10,051	10,280	0.3
Sulfur .....	.50	.58	.46	.61	.56	-13.9
Ash .....	5.15	5.47	5.24	5.08	4.95	-6.0
<b>Missouri<sup>2</sup></b>						
Btu .....	11,359	11,287	11,470	11,541	11,644	.6
Sulfur .....	2.23	2.25	2.23	2.02	1.91	-7
Ash .....	8.90	7.92	8.39	8.31	9.92	12.4
<b>Nebraska</b>						
Btu .....	9,962	10,375	10,201	10,622	10,096	-4.0
Sulfur .....	.50	.52	.32	.36	.42	-2.8
Ash .....	6.43	6.46	8.12	8.92	5.73	-4
<b>North Dakota</b>						
Btu .....	7,133	7,138	7,135	7,136	7,171	-1
Sulfur .....	.76	.78	.62	.61	.71	-1.9
Ash .....	6.02	6.02	6.10	5.97	6.08	-1
<b>South Dakota</b>						
Btu .....	10,184	9,884	9,786	9,849	9,504	3.0
Sulfur .....	.92	.81	.81	.83	.86	13.9
Ash .....	7.24	8.47	7.38	7.55	7.72	-14.5
<b>South Atlantic</b>						
Btu .....	13,049	13,035	12,988	12,972	12,992	.1
Sulfur .....	1.08	1.06	1.10	1.09	1.10	2.4
Ash .....	7.96	7.95	8.39	8.11	8.07	.1
<b>Delaware</b>						
Btu .....	13,076	13,452	13,450	13,381	13,483	-2.8
Sulfur .....	1.77	1.17	1.73	1.75	1.87	51.7
Ash .....	7.56	6.94	7.01	7.01	7.01	9.0
<b>Florida</b>						
Btu .....	12,988	13,022	12,834	12,903	12,865	-3
Sulfur .....	.89	.86	.91	.87	.91	4.0
Ash .....	8.07	7.56	8.38	8.07	8.14	6.8
<b>Georgia</b>						
Btu .....	12,925	12,828	12,756	12,873	12,895	.8
Sulfur .....	1.04	.98	1.11	1.11	1.23	6.0
Ash .....	8.39	8.30	8.80	8.79	8.78	1.1
<b>Maryland<sup>2</sup></b>						
Btu .....	12,650	12,656	12,653	12,411	12,598	*
Sulfur .....	1.84	1.79	1.96	1.92	1.92	3.1
Ash .....	13.75	13.98	14.06	14.19	14.52	-1.7
<b>North Carolina</b>						
Btu .....	13,195	13,193	13,234	13,243	13,250	*
Sulfur .....	.92	.93	.98	.93	.97	-9
Ash .....	7.48	7.56	7.53	7.10	6.99	-1.0
<b>South Carolina</b>						
Btu .....	13,174	13,106	13,179	13,076	13,051	.5
Sulfur .....	1.02	1.03	1.00	1.02	1.08	-2
Ash .....	7.87	7.87	8.24	8.09	8.24	-1
<b>Virginia<sup>2</sup></b>						
Btu .....	13,228	13,204	13,081	12,982	13,067	.2
Sulfur .....	1.01	1.02	1.05	1.04	1.05	-1.3
Ash .....	7.48	7.75	8.06	7.97	7.75	-3.5
<b>West Virginia<sup>2</sup></b>						
Btu .....	12,855	12,885	12,782	12,809	12,765	-2
Sulfur .....	1.17	1.14	1.18	1.14	1.06	3.1
Ash .....	7.02	7.04	7.78	7.24	7.28	-3
<b>East South Central</b>						
Btu .....	12,997	12,848	12,750	12,916	12,941	1.2
Sulfur .....	.90	.99	1.02	1.06	1.09	-8.9
Ash .....	6.30	7.45	7.34	7.20	7.32	-15.4
<b>Alabama<sup>2</sup></b>						
Btu .....	12,942	12,738	12,539	12,632	12,612	1.6
Sulfur .....	.95	.92	.98	.98	.94	3.1
Ash .....	6.41	7.12	7.18	6.90	7.07	-10.0
<b>Kentucky<sup>2</sup></b>						
Btu .....	13,120	12,735	12,831	13,072	13,086	3.0
Sulfur .....	.61	.97	1.01	1.05	1.03	-37.6
Ash .....	3.33	6.88	6.55	6.59	6.61	-51.6

See footnotes at end of table.

**Table 107. Average Quality of Coal Received at Manufacturing and Coke Plants by Census Division and State, 1995-1999 (Continued)**

Census Division and State and Quality <sup>1</sup>	1999	1998	1997	1996	1995	Percent Change 1998-1999
<b>Mississippi</b>						
Btu .....	11,856	11,907	11,977	11,911	11,897	-0.4
Sulfur .....	2.05	2.06	1.55	1.41	1.41	-5
Ash .....	7.86	9.33	9.60	9.73	10.66	-15.7
<b>Tennessee<sup>2</sup></b>						
Btu .....	13,052	13,013	12,910	13,103	13,160	.3
Sulfur .....	.98	1.03	1.07	1.14	1.35	-4.9
Ash .....	8.07	8.19	8.01	7.94	8.04	-1.4
<b>West South Central</b>						
Btu .....	8,652	12,111	9,155	9,176	9,116	-28.6
Sulfur .....	1.25	1.16	1.07	1.06	1.00	7.8
Ash .....	11.45	12.16	11.39	11.36	10.78	-5.9
<b>Arkansas</b>						
Btu .....	12,732	12,545	12,369	12,474	12,573	1.5
Sulfur .....	2.09	2.03	1.98	2.03	2.02	3.3
Ash .....	11.37	11.06	10.25	10.27	9.96	2.8
<b>Louisiana</b>						
Btu .....	11,742	12,534	12,395	12,627	9,292	-6.3
Sulfur .....	1.21	1.23	1.33	1.27	.39	-1.8
Ash .....	9.45	10.47	10.25	10.23	5.29	-9.8
<b>Oklahoma</b>						
Btu .....	9,890	9,970	9,974	9,835	9,995	-8
Sulfur .....	2.32	1.02	.93	.89	.72	127.1
Ash .....	6.42	6.79	6.18	5.97	5.60	-5.5
<b>Texas<sup>2</sup></b>						
Btu .....	8,126	12,410	8,789	8,757	8,690	-34.5
Sulfur .....	1.01	1.12	1.02	1.01	1.02	-10.1
Ash .....	12.29	13.08	12.15	12.37	12.20	-6.1
<b>Mountain</b>						
Btu .....	10,679	10,683	10,851	10,699	10,698	*
Sulfur .....	.69	.73	.72	.67	.71	-4.8
Ash .....	7.46	7.44	7.09	7.79	7.28	.3
<b>Arizona</b>						
Btu .....	10,978	10,850	12,250	10,603	10,969	1.2
Sulfur .....	.60	.59	.76	.53	.54	2.7
Ash .....	13.00	13.73	10.48	13.15	12.23	-5.3
<b>Colorado</b>						
Btu .....	11,241	11,219	11,293	11,308	11,262	.2
Sulfur .....	.77	.79	.55	.54	.61	-2.9
Ash .....	8.13	7.94	8.03	7.79	7.24	2.3
<b>Idaho</b>						
Btu .....	10,525	9,860	10,131	10,148	10,232	6.8
Sulfur .....	.79	.84	.72	.72	.78	-5.5
Ash .....	7.00	5.31	6.46	6.40	6.22	31.9
<b>Montana</b>						
Btu .....	8,548	11,688	8,689	8,695	8,368	-26.9
Sulfur .....	.53	.49	.44	.44	.59	7.5
Ash .....	6.59	6.14	5.27	5.31	7.93	7.3
<b>Nevada</b>						
Btu .....	11,555	11,495	11,576	11,533	11,698	.5
Sulfur .....	.45	.51	.50	.51	.48	-12.0
Ash .....	8.76	8.90	8.76	8.80	7.13	-1.5
<b>New Mexico</b>						
Btu .....	12,557	12,383	12,507	12,302	12,518	1.4
Sulfur .....	.93	.92	.74	.82	.79	1.1
Ash .....	9.08	10.45	10.36	11.67	10.26	-13.1
<b>Utah<sup>2</sup></b>						
Btu .....	11,684	11,775	11,552	11,589	11,671	-8
Sulfur .....	.61	.74	.79	.82	.84	-17.5
Ash .....	8.01	8.18	8.10	8.01	8.08	-2.0
<b>Wyoming</b>						
Btu .....	10,096	10,158	10,119	10,365	10,170	-6
Sulfur .....	.78	.76	.73	.70	.71	2.5
Ash .....	4.87	4.61	4.66	4.68	4.84	5.6

See footnotes at end of table.

**Table 107. Average Quality of Coal Received at Manufacturing and Coke Plants by Census Division and State, 1995-1999 (Continued)**

Census Division and State and Quality <sup>1</sup>	1999	1998	1997	1996	1995	Percent Change 1998-1999
<b>Pacific</b>						
Btu .....	11,673	11,564	11,513	11,677	11,551	0.9
Sulfur.....	.56	.57	.57	.56	.53	-1.9
Ash .....	8.84	9.14	8.96	9.15	9.17	-3.3
<b>California</b>						
Btu .....	11,871	11,814	11,759	11,899	11,912	.5
Sulfur.....	.55	.57	.57	.55	.52	-3.6
Ash .....	8.66	8.99	8.72	8.72	8.62	-3.6
<b>Hawaii</b>						
Btu .....	8,237	7,928	8,704	9,157	9,275	3.9
Sulfur.....	.55	.49	.52	.53	.53	11.2
Ash .....	12.71	12.85	13.22	14.99	15.37	-1.1
<b>Oregon</b>						
Btu .....	11,655	11,001	10,989	11,159	10,188	5.9
Sulfur.....	.59	.65	.65	.65	.54	-8.8
Ash .....	7.15	7.00	6.96	7.03	5.98	2.2
<b>Washington</b>						
Btu .....	11,076	11,651	11,818	11,622	11,846	-4.9
Sulfur.....	.68	.58	.58	.65	.57	16.9
Ash .....	9.70	8.10	8.70	10.00	9.62	19.7
<b>U.S. Total</b>						
Btu .....	11,245	11,583	11,407	11,405	11,367	-2.9
Sulfur.....	1.13	1.15	1.17	1.17	1.15	-1.7
Ash .....	7.42	7.71	7.62	7.58	7.61	-3.6

<sup>1</sup> Quality units are: Btu (per pound); sulfur (percent by weight); and ash (percent by weight).

<sup>2</sup> Includes sulfur and ash data for coke plants.

\* Data round to zero.

Notes: Btu data are for manufacturing plants only. The national average of coke plant data ranges from .51 to 1.70 for sulfur and 2.6 to 10.1 for ash.

Sources: Energy Information Administration, Form EIA-3A, "Annual Coal Quality Report - Manufacturing Plants"; and Form EIA-5A, "Annual Coal Quality Report - Coke Plants."

# **Appendix A**

## **Major Coal Producing States**

## Appendix A

# Major Coal Producing States

**Table A1. Alabama Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	436,207	373,714	374,421	451,760	510,406	489,395	16.7	-3.8	-1.3
Productive Capacity <sup>1</sup> .....	22,290	27,891	29,081	32,159	32,546	NA	-20.1	-9.0	NA
Production Total.....	19,504	23,013	24,468	24,637	24,640	29,030	-15.2	-5.7	-4.3
Underground.....	14,799	17,316	18,505	18,217	17,605	17,540	-14.5	-4.2	-1.9
Surface.....	4,705	5,697	5,963	6,420	7,036	11,490	-17.4	-9.6	-9.4
Capacity Utilization <sup>2</sup> .....	87.42	82.45	84.05	76.57	75.52	NA	6.0	3.7	NA
Ratio of Recoverable									
Reserves to Production.....	22.4	16.2	15.3	18.3	20.7	16.9	37.7	1.9	3.2
Number of Employees/Miners.....	4,183	R 4,875	4,928	5,031	5,567	6,534	-14.2	-6.9	-4.8
Productivity Total <sup>2</sup> .....	2.25	R 2.31	2.39	2.20	2.24	2.23	-2.3	.1	.1
Underground.....	2.09	R 2.16	2.21	1.95	2.02	2.01	-3.0	.8	.4
Surface.....	2.98	R 2.93	3.21	3.50	3.07	2.69	1.9	-7	1.2
Producer/Distributor Stocks.....	2,172	1,636	1,289	1,031	1,358	-	32.8	12.5	-
Imports <sup>3</sup> .....	692	169	214	161	162	-	308.7	43.8	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	19,297	23,046	23,921	24,636	25,159	NA	-16.3	-6.4	NA
Domestic Distribution Total.....	15,990	18,245	18,108	19,772	19,127	NA	-12.4	-4.4	NA
Within State.....	14,024	17,831	17,489	18,503	18,024	NA	-21.3	-6.1	NA
To Other States.....	1,966	414	619	1,269	1,103	NA	374.9	15.6	NA
Foreign Distribution Total.....	3,307	4,801	5,813	4,864	6,032	NA	-31.1	-13.9	NA
Metallurgical.....	3,307	4,743	5,699	4,523	5,330	NA	-30.3	-11.3	NA
Steam.....	-	59	114	341	702	NA	-100.0	-100.0	NA
Overseas Total <sup>4</sup> .....	3,307	4,801	5,813	4,864	6,032	NA	-31.1	-13.9	NA
Metallurgical.....	3,307	4,743	5,699	4,523	5,330	NA	-30.3	-11.3	NA
Steam.....	-	59	114	341	702	NA	-100.0	-	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	38,099	R 36,328	R 36,607	37,052	34,309	27,640	4.9	2.6	3.6
Electric Utility.....	33,428	31,474	30,840	31,216	28,759	22,010	6.2	3.8	4.8
Other Industrial.....	2,340	R 2,442	R 2,738	2,545	2,286	2,237	-4.2	.6	.5
Coke.....	w	w	2,956	3,247	3,257	3,288	w	w	w
Residential/Commercial.....	23	9	73	44	7	105	144.0	33.8	-15.5
Consumer Stocks Total.....	w	3,577	2,971	2,858	3,648	4,372	w	w	w
Electric Utility.....	w	3,195	2,609	2,526	3,282	3,869	w	w	w
All Other.....	358	381	362	332	366	503	-6.2	-6	-3.7
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$35.29	\$37.23	\$38.48	\$39.48	\$38.44	\$43.04	-5.2	-2.1	-2.2
Underground.....	35.58	37.69	39.54	40.75	39.26	42.48	-5.6	-2.4	-2.0
Surface.....	34.40	35.89	35.15	35.87	36.38	43.90	-4.2	-1.4	-2.7
Consumer									
Electric Utility.....	\$32.36	\$36.28	35.58	36.39	37.00	44.58	-10.8	-3.3	-3.5
Other Industrial.....	39.81	39.49	40.20	40.15	39.53	40.58	.8	.2	-2
Coke.....	w	w	50.04	49.37	48.42	48.93	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Imports for 1995 through 1999 include imports to electric utilities, manufacturing plants and coke plants. Imports for 1990 include only imports to electric utilities.

<sup>4</sup> Includes Mexico.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."



**Table A2. Arizona Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	w	w	w	w	w	w	w	w	w
Productive Capacity <sup>1</sup> .....	w	w	w	w	w	NA	w	w	NA
Production Total.....	11,787	11,315	11,723	10,442	11,947	11,304	4.2	-0.3	0.5
Surface.....	11,787	11,315	11,723	10,442	11,947	11,304	4.2	-0.3	.5
Capacity Utilization <sup>2</sup> .....	w	w	w	w	w	NA	w	w	NA
Ratio of Recoverable									
Reserves to Production.....	w	w	w	w	w	w	w	w	w
Number of Employees/Miners.....	732	R 747	676	651	831	951	-2.0	-3.1	-2.9
Productivity Total <sup>2</sup> .....	6.61	R 6.53	6.79	6.30	6.34	5.93	1.3	1.0	1.2
Surface.....	6.61	R 6.53	6.79	6.30	6.34	5.93	1.3	1.0	1.2
Producer/Distributor Stocks.....	1,229	2,077	2,911	2,232	2,760	-	-40.8	-18.3	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	12,623	12,169	11,044	10,970	11,783	NA	3.7	1.7	NA
Domestic Distribution Total.....	12,623	12,169	11,044	10,970	11,783	NA	3.7	1.7	NA
Within State.....	8,129	7,680	6,646	6,499	6,956	NA	5.8	4.0	NA
To Other States.....	4,494	4,489	4,398	4,470	4,827	NA	.1	-1.8	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	19,711	19,014	18,205	16,792	16,682	16,419	3.7	4.3	2.0
Electric Utility.....	19,025	18,316	17,503	16,117	16,021	15,758	3.9	4.4	2.1
Other Industrial.....	685	698	702	675	657	w	-1.8	1.1	w
Residential/Commercial.....	*	*	*	*	5	w	-83.5	-67.5	w
Consumer Stocks Total.....	w	1,925	1,414	2,024	3,032	3,129	w	w	w
Electric Utility.....	w	1,855	1,386	1,992	2,998	3,090	w	w	w
All Other.....	49	70	28	32	34	w	-29.5	9.3	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	w	w	w	w	w	w	w	w	w
Surface.....	w	w	w	w	w	w	w	w	w
Consumer									
Electric Utility.....	\$27.21	\$27.12	\$28.95	\$29.55	\$28.65	\$29.98	.3	-1.3	-1.1
Other Industrial.....	39.88	38.67	38.81	39.27	40.46	39.54	3.1	-4	.1

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A3. Colorado Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	616,548	540,199	567,538	641,615	692,030	546,239	14.1	-2.8	1.3
Productive Capacity <sup>1</sup> .....	41,098	36,658	35,466	29,330	32,435	NA	12.1	6.1	NA
Production Total.....	29,989	29,631	27,449	24,886	25,710	18,910	1.2	3.9	5.3
Underground.....	20,478	19,705	17,820	15,581	17,187	10,628	3.9	4.5	7.5
Surface.....	9,511	9,926	9,628	9,305	8,523	8,281	-4.2	2.8	1.5
Capacity Utilization <sup>2</sup> .....	72.97	80.83	77.39	84.85	79.27	NA	-9.7	-2.0	NA
Ratio of Recoverable Reserves to Production.....	20.6	18.2	20.7	25.8	26.9	28.9	12.8	-6.5	-3.7
Number of Employees/Miners.....	1,863	R 1,845	1,362	1,332	1,777	2,009	1.0	1.2	-8
Productivity Total <sup>2</sup> .....	7.93	R 7.89	7.68	7.32	6.14	4.24	.5	6.6	7.2
Underground.....	8.13	R 7.73	7.44	6.67	5.86	3.26	5.1	8.5	10.7
Surface.....	7.53	R 8.22	8.17	8.76	6.79	6.86	-8.4	2.6	1.0
Producer/Distributor Stocks.....	1,661	1,594	1,364	494	1,063	-	4.2	11.8	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	30,017	29,294	26,968	25,405	25,635	NA	2.5	4.0	NA
Domestic Distribution Total.....	28,198	27,541	25,445	23,990	24,734	NA	2.4	3.3	NA
Within State.....	12,294	11,993	12,307	10,704	11,820	NA	2.5	1.0	NA
To Other States.....	15,904	15,547	13,138	13,286	12,915	NA	2.3	5.3	NA
Foreign Distribution Total.....	1,819	1,754	1,523	1,415	900	NA	3.7	19.2	NA
Metallurgical.....	-	-	-	30	-	NA	-	-	NA
Steam.....	1,819	1,754	1,523	1,385	900	NA	3.7	19.2	NA
Overseas Total <sup>3</sup> .....	1,819	1,754	1,523	1,415	900	NA	3.7	19.2	NA
Metallurgical.....	-	-	-	30	-	NA	-	-	NA
Steam.....	1,819	1,754	1,523	1,385	900	NA	3.7	19.2	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	18,235	R 18,072	R 17,908	R 17,222	16,971	16,710	.9	1.8	1.0
Electric Utility.....	17,704	17,663	17,116	16,841	16,222	15,924	.2	2.2	1.2
Other Industrial.....	429	R 391	R 728	R 368	729	729	9.6	-12.4	-5.7
Residential/Commercial.....	102	18	65	13	20	w	481.0	51.0	w
Consumer Stocks Total.....	w	2,862	2,476	3,054	3,682	w	w	w	w
Electric Utility.....	w	2,840	2,458	3,027	3,622	3,298	w	w	w
All Other.....	19	23	18	27	59	w	-15.7	-24.8	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$17.23	\$17.30	\$18.46	\$17.94	\$19.26	\$21.75	-4	-2.7	-2.5
Underground.....	16.30	16.38	18.50	17.73	18.58	24.27	-4	-3.2	-4.3
Surface.....	19.27	16.99	18.40	18.28	20.63	18.53	13.4	-1.7	.4
Consumer.....									
Electric Utility.....	\$19.20	\$19.41	19.93	20.24	20.73	20.81	-1.0	-1.9	-9
Other Industrial.....	23.99	23.75	25.13	23.17	26.11	26.93	1.0	-2.1	-1.3

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Includes Mexico.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A4. Illinois Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	780,453	743,592	744,512	891,109	882,323	1,173,982	4.9	-3.0	-4.4
Productive Capacity <sup>1</sup> .....	48,783	47,625	51,523	61,727	56,627	NA	2.4	-3.6	NA
Production Total.....	40,417	39,732	41,159	46,656	48,180	60,393	1.7	-4.3	-4.4
Underground.....	36,758	35,251	34,824	38,948	41,118	41,671	4.3	-2.8	-1.4
Surface.....	3,659	4,482	6,334	7,707	7,062	18,722	-18.4	-15.1	-16.6
Capacity Utilization <sup>2</sup> .....	82.85	83.43	79.87	75.58	85.08	NA	-7	-7	NA
Ratio of Recoverable									
Reserves to Production.....	19.3	18.7	18.1	19.1	18.3	19.4	3.2	1.3	-1
Number of Employees/Miners.....	4,323	R 4,297	4,612	5,174	5,652	10,018	.6	-6.5	-8.9
Productivity Total <sup>2</sup> .....	4.19	R 4.17	4.20	4.18	3.87	2.94	.4	2.0	4.0
Underground.....	4.29	R 4.20	4.07	4.10	3.86	2.70	2.3	2.7	5.3
Surface.....	3.36	R 3.98	5.11	4.67	3.89	3.64	-15.7	-3.6	-9
Producer/Distributor Stocks.....	1,049	952	1,358	1,190	2,069	-	10.1	-15.6	-
Imports <sup>3</sup> .....	30	61	148	216	223	-	-50.6	-39.4	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	40,167	39,754	41,220	47,076	47,869	NA	1.0	-4.3	NA
Domestic Distribution Total.....	40,102	39,447	40,447	45,190	45,170	NA	1.7	-2.9	NA
Within State.....	17,592	16,652	18,085	16,052	15,587	NA	5.6	3.1	NA
To Other States.....	22,511	22,795	22,362	29,137	29,582	NA	-1.2	-6.6	NA
Foreign Distribution Total.....	65	307	773	1,886	2,699	NA	-78.8	-60.6	NA
Metallurgical.....	-	-	-	-	49	NA	-	-100.0	NA
Steam.....	65	307	773	1,886	2,650	NA	-78.8	-60.4	NA
Overseas Total <sup>4</sup> .....	65	307	773	1,886	2,699	NA	-78.8	-60.6	NA
Metallurgical.....	-	-	-	-	49	NA	-	-	NA
Steam.....	65	307	773	1,886	2,650	NA	-78.8	-60.4	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	42,170	R 44,662	R 47,637	44,431	39,623	33,904	-5.6	1.6	2.4
Electric Utility.....	35,996	38,255	41,017	38,090	33,463	27,396	-5.9	1.8	3.1
Other Industrial.....	3,635	R 3,846	R 3,880	3,740	3,653	3,888	-5.5	-1	-7
Coke.....	w	w	w	w	w	2,355	w	w	w
Residential/Commercial.....	w	w	w	w	w	265	w	w	w
Consumer Stocks Total.....	w	w	w	w	w	8,287	w	w	w
Electric Utility.....	w	6,572	4,828	4,578	5,331	7,398	w	w	w
All Other.....	w	w	w	w	w	889	w	w	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$22.90	\$22.86	\$21.44	\$22.74	\$23.05	\$27.73	.2	-2	-2.1
Underground.....	22.84	22.96	22.22	23.12	22.88	28.30	-.5	-	-2.4
Surface.....	23.56	22.07	17.12	20.86	24.04	26.45	6.8	-5	-1.3
Consumer.....									
Electric Utility.....	\$27.47	\$30.22	30.41	32.14	32.58	37.79	-9.1	-4.2	-3.5
Other Industrial.....	29.62	29.46	29.76	29.69	29.03	31.28	.5	.5	-6
Coke.....	w	w	w	w	w	47.91	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Imports for 1995 through 1999 include imports to electric utilities, manufacturing plants and coke plants. Imports for 1990 include only imports to electric utilities.

<sup>4</sup> Includes Mexico.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A5. Indiana Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	290,640	313,382	393,357	386,063	323,667	444,020	-7.3	-2.6	-4.6
Productive Capacity <sup>1</sup> .....	41,355	42,190	36,999	35,564	35,256	NA	-2.0	4.1	NA
Production Total.....	34,004	36,803	35,497	29,670	26,007	35,907	-7.6	6.9	-6
Underground.....	3,553	3,445	3,530	2,963	3,540	3,037	3.1	.1	1.8
Surface.....	30,451	33,359	31,967	26,707	22,467	32,870	-8.7	7.9	-8
Capacity Utilization <sup>2</sup> .....	82.22	87.19	95.94	83.42	73.70	NA	-5.7	2.8	NA
Ratio of Recoverable									
Reserves to Production.....	8.5	8.5	11.1	13.0	12.4	12.4	.4	-9.0	-4.0
Number of Employees/Miners.....	2,633	R 2,930	2,712	2,579	2,571	4,195	-10.1	.6	-5.0
Productivity Total <sup>2</sup> .....	5.42	R 5.17	5.33	4.98	4.68	3.84	4.9	3.8	3.9
Underground.....	3.44	R 3.63	3.74	3.09	3.22	2.90	-5.1	1.7	1.9
Surface.....	5.81	R 5.41	5.59	5.34	5.04	3.96	7.5	3.6	4.4
Producer/Distributor Stocks.....	521	672	698	574	611	-	-22.4	-3.9	-
Imports <sup>3</sup> .....	193	976	474	735	761	-	-80.2	-29.0	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	34,215	36,774	34,810	29,674	25,695	NA	-7.0	7.4	NA
Domestic Distribution Total.....	34,215	36,774	34,805	29,664	25,625	NA	-7.0	7.5	NA
Within State.....	30,742	32,872	29,916	24,309	21,185	NA	-6.5	9.8	NA
To Other States.....	3,473	3,902	4,889	5,354	4,439	NA	-11.0	-5.9	NA
Foreign Distribution Total.....	-	-	5	11	70	NA	-	-100.0	NA
Steam.....	-	-	5	11	70	NA	-	-100.0	NA
Canada Total.....	-	-	-	-	*	NA	-	-	NA
Steam.....	-	-	-	-	*	NA	-	-	NA
Overseas Total <sup>4</sup> .....	-	-	5	11	69	NA	-	-	NA
Steam.....	-	-	5	11	69	NA	-	-	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	66,157	R 66,300	R 66,051	64,021	62,631	61,701	-2	1.4	.8
Electric Utility.....	55,105	55,086	54,845	52,855	52,089	47,654	*	1.4	1.6
Other Industrial.....	4,145	R 4,399	R 5,096	4,987	4,373	4,629	-5.8	-1.3	-1.2
Coke.....	w	w	5,715	5,823	5,883	8,867	w	w	w
Residential/Commercial.....	343	371	395	356	287	551	-7.5	4.6	-5.1
Consumer Stocks Total.....	w	8,989	6,643	7,955	9,298	12,226	w	w	w
Electric Utility.....	w	8,198	5,822	7,103	8,435	10,610	w	w	w
All Other.....	811	791	821	853	863	1,616	2.6	-1.5	-7.4
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$19.99	\$19.68	\$19.62	\$20.24	\$21.71	\$23.91	1.6	-2.0	-2.0
Underground.....	w	w	w	w	w	w	w	w	w
Surface.....	w	w	w	w	w	w	w	w	w
Consumer									
Electric Utility.....	\$23.58	\$23.63	\$24.35	\$24.67	\$25.94	\$28.78	-2	-2.3	-2.2
Other Industrial.....	30.33	30.21	29.75	31.76	33.14	32.83	.4	-2.2	-9
Coke.....	w	w	50.75	51.93	52.74	49.39	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Imports for 1995 through 1999 include imports to electric utilities, manufacturing plants and coke plants. Imports for 1990 include only imports to electric utilities.

<sup>4</sup> Includes Mexico.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A6. Kentucky Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	1,119,287	1,179,662	1,330,702	1,255,351	1,279,011	1,585,081	-5.1	-3.3	-3.8
Productive Capacity <sup>1</sup> .....	182,633	187,582	195,453	189,225	203,173	NA	-2.6	-2.6	NA
Production Total.....	139,626	150,295	155,853	152,425	153,739	173,322	-7.1	-2.4	-2.4
Underground.....	86,150	92,832	96,302	94,306	94,207	105,290	-7.2	-2.2	-2.2
Surface.....	53,476	57,462	59,551	58,119	59,532	68,032	-6.9	-2.6	-2.6
Capacity Utilization <sup>2</sup> .....	76.32	79.98	79.62	80.38	75.49	NA	-4.6	.3	NA
Ratio of Recoverable Reserves to Production.....	8.0	7.8	8.5	8.2	8.3	9.1	2.1	-9	-1.4
Number of Employees/Miners.....	17,211	R 18,927	18,937	18,826	21,125	30,498	-9.1	-5.0	-6.1
Productivity Total <sup>2</sup> .....	3.89	R 3.79	3.94	3.80	3.57	2.83	2.4	2.1	3.6
Underground.....	3.55	R 3.51	3.64	3.53	3.25	2.54	1.2	2.2	3.8
Surface.....	4.60	R 4.37	4.57	4.35	4.23	3.43	5.1	2.1	3.3
Producer/Distributor Stocks.....	5,510	4,651	5,376	4,460	4,777	-	18.5	3.6	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	138,632	153,102	152,746	152,891	151,466	NA	-9.4	-2.2	NA
Domestic Distribution Total.....	133,997	146,171	145,526	143,748	141,771	NA	-8.3	-1.4	NA
Within State.....	25,939	29,690	22,813	25,700	27,140	NA	-12.6	-1.1	NA
To Other States.....	108,057	116,481	122,713	118,047	114,631	NA	-7.2	-1.5	NA
Foreign Distribution Total.....	4,636	6,931	7,220	9,143	9,695	NA	-33.1	-16.8	NA
Metallurgical.....	3,907	5,042	4,762	5,303	3,640	NA	-22.5	1.8	NA
Steam.....	728	1,889	2,458	3,841	6,055	NA	-61.4	-41.1	NA
Canada Total.....	1,497	1,459	739	1,178	777	NA	2.6	17.8	NA
Metallurgical.....	1,459	1,459	739	1,178	777	NA	*	17.0	NA
Steam.....	38	-	-	-	-	NA	-	-	NA
Overseas Total <sup>3</sup> .....	3,138	5,472	6,481	7,966	8,918	NA	-42.6	-23.0	NA
Metallurgical.....	2,448	3,583	4,023	4,125	2,863	NA	-31.7	-3.8	NA
Steam.....	691	1,889	2,458	3,841	6,055	NA	-63.4	-41.9	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	37,495	R 38,798	R 41,889	R 40,862	39,516	34,449	-3.3	-1.3	.9
Electric Utility.....	34,711	35,842	38,281	37,072	35,707	30,867	-3.1	-7	1.3
Other Industrial.....	1,108	R 1,392	R 1,912	R 2,321	2,250	2,253	-20.4	-16.2	-7.6
Coke.....	w	w	w	w	w	w	w	w	w
Residential/Commercial.....	401	232	354	117	130	151	73.1	32.4	11.5
Consumer Stocks Total.....	w	w	w	w	w	w	w	w	w
Electric Utility.....	w	4,668	4,475	4,119	4,472	7,612	w	w	w
All Other.....	w	w	w	w	w	w	w	w	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$23.50	\$23.82	\$23.72	\$23.91	\$24.79	\$25.19	-1.3	-1.3	-.8
Underground.....	23.82	24.23	24.73	24.66	25.18	25.24	-1.7	-1.4	-.6
Surface.....	22.97	23.16	22.08	22.68	24.19	25.11	-.8	-1.3	-1.0
Consumer									
Electric Utility.....	\$24.52	\$24.52	24.20	24.43	25.71	27.58	*	-1.2	-1.3
Other Industrial.....	42.72	43.66	44.71	44.02	44.09	45.81	-2.1	-.8	-.8
Coke.....	w	w	w	w	w	w	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Includes Mexico.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

R Revised Data.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A7. Montana Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	1,146,570	1,191,240	1,167,892	1,308,793	1,250,866	1,872,492	-3.7	-2.1	-5.3
Productive Capacity <sup>1</sup> .....	54,882	55,882	56,140	56,175	51,597	NA	-1.8	1.5	NA
Production Total.....	41,102	42,840	41,005	37,891	39,451	37,616	-4.0	1.0	1.0
Underground.....	-	-	8	147	10	-	-	-	-
Surface.....	41,102	42,840	40,997	37,744	39,441	37,616	-4.0	1.0	1.0
Capacity Utilization <sup>2</sup> .....	74.89	76.66	73.03	67.45	76.44	NA	-2.3	-5	NA
Ratio of Recoverable									
Reserves to Production.....	27.9	27.8	28.5	34.5	31.7	49.8	.3	-3.1	-6.2
Number of Employees/Miners.....	927	R 925	708	705	722	821	.2	6.4	1.3
Productivity Total <sup>2</sup> .....	22.84	R 22.96	23.56	21.88	21.06	18.78	-5	2.0	2.2
Underground.....	-	R .00	-	3.50	-	-	-	-	-
Surface.....	22.84	R 22.96	23.56	22.34	21.06	18.78	-5	2.0	2.2
Producer/Distributor Stocks.....	603	745	682	580	718	-	-19.0	-4.3	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	41,332	42,674	40,942	38,288	39,620	NA	-3.1	1.1	NA
Domestic Distribution Total.....	40,649	41,860	40,363	37,770	39,362	NA	-2.9	.8	NA
Within State.....	10,346	10,360	9,019	7,844	9,477	NA	-1	2.2	NA
To Other States.....	30,303	31,500	31,345	29,926	29,885	NA	-3.8	.3	NA
Foreign Distribution Total.....	682	814	579	518	259	NA	-16.1	27.4	NA
Steam.....	682	814	579	518	259	NA	-16.1	27.4	NA
Canada Total.....	682	814	438	316	259	NA	-16.1	27.4	NA
Steam.....	682	814	438	316	259	NA	-16.1	27.4	NA
Overseas Total <sup>3</sup> .....	-	-	141	202	-	NA	-	-	NA
Steam.....	-	-	141	202	-	NA	-	-	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	10,369	R 10,776	R 9,474	R 8,032	10,005	9,676	-3.8	.9	.8
Electric Utility.....	10,198	10,627	9,286	7,897	9,373	9,399	-4.0	2.1	.9
Other Industrial.....	168	R 145	R 105	R 130	621	220	16.2	-27.9	-2.9
Residential/Commercial.....	w	w	w	w	w	w	w	w	w
Consumer Stocks Total.....	w	w	w	w	w	w	w	w	w
Electric Utility.....	w	335	410	508	511	767	w	w	w
All Other.....	w	w	w	w	w	w	w	w	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$8.82	\$8.25	\$9.84	\$9.96	\$9.62	\$9.42	6.8	-2.2	-7
Underground.....	-	-	w	9.68	-	-	-	-	-
Surface.....	\$8.82	\$8.25	w	9.97	9.62	9.42	6.8	-2.2	-7
Consumer.....									
Electric Utility.....	\$12.26	\$11.36	\$11.52	11.90	11.47	11.47	7.9	1.7	.7
Other Industrial.....	w	w	w	w	w	w	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Includes Mexico.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A8. New Mexico Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	1,384,562	1,384,761	1,415,028	1,436,359	1,479,956	1,526,520	*	-1.6	-1.1
Productive Capacity <sup>1</sup> .....	32,797	32,790	31,604	32,695	32,760	NA	*	*	NA
Production Total.....	29,156	28,597	27,025	24,067	26,813	24,292	1.9	2.1	2.0
Underground.....	106	203	-	-	640	76	-48.0	-36.3	3.7
Surface.....	29,051	28,394	27,025	24,067	26,173	24,217	2.3	2.6	2.0
Capacity Utilization <sup>2</sup> .....	88.90	87.21	85.51	73.61	81.85	NA	1.9	2.1	NA
Ratio of Recoverable									
Reserves to Production.....	47.5	48.4	52.4	59.7	55.2	62.8	-1.9	-3.7	-3.1
Number of Employees/Miners.....	1,687	R 1,734	1,339	1,347	1,747	1,472	-2.7	-9	1.5
Productivity Total <sup>2</sup> .....	8.30	R 7.92	9.37	8.45	6.92	7.64	4.8	4.7	.9
Underground.....	2.10	R 4.01	-	-	2.68	4.27	-47.6	-5.8	-7.6
Surface.....	8.39	R 7.98	9.37	8.45	7.19	7.66	5.2	3.9	1.0
Producer/Distributor Stocks.....	2,528	1,916	1,023	1,890	2,015	-	32.0	5.8	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	28,450	28,026	27,377	25,043	26,154	NA	1.5	2.1	NA
Domestic Distribution Total.....	28,450	28,026	27,352	25,035	25,640	NA	1.5	2.6	NA
Within State.....	16,423	15,819	15,786	15,009	14,630	NA	3.8	2.9	NA
To Other States.....	12,028	12,206	11,566	10,026	11,010	NA	-1.5	2.2	NA
Foreign Distribution Total.....	-	-	25	9	514	NA	-	-100.0	NA
Steam.....	-	-	25	9	514	NA	-	-100.0	NA
Overseas Total <sup>3</sup> .....	-	-	25	9	514	NA	-	-	NA
Steam.....	-	-	25	9	514	NA	-	-	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	16,303	R 15,963	15,887	15,297	15,221	15,111	2.1	1.7	.8
Electric Utility.....	16,224	15,883	15,802	15,215	15,137	15,065	2.1	1.7	.8
Other Industrial.....	w	w	w	w	w	w	w	w	w
Residential/Commercial.....	w	w	w	w	w	w	w	w	w
Consumer Stocks Total.....	w	w	w	w	w	w	w	w	w
Electric Utility.....	w	789	795	815	967	1,538	w	w	w
All Other.....	3	w	w	w	w	w	w	w	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$20.97	\$20.68	\$21.83	\$24.66	\$23.80	\$22.43	1.4	-3.1	-7
Underground.....	w	w	-	w	w	w	w	w	w
Surface.....	w	w	21.83	w	w	w	w	w	w
Consumer									
Electric Utility.....	\$24.27	\$23.72	24.23	\$26.04	\$25.59	\$24.03	2.3	-1.3	.1
Other Industrial.....	w	w	w	w	w	w	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Includes Mexico.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A9. North Dakota Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	1,188,258	1,169,618	1,210,828	1,301,400	1,667,596	1,414,294	1.6	-8.1	-1.9
Productive Capacity <sup>1</sup> .....	32,610	32,484	32,568	32,184	34,464	NA	.4	-1.4	NA
Production Total.....	31,135	29,912	29,580	29,861	30,112	29,213	4.1	.8	.7
Surface.....	31,135	29,912	29,580	29,861	30,112	29,213	4.1	.8	.7
Capacity Utilization <sup>2</sup> .....	95.48	92.08	90.82	92.78	87.37	NA	3.7	2.2	NA
Ratio of Recoverable									
Reserves to Production.....	38.2	39.1	40.9	43.6	55.4	48.4	-2.4	-8.9	-2.6
Number of Employees/Miners.....	925	R 928	657	640	716	931	-3	6.6	-1
Productivity Total <sup>2</sup> .....	17.26	R 16.77	17.82	17.20	16.80	16.12	2.9	.7	.8
Surface.....	17.26	R 16.77	17.82	17.20	16.80	16.12	2.9	.7	.8
Producer/Distributor Stocks.....	2,561	2,364	1,965	1,574	1,797	-	8.3	9.3	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	30,938	30,557	29,172	30,025	30,118	NA	1.2	.7	NA
Domestic Distribution Total.....	30,938	30,557	29,172	30,025	30,118	NA	1.2	.7	NA
Within State.....	30,938	30,557	29,172	30,025	28,838	NA	1.2	1.8	NA
To Other States.....	-	-	-	-	1,281	NA	-	-	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	31,287	31,060	29,360	30,511	30,237	28,114	.7	.8	1.2
Electric Utility.....	24,542	24,278	22,754	23,640	22,680	21,579	1.1	2.0	1.4
Other Industrial.....	w	w	w	w	w	w	w	w	w
Residential/Commercial.....	w	w	w	w	w	w	w	w	w
Consumer Stocks Total.....	w	w	w	w	w	w	w	w	w
Electric Utility.....	w	1,580	1,755	1,642	1,858	2,828	w	w	w
All Other.....	w	w	w	w	w	w	w	w	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$8.01	\$8.01	\$8.06	\$8.01	\$7.99	\$7.67	-	-	.5
Surface.....	\$8.01	\$8.01	8.06	8.01	7.99	7.67	-	-	.5
Consumer									
Electric Utility.....	\$9.56	\$10.01	10.21	9.72	9.65	9.10	-4.4	-2	.5
Other Industrial.....	w	w	w	w	w	w	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>w</sup> Withheld to avoid disclosure of individual company data.

<sup>R</sup> Revised Data.

<sup>NA</sup> Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."



**Table A10. Ohio Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	382,519	356,132	318,428	414,759	467,984	691,984	7.4	-4.9	-6.4
Productive Capacity <sup>1</sup> .....	30,617	33,691	33,443	37,584	34,011	NA	-9.1	-2.6	NA
Production Total.....	22,480	28,048	29,154	28,572	26,118	35,252	-19.8	-3.7	-4.9
Underground.....	11,431	14,604	16,949	15,912	13,077	12,920	-21.7	-3.3	-1.3
Surface.....	11,048	13,444	12,205	12,660	13,041	22,332	-17.8	-4.1	-7.5
Capacity Utilization <sup>2</sup> .....	73.10	83.13	87.07	75.88	76.55	NA	-12.0	-1.1	NA
Ratio of Recoverable Reserves to Production.....	17.0	12.7	10.9	14.5	17.9	19.6	34.0	-1.3	-1.6
Number of Employees/Miners.....	3,069	R 3,415	3,124	3,232	3,386	5,866	-10.1	-2.4	-6.9
Productivity Total <sup>2</sup> .....	3.19	R 3.50	4.02	3.95	3.62	2.80	-8.7	-3.1	1.4
Underground.....	3.02	R 3.48	4.18	4.19	3.81	2.34	-13.4	-5.6	2.8
Surface.....	3.40	R 3.52	3.81	3.69	3.46	3.17	-3.3	-4	.8
Producer/Distributor Stocks.....	800	1,276	774	532	1,374	-	-37.3	-12.6	-
Imports <sup>3</sup> .....	-	-	1	1	1	-	-	-100.0	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	23,074	27,166	29,434	28,881	24,345	NA	-15.1	-1.3	NA
Domestic Distribution Total.....	23,068	26,503	29,024	28,609	24,318	NA	-13.0	-1.3	NA
Within State.....	20,521	23,091	24,521	24,478	20,228	NA	-11.1	.4	NA
To Other States.....	2,547	3,412	4,502	4,131	4,090	NA	-25.3	-11.2	NA
Foreign Distribution Total.....	6	663	410	271	28	NA	-99.1	-32.6	NA
Steam.....	6	663	410	271	28	NA	-99.1	-32.6	NA
Canada Total.....	4	204	-	3	13	NA	-98.1	-25.7	NA
Steam.....	4	204	-	3	13	NA	-98.1	-25.7	NA
Overseas Total <sup>4</sup> .....	2	459	410	269	15	NA	-99.6	-41.1	NA
Steam.....	2	459	410	269	15	NA	-99.6	-41.1	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	57,500	R 60,356	R 58,821	59,835	56,580	59,205	-4.7	.4	-3
Electric Utility.....	52,123	54,455	52,893	53,543	49,785	48,848	-4.3	1.1	.7
Other Industrial.....	3,371	R 3,684	R 3,751	3,794	3,609	4,753	-8.5	-1.7	-3.7
Coke.....	w	w	1,848	1,842	2,777	4,949	w	w	w
Residential/Commercial.....	217	391	329	656	409	654	-44.4	-14.6	-11.5
Consumer Stocks Total.....	w	6,175	6,324	5,428	5,936	10,471	w	w	w
Electric Utility.....	w	5,902	6,066	5,229	5,661	9,956	w	w	w
All Other.....	212	273	257	199	275	515	-22.5	-6.3	-9.4
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$28.18	\$27.56	\$23.66	\$24.85	\$25.97	\$28.65	2.3	2.1	-2
Underground.....	31.50	28.48	25.16	25.98	28.98	33.93	10.6	2.1	-8
Surface.....	24.52	26.61	21.57	23.43	22.92	25.57	-7.9	1.7	-5
Consumer									
Electric Utility.....	\$32.47	\$32.52	31.41	32.31	34.44	36.01	-1	-1.4	-1.1
Other Industrial.....	34.44	33.52	34.05	35.28	35.18	35.04	2.8	-5	-2
Coke.....	w	w	46.89	44.98	42.18	48.29	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Imports for 1995 through 1999 include imports to electric utilities, manufacturing plants and coke plants. Imports for 1990 include only imports to electric utilities.

<sup>4</sup> Includes Mexico.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A11. Pennsylvania Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	657,416	774,883	905,320	796,035	736,601	1,126,272	-15.1	-2.8	-5.8
Productive Capacity <sup>1</sup> .....	93,770	94,581	87,527	81,684	77,187	NA	-8	5.0	NA
Production Total.....	76,399	81,036	76,198	67,942	61,576	70,514	-5.7	5.5	.9
Underground.....	59,211	59,553	54,829	47,247	41,409	40,530	-6	9.3	4.3
Surface.....	17,188	21,483	21,369	20,694	20,167	29,984	-20.0	-3.9	-6.0
Capacity Utilization <sup>2</sup> .....	81.06	85.28	86.46	82.53	78.81	NA	-4.9	.7	NA
Ratio of Recoverable									
Reserves to Production.....	8.6	9.6	11.9	11.7	12.0	16.0	-10.0	-7.9	-6.6
Number of Employees/Miners.....	9,318	R 9,915	9,575	9,021	8,968	15,903	-6.0	1.0	-5.8
Productivity Total <sup>2</sup> .....	3.81	R 3.77	3.63	3.36	3.23	2.24	1.1	4.2	6.1
Underground.....	4.31	R 4.22	4.05	3.74	3.49	2.12	2.2	5.4	8.2
Surface.....	2.72	R 2.91	2.86	2.72	2.79	2.42	-6.5	-6	1.3
Producer/Distributor Stocks.....	2,134	2,682	2,507	3,113	2,487	-	-20.4	-3.8	-
Imports <sup>3</sup> .....	-	-	72	80	87	-	-	-100.0	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	75,669	80,525	73,725	69,128	62,240	NA	-6.0	5.0	NA
Domestic Distribution Total.....	68,703	72,616	65,027	59,882	53,961	NA	-5.4	6.2	NA
Within State.....	36,912	41,917	40,834	39,222	36,147	NA	-11.9	.5	NA
To Other States.....	31,791	30,700	24,193	20,660	17,814	NA	3.5	15.6	NA
Foreign Distribution Total.....	6,966	7,908	8,698	9,246	8,279	NA	-11.9	-4.2	NA
Metallurgical.....	1,985	1,912	2,105	1,642	1,467	NA	3.8	7.8	NA
Steam.....	4,981	5,996	6,593	7,604	6,812	NA	-16.9	-7.5	NA
Canada Total.....	2,552	2,286	2,612	1,050	713	NA	11.7	37.6	NA
Metallurgical.....	20	17	-	-	4	NA	16.6	47.7	NA
Steam.....	2,533	2,269	2,612	1,050	708	NA	11.6	37.5	NA
Overseas Total <sup>4</sup> .....	4,414	5,623	6,087	8,196	7,566	NA	-21.5	-12.6	NA
Metallurgical.....	1,965	1,895	2,105	1,642	1,463	NA	3.7	7.6	NA
Steam.....	2,449	3,728	3,981	6,554	6,103	NA	-34.3	-20.4	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	45,414	R 54,504	R 58,673	57,226	55,326	57,319	-16.7	-4.8	-2.5
Electric Utility.....	34,558	42,971	42,603	41,076	39,252	41,465	-19.6	-3.1	-2.0
Other Industrial.....	3,587	R 3,584	R 4,492	4,466	4,027	4,090	.1	-2.8	-1.4
Coke.....	w	w	10,334	10,689	10,858	10,456	w	w	w
Residential/Commercial.....	690	841	1,244	995	1,188	1,308	-17.9	-12.7	-6.8
Consumer Stocks Total.....	w	9,057	8,658	8,857	10,303	15,426	w	w	w
Electric Utility.....	w	8,441	7,790	7,878	9,244	14,363	w	w	w
All Other.....	637	616	868	980	1,059	1,063	3.4	-11.9	-5.5
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$24.14	R \$25.79	\$25.98	\$25.78	\$26.78	\$30.15	-6.4	-2.6	-2.4
Underground.....	23.86	25.40	26.30	25.79	27.09	33.23	-6.1	-3.1	-3.6
Surface.....	25.07	R 27.02	25.13	25.76	26.14	25.91	-7.8	-1.0	-4
Consumer									
Electric Utility.....	\$32.61	\$33.28	33.28	34.06	33.48	37.25	-2.0	-7	-1.5
Other Industrial.....	33.63	34.33	34.20	33.84	34.07	36.61	-2.0	-3	-9
Coke.....	w	w	46.20	45.16	46.11	45.78	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Imports for 1995 through 1999 include imports to electric utilities, manufacturing plants and coke plants. Imports for 1990 include only imports to electric utilities.

<sup>4</sup> Includes Mexico.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A12. Texas Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	755,506	791,111	921,939	878,486	939,901	1,209,492	-4.5	-5.3	-5.1
Productive Capacity <sup>1</sup> .....	54,705	54,475	54,614	59,604	54,758	NA	.4	*	NA
Production Total.....	53,072	52,583	53,328	55,164	52,684	55,755	.9	.2	-5
Surface.....	53,072	52,583	53,328	55,164	52,684	55,755	.9	.2	-5
Capacity Utilization <sup>2</sup> .....	97.02	96.53	97.64	92.55	96.21	NA	.5	.2	NA
Ratio of Recoverable									
Reserves to Production.....	14.2	15.0	17.3	15.9	17.8	21.7	-5.4	-5.5	-4.6
Number of Employees/Miners.....	2,464	R 2,523	1,363	1,550	1,590	2,131	-2.3	11.6	1.6
Productivity Total <sup>2</sup> .....	10.08	R 9.66	10.24	10.13	9.10	7.48	4.4	2.6	3.4
Surface.....	10.08	R 9.66	10.24	10.13	9.10	7.48	4.4	2.6	3.4
Producer/Distributor Stocks.....	1,187	1,319	1,506	1,254	864	-	-10.0	8.3	-
Imports <sup>3</sup> .....	69	170	99	16	-	-	-59.4	-	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	53,075	52,935	53,463	49,655	52,832	NA	.3	.1	NA
Domestic Distribution Total.....	52,903	52,913	53,463	49,538	52,812	NA	*	*	NA
Within State.....	52,855	52,769	53,463	49,538	52,812	NA	.2	*	NA
To Other States.....	48	144	-	-	-	NA	-66.9	-	NA
Foreign Distribution Total.....	172	22	-	117	20	NA	NM	72.0	NA
Steam.....	172	22	-	117	20	NA	NM	72.0	NA
Canada Total.....	72	-	-	-	-	NA	-	-	NA
Steam.....	72	-	-	-	-	NA	-	-	NA
Overseas Total <sup>4</sup> .....	100	22	-	117	20	NA	348.3	50.2	NA
Steam.....	100	22	-	117	20	NA	348.3	50.2	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	102,157	R 99,098	R 101,304	98,998	92,612	91,415	3.1	2.5	1.2
Electric Utility.....	97,746	94,661	96,537	94,189	88,358	87,248	3.3	2.5	1.3
Other Industrial.....	4,403	R 4,422	R 4,766	4,808	4,255	4,157	-4	.8	.6
Residential/Commercial.....	8	14	*	-	-	w	-41.4	-	w
Consumer Stocks Total.....	w	8,007	6,540	10,477	10,829	w	w	w	w
Electric Utility.....	w	7,784	6,352	10,287	10,628	8,531	w	w	w
All Other.....	192	223	188	190	201	w	-13.7	-1.2	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$12.46	\$12.47	\$12.15	\$12.17	\$12.16	\$11.20	*	.6	1.2
Surface.....	\$12.46	\$12.47	12.15	12.17	12.16	11.20	*	.6	1.2
Consumer									
Electric Utility.....	\$18.01	\$18.61	18.69	19.26	19.65	21.19	-3.2	-2.1	-1.8
Other Industrial.....	21.01	21.05	20.13	18.99	18.76	16.79	-2	2.9	2.5

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Imports for 1995 through 1999 include imports to electric utilities, manufacturing plants and coke plants. Imports for 1990 include only imports to electric utilities.

<sup>4</sup> Includes Mexico.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NM Not meaningful as value is greater than 500 percent.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A13. Utah Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	424,045	433,354	432,777	284,433	374,750	505,042	-2.1	3.1	-1.9
Productive Capacity <sup>1</sup> .....	32,158	33,838	30,281	30,230	30,888	NA	-5.0	1.0	NA
Production Total.....	26,373	26,075	26,683	27,507	25,167	22,058	1.1	1.2	2.0
Underground.....	26,373	26,075	26,683	27,507	25,167	22,058	1.1	1.2	2.0
Capacity Utilization <sup>2</sup> .....	81.98	77.06	88.09	90.97	81.48	NA	6.4	.1	NA
Ratio of Recoverable									
Reserves to Production.....	16.1	16.6	16.2	10.3	14.9	22.9	-3.3	1.9	-3.8
Number of Employees/Miners.....	1,837	R 2,072	1,922	1,804	1,893	2,434	-11.3	-7	-3.1
Productivity Total <sup>2</sup> .....	6.84	R 6.16	6.34	7.23	7.02	4.74	11.1	-6	4.1
Underground.....	7.15	R 6.22	6.34	7.24	7.02	4.74	15.0	.5	4.7
Producer/Distributor Stocks.....	2,147	1,809	2,112	1,337	1,946	-	18.7	2.5	-
Imports <sup>3</sup> .....	146	-	-	-	-	-	-	-	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	25,715	26,765	26,272	23,868	25,521	NA	-3.9	.2	NA
Domestic Distribution Total.....	23,402	24,229	22,857	18,563	21,591	NA	-3.4	2.0	NA
Within State.....	10,979	12,531	13,936	9,389	12,755	NA	-12.4	-3.7	NA
To Other States.....	12,423	11,699	8,922	9,174	8,836	NA	6.2	8.9	NA
Foreign Distribution Total.....	2,313	2,535	3,414	5,305	3,930	NA	-8.8	-12.4	NA
Metallurgical.....	-	-	97	187	-	NA	-	-	NA
Steam.....	2,313	2,535	3,317	5,118	3,930	NA	-8.8	-12.4	NA
Overseas Total <sup>4</sup> .....	2,313	2,535	3,414	5,305	3,930	NA	-8.8	-12.4	NA
Metallurgical.....	-	-	97	187	-	NA	-	-	NA
Steam.....	2,313	2,535	3,317	5,118	3,930	NA	-8.8	-12.4	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	16,191	R 17,052	R 16,105	15,237	15,307	15,738	-5.0	1.4	.3
Electric Utility.....	14,590	14,664	14,252	13,584	13,325	13,563	-.5	2.3	.8
Other Industrial.....	745	R 1,304	R 709	512	915	676	-42.8	-5.0	1.1
Coke.....	w	w	w	w	w	w	w	w	w
Residential/Commercial.....	w	w	w	w	w	w	w	w	w
Consumer Stocks Total.....	w	w	w	w	w	w	w	w	w
Electric Utility.....	w	2,461	2,309	1,526	2,250	3,697	w	w	w
All Other.....	w	w	w	w	w	w	w	w	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$17.33	\$18.47	\$17.61	\$21.63	\$19.10	\$18.53	-6.2	-2.4	-7
Underground.....	\$17.33	\$18.47	17.61	21.63	19.10	18.53	-6.2	-2.4	-7
Consumer.....									
Electric Utility.....	\$23.96	\$25.97	25.22	24.66	25.27	26.80	-7.8	-1.3	-1.2
Other Industrial.....	21.53	19.05	19.28	19.10	19.74	28.49	13.0	2.2	-3.1
Coke.....	w	w	w	w	w	w	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Imports for 1995 through 1999 include imports to electric utilities, manufacturing plants and coke plants. Imports for 1990 include only imports to electric utilities.

<sup>4</sup> Includes Mexico.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A14. Virginia Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	220,268	190,061	207,765	188,344	203,159	423,584	15.9	2.0	-7.0
Productive Capacity <sup>1</sup> .....	39,729	39,064	43,023	41,593	43,037	NA	1.7	-2.0	NA
Production Total.....	32,294	33,747	35,837	35,590	34,099	46,917	-4.3	-1.3	-4.1
Underground.....	22,562	25,212	26,929	25,568	25,372	39,150	-10.5	-2.9	-5.9
Surface.....	9,732	8,535	8,907	10,022	8,727	7,767	14.0	2.8	2.5
Capacity Utilization <sup>2</sup> .....	81.09	86.13	83.09	85.34	79.07	NA	-5.8	.6	NA
Ratio of Recoverable Reserves to Production.....	6.8	5.6	5.8	5.3	6.0	9.0	21.1	3.4	-3.1
Number of Employees/Miners.....	5,450	R 5,887	6,235	6,241	6,919	10,342	-7.4	-5.8	-6.9
Productivity Total <sup>2</sup> .....	3.09	R 2.82	2.77	2.72	2.50	2.24	9.5	5.4	3.6
Underground.....	2.87	R 2.64	2.56	2.44	2.25	2.14	8.7	6.3	3.3
Surface.....	3.73	R 3.51	3.69	3.79	3.73	2.89	6.4	*	2.9
Producer/Distributor Stocks.....	2,240	2,565	2,328	1,644	1,649	-	-12.6	8.0	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	31,634	33,539	35,577	36,208	34,024	NA	-5.7	-1.8	NA
Domestic Distribution Total.....	22,865	20,728	22,736	22,776	24,283	NA	10.3	-1.5	NA
Within State.....	8,355	7,602	6,854	7,231	5,657	NA	9.9	10.2	NA
To Other States.....	14,510	13,126	15,882	15,545	18,625	NA	10.5	-6.0	NA
Foreign Distribution Total.....	8,770	12,810	12,841	13,432	9,742	NA	-31.5	-2.6	NA
Metallurgical.....	8,036	12,649	12,288	12,760	8,921	NA	-36.5	-2.6	NA
Steam.....	734	162	553	671	821	NA	353.3	-2.8	NA
Canada Total.....	734	719	508	387	445	NA	2.0	13.3	NA
Metallurgical.....	-	719	508	387	445	NA	-100.0	-	NA
Steam.....	734	-	-	-	-	NA	-	-	NA
Overseas Total <sup>3</sup> .....	8,036	12,091	12,333	13,044	9,297	NA	-33.5	-3.6	NA
Metallurgical.....	8,036	11,929	11,780	12,373	8,475	NA	-32.6	-1.3	NA
Steam.....	-	162	553	671	821	NA	-100.0	-	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	15,802	R 15,857	R 15,273	14,983	13,378	13,105	-3	4.3	2.1
Electric Utility.....	12,427	12,300	11,605	10,994	9,543	8,228	1.0	6.8	4.7
Other Industrial.....	2,230	R 2,368	R 2,500	2,613	2,585	3,756	-5.8	-3.6	-5.6
Coke.....	w	w	w	w	w	w	w	w	w
Residential/Commercial.....	w	w	w	w	w	w	w	w	w
Consumer Stocks Total.....	w	w	w	w	w	w	w	w	w
Electric Utility.....	w	1,370	1,152	1,010	1,098	1,639	w	w	w
All Other.....	w	w	w	w	w	w	w	w	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$26.30	\$28.69	\$28.24	\$28.45	\$28.47	\$28.05	-8.3	-1.9	-7
Underground.....	26.73	29.55	29.07	29.46	29.20	28.39	-9.5	-2.2	-7
Surface.....	24.21	26.21	25.74	25.88	26.34	26.32	-7.6	-2.1	-9
Consumer									
Electric Utility.....	\$34.11	\$34.73	34.98	35.73	36.90	39.29	-1.8	-1.9	-1.5
Other Industrial.....	42.93	43.60	43.85	43.51	42.50	41.05	-1.5	.3	.5
Coke.....	w	w	w	w	w	w	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Includes Mexico.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

R Revised Data.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A15. West Virginia Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	1,464,660	1,911,052	1,736,836	1,731,154	1,731,400	2,115,125	-23.3	-4.1	-4.0
Productive Capacity <sup>1</sup> .....	195,128	203,816	203,006	217,409	204,837	NA	-4.3	-1.2	NA
Production Total.....	157,978	171,145	173,743	170,433	162,997	169,205	-7.7	-8	-8
Underground.....	103,727	117,191	116,523	115,585	110,029	123,306	-11.5	-1.5	-1.9
Surface.....	54,251	53,955	57,220	54,848	52,968	45,898	.5	.6	1.9
Capacity Utilization <sup>2</sup> .....	80.89	83.91	85.50	78.32	79.50	NA	-3.6	.4	NA
Ratio of Recoverable Reserves to Production.....	9.3	11.2	10.0	10.2	10.6	12.5	-17.0	-3.3	-3.3
Number of Employees/Miners.....	15,536	R 17,822	18,245	20,121	21,334	29,578	-12.8	-7.6	-6.9
Productivity Total <sup>2</sup> .....	4.77	R 4.62	4.46	3.91	3.74	2.96	3.0	6.2	5.4
Underground.....	4.31	R 4.29	4.03	3.50	3.40	2.70	.4	6.1	5.3
Surface.....	5.97	R 5.56	5.71	5.18	4.74	4.02	7.4	5.9	4.5
Producer/Distributor Stocks.....	6,697	6,008	5,504	4,947	6,176	-	11.5	2.0	-
Imports <sup>3</sup> .....	5	-	-	-	-	-	-	-	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	157,730	172,612	172,236	169,200	165,187	NA	-8.6	-1.1	NA
Domestic Distribution Total.....	134,882	135,082	133,777	127,156	120,866	NA	-.1	2.8	NA
Within State.....	23,813	28,451	29,141	29,220	29,018	NA	-16.3	-4.8	NA
To Other States.....	111,069	106,631	104,636	97,936	91,848	NA	4.2	4.9	NA
Foreign Distribution Total.....	22,848	37,531	38,459	42,044	44,321	NA	-39.1	-15.3	NA
Metallurgical.....	20,120	32,224	30,327	31,717	34,633	NA	-37.6	-12.7	NA
Steam.....	2,728	5,307	8,132	10,327	9,688	NA	-48.6	-27.2	NA
Canada Total.....	9,474	10,500	8,291	7,222	5,784	NA	-9.8	13.1	NA
Metallurgical.....	7,547	8,945	6,956	6,907	5,759	NA	-15.6	7.0	NA
Steam.....	1,927	1,555	1,335	315	25	NA	23.9	196.8	NA
Overseas Total <sup>4</sup> .....	13,374	27,031	30,168	34,822	38,537	NA	-50.5	-23.3	NA
Metallurgical.....	12,574	23,279	23,370	24,810	28,874	NA	-46.0	-18.8	NA
Steam.....	800	3,752	6,798	10,012	9,663	NA	-78.7	-46.3	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	39,419	R 38,949	R 37,160	36,140	34,489	34,896	1.2	3.4	1.4
Electric Utility.....	36,092	35,132	34,487	32,775	30,657	29,873	2.7	4.2	2.1
Other Industrial.....	1,600	R 1,913	R 1,690	1,630	1,984	2,918	-16.3	-5.2	-6.4
Coke.....	w	w	w	w	w	w	w	w	w
Residential/Commercial.....	w	w	w	w	w	w	w	w	w
Consumer Stocks Total.....	w	w	w	w	w	w	w	w	w
Electric Utility.....	w	3,791	4,042	4,370	4,744	6,874	w	w	w
All Other.....	w	w	w	w	w	w	w	w	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$25.57	\$27.07	\$26.64	\$26.58	\$27.18	\$28.62	-5.6	-1.5	-1.2
Underground.....	26.21	28.25	27.64	27.31	27.77	29.75	-7.2	-1.4	-1.4
Surface.....	22.39	24.50	24.60	25.04	25.95	25.55	-8.6	-3.6	-1.5
Consumer.....									
Electric Utility.....	\$29.22	\$30.06	30.68	30.93	31.61	36.66	-2.8	-1.9	-2.5
Other Industrial.....	37.86	48.24	35.31	33.37	33.61	31.88	-21.5	3.0	1.9
Coke.....	w	w	w	w	w	w	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Imports for 1994 through 1998 include imports to electric utilities, manufacturing plants and coke plants. Imports for 1989 include only imports to electric utilities.

<sup>4</sup> Includes Mexico.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A16. Wyoming Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	7,093,750	7,220,356	6,464,670	6,591,293	6,723,963	6,563,528	-1.8	1.3	0.9
Productive Capacity <sup>1</sup> .....	407,977	379,380	366,680	350,908	337,184	NA	7.5	4.9	NA
Production Total.....	337,119	314,409	281,881	278,440	263,822	184,249	7.2	6.3	6.9
Underground.....	1,673	1,723	2,846	2,641	2,008	1,722	-2.9	-4.5	-3
Surface.....	335,446	312,686	279,035	275,799	261,814	182,527	7.3	6.4	7.0
Capacity Utilization <sup>2</sup> .....	82.63	82.87	76.87	79.35	78.24	NA	-3	1.4	NA
Ratio of Recoverable									
Reserves to Production.....	21.0	23.0	22.9	23.7	25.5	35.6	-8.4	-4.7	-5.7
Number of Employees/Miners.....	4,412	R 4,447	2,777	2,814	3,142	3,330	-8	8.8	3.2
Productivity Total <sup>2</sup> .....	37.29	R 35.98	34.55	32.06	30.06	21.41	3.6	5.5	6.3
Underground.....	10.29	R 9.14	10.13	9.18	5.97	2.80	12.6	14.5	15.5
Surface.....	37.78	R 36.57	35.42	32.84	31.02	22.84	3.3	5.0	5.8
Producer/Distributor Stocks.....	5,917	3,873	2,036	1,504	1,997	-	52.8	31.2	-
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	337,027	314,891	280,795	279,117	263,601	NA	7.0	6.3	NA
Domestic Distribution Total.....	333,253	311,162	278,255	276,723	261,333	NA	7.1	6.3	NA
Within State.....	28,519	27,719	26,756	26,253	26,521	NA	2.9	1.8	NA
To Other States.....	304,734	283,443	251,499	250,470	234,812	NA	7.5	6.7	NA
Foreign Distribution Total.....	3,774	3,729	2,541	2,395	2,269	NA	1.2	13.6	NA
Steam.....	3,774	3,729	2,541	2,395	2,269	NA	1.2	13.6	NA
Canada Total.....	2,951	1,931	818	443	32	NA	52.8	210.9	NA
Steam.....	2,951	1,931	818	443	32	NA	52.8	210.9	NA
Overseas Total <sup>3</sup> .....	823	1,798	1,723	1,952	2,237	NA	-54.2	-22.1	NA
Steam.....	823	1,798	1,723	1,952	2,237	NA	-54.2	-22.1	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	27,679	R 28,772	26,096	26,647	25,933	25,514	-3.8	1.6	.9
Electric Utility.....	25,639	R 26,674	23,997	24,430	23,850	23,526	-3.9	1.8	1.0
Other Industrial.....	1,936	R 1,939	1,959	1,835	w	w	-2	w	w
Residential/Commercial.....	104	159	140	382	146	w	-34.6	-8.0	w
Consumer Stocks Total.....	w	1,320	1,555	2,267	2,936	w	w	w	w
Electric Utility.....	w	1,243	1,498	2,197	2,857	3,215	w	w	w
All Other.....	69	77	57	71	79	w	-10.2	-3.4	w
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$5.38	\$5.41	\$6.00	\$6.41	\$6.58	\$8.43	-7	-4.9	-4.9
Underground.....	w	w	w	w	w	w	w	w	w
Surface.....	w	w	w	w	w	w	w	w	w
Consumer									
Electric Utility.....	\$13.39	\$13.83	\$14.16	\$14.30	\$14.29	\$14.74	-3.2	-1.6	-1.0
Other Industrial.....	24.26	24.10	23.68	22.32	22.72	24.91	.6	1.6	-3

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Includes Mexico.

w Withheld to avoid disclosure of individual company data.

R Revised Data.

NA Not available.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table A17. All Other States Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	583,316	361,383	416,535	427,163	420,998	588,588	61.4	8.5	-0.1
Productive Capacity <sup>1</sup> .....	22,500	23,132	24,996	23,441	24,495	NA	-2.7	-2.1	NA
Production Total.....	17,996	18,353	19,349	19,674	19,911	25,140	-1.9	-2.5	-3.6
Underground.....	4,968	4,618	4,909	5,227	4,880	6,617	7.6	.4	-3.1
Surface.....	13,027	13,734	14,440	14,447	15,031	18,523	-5.1	-3.5	-3.8
Capacity Utilization <sup>2</sup> .....	79.65	79.06	77.22	83.55	81.02	NA	.8	-4	NA
Ratio of Recoverable									
Reserves to Production.....	32.4	19.7	21.5	21.7	21.1	23.4	64.6	11.3	3.7
Number of Employees/Miners.....	2,153	R 2,129	2,344	2,394	2,312	4,297	1.1	-1.8	-7.4
Productivity Total <sup>2</sup> .....	4.00	R 4.15	3.78	3.73	3.96	2.84	-3.6	.2	3.9
Underground.....	3.66	R 3.87	3.29	2.94	3.03	1.95	-5.4	4.8	7.3
Surface.....	4.15	R 4.25	3.98	4.13	4.41	3.39	-2.4	-1.5	2.3
Producer/Distributor Stocks.....	518	389	539	292	784	-	33.1	-9.8	-
Imports <sup>3</sup> .....	4,944	6,167	5,192	5,267	5,084	1,366	-19.8	-7	15.4
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	18,108	18,592	19,191	19,828	19,080	NA	-2.6	-1.3	NA
Domestic Distribution Total.....	17,585	18,212	18,261	18,285	17,930	NA	-3.4	-5	NA
Within State.....	10	29	24	28	26	NA	-67.0	-22.5	NA
To Other States.....	17,576	18,184	18,236	18,257	17,904	NA	-3.3	-5	NA
Foreign Distribution Total.....	541	380	931	1,544	1,150	NA	42.5	-17.2	NA
Metallurgical.....	-	-	48	-	38	NA	-	-100.0	NA
Steam.....	541	380	882	1,544	1,112	NA	42.5	-16.5	NA
Canada Total.....	4	-	*	*	1	NA	-	55.9	NA
Steam.....	4	-	*	*	1	NA	-	55.9	NA
Overseas Total <sup>4</sup> .....	537	380	931	1,544	1,149	NA	41.4	-17.3	NA
Metallurgical.....	-	-	48	-	38	NA	-	-	NA
Steam.....	537	380	882	1,544	1,112	NA	41.4	-16.6	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	407,859	R 415,791	R 412,092	R 400,796	382,060	354,565	-1.9	1.6	1.6
Electric Utility.....	374,013	382,587	376,543	365,146	344,785	315,146	-2.2	2.0	1.9
Other Industrial.....	27,666	R 28,177	R 29,946	R 30,467	31,653	33,065	-1.8	-3.3	-2.0
Coke.....	w	w	2,677	2,686	2,784	3,740	w	w	w
Residential/Commercial.....	2,266	2,004	2,925	2,497	2,838	2,614	13.0	-5.5	-1.6
Consumer Stocks Total.....	w	63,195	48,790	60,121	62,368	71,991	w	w	w
Electric Utility.....	w	59,476	45,078	55,817	58,348	66,880	w	w	w
All Other.....	3,786	3,719	3,712	4,304	4,021	5,111	1.8	-1.5	-3.3
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$24.51	R \$24.09	\$23.50	\$24.06	\$22.80	\$25.18	1.7	1.8	-3
Underground.....	24.30	R 25.19	24.26	25.78	26.25	28.25	-3.5	-1.9	-1.7
Surface.....	24.59	R 23.70	23.24	23.44	21.67	24.09	3.8	3.2	.2
Consumer									
Electric Utility.....	\$25.58	\$26.38	27.39	27.46	28.22	33.18	-3.0	-2.4	-2.8
Other Industrial.....	37.11	37.96	38.47	38.22	38.51	40.30	-2.2	-9	-9
Coke.....	w	w	49.16	51.21	51.67	53.79	w	w	w

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Imports for 1995 through 1999 include imports to electric utilities, manufacturing plants and coke plants. Imports for 1990 include only imports to electric utilities.

<sup>4</sup> Includes Mexico.

\* Data round to zero.

R Revised Data.

NA Not available.

Notes: Other States include Alaska, Arkansas, California, Iowa, Kansas, Louisiana, Maryland, Missouri, Oklahoma, Tennessee, and Washington. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."



**Table A18. Total U.S. Coal Statistics, 1990, 1995-1999**

Category	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Supply (thousand short tons)</b>									
Recoverable Reserves.....	18,919,666	<sup>R</sup> 19,322,240	19,164,398	19,427,980	20,105,197	22,761,328	-2.1	-1.5	-2.0
Productive Capacity <sup>1</sup> .....	1,345,632	<sup>R</sup> 1,337,679	1,325,604	1,324,712	1,299,054	NA	.6	.9	NA
Production Total.....	1,100,431	1,117,535	1,089,932	1,063,856	1,032,974	1,029,076	-1.5	1.6	.7
Underground.....	391,790	417,728	420,657	409,849	396,249	424,546	-6.2	-3	-9
Surface.....	708,642	699,807	669,274	654,007	636,725	604,529	1.3	2.7	1.8
Capacity Utilization <sup>2</sup> .....	81.70	83.47	82.13	80.21	79.40	NA	-2.1	.7	NA
Ratio of Recoverable									
Reserves to Production.....	17.2	17.3	17.6	18.3	19.5	22.1	-6	-3.0	-2.8
Number of Employees/Miners.....	78,723	<sup>R</sup> 85,418	81,516	83,462	90,252	131,310	-7.8	-3.3	-5.5
Productivity Total <sup>2</sup> .....	6.61	<sup>R</sup> 6.20	6.04	5.69	5.38	3.83	6.6	5.3	6.3
Underground.....	3.99	<sup>R</sup> 3.90	3.83	3.57	3.39	2.54	2.4	4.2	5.1
Surface.....	10.39	<sup>R</sup> 9.58	9.46	9.05	8.48	5.94	8.4	5.2	6.4
Producer/Distributor Stocks.....	39,475	36,530	33,973	28,648	34,444	29,000	8.1	3.5	3.5
Imports <sup>3</sup> .....	6,079	7,543	6,200	6,476	6,317	1,366	-19.4	-9	18.0
<b>Distribution (thousand short tons)</b>									
Distribution Total.....	1,097,721	1,122,421	1,078,896	1,059,892	1,030,330	NA	-2.2	1.6	NA
Domestic Distribution Total.....	1,041,823	1,042,236	995,664	967,693	940,423	NA	*	2.6	NA
Within State.....	348,389	367,564	356,763	340,005	336,821	NA	-5.2	.8	NA
To Other States.....	693,434	674,672	638,901	627,688	603,602	NA	2.8	3.5	NA
Foreign Distribution Total.....	55,898	80,185	83,232	92,199	89,907	NA	-30.3	-11.2	NA
Metallurgical.....	37,355	56,569	55,326	56,162	54,077	NA	-34.0	-8.8	NA
Steam.....	18,543	23,616	27,906	36,037	35,830	NA	-21.5	-15.2	NA
Canada Total.....	17,971	17,913	13,405	10,599	8,023	NA	.3	22.3	NA
Metallurgical.....	9,026	11,140	8,203	8,472	6,986	NA	-19.0	6.6	NA
Steam.....	8,945	6,772	5,202	2,127	1,037	NA	32.1	71.4	NA
Overseas Total <sup>4</sup> .....	37,928	62,273	69,827	81,600	81,884	NA	-39.1	-17.5	NA
Metallurgical.....	28,329	45,429	47,124	47,690	47,091	NA	-37.6	-11.9	NA
Steam.....	9,598	16,844	22,704	33,910	34,793	NA	-43.0	-27.5	NA
<b>Demand (thousand short tons)</b>									
Consumption Total.....	1,044,538	<sup>R</sup> 1,038,292	<sup>R</sup> 1,030,145	<sup>R</sup> 1,006,306	962,038	902,893	93.7	26.9	25.5
Electric Utility.....	894,120	<sup>R</sup> 910,867	<sup>R</sup> 900,361	<sup>R</sup> 874,681	829,007	773,549	-1.8	1.9	1.6
Other Industrial.....	64,738	<sup>R</sup> 67,439	<sup>R</sup> 71,515	<sup>R</sup> 71,689	73,055	76,330	-4.0	-3.0	-1.8
Coke.....	28,108	28,189	30,203	31,706	33,011	38,877	-3	-3.9	-3.5
Residential/Commercial.....	4,879	4,856	6,463	6,006	5,807	6,724	.5	-4.3	-3.5
Other Power Producers.....	52,693	26,941	21,603	22,224	21,158	7,413	95.6	25.6	24.3
Consumer Stocks Total.....	136,005	128,072	106,401	122,979	134,639	168,210	6.2	.3	-2.3
Electric Utility.....	128,494	120,501	98,826	114,623	126,304	156,166	6.6	.4	-2.1
All Other.....	7,511	7,571	7,576	8,355	8,334	12,044	-8	-2.6	-5.1
<b>Coal Prices (nominal dollars per short ton)</b>									
Mine Total.....	\$16.63	\$17.67	\$18.14	\$18.50	\$18.83	\$21.76	-5.8	-3.0	-2.9
Underground.....	24.33	25.64	25.68	25.96	26.18	28.58	-5.1	-1.8	-1.8
Surface.....	12.37	12.92	13.39	13.82	14.25	16.98	-4.3	-3.5	-3.5
Consumer									
Electric Utility.....	\$24.72	\$25.64	26.16	26.45	27.01	30.45	-3.5	-2.2	-2.3
Other Industrial.....	31.59	32.30	32.41	32.32	32.42	33.59	-2.2	-6	-7
Coke.....	45.85	46.06	47.61	47.33	47.34	47.73	-4	-8	-4

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> Capacity utilization (percent) is the ratio of total production to annual productive capacity as reported by mining companies on Form EIA-7A. Productivity (short tons per miner per hour) is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, and shop or yard work at mining operations.

<sup>3</sup> Imports for 1995 through 1999 include imports to electric utilities, manufacturing plants and coke plants. Imports for 1990 include only imports to electric utilities.

<sup>4</sup> Includes Mexico.

\* Data round to zero.

<sup>W</sup> Withheld to avoid disclosure of individual company data.

<sup>R</sup> Revised Data.

NA Not available.

<sup>R</sup> Revised Data.

Notes: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; Form EIA-6A, "Coal Distribution Report"; Form EIA-7A, "Coal Production Report"; Form EIA-759, "Monthly Power Plant Report"; and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

# 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. 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 0.907185.

The data converted to metric tons are from Tables ES3, 1, 16, 25, 35, 48, 67, 68, 76, 80, 92, 94, 96, 98, and 99.

**Table B1. Trends in U.S. Coal Production, Imports, Consumption, Exports, and Stocks, 1990, 1995-1999**  
(Million Metric Tons)

Activity	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Production .....	998	1,014	989	965	937	934	-1.5	1.6	0.7
Imports.....	8	8	7	7	9	2	4.2	-1.0	14.4
Producer and Distributor Stocks <sup>1</sup> .....	36	33	31	26	31	26	8.1	3.5	3.5
Consumption .....	948	<sup>R</sup> 942	<sup>R</sup> 935	<sup>R</sup> 913	<sup>R</sup> 873	819	0.6	2.1	1.6
Exports.....	53	71	76	82	80	96	-25.1	-9.8	-6.4
Consumer Stocks <sup>1</sup> .....	123	116	97	112	122	153	6.2	.3	-2.3

<sup>1</sup> Reported as of the last day of the quarter.

<sup>R</sup> Revised Data.

Note: Consumption does not include coal consumed by other power producers.

Sources: • Production: Energy Information Administration (EIA), 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. • Imports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145." • Producer and Distributor Stocks: EIA, Form EIA-6A, "Coal Distribution Report." • Exports: U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545." • Consumption and Consumer Stocks: EIA, Form EIA-759, "Monthly Power Plant Report"; Form EIA-3, Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; and Form EIA-6A, "Coal Distribution Report."

**Table B2. Coal Production by State, 1990, 1995-1999**  
(Thousand Metric Tons)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	17,694	20,877	22,197	22,351	22,353	26,335	-15.2	-5.7	-4.3
Alaska.....	1,420	1,220	1,315	1,343	1,540	1,548	16.4	-2.0	-9
Arizona.....	10,693	10,265	10,635	9,473	10,838	10,254	4.2	-3	.5
Arkansas.....	20	22	17	19	26	53	-9.2	-6.7	-10.3
California.....	-	-	-	-	-	55	-	-	-
Colorado.....	27,206	26,881	24,901	22,576	23,324	17,155	1.2	3.9	5.3
Illinois.....	36,666	36,045	37,338	42,325	43,708	54,787	1.7	-4.3	-4.4
Indiana.....	30,848	33,387	32,203	26,916	23,593	32,574	-7.6	6.9	-6
Iowa.....	-	-	-	-	-	346	-	-	-
Kansas.....	371	309	326	211	258	654	20.0	9.4	-6.1
Kentucky Total.....	126,667	136,345	141,388	138,278	139,470	157,235	-7.1	-2.4	-2.4
Eastern.....	99,830	105,827	109,695	106,096	107,539	116,479	-5.7	-1.8	-1.7
Western.....	26,837	30,518	31,693	32,182	31,931	40,756	-12.1	-4.3	-4.5
Louisiana.....	2,679	2,918	3,216	2,922	3,374	2,890	-8.2	-5.6	-8
Maryland.....	3,481	3,683	3,774	3,713	3,327	3,163	-5.5	1.1	1.1
Mississippi.....	17	-	-	-	-	-	-	-	-
Missouri.....	356	337	364	644	497	2,401	5.4	-8.0	-19.1
Montana.....	37,287	38,864	37,199	34,374	35,789	34,125	-4.0	1.0	1.0
New Mexico.....	26,450	25,943	24,517	21,834	24,324	22,038	1.9	2.1	2.0
North Dakota.....	28,245	27,136	26,834	27,089	27,317	26,502	4.1	.8	.7
Ohio.....	20,393	25,445	26,449	25,920	23,694	31,980	-19.8	-3.7	-4.9
Oklahoma.....	1,507	1,507	1,470	1,543	1,702	1,540	*	-3.0	-2
Pennsylvania Total.....	69,308	73,515	69,126	61,636	55,860	63,969	-5.7	5.5	.9
Anthracite.....	4,312	4,746	4,244	4,310	4,248	3,181	-9.1	.4	3.4
Bituminous.....	64,996	68,769	64,882	57,325	51,613	60,788	-5.5	5.9	.7
Tennessee.....	2,755	2,446	2,994	3,312	2,922	5,618	12.6	-1.5	-7.6
Texas.....	48,146	47,703	48,378	50,044	47,794	50,580	.9	.2	-5
Utah.....	23,925	23,655	24,206	24,954	22,831	20,011	1.1	1.2	2.0
Virginia.....	29,297	30,615	32,511	32,286	30,934	42,562	-4.3	-1.3	-4.1
Washington.....	3,721	4,208	4,078	4,142	4,416	4,537	-11.6	-4.2	-2.2
West Virginia Total.....	143,316	155,260	157,617	154,614	147,869	153,500	-7.7	-8	-8
Northern.....	35,188	40,477	38,829	41,649	41,834	51,384	-13.1	-4.2	-4.1
Southern.....	108,128	114,783	118,788	112,965	106,034	102,116	-5.8	.5	.6
Wyoming.....	305,830	285,227	255,718	252,597	239,336	167,148	7.2	6.3	6.9
<b>Appalachian Total<sup>1</sup>.....</b>	<b>386,073</b>	<b>417,668</b>	<b>424,361</b>	<b>409,928</b>	<b>394,499</b>	<b>443,607</b>	<b>-7.6</b>	<b>-.5</b>	<b>-1.5</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>147,445</b>	<b>152,746</b>	<b>155,005</b>	<b>156,805</b>	<b>152,884</b>	<b>186,582</b>	<b>-3.5</b>	<b>-.9</b>	<b>-2.6</b>
<b>Western Total<sup>1</sup>.....</b>	<b>464,777</b>	<b>443,398</b>	<b>409,404</b>	<b>398,381</b>	<b>389,715</b>	<b>303,373</b>	<b>4.8</b>	<b>4.5</b>	<b>4.8</b>
<b>East of Miss. River.....</b>	<b>480,440</b>	<b>517,618</b>	<b>525,595</b>	<b>511,351</b>	<b>493,732</b>	<b>571,724</b>	<b>-7.2</b>	<b>-.7</b>	<b>-1.9</b>
<b>West of Miss. River.....</b>	<b>517,855</b>	<b>496,194</b>	<b>463,175</b>	<b>453,763</b>	<b>443,367</b>	<b>361,838</b>	<b>4.4</b>	<b>3.9</b>	<b>4.1</b>
<b>U.S. Total.....</b>	<b>998,295</b>	<b>1,013,811</b>	<b>988,770</b>	<b>965,114</b>	<b>937,098</b>	<b>933,562</b>	<b>-1.5</b>	<b>1.6</b>	<b>.7</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

Notes: Coal production excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table B3. Productive Capacity of Coal Mines by State, 1990, 1995-1999**  
(Thousand Metric Tons)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990 <sup>1</sup>	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	20,221	25,302	26,382	29,174	29,526	NA	-20.1	-9.0	NA
Alaska.....	w	w	w	w	w	NA	w	w	NA
Arizona.....	w	w	w	w	w	NA	w	w	NA
Arkansas.....	w	w	w	-	w	NA	w	w	NA
California.....	-	-	-	-	-	NA	-	-	NA
Colorado.....	37,284	33,256	32,174	26,608	29,425	NA	12.1	6.1	NA
Illinois.....	44,255	43,205	46,741	55,998	51,371	NA	2.4	-3.6	NA
Indiana.....	37,517	38,274	33,565	32,263	31,984	NA	-2.0	4.1	NA
Iowa.....	-	-	-	-	-	NA	-	-	NA
Kansas.....	w	w	w	w	w	NA	w	w	NA
Kentucky Total.....	165,682	170,172	177,312	171,662	184,316	NA	-2.6	-2.6	NA
Eastern.....	129,149	132,585	138,510	132,169	137,993	NA	-2.6	-1.6	NA
Western.....	36,533	37,587	38,802	39,493	46,323	NA	-2.8	-5.8	NA
Louisiana.....	w	w	w	w	w	NA	w	w	NA
Maryland.....	3,832	3,856	4,430	4,477	3,999	NA	-6	-1.0	NA
Mississippi.....	w	-	-	-	-	NA	-	-	NA
Missouri.....	w	807	626	949	980	NA	w	w	NA
Montana.....	49,788	50,695	50,930	50,961	46,808	NA	-1.8	1.5	NA
New Mexico.....	29,753	29,747	28,670	29,660	29,719	NA	*	*	NA
North Dakota.....	29,583	29,469	29,545	29,197	31,265	NA	.4	-1.4	NA
Ohio.....	27,775	30,564	30,339	34,096	30,854	NA	-9.1	-2.6	NA
Oklahoma.....	2,341	1,797	2,223	1,797	2,320	NA	30.3	.2	NA
Pennsylvania Total.....	85,067	85,803	79,404	74,102	70,023	NA	-8	5.0	NA
Anthracite.....	6,008	6,194	4,993	4,993	5,939	NA	-3.0	.3	NA
Bituminous.....	79,060	79,609	74,411	69,109	64,083	NA	-7	5.4	NA
Tennessee.....	3,381	3,759	3,719	3,637	3,402	NA	-10.1	-1	NA
Texas.....	49,627	49,419	49,545	54,072	49,676	NA	.4	*	NA
Utah.....	29,174	30,697	27,470	27,424	28,021	NA	-5.0	1.0	NA
Virginia.....	36,041	35,438	39,029	37,733	39,042	NA	1.7	-2.0	NA
Washington.....	w	w	w	w	w	NA	w	w	NA
West Virginia Total.....	177,017	184,899	184,164	197,230	185,825	NA	-4.3	-1.2	NA
Northern.....	43,058	44,231	46,034	49,534	51,124	NA	-2.6	-4.2	NA
Southern.....	133,959	140,668	138,130	147,696	134,701	NA	-4.8	-1	NA
Wyoming.....	370,110	344,168	332,647	318,338	305,888	NA	7.5	4.9	NA
<b>Appalachian Total<sup>2</sup>.....</b>	<b>482,482</b>	<b>502,204</b>	<b>505,978</b>	<b>512,618</b>	<b>500,664</b>	<b>NA</b>	<b>-3.9</b>	<b>-.9</b>	<b>NA</b>
<b>Interior Total<sup>2</sup>.....</b>	<b>174,693</b>	<b>174,926</b>	<b>175,740</b>	<b>188,385</b>	<b>186,329</b>	<b>NA</b>	<b>-.1</b>	<b>-1.6</b>	<b>NA</b>
<b>Western Total<sup>2</sup>.....</b>	<b>563,561</b>	<b>536,392</b>	<b>520,850</b>	<b>500,757</b>	<b>491,489</b>	<b>NA</b>	<b>5.1</b>	<b>3.5</b>	<b>NA</b>
<b>East of Miss. River.....</b>	<b>600,806</b>	<b>621,271</b>	<b>625,085</b>	<b>640,372</b>	<b>630,341</b>	<b>NA</b>	<b>-3.3</b>	<b>-1.2</b>	<b>NA</b>
<b>West of Miss. River.....</b>	<b>619,931</b>	<b>592,251</b>	<b>577,483</b>	<b>561,387</b>	<b>548,141</b>	<b>NA</b>	<b>4.7</b>	<b>3.1</b>	<b>NA</b>
<b>U.S. Total.....</b>	<b>1,220,737</b>	<b>1,213,522</b>	<b>1,202,568</b>	<b>1,201,759</b>	<b>1,178,482</b>	<b>NA</b>	<b>.6</b>	<b>.9</b>	<b>NA</b>

<sup>1</sup> For 1990, the Form EIA-7A solicited data on "Annual Productive Capacity." However, that data was not verified with the respondents and as a result it is not releasable.

<sup>2</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

NA Not available.

Notes: Productive capacity is the maximum amount of coal that can be produced as reported by mining companies on Form EIA-7A. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Source: Energy Information Administration, Form EIA-7A, "Coal Production Report."

**Table B4. Recoverable Coal Reserves at Producing Mines by State, 1990, 1995-1999**

(Million Metric Tons)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	396	339	340	410	463	444	16.7	-3.8	-1.3
Alaska.....	w	w	w	w	w	w	w	w	w
Arizona.....	w	w	w	w	w	w	w	w	w
Arkansas.....	-	-	-	-	w	w	-	-	-
California.....	-	-	-	-	-	w	-	-	-
Colorado.....	559	490	515	582	628	496	14.1	-2.8	1.3
Illinois.....	708	675	675	808	800	1,065	4.9	-3.0	-4.4
Indiana.....	264	284	357	350	294	403	-7.3	-2.6	-4.6
Iowa.....	-	-	-	-	-	w	-	-	-
Kansas.....	w	w	w	w	w	w	w	w	w
Kentucky Total.....	1,015	1,070	1,207	1,139	1,160	1,438	-5.1	-3.3	-3.8
Eastern.....	648	689	875	742	692	902	-5.9	-1.6	-3.6
Western.....	368	381	332	396	468	536	-3.6	-5.8	-4.1
Louisiana.....	w	w	w	w	w	w	w	w	w
Maryland.....	72	58	61	64	52	77	23.7	8.4	-8
Mississippi.....	w	-	-	-	-	-	-	-	-
Missouri.....	w	3	1	2	2	w	w	w	w
Montana.....	1,040	1,081	1,059	1,187	1,135	1,699	-3.7	-2.1	-5.3
New Mexico.....	1,256	1,256	1,284	1,303	1,343	1,385	*	-1.6	-1.1
North Dakota.....	1,078	1,061	1,098	1,181	1,513	1,283	1.6	-8.1	-1.9
Ohio.....	347	323	289	376	425	628	7.4	-4.9	-6.4
Oklahoma.....	32	17	21	17	17	34	90.8	16.4	-9
Pennsylvania Total.....	596	703	821	722	668	1,022	-15.1	-2.8	-5.8
Anthracite.....	69	80	109	81	45	70	-13.9	11.2	-1
Bituminous.....	528	623	712	641	623	952	-15.3	-4.1	-6.3
Tennessee.....	13	24	51	54	62	57	-48.3	-32.7	-15.4
Texas.....	685	718	836	797	853	1,097	-4.5	-5.3	-5.1
Utah.....	385	393	393	258	340	458	-2.1	3.1	-1.9
Virginia.....	200	172	188	171	184	384	15.9	2.0	-7.0
Washington.....	w	w	w	w	w	w	w	w	w
West Virginia Total.....	1,329	1,734	1,576	1,570	1,571	1,919	-23.3	-4.1	-4.0
Northern.....	501	777	648	673	709	924	-35.5	-8.3	-6.6
Southern.....	828	957	928	898	861	995	-13.5	-1.0	-2.0
Wyoming.....	6,435	6,550	5,865	5,980	6,100	5,954	-1.8	1.3	.9
<b>Appalachian Total<sup>1</sup>.....</b>	<b>3,600</b>	<b>4,042</b>	<b>4,202</b>	<b>4,110</b>	<b>4,117</b>	<b>5,433</b>	<b>-10.9</b>	<b>-3.3</b>	<b>-4.5</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>2,377</b>	<b>2,203</b>	<b>2,351</b>	<b>2,501</b>	<b>2,572</b>	<b>3,340</b>	<b>7.9</b>	<b>-1.9</b>	<b>-3.7</b>
<b>Western Total<sup>1</sup>.....</b>	<b>11,187</b>	<b>11,284</b>	<b>10,833</b>	<b>11,014</b>	<b>11,550</b>	<b>11,876</b>	<b>-9</b>	<b>-8</b>	<b>-7</b>
<b>East of Miss. River.....</b>	<b>5,136</b>	<b>5,383</b>	<b>5,566</b>	<b>5,665</b>	<b>5,679</b>	<b>7,437</b>	<b>-4.6</b>	<b>-2.5</b>	<b>-4.0</b>
<b>West of Miss. River.....</b>	<b>12,028</b>	<b>12,146</b>	<b>11,820</b>	<b>11,960</b>	<b>12,560</b>	<b>13,212</b>	<b>-1.0</b>	<b>-1.1</b>	<b>-1.0</b>
<b>U.S. Total.....</b>	<b>17,164</b>	<b>17,529</b>	<b>17,386</b>	<b>17,625</b>	<b>18,239</b>	<b>20,649</b>	<b>-2.1</b>	<b>-1.5</b>	<b>-2.0</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

Notes: Recoverable reserves represent the quantity of coal that can be recovered (i.e., mined) from existing coal reserves at reporting mines. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data. Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table B5. U.S. Coal Imports by Continent and Country of Origin, 1990, 1995-1999**  
(Metric Tons)

Continent and Country of Origin	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>954,639</b>	<b>1,059,919</b>	<b>1,099,428</b>	<b>1,583,086</b>	<b>1,767,772</b>	<b>888,336</b>	<b>-9.9</b>	<b>-14.3</b>	<b>0.8</b>
Canada .....	887,977	1,058,137	1,099,108	1,576,456	1,738,296	882,708	-16.1	-15.4	.1
Mexico .....	66,662	1,782	320	6,630	7,108	5,628	NM	75.0	31.6
Netherlands Antilles.....	-	-	-	-	22,368	-	-	-100.0	-
<b>South America Total</b> .....	<b>6,027,258</b>	<b>5,407,158</b>	<b>4,201,364</b>	<b>4,234,575</b>	<b>5,671,088</b>	<b>1,534,039</b>	<b>11.5</b>	<b>1.5</b>	<b>16.4</b>
Argentina .....	210	-	12	-	-	-	-	-	-
Brazil .....	30	-	-	-	-	-	-	-	-
Colombia .....	4,130,785	3,155,356	2,827,805	2,745,687	3,819,494	1,295,594	30.9	2.0	13.8
Venezuela .....	1,896,233	2,251,802	1,373,547	1,488,888	1,851,594	238,445	-15.8	.6	25.9
<b>Europe Total</b> .....	<b>65,894</b>	<b>39,529</b>	<b>24,163</b>	<b>2,369</b>	<b>474</b>	<b>4,892</b>	<b>66.7</b>	<b>243.4</b>	<b>33.5</b>
Belgium & Luxembourg.....	9,665	3,614	5,458	2,243	-	-	167.4	-	-
Denmark .....	-	-	-	-	214	118	-	-100.0	-100.0
Germany, FR.....	-	-	18	-	-	1	-	-	-100.0
Italy .....	1	33	-	-	-	-	-97.0	-	-
Norway .....	-	-	18,491	-	-	42	-	-	-100.0
Russia .....	857	-	-	-	-	-	-	-	-
Spain .....	-	33,051	-	90	-	-	-100.0	-	-
Switzerland.....	-	-	182	-	-	-	-	-	-
Turkey.....	-	-	-	36	-	-	-	-	-
United Kingdom.....	55,371	2,831	14	-	260	4,731	NM	282.0	31.4
<b>Asia Total</b> .....	<b>1,051,436</b>	<b>1,284,831</b>	<b>1,324,946</b>	<b>1,392,520</b>	<b>923,980</b>	<b>2</b>	<b>-18.2</b>	<b>3.3</b>	<b>332.1</b>
China (Mainland) .....	18,361	2,329	1,820	-	48	-	NM	342.2	-
Hong Kong .....	-	9	-	1	-	-	-100.0	-	-
India .....	523	-	-	-	-	-	-	-	-
Indonesia.....	1,032,444	1,282,492	1,293,569	1,392,517	923,908	-	-19.5	2.8	-
Japan .....	-	1	-	2	24	2	-100.0	-100.0	-100.0
Syria.....	107	-	-	-	-	-	-	-	-
Vietnam .....	-	-	29,557	-	-	-	-	-	-
<b>Oceania &amp; Australia Total</b> .....	<b>146,480</b>	<b>122,560</b>	<b>141,988</b>	<b>149,498</b>	<b>230,554</b>	<b>21,586</b>	<b>19.5</b>	<b>-10.7</b>	<b>23.7</b>
Australia .....	146,480	84,060	104,789	149,498	192,054	21,586	74.3	-6.5	23.7
New Zealand .....	-	38,500	37,199	-	38,500	-	-100.0	-100.0	-
<b>Total</b> .....	<b>8,245,707</b>	<b>7,913,997</b>	<b>6,791,889</b>	<b>7,362,048</b>	<b>8,593,868</b>	<b>2,448,855</b>	<b>4.2</b>	<b>-1.0</b>	<b>14.4</b>

NM Not meaningful as value is greater than 500 percent.  
 Note: Coal imports include coal to Puerto Rico and the Virgin Islands.  
 Source: U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145."

**Table B6. Coal Mining Productivity by State, 1990, 1995-1999**  
(Metric Tons of Coal Produced per Employee/Miner per Hour)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama.....	2.04	R 2.09	2.17	2.00	2.03	2.02	-2.3	0.1	0.1
Alaska.....	5.04	R 4.21	5.82	6.18	6.77	7.67	19.6	-7.1	-4.5
Arizona.....	6.00	R 5.92	6.16	5.72	5.75	5.38	1.3	1.0	1.2
Arkansas.....	1.72	R 1.77	1.76	-	1.33	1.33	-2.8	6.6	2.9
California.....	-	-	-	-	-	16.04	-	-	-
Colorado.....	7.19	R 7.15	6.97	6.64	5.57	3.84	.5	6.6	7.2
Illinois.....	3.80	R 3.78	3.81	3.79	3.51	2.66	.4	2.0	4.0
Indiana.....	4.92	R 4.69	4.84	4.52	4.24	3.48	4.9	3.8	3.9
Iowa.....	-	-	-	-	-	1.31	-	-	-
Kansas.....	7.78	R 6.79	3.46	1.97	2.01	1.84	14.5	40.2	17.3
Kentucky Total.....	3.53	R 3.44	3.58	3.45	3.24	2.57	2.4	2.1	3.6
Eastern.....	3.39	R 3.36	3.48	3.34	3.14	2.41	1.0	1.9	3.8
Western.....	4.14	R 3.77	3.97	3.89	3.60	3.14	9.8	3.5	3.1
Louisiana.....	7.70	R 8.00	9.93	9.86	12.02	11.94	-3.7	-10.5	-4.8
Maryland.....	3.81	R 3.73	3.56	3.74	3.46	2.66	2.1	2.4	4.1
Mississippi.....	.17	-	-	-	-	-	-	-	-
Missouri.....	2.62	R 2.46	2.89	3.16	2.31	2.71	6.5	3.2	-4
Montana.....	20.72	R 20.83	21.37	19.85	19.10	17.04	-5	2.0	2.2
New Mexico.....	7.53	R 7.18	8.50	7.66	6.27	6.93	4.8	4.7	.9
North Dakota.....	15.65	R 15.22	16.17	15.61	15.24	14.62	2.9	.7	.8
Ohio.....	2.90	R 3.17	3.65	3.59	3.29	2.54	-8.7	-3.1	1.4
Oklahoma.....	2.86	R 2.99	2.28	2.37	2.69	1.89	-4.4	1.5	4.7
Pennsylvania Total.....	3.46	R 3.42	3.29	3.05	2.93	2.03	1.1	4.2	6.1
Anthracite.....	1.59	R 1.85	1.60	1.74	1.89	.93	-14.0	-4.2	6.2
Bituminous.....	3.74	R 3.63	3.53	3.23	3.06	2.15	3.1	5.1	6.3
Tennessee.....	2.49	R 2.46	2.15	1.99	2.14	1.65	1.4	3.9	4.7
Texas.....	9.14	R 8.76	9.29	9.19	8.25	6.78	4.4	2.6	3.4
Utah.....	6.21	R 5.59	5.75	6.56	6.37	4.30	11.1	-6	4.1
Virginia.....	2.80	R 2.56	2.51	2.46	2.27	2.03	9.5	5.4	3.6
Washington.....	3.58	R 3.84	3.26	3.60	3.67	3.09	-6.8	-6	1.6
West Virginia Total.....	4.32	R 4.20	4.05	3.55	3.40	2.69	3.0	6.2	5.4
Northern.....	4.20	R 4.23	4.06	3.68	3.38	2.44	-7	5.6	6.2
Southern.....	4.36	R 4.18	4.04	3.50	3.40	2.83	4.3	6.4	4.9
Wyoming.....	33.83	R 32.64	31.34	29.08	27.27	19.42	3.6	5.5	6.3
<b>Appalachian Total<sup>1</sup>.....</b>	<b>3.48</b>	<b>R 3.42</b>	<b>3.41</b>	<b>3.16</b>	<b>3.01</b>	<b>2.36</b>	<b>1.7</b>	<b>3.7</b>	<b>4.4</b>
<b>Interior Total<sup>1</sup>.....</b>	<b>5.11</b>	<b>R 4.89</b>	<b>5.02</b>	<b>4.89</b>	<b>4.51</b>	<b>3.52</b>	<b>4.6</b>	<b>3.2</b>	<b>4.2</b>
<b>Western Total<sup>1</sup>.....</b>	<b>17.28</b>	<b>R 16.36</b>	<b>16.10</b>	<b>15.79</b>	<b>14.22</b>	<b>10.72</b>	<b>5.6</b>	<b>5.0</b>	<b>5.4</b>
<b>East of Miss. River.....</b>	<b>3.60</b>	<b>R 3.53</b>	<b>3.53</b>	<b>3.30</b>	<b>3.13</b>	<b>2.48</b>	<b>2.1</b>	<b>3.6</b>	<b>4.3</b>
<b>West of Miss. River.....</b>	<b>15.59</b>	<b>R 14.76</b>	<b>14.55</b>	<b>14.21</b>	<b>12.87</b>	<b>9.44</b>	<b>5.6</b>	<b>4.9</b>	<b>5.7</b>
<b>U.S. Total.....</b>	<b>6.00</b>	<b>R 5.63</b>	<b>5.48</b>	<b>5.16</b>	<b>4.88</b>	<b>3.47</b>	<b>6.6</b>	<b>5.3</b>	<b>6.3</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

R Revised Data.

Notes: Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair, shop or yard work at mining operations, including office workers for 1998 forward. For 1997 and prior years, includes mining operations management and all technical and engineering personnel, excluding office workers. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table B7. Coal Consumption by Census Division and State, 1990, 1995-1999**  
(Thousand Metric Tons)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England</b> .....	<b>1,786</b>	R <b>4,899</b>	R <b>7,228</b>	<b>6,372</b>	<b>6,043</b>	<b>6,143</b>	<b>-63.5</b>	<b>-26.3</b>	<b>-12.8</b>
Connecticut.....	5	541	966	845	822	881	-99.1	-72.6	-44.2
Maine.....	108	128	176	212	256	240	-15.5	-19.3	-8.5
Massachusetts.....	451	2,893	4,437	4,062	3,732	3,934	-84.4	-41.0	-21.4
New Hampshire.....	1,219	1,333	1,547	1,249	1,229	1,076	-8.5	-2	1.4
Rhode Island.....	1	2	3	3	2	5	-25.6	-12.2	-12.3
Vermont.....	2	R 2	R 99	2	3	7	-4.0	-9.5	-14.9
<b>Middle Atlantic</b> .....	<b>50,209</b>	R <b>62,877</b>	R <b>66,519</b>	<b>64,378</b>	<b>62,108</b>	<b>66,961</b>	<b>-20.1</b>	<b>-5.2</b>	<b>-3.1</b>
New Jersey.....	2,355	2,152	2,601	2,179	1,881	2,747	9.4	5.8	-1.7
New York.....	6,655	R 11,280	R 10,691	10,284	10,036	12,215	-41.0	-9.8	-6.5
Pennsylvania.....	41,198	R 49,445	R 53,228	R 51,915	50,191	51,999	-16.7	-4.8	-2.5
<b>East North Central</b> .....	<b>208,072</b>	R <b>212,336</b>	R <b>212,175</b>	R <b>207,776</b>	<b>197,496</b>	<b>190,163</b>	<b>-2.0</b>	<b>1.3</b>	<b>1.0</b>
Illinois.....	38,256	R 40,517	R 43,216	40,307	35,946	30,757	-5.6	1.6	2.4
Indiana.....	60,016	R 60,146	R 59,921	58,079	56,818	55,974	-2	1.4	.8
Michigan.....	34,721	R 34,495	R 32,556	R 33,319	32,479	31,491	.6	1.7	1.1
Ohio.....	52,163	R 54,754	R 53,362	54,281	51,328	53,710	-4.7	.4	-3
Wisconsin.....	22,916	R 22,424	R 23,121	21,790	20,925	18,231	2.2	2.3	2.6
<b>West North Central</b> .....	<b>131,620</b>	R <b>131,226</b>	R <b>125,467</b>	R <b>124,358</b>	<b>118,867</b>	<b>105,477</b>	<b>.3</b>	<b>2.6</b>	<b>2.5</b>
Iowa.....	21,282	R 20,995	R 19,660	R 19,205	18,721	16,265	1.4	3.3	3.0
Kansas.....	17,240	R 16,090	16,033	17,313	14,987	13,766	7.1	3.6	2.5
Minnesota.....	17,313	R 18,106	R 17,315	R 17,874	17,189	16,672	-4.4	.2	.4
Missouri.....	34,452	R 34,971	R 33,439	31,191	28,806	23,438	-1.5	4.6	4.4
Nebraska.....	10,546	R 10,786	10,170	9,415	9,431	7,499	-2.2	2.8	3.9
North Dakota.....	28,383	28,178	26,635	27,679	27,431	25,505	.7	.8	1.2
South Dakota.....	2,404	2,101	2,215	1,680	2,302	2,332	14.4	1.1	.3
<b>South Atlantic</b> .....	<b>157,263</b>	R <b>157,386</b>	R <b>154,816</b>	R <b>150,181</b>	<b>140,849</b>	<b>135,583</b>	<b>-.1</b>	<b>2.8</b>	<b>1.7</b>
Delaware.....	1,264	1,609	1,692	1,775	1,825	2,080	-21.4	-8.8	-5.4
District of Columbia.....	5	6	36	21	5	63	-2.6	1.3	-23.8
Florida.....	24,754	26,151	26,054	25,803	24,064	22,891	-5.3	.7	.9
Georgia.....	30,385	R 29,684	R 29,659	R 28,266	28,384	27,276	2.4	1.7	1.2
Maryland.....	10,683	R 10,695	R 10,196	R 10,312	10,159	10,154	-1	1.3	.6
North Carolina.....	25,773	26,233	R 26,812	25,060	21,849	19,187	-1.8	4.2	3.3
South Carolina.....	14,303	R 13,289	R 12,799	12,566	11,139	10,385	7.6	6.4	3.6
Virginia.....	14,336	R 14,385	R 13,856	13,592	12,136	11,888	-3	4.3	2.1
West Virginia.....	35,760	R 35,334	R 33,711	32,785	31,288	31,658	1.2	3.4	1.4
<b>East South Central</b> .....	<b>98,355</b>	R <b>97,802</b>	R <b>102,491</b>	R <b>100,198</b>	<b>96,008</b>	<b>82,668</b>	<b>.6</b>	<b>.6</b>	<b>1.9</b>
Alabama.....	34,562	R 32,956	R 33,209	R 33,613	31,124	25,074	4.9	2.6	3.6
Kentucky.....	34,015	R 35,197	R 38,001	37,069	35,849	31,251	-3.3	-1.3	.9
Mississippi.....	5,631	5,350	5,691	5,254	4,178	3,773	5.2	7.7	4.5
Tennessee.....	24,147	R 24,300	R 25,590	24,262	24,856	22,569	-6	-7	.8
<b>West South Central</b> .....	<b>136,515</b>	R <b>133,477</b>	R <b>136,417</b>	R <b>132,877</b>	<b>126,195</b>	<b>119,275</b>	<b>2.3</b>	<b>2.0</b>	<b>1.5</b>
Arkansas.....	13,879	R 13,212	R 12,763	R 13,440	12,284	10,970	5.0	3.1	2.6
Louisiana.....	12,656	R 12,601	R 12,586	11,371	12,118	11,383	.4	1.1	1.2
Oklahoma.....	17,304	R 17,764	R 19,167	18,257	17,777	13,992	-2.6	-7	2.4
Texas.....	92,675	R 89,900	R 91,901	R 89,809	84,017	82,931	3.1	2.5	1.2
<b>Mountain</b> .....	<b>106,127</b>	R <b>107,359</b>	R <b>101,134</b>	R <b>97,275</b>	<b>97,906</b>	<b>97,212</b>	<b>-1.1</b>	<b>2.0</b>	<b>1.0</b>
Arizona.....	17,881	R 17,249	R 16,515	15,234	15,134	14,895	3.7	4.3	2.0
Colorado.....	16,543	R 16,394	R 16,246	15,624	15,395	15,159	.9	1.8	1.0
Idaho.....	391	434	327	360	421	498	-10.0	-1.9	-2.7
Montana.....	9,407	R 9,776	R 8,594	7,286	9,076	8,778	-3.8	.9	.8
Nevada.....	7,318	R 7,453	R 6,756	6,898	6,659	6,751	-1.8	2.4	.9
New Mexico.....	14,790	R 14,482	R 14,412	13,877	13,809	13,709	2.1	1.7	.8
Utah.....	14,688	R 15,470	R 14,610	13,823	13,886	14,277	-5.0	1.4	.3
Wyoming.....	25,110	R 26,102	R 23,674	R 24,173	23,526	23,145	-3.8	1.6	.9
<b>Pacific</b> .....	<b>9,840</b>	R <b>10,120</b>	R <b>8,687</b>	R <b>9,328</b>	<b>8,081</b>	<b>8,884</b>	<b>-2.8</b>	<b>5.0</b>	<b>1.1</b>
Alaska.....	629	629	670	640	740	711	.1	-3.9	-1.3
California.....	1,872	R 1,815	2,545	R 2,351	2,375	2,630	3.2	-5.8	-3.7
Hawaii.....	106	R 132	151	154	174	25	-19.7	-11.6	17.3
Oregon.....	1,954	1,882	832	1,029	1,020	848	3.8	17.6	9.7
Washington.....	5,278	5,662	4,489	5,155	3,772	4,669	-6.8	8.8	1.4
<b>Other Power Producers</b> .....	<b>47,802</b>	<b>24,440</b>	<b>19,598</b>	R <b>20,162</b>	<b>19,194</b>	<b>6,725</b>	<b>95.6</b>	<b>25.6</b>	<b>24.3</b>
<b>U.S. Total</b> .....	<b>947,589</b>	R <b>941,923</b>	R <b>934,532</b>	R <b>912,906</b>	<b>872,747</b>	<b>819,091</b>	<b>0.6</b>	<b>2.1</b>	<b>1.6</b>

<sup>R</sup> Revised Data.

Note: Totals may not equal sum of components due to independent rounding.

Sources: Energy Information Administration, Form EIA-759, "Monthly Power Plant Report"; Form EIA-3, "Quarterly Coal Consumption Report - Manufacturing Plants"; Form EIA-5, "Coke Plant Report - Quarterly"; and Form EIA-6A, "Coal Distribution Report"; Form EIA-867, "Annual Non-utility Power Producer Report" for 1997 and prior years; and for 1998 forward, Form EIA-860B, "Annual Electric Generation Report - Non-utility."



**Table B8. Year-End Consumer Coal Stocks by Census Division and State, 1990, 1995-1999**  
(Thousand Metric Tons)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England Total</b> .....	<b>308</b>	<b>603</b>	<b>740</b>	<b>1,176</b>	<b>879</b>	<b>1,039</b>	<b>-48.8</b>	<b>-23.0</b>	<b>-12.6</b>
Connecticut.....	-	122	60	157	149	127	-	-	-
Maine.....	w	71	47	46	43	27	w	w	w
Massachusetts.....	w	159	363	647	397	544	w	w	w
New Hampshire.....	w	252	271	326	290	316	w	w	w
Rhode Island.....	-	-	-	-	-	25	-	-	-
<b>Middle Atlantic Total</b> .....	<b>4,847</b>	<b>10,189</b>	<b>9,413</b>	<b>9,884</b>	<b>11,253</b>	<b>17,033</b>	<b>-52.4</b>	<b>-19.0</b>	<b>-13.0</b>
New Jersey.....	w	602	514	748	731	686	w	w	w
New York.....	w	1,370	1,044	1,100	1,176	2,353	w	w	w
Pennsylvania.....	w	8,217	7,855	8,035	9,346	13,994	w	w	w
<b>East North Central Total</b> .....	<b>32,449</b>	<b>33,392</b>	<b>27,936</b>	<b>27,955</b>	<b>30,679</b>	<b>41,196</b>	<b>-2.8</b>	<b>1.4</b>	<b>-2.6</b>
Illinois.....	w	6,555	4,856	4,680	5,403	7,518	w	w	w
Indiana.....	w	8,154	6,026	7,217	8,435	11,091	w	w	w
Michigan.....	w	8,573	7,301	7,089	8,139	9,448	w	w	w
Ohio.....	w	5,602	5,737	4,924	5,385	9,499	w	w	w
Wisconsin.....	w	4,508	4,016	4,045	3,317	3,640	w	w	w
<b>West North Central Total</b> .....	<b>20,262</b>	<b>17,263</b>	<b>13,456</b>	<b>16,626</b>	<b>16,976</b>	<b>18,579</b>	<b>17.4</b>	<b>4.5</b>	<b>1.0</b>
Iowa.....	w	3,865	2,671	4,184	4,034	4,463	w	w	w
Kansas.....	w	2,891	2,085	2,707	3,501	3,395	w	w	w
Minnesota.....	w	2,172	1,809	1,577	1,800	2,119	w	w	w
Missouri.....	w	4,680	3,494	4,824	4,335	4,183	w	w	w
Nebraska.....	w	1,913	1,472	1,567	1,307	1,474	w	w	w
North Dakota.....	w	1,533	1,705	1,622	1,807	2,666	w	w	w
South Dakota.....	w	209	221	145	191	279	w	w	w
<b>South Atlantic Total</b> .....	<b>21,492</b>	<b>19,808</b>	<b>15,431</b>	<b>17,760</b>	<b>17,878</b>	<b>26,691</b>	<b>8.5</b>	<b>4.7</b>	<b>-2.4</b>
Delaware.....	w	w	w	w	w	w	w	w	w
Florida.....	w	4,218	3,182	3,119	2,965	4,511	w	w	w
Georgia.....	w	3,235	2,184	3,491	3,435	5,175	w	w	w
Maryland.....	w	1,068	1,092	1,249	963	2,053	w	w	w
North Carolina.....	w	3,402	1,836	2,423	2,590	4,227	w	w	w
South Carolina.....	w	2,488	1,833	1,975	1,990	2,101	w	w	w
Virginia.....	w	1,352	1,180	1,037	1,157	1,766	w	w	w
West Virginia.....	w	3,617	3,830	4,164	4,448	6,481	w	w	w
<b>East South Central Total</b> .....	<b>11,771</b>	<b>10,569</b>	<b>9,151</b>	<b>8,443</b>	<b>9,925</b>	<b>15,283</b>	<b>11.4</b>	<b>4.3</b>	<b>-2.8</b>
Alabama.....	w	3,245	2,696	2,593	3,310	3,966	w	w	w
Kentucky.....	w	4,437	4,230	3,921	4,240	7,113	w	w	w
Mississippi.....	w	758	569	568	666	729	w	w	w
Tennessee.....	w	2,129	1,657	1,361	1,709	3,475	w	w	w
<b>West South Central Total</b> .....	<b>19,928</b>	<b>13,381</b>	<b>10,291</b>	<b>18,040</b>	<b>18,656</b>	<b>15,040</b>	<b>48.9</b>	<b>1.7</b>	<b>3.2</b>
Arkansas.....	w	1,020	865	2,467	2,558	1,574	w	w	w
Louisiana.....	w	1,979	1,141	2,250	2,422	2,271	w	w	w
Oklahoma.....	w	3,119	2,352	3,819	3,852	2,469	w	w	w
Texas.....	w	7,263	5,933	9,504	9,824	8,726	w	w	w
<b>Mountain Total</b> .....	<b>11,076</b>	<b>9,801</b>	<b>9,052</b>	<b>10,525</b>	<b>13,551</b>	<b>15,714</b>	<b>13.0</b>	<b>-4.9</b>	<b>-3.8</b>
Arizona.....	w	1,746	1,283	1,836	2,751	2,839	w	w	w
Colorado.....	w	2,597	2,246	2,771	3,340	3,025	w	w	w
Idaho.....	w	114	96	70	107	127	w	w	w
Montana.....	w	312	381	472	471	744	w	w	w
Nevada.....	w	806	741	1,129	1,235	1,119	w	w	w
New Mexico.....	w	719	723	742	879	1,396	w	w	w
Utah.....	w	2,309	2,172	1,449	2,104	3,477	w	w	w
Wyoming.....	w	1,198	1,411	2,057	2,664	2,987	w	w	w
<b>Pacific Total</b> .....	<b>1,247</b>	<b>1,180</b>	<b>1,055</b>	<b>1,156</b>	<b>2,346</b>	<b>2,024</b>	<b>5.6</b>	<b>-14.6</b>	<b>-5.2</b>
Alaska.....	w	-	*	1	1	2	w	w	w
California.....	w	171	107	136	121	110	w	w	w
Hawaii.....	w	38	61	41	46	22	w	w	w
Oregon.....	w	178	87	201	392	639	w	w	w
Washington.....	w	794	800	777	1,786	1,250	w	w	w
<b>U.S. Total</b> .....	<b>123,382</b>	<b>116,185</b>	<b>96,526</b>	<b>111,564</b>	<b>122,142</b>	<b>152,598</b>	<b>6.2</b>	<b>.3</b>	<b>-2.3</b>

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

Notes: Totals may not equal sum of components due to independent rounding. Stocks for Residential and Commercial Sector are not included.

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

**Table B9. U.S. Coal Exports by Destination, 1990, 1995-1999**

(Thousand Metric Tons)

Continent and Country of Destination	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>19,272</b>	<b>20,245</b>	<b>15,374</b>	<b>12,346</b>	<b>9,444</b>	<b>14,387</b>	<b>-4.8</b>	<b>19.5</b>	<b>3.3</b>
Canada <sup>1</sup> .....	17,986	18,737	13,586	10,912	8,552	14,071	-4.0	20.4	2.8
Mexico.....	1,280	1,399	1,722	1,369	790	191	-8.6	12.8	23.5
Other <sup>2</sup> .....	7	108	66	66	102	125	-93.8	-49.3	-27.7
<b>South America Total</b> .....	<b>4,101</b>	<b>6,381</b>	<b>7,452</b>	<b>6,808</b>	<b>6,321</b>	<b>6,262</b>	<b>-35.7</b>	<b>-10.3</b>	<b>-4.6</b>
Brazil.....	4,030	5,874	6,763	5,933	5,761	5,304	-31.4	-8.5	-3.0
Other <sup>2</sup> .....	71	507	689	875	560	957	-86.0	-40.3	-25.1
<b>Europe Total</b> .....	<b>20,419</b>	<b>30,638</b>	<b>37,495</b>	<b>42,813</b>	<b>44,107</b>	<b>52,964</b>	<b>-33.3</b>	<b>-17.5</b>	<b>-10.0</b>
Belgium & Luxembourg.....	1,880	2,898	3,918	4,145	4,084	7,711	-35.1	-17.6	-14.5
Bulgaria.....	474	898	1,011	1,258	1,214	80	-47.2	-21.0	21.9
Finland.....	211	420	600	638	1,187	86	-49.6	-35.0	10.4
France.....	2,288	2,895	3,083	3,495	3,319	6,241	-21.0	-8.9	-10.5
Germany, FR.....	520	1,131	789	957	1,772	959	-54.0	-26.4	-6.6
Iceland.....	46	35	49	56	36	42	31.3	6.9	1.0
Ireland.....	787	1,043	578	694	829	1,322	-24.5	-1.3	-5.6
Italy.....	3,641	4,824	6,368	8,350	8,222	10,838	-24.5	-18.4	-11.4
Netherlands.....	3,113	4,097	4,377	6,403	6,624	7,592	-24.0	-17.2	-9.4
Norway.....	78	85	87	77	109	161	-7.4	-7.9	-7.7
Portugal.....	676	677	1,334	1,635	1,590	1,620	-.1	-19.3	-9.3
Romania.....	292	995	2,035	1,372	1,800	1,559	-70.7	-36.5	-17.0
Spain.....	2,242	2,863	3,750	3,713	4,221	3,439	-21.7	-14.6	-4.6
Sweden.....	579	686	756	970	1,014	785	-15.6	-13.1	-3.3
Turkey.....	721	1,444	1,898	1,966	1,825	1,921	-50.1	-20.7	-10.3
United Kingdom.....	2,869	5,395	6,518	5,621	4,288	4,697	-46.8	-9.5	-5.3
Other <sup>2</sup> .....	1	251	344	1,462	1,976	3,910	-99.6	-85.1	-60.2
<b>Asia Total</b> .....	<b>8,307</b>	<b>11,168</b>	<b>13,152</b>	<b>16,311</b>	<b>17,323</b>	<b>20,616</b>	<b>-25.6</b>	<b>-16.8</b>	<b>-9.6</b>
China (Taiwan).....	1,102	1,378	2,033	2,215	2,298	4,177	-20.0	-16.8	-13.8
Israel.....	547	478	538	1,090	690	580	14.3	-5.6	-6
Japan.....	4,494	7,017	7,234	9,551	10,693	12,100	-35.9	-19.5	-10.4
Korea, Republic of.....	2,145	2,225	3,165	3,423	3,640	3,628	-3.6	-12.4	-5.7
Other <sup>2</sup> .....	19	70	182	32	2	132	-72.9	73.7	-19.3
<b>Oceania &amp; Australia Total</b> .....	<b>*</b>	<b>4</b>	<b>1</b>	<b>1</b>	<b>*</b>	<b>2</b>	<b>-98.3</b>	<b>-22.1</b>	<b>-32.1</b>
Other <sup>2</sup> .....	*	4	1	1	*	2	-98.3	-22.1	-32.1
<b>Africa Total</b> .....	<b>949</b>	<b>2,366</b>	<b>2,317</b>	<b>3,796</b>	<b>3,133</b>	<b>1,753</b>	<b>-59.9</b>	<b>-25.8</b>	<b>-6.6</b>
Algeria.....	288	311	240	160	200	435	-7.6	9.6	-4.5
Egypt.....	236	808	1,025	941	1,120	586	-70.8	-32.3	-9.6
South Africa, Rep of.....	425	1,178	895	1,197	713	50	-63.9	-12.1	26.8
Other <sup>2</sup> .....	*	69	157	1,497	1,099	682	-99.9	-91.1	-64.0
<b>Total</b> .....	<b>53,048</b>	<b>70,804</b>	<b>75,791</b>	<b>82,075</b>	<b>80,329</b>	<b>95,984</b>	<b>-25.1</b>	<b>-9.8</b>	<b>-6.4</b>

<sup>1</sup> 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.

<sup>2</sup> Includes countries with exports less than or equal to 50,000 short tons (45,359 metric tons) in 1999.

\* Data round to zero.

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

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

**Table B10. Average Price of Coal by State, 1990, 1995-1999**  
(Nominal Dollars per Metric Ton)

Coal-Producing State and Region	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
Alabama	\$38.90	\$41.04	\$42.41	\$43.52	\$42.38	\$47.44	-5.2	-2.1	-2.2
Alaska	w	w	w	w	w	w	w	w	w
Arizona	w	w	w	w	w	w	w	w	w
Arkansas	w	w	w	-	w	w	w	w	w
California	-	-	-	-	-	w	-	-	-
Colorado	\$19.00	\$19.07	\$20.35	\$19.77	\$21.23	\$23.98	-4	-2.7	-2.5
Illinois	25.24	25.20	23.63	25.07	25.41	30.56	.2	-.2	-2.1
Indiana	22.04	21.69	21.62	22.31	23.93	26.36	1.6	-2.0	-2.0
Iowa	-	-	-	w	w	w	-	-	-
Kansas	w	w	w	w	w	w	w	w	w
Kentucky Total	\$25.91	\$26.25	\$26.14	\$26.36	\$27.33	\$27.77	-1.3	-1.3	-.8
Eastern	26.61	27.10	27.17	27.54	28.66	28.49	-1.8	-1.8	-.8
Western	23.31	23.16	22.59	22.47	22.88	25.71	.7	.5	-1.1
Louisiana	w	w	w	w	w	w	w	w	w
Maryland	\$25.65	\$26.84	\$25.63	\$26.90	\$27.22	\$28.63	-4.4	-1.5	-1.2
Mississippi	w	-	-	-	-	-	-	-	-
Missouri	w	22.91	18.60	25.70	20.84	w	w	w	w
Montana	\$9.72	9.10	10.85	10.98	10.61	\$10.38	6.8	-2.2	-.7
New Mexico	23.12	22.79	24.06	27.18	26.24	24.72	1.4	-3.1	-.7
North Dakota	8.83	8.83	8.89	8.83	8.81	8.46	*	*	.5
Ohio	31.06	30.37	26.08	27.39	28.62	31.58	2.3	2.1	-.2
Oklahoma	29.43	28.68	29.02	29.25	26.60	33.50	2.6	2.5	-1.4
Pennsylvania Total	26.61	28.43	28.64	28.42	29.52	33.24	-6.4	-2.6	-2.4
Anthracite	38.72	47.30	38.71	40.54	43.85	43.43	-18.1	-3.1	-1.3
Bituminous	25.83	27.18	28.01	27.54	28.41	32.76	-5.0	-2.3	-2.6
Tennessee	32.23	31.63	29.80	30.63	29.70	30.82	1.9	2.1	.5
Texas	13.74	13.74	13.40	13.41	13.41	12.34	*	.6	1.2
Utah	19.10	20.35	19.41	23.85	21.06	20.43	-6.2	-2.4	-.7
Virginia	29.00	31.62	31.13	31.36	31.38	30.92	-8.3	-1.9	-.7
Washington	w	w	w	w	w	w	w	w	w
West Virginia Total	\$28.18	\$29.84	\$29.37	\$29.30	\$29.96	\$31.54	-5.6	-1.5	-1.2
Northern	25.33	28.24	28.51	27.41	27.46	32.03	-10.3	-2.0	-2.6
Southern	29.09	30.39	29.65	30.00	30.94	31.30	-4.3	-1.5	-.8
Wyoming	5.93	5.97	6.62	7.06	7.25	9.29	-.7	-4.9	-4.9
<b>Appalachian Total<sup>1</sup></b>	<b>28.20</b>	<b>29.58</b>	<b>29.26</b>	<b>29.52</b>	<b>30.25</b>	<b>31.84</b>	<b>-4.7</b>	<b>-1.7</b>	<b>-1.3</b>
<b>Interior Total<sup>1</sup></b>	<b>20.42</b>	<b>20.34</b>	<b>19.75</b>	<b>20.29</b>	<b>20.73</b>	<b>23.64</b>	<b>.4</b>	<b>-.4</b>	<b>-1.6</b>
<b>Western Total<sup>1</sup></b>	<b>9.46</b>	<b>9.66</b>	<b>10.50</b>	<b>11.06</b>	<b>11.19</b>	<b>12.79</b>	<b>-2.0</b>	<b>-4.1</b>	<b>-3.3</b>
<b>East of Miss. River</b>	<b>27.31</b>	<b>28.41</b>	<b>27.99</b>	<b>28.33</b>	<b>29.04</b>	<b>30.97</b>	<b>-3.9</b>	<b>-1.5</b>	<b>-1.4</b>
<b>West of Miss. River</b>	<b>10.00</b>	<b>10.19</b>	<b>10.93</b>	<b>11.46</b>	<b>11.56</b>	<b>13.01</b>	<b>-1.9</b>	<b>-3.5</b>	<b>-2.9</b>
<b>U.S. Total</b>	<b>18.33</b>	<b>19.47</b>	<b>19.99</b>	<b>20.39</b>	<b>20.76</b>	<b>23.99</b>	<b>-5.8</b>	<b>-3.0</b>	<b>-2.9</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

Notes: Average mine price is calculated by dividing the total free on board (f.o.b.) mine value of the coal produced by the total production for 1997 and prior years. For 1998 and forward, average mine price is calculated by dividing the total free on board (f.o.b.) rail/barge value of the coal sold by the total coal sold. A measure of dispersion of the 1999 average prices at the State level (interquartile range) is given in Appendix D, Table D1. Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons, which are not required to provide data.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; State Mining Agency Coal Production Reports; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

**Table B11. Average Price of Coal Delivered to Electric Utilities by Census Division and State, 1990, 1995-1999**  
(Nominal Dollars per Metric Ton)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England Total</b> .....	<b>\$45.43</b>	<b>\$47.33</b>	<b>\$48.14</b>	<b>\$48.01</b>	<b>\$47.78</b>	<b>\$52.23</b>	<b>-4.0</b>	<b>-1.2</b>	<b>-1.5</b>
Connecticut.....	50.54	52.46	55.14	55.17	54.37	62.11	-3.6	-1.8	-2.3
Massachusetts.....	50.30	46.63	47.09	47.00	47.00	49.93	7.9	1.7	.1
New Hampshire.....	43.86	46.68	46.98	46.55	45.93	52.24	-6.0	-1.1	-1.9
<b>Middle Atlantic Total</b> .....	<b>36.91</b>	<b>37.84</b>	<b>37.91</b>	<b>38.67</b>	<b>38.17</b>	<b>42.50</b>	<b>-2.5</b>	<b>-.8</b>	<b>-1.5</b>
New Jersey .....	42.14	45.98	50.65	50.18	52.00	53.32	-8.3	-5.1	-2.6
New York.....	41.64	41.27	41.14	40.95	40.63	45.69	.9	.6	-1.0
Pennsylvania.....	35.94	36.69	36.69	37.55	36.91	41.06	-2.0	-.7	-1.5
<b>East North Central Total</b> .....	<b>29.32</b>	<b>30.33</b>	<b>30.52</b>	<b>31.18</b>	<b>32.70</b>	<b>36.56</b>	<b>-3.3</b>	<b>-2.7</b>	<b>-2.4</b>
Illinois.....	30.28	33.31	33.52	35.43	35.91	41.66	-9.1	-4.2	-3.5
Indiana.....	26.00	26.04	26.84	27.20	28.59	31.72	-.2	-2.3	-2.2
Michigan.....	30.20	31.07	31.89	32.34	34.12	39.24	-2.8	-3.0	-2.9
Ohio.....	35.79	35.84	34.62	35.61	37.96	39.70	-.1	-1.4	-1.1
Wisconsin.....	20.57	22.01	22.52	21.55	23.40	28.86	-6.6	-3.2	-3.7
<b>West North Central Total</b> .....	<b>16.07</b>	<b>16.44</b>	<b>16.96</b>	<b>17.12</b>	<b>17.75</b>	<b>21.68</b>	<b>-2.3</b>	<b>-2.5</b>	<b>-3.3</b>
Iowa.....	15.54	16.67	17.89	17.96	18.88	21.92	-6.8	-4.8	-3.8
Kansas.....	18.15	18.81	19.74	19.30	19.66	24.51	-3.5	-2.0	-3.3
Minnesota.....	21.46	20.94	21.47	20.94	22.18	24.26	2.4	-.8	-1.3
Missouri.....	18.26	18.07	18.52	19.08	20.00	30.90	1.0	-2.2	-5.7
Nebraska.....	10.39	11.10	11.09	13.64	14.18	14.20	-6.4	-7.5	-3.4
North Dakota.....	10.54	11.03	11.25	10.71	10.64	10.03	-4.4	-.2	.5
South Dakota.....	17.81	17.84	17.62	18.67	15.82	15.40	-.1	3.0	1.6
<b>South Atlantic Total</b> .....	<b>38.41</b>	<b>39.22</b>	<b>40.05</b>	<b>40.43</b>	<b>42.17</b>	<b>46.15</b>	<b>-2.1</b>	<b>-2.3</b>	<b>-2.0</b>
Delaware.....	45.33	44.66	45.25	45.76	46.60	52.15	1.5	-.7	-1.5
Florida.....	43.07	44.12	46.10	46.74	48.42	50.39	-2.4	-2.9	-1.7
Georgia.....	40.00	40.03	41.09	40.28	42.57	46.83	-.1	-1.5	-1.7
Maryland.....	39.35	41.48	42.71	42.43	42.99	46.25	-5.1	-2.2	-1.8
North Carolina.....	39.46	39.31	38.97	40.65	44.72	49.21	.4	-3.1	-2.4
South Carolina.....	40.00	40.84	41.02	41.38	42.83	48.00	-2.1	-1.7	-2.0
Virginia.....	37.60	38.29	38.56	39.38	40.68	43.31	-1.8	-1.9	-1.5
West Virginia.....	32.21	33.14	33.82	34.09	34.84	40.41	-2.8	-1.9	-2.5
<b>East South Central Total</b> .....	<b>30.90</b>	<b>32.07</b>	<b>31.64</b>	<b>32.35</b>	<b>33.16</b>	<b>37.46</b>	<b>-3.7</b>	<b>-1.8</b>	<b>-2.1</b>
Alabama.....	35.67	39.99	39.22	40.11	40.78	49.14	-10.8	-3.3	-3.5
Kentucky.....	27.03	27.03	26.68	26.93	28.34	30.41	*	-1.2	-1.3
Mississippi.....	37.86	35.84	35.76	36.71	37.92	45.74	5.6	*	-2.1
Tennessee.....	29.02	29.10	29.40	30.46	30.80	35.41	-.3	-1.5	-2.2
<b>West South Central Total</b> .....	<b>20.79</b>	<b>21.31</b>	<b>21.70</b>	<b>22.19</b>	<b>22.78</b>	<b>25.26</b>	<b>-2.4</b>	<b>-2.3</b>	<b>-2.1</b>
Arkansas.....	27.77	28.14	31.48	28.83	30.85	31.05	-1.3	-2.6	-1.2
Louisiana.....	25.12	25.51	26.42	27.27	27.70	30.62	-1.5	-2.4	-2.2
Oklahoma.....	17.34	17.35	17.50	18.51	18.74	27.53	-.1	-1.9	-5.0
Texas.....	19.85	20.51	20.61	21.24	21.66	23.36	-3.2	-2.1	-1.8
<b>Mountain Total</b> .....	<b>22.81</b>	<b>22.96</b>	<b>23.72</b>	<b>24.05</b>	<b>23.71</b>	<b>24.46</b>	<b>-.6</b>	<b>-1.0</b>	<b>-.8</b>
Arizona.....	30.00	29.89	31.91	32.57	31.59	33.04	.3	-1.3	-1.1
Colorado.....	21.17	21.39	21.97	22.31	22.85	22.94	-1.0	-1.9	-.9
Montana.....	13.52	12.53	12.69	13.12	12.64	12.64	7.9	1.7	.7
Nevada.....	32.11	32.05	34.28	33.55	31.99	36.55	.2	.1	-1.4
New Mexico.....	26.76	26.15	26.71	28.71	28.21	26.49	2.3	-1.3	.1
Utah.....	26.41	28.63	27.80	27.18	27.85	29.54	-7.8	-1.3	-1.2
Wyoming.....	14.76	15.25	15.61	15.76	15.75	16.24	-3.2	-1.6	-1.0
<b>Pacific Total</b> .....	<b>26.20</b>	<b>25.43</b>	<b>27.77</b>	<b>26.42</b>	<b>25.16</b>	<b>26.91</b>	<b>3.0</b>	<b>1.0</b>	<b>-.3</b>
Oregon.....	21.32	20.85	21.99	20.73	20.72	19.86	2.2	.7	.8
Washington.....	28.28	26.94	28.82	27.46	26.17	28.27	5.0	1.9	*
<b>U.S. Total</b> .....	<b>27.25</b>	<b>28.26</b>	<b>28.83</b>	<b>29.16</b>	<b>29.77</b>	<b>33.57</b>	<b>-3.5</b>	<b>-2.2</b>	<b>-2.3</b>

\* Data round to zero.

Note: Average prices are based on the cost including insurance and freight.

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

**Table B12. Average Price of Coal Delivered to Other Industrial Plants by Census Division and State, 1990, 1995-1999**  
(Nominal Dollars per Metric Ton)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>New England Total</b>	w	w	w	\$63.22	\$62.72	\$71.77	w	w	w
Maine	w	w	w	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w	w	w	w
New Hampshire	-	-	-	-	w	w	-	-	-
<b>Middle Atlantic Total</b>	\$39.30	w	w	w	w	w	w	w	w
New Jersey	w	w	w	w	w	w	w	w	w
New York	w	w	w	\$44.21	\$46.19	\$48.57	w	w	w
Pennsylvania	\$37.08	\$37.84	\$37.69	37.30	37.56	40.36	-2.0	-0.3	-0.9
<b>East North Central Total</b>	\$36.76	\$36.62	\$36.96	\$37.96	\$38.45	\$39.86	.4	-1.1	-0.9
Illinois	32.65	32.47	32.80	32.72	32.00	34.48	.5	.5	-0.6
Indiana	33.44	33.30	32.80	35.01	36.53	36.19	.4	-2.2	-0.9
Michigan	44.15	44.54	46.23	45.50	45.39	47.83	-2.9	-0.7	-0.9
Ohio	37.96	36.94	37.53	38.89	38.78	38.62	2.8	-0.5	-0.2
Wisconsin	42.98	44.55	44.12	44.12	44.32	47.85	-3.5	-0.8	-1.2
<b>West North Central Total</b>	\$20.71	\$20.64	\$20.97	\$21.00	\$20.86	\$20.29	.3	-0.2	.2
Iowa	31.10	31.08	31.88	32.32	32.23	33.36	.1	-0.9	-0.8
Kansas	36.39	34.26	35.20	35.78	35.74	31.63	6.2	.4	1.6
Minnesota	34.19	32.74	34.21	31.80	37.92	40.38	4.4	-2.5	-1.8
Missouri	32.92	33.60	33.14	34.58	36.17	33.27	-2.0	-2.3	-0.1
Nebraska	w	w	w	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w	w	w	w
South Dakota	\$28.34	\$26.45	\$25.74	\$27.45	\$24.48	\$17.86	7.1	3.7	5.3
<b>South Atlantic Total</b>	w	w	w	w	w	w	w	w	w
Delaware	w	w	w	w	w	w	w	w	w
Florida	\$46.98	\$49.18	\$49.75	\$50.36	\$51.41	\$52.06	-4.5	-2.2	-1.1
Georgia	48.64	49.10	49.42	48.73	49.21	49.49	-0.9	-0.3	-0.2
Maryland	35.28	35.72	35.95	35.85	34.90	31.64	-1.2	.3	1.2
North Carolina	45.95	47.09	47.55	47.80	47.72	49.45	-2.4	-0.9	-0.8
South Carolina	48.64	48.53	48.75	48.59	47.58	48.27	.2	.5	.1
Virginia	47.33	48.07	48.33	47.96	46.85	45.25	-1.5	.3	.5
West Virginia	41.73	53.18	38.92	36.78	37.05	35.14	-21.5	3.0	1.9
<b>East South Central Total</b>	w	w	w	w	w	w	w	w	w
Alabama	\$43.88	\$43.53	\$44.31	\$44.26	\$43.58	\$44.73	.8	.2	-0.2
Kentucky	47.09	48.13	49.28	48.52	48.60	50.50	-2.1	-0.8	-0.8
Mississippi	w	w	w	w	w	w	w	w	w
Tennessee	\$38.87	\$40.37	\$40.05	\$38.82	\$39.33	\$38.76	-3.7	-0.3	*
<b>West South Central Total</b>	\$25.21	\$25.26	\$24.71	\$24.02	\$24.29	\$23.46	-0.2	.9	.8
Arkansas	47.49	45.83	46.71	47.67	47.97	50.03	3.6	-0.3	-0.6
Louisiana	w	w	w	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w	w	w	w
Texas	\$23.15	\$23.20	\$22.19	\$20.93	\$20.68	\$18.51	-0.2	2.9	2.5
<b>Mountain Total</b>	w	w	\$29.91	\$29.44	\$29.83	\$31.69	w	w	w
Arizona	\$43.96	\$42.63	42.78	43.29	44.60	43.59	3.1	-0.4	.1
Colorado	26.45	26.18	27.70	25.54	28.78	29.68	1.0	-2.1	-1.3
Idaho	w	w	38.10	40.11	37.60	35.03	12.3	w	w
Montana	w	w	w	w	w	w	w	w	w
Nevada	w	w	w	w	w	w	w	w	w
New Mexico	w	w	w	w	w	w	w	w	w
Utah	\$23.73	\$21.00	\$21.25	\$21.06	\$21.76	\$31.40	13.0	2.2	-3.1
Wyoming	26.74	26.57	26.11	24.61	25.05	27.46	.6	1.6	-0.3
<b>Pacific Total</b>	\$45.28	\$47.53	\$47.67	\$46.79	\$48.15	\$50.66	-4.7	-1.5	-1.2
California	43.89	45.21	44.25	43.58	45.32	49.73	-2.9	-0.8	-1.4
Hawaii	w	w	w	w	w	w	w	w	w
Oregon	-	w	w	w	w	w	-	-	-
Washington	w	w	\$65.92	\$64.83	\$65.20	\$61.32	w	w	w
<b>U.S. Total</b>	\$34.83	\$35.61	\$35.72	\$35.63	\$35.74	\$37.03	-2.2	-0.6	-0.7

\* Data round to zero.

w Withheld to avoid disclosure of individual company data.

Notes: Price data are for manufacturing plants only. Average prices are based on the cost including insurance, freight, and taxes.

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

**Table B13. Average Price of Coal Delivered to Coke Plants by Census Division and State, 1990, 1995-1999**  
(Nominal Dollars per Metric Ton)

Census Division and State	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>Middle Atlantic Total</b> .....	<b>\$48.87</b>	<b>\$48.67</b>	w	w	w	w	<b>0.4</b>	w	w
New York.....	w	w	w	w	w	w	w	w	w
Pennsylvania.....	w	w	\$50.93	\$49.79	\$50.83	\$50.46	w	w	w
<b>East North Central Total</b> .....	<b>\$52.63</b>	<b>\$53.34</b>	<b>54.15</b>	<b>54.61</b>	<b>54.12</b>	<b>53.81</b>	<b>-1.3</b>	<b>-0.7</b>	<b>-0.2</b>
Illinois.....	w	w	w	w	w	w	w	w	w
Indiana.....	w	w	\$55.94	\$57.25	\$58.13	\$54.45	w	w	w
Michigan.....	w	w	w	w	w	w	w	w	w
Ohio.....	w	w	\$51.69	\$49.58	\$46.50	\$53.24	w	w	w
<b>South Atlantic Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Maryland.....	-	-	-	-	-	-	-	-	-
Virginia.....	w	w	w	w	w	w	w	w	w
West Virginia.....	w	w	w	w	w	w	w	w	w
<b>East South Central Total</b> .....	<b>\$49.91</b>	<b>\$51.18</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>-2.5</b>	<b>w</b>	<b>w</b>
Alabama.....	w	w	\$55.16	\$54.42	\$53.38	\$53.94	w	w	w
Kentucky.....	w	w	w	w	w	w	w	w	w
Tennessee.....	-	-	-	-	-	-	-	-	-
<b>Mountain Total</b> .....	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Utah.....	w	w	w	w	w	w	w	w	w
<b>U.S. Total</b> .....	<b>\$50.54</b>	<b>\$50.77</b>	<b>\$52.48</b>	<b>\$52.17</b>	<b>\$52.18</b>	<b>\$52.61</b>	<b>-4</b>	<b>-8</b>	<b>-4</b>

<sup>w</sup> Withheld to avoid disclosure of individual company data.  
 Note: Average prices are based on the cost including insurance, freight, and taxes.  
 Source: Energy Information Administration, Form EIA-5, "Coke Plant Report - Quarterly."

**Table B14. Average Price of U.S. Coal Imports by Continent and Country of Origin, 1990, 1995-1999**  
(Nominal Dollars per Metric Ton)

Continent and Country of Origin	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b> .....	<b>\$37.74</b>	<b>\$39.00</b>	<b>\$42.01</b>	<b>\$40.24</b>	<b>\$40.64</b>	<b>\$27.07</b>	<b>-3.2</b>	<b>-1.8</b>	<b>3.8</b>
Canada .....	38.61	39.02	42.01	40.26	40.72	26.95	-1.0	-1.3	4.1
Mexico .....	24.17	23.01	-	36.85	23.01	42.29	5.1	1.2	-6.0
<b>South America Total</b> .....	<b>33.05</b>	<b>34.35</b>	<b>35.81</b>	<b>34.76</b>	<b>35.70</b>	<b>41.43</b>	<b>-3.8</b>	<b>-1.9</b>	<b>-2.5</b>
Colombia .....	32.15	34.40	35.40	35.16	34.46	40.64	-6.5	-1.7	-2.6
Venezuela .....	35.27	34.27	36.66	34.03	38.25	45.75	2.9	-2.0	-2.8
<b>Europe Total</b> .....	<b>32.50</b>	<b>40.56</b>	<b>54.25</b>	<b>-</b>	<b>28.27</b>	<b>40.98</b>	<b>-19.9</b>	<b>3.5</b>	<b>-2.5</b>
Denmark .....	-	-	-	-	-	40.05	-	-	-100.0
Norway .....	-	-	54.51	-	-	-	-	-	-
Spain .....	-	40.21	-	-	-	-	-100.0	-	-
Switzerland .....	-	-	45.51	-	-	-	-	-	-
United Kingdom .....	32.50	46.33	-	-	28.27	41.00	-29.8	3.5	-2.5
<b>Asia Total</b> .....	<b>47.56</b>	<b>37.62</b>	<b>36.43</b>	<b>35.77</b>	<b>38.73</b>	<b>-</b>	<b>26.4</b>	<b>5.3</b>	<b>-</b>
China (Mainland) .....	47.02	-	-	-	-	-	-	-	-
Indonesia .....	47.57	37.62	36.18	35.77	38.73	-	26.4	5.3	-
Vietnam .....	-	-	54.11	-	-	-	-	-	-
<b>Oceania &amp; Australia Total</b> .....	<b>30.05</b>	<b>35.15</b>	<b>36.89</b>	<b>36.83</b>	<b>37.00</b>	<b>46.00</b>	<b>-14.5</b>	<b>-5.1</b>	<b>-4.6</b>
Australia .....	30.05	35.15	36.89	36.83	34.16	46.00	-14.5	-3.1	-4.6
New Zealand .....	-	-	-	-	51.17	-	-	-100.0	-
<b>Total</b> <sup>1</sup> .....	<b>34.72</b>	<b>35.48</b>	<b>36.93</b>	<b>36.02</b>	<b>37.03</b>	<b>36.86</b>	<b>-2.1</b>	<b>-1.6</b>	<b>-7</b>
<b>U.S. Total</b> <sup>2</sup> .....	<b>33.92</b>	<b>35.48</b>	<b>37.83</b>	<b>37.23</b>	<b>37.54</b>	<b>37.98</b>	<b>-4.4</b>	<b>-2.5</b>	<b>-1.2</b>

<sup>1</sup> 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 (\$18.14 to \$49.90 per metric ton), inclusively.

<sup>2</sup> U.S. Total is the average price of all coal imports.

Notes: Average price is based on the customs import value. Coal imports include coal to Puerto Rico and the Virgin Islands.

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

**Table B15. Average Price of U.S. Coal Exports by Destination, 1990, 1995-1999**  
(Nominal Dollars per Metric Ton)

Continent and Country of Destination	1999	1998	1997	1996	1995	1990	Percent Change 1998-1999	Average Annual Percent Change	
								1995-1999	1990-1999
<b>North America Total</b>	<b>\$31.68</b>	<b>\$31.40</b>	<b>\$33.70</b>	<b>\$36.48</b>	<b>\$37.53</b>	<b>\$36.10</b>	<b>0.9</b>	<b>-4.1</b>	<b>-1.4</b>
Canada <sup>1</sup>	30.53	30.48	32.15	35.53	36.92	36.01	.1	-4.6	-1.8
Mexico	47.55	42.56	45.53	43.77	44.05	42.02	11.7	1.9	1.4
Other <sup>2</sup>	39.85	41.20	41.97	41.92	37.80	37.68	-3.3	1.3	.6
<b>South America Total</b>	<b>43.33</b>	<b>47.20</b>	<b>48.44</b>	<b>48.29</b>	<b>47.90</b>	<b>51.04</b>	<b>-8.2</b>	<b>-2.5</b>	<b>-1.8</b>
Brazil	43.44	47.24	48.64	49.25	48.37	51.68	-8.0	-2.6	-1.9
Other <sup>2</sup>	36.00	46.70	46.45	39.78	43.05	47.45	-22.9	-4.4	-3.0
<b>Europe Total</b>	<b>45.30</b>	<b>47.71</b>	<b>47.42</b>	<b>46.41</b>	<b>45.10</b>	<b>48.70</b>	<b>-5.0</b>	<b>.1</b>	<b>- .8</b>
Belgium & Luxembourg	48.34	51.12	50.38	50.41	47.92	49.66	-5.4	.2	- .3
Bulgaria	45.89	49.13	51.17	48.79	48.54	54.28	-6.6	-1.4	-1.8
Finland	40.79	44.64	45.89	46.42	43.51	49.30	-8.6	-1.6	-2.1
France	47.08	50.78	50.66	49.53	48.19	47.40	-7.3	- .6	- .1
Germany, FR	34.88	39.12	49.15	45.28	38.57	47.19	-10.8	-2.5	-3.3
Iceland	59.86	61.60	65.40	63.38	61.78	53.18	-2.8	- .8	1.3
Ireland	32.99	40.10	41.88	41.17	39.76	43.05	-17.7	-4.5	-2.9
Italy	51.02	51.29	50.19	49.66	48.66	49.55	- .5	1.2	.3
Netherlands	44.02	49.89	49.57	45.59	46.26	47.32	-11.8	-1.2	- .8
Norway	60.07	61.51	64.35	62.89	62.19	59.54	-2.3	- .9	.1
Portugal	36.34	41.93	40.52	40.26	40.18	44.97	-13.3	-2.5	-2.3
Romania	43.28	46.64	49.14	51.76	46.77	52.80	-7.2	-1.9	-2.2
Spain	43.05	47.28	40.79	41.41	38.30	52.76	-8.9	3.0	-2.2
Sweden	49.89	51.98	53.13	52.36	53.14	53.35	-4.0	-1.6	- .7
Turkey	42.44	49.52	50.78	48.86	46.97	50.85	-14.3	-2.5	-2.0
United Kingdom	44.90	43.00	43.32	42.88	45.11	52.18	4.4	- .1	-1.6
Other <sup>2</sup>	44.11	37.51	35.03	33.24	32.66	41.14	17.6	7.8	.8
<b>Asia Total</b>	<b>40.05</b>	<b>43.40</b>	<b>43.79</b>	<b>43.62</b>	<b>43.10</b>	<b>47.81</b>	<b>-7.7</b>	<b>-1.8</b>	<b>-1.9</b>
China (Taiwan)	37.96	40.01	40.51	40.63	40.73	42.59	-5.1	-1.7	-1.3
Israel	35.06	36.93	40.58	40.12	39.45	43.45	-5.0	-2.9	-2.3
Japan	39.45	42.54	42.99	43.44	43.14	48.86	-7.3	-2.2	-2.3
Korea, Republic of	43.52	49.38	48.48	47.10	45.17	51.18	-11.9	- .9	-1.8
Other <sup>2</sup>	55.23	50.44	40.05	53.89	33.52	42.89	9.5	13.3	2.8
<b>Oceania &amp; Australia Total</b>	<b>-</b>	<b>52.95</b>	<b>44.93</b>	<b>44.89</b>	<b>43.82</b>	<b>38.28</b>	<b>-100.0</b>	<b>-100.0</b>	<b>-100.0</b>
Other <sup>2</sup>	-	52.95	44.93	44.89	43.82	38.28	-100.0	-100.0	-100.0
<b>Africa Total</b>	<b>53.49</b>	<b>50.17</b>	<b>53.46</b>	<b>48.90</b>	<b>47.47</b>	<b>45.59</b>	<b>6.6</b>	<b>3.0</b>	<b>1.8</b>
Algeria	47.15	48.25	51.41	55.37	52.69	53.37	-2.3	-2.7	-1.4
Egypt	61.98	48.05	56.54	58.83	54.42	51.85	29.0	3.3	2.0
South Africa, Rep of	53.08	53.05	53.64	54.61	52.23	55.35	*	.4	- .5
Other <sup>2</sup>	-	35.62	35.52	37.40	36.37	34.54	-100.0	-100.0	-100.0
<b>Total<sup>3</sup></b>	<b>39.58</b>	<b>42.49</b>	<b>44.36</b>	<b>44.67</b>	<b>44.13</b>	<b>46.76</b>	<b>-6.8</b>	<b>-2.7</b>	<b>-1.8</b>
<b>U.S. Total<sup>4</sup></b>	<b>40.24</b>	<b>42.87</b>	<b>44.70</b>	<b>44.93</b>	<b>44.39</b>	<b>46.99</b>	<b>-6.1</b>	<b>-2.4</b>	<b>-1.7</b>

<sup>1</sup> 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.

<sup>2</sup> Includes countries with exports less than or equal to 50,000 short tons in 1999.

<sup>3</sup> 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 (\$18.14 to \$54.43 per metric ton), inclusively.

<sup>4</sup> U.S. Total is the average price of all coal exports.

\* Data round to zero.

Note: Average price is based on the free alongside ship (f.a.s.) value.

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



## Appendix C

# References

**Figure C1. Coal-Bearing Areas of the United States**

# Coal-Producing Regions

## *Appalachian*

Alabama, Georgia, Eastern Kentucky, Maryland, Ohio, Pennsylvania, Tennessee, Virginia, West Virginia.

## *Interior*

Arkansas, Illinois, Indiana, Iowa, Kansas, Western Kentucky, Louisiana, Mississippi, Missouri, Oklahoma, Texas.

## *Western*

Alaska, Arizona, California, Colorado, Montana, New Mexico, North Dakota, Utah, Washington, Wyoming.

**Table C1. Classification of Coals by Rank**

# Coal Reports and Feature Articles

## Coal Reports

- *Weekly Coal Production*, DOE/EIA-0218 (2001-17).
- *Coal Data: A Reference*, DOE/EIA-0064 (93), February 1995.
- *State Coal Profiles*, DOE/EIA-0576, January 1994.
- *Quarterly Coal Report*, DOE/EIA-0121(2000/4Q).
- *The Changing Structure of the U.S. Coal Industry: An Update*, DOE/EIA-0513(93), July 1993.
- *U.S. Coal Reserves: A Review and Update* DOE/EIA-0529(95), August 1996.
- *Annual Energy Outlook 2001*, DOA/EIA-0383(2000), December 2000.
- *Energy Policy Transportation Rate Study: Final Report on Coal Transportation* DOE/EIA-0597, October 2000.
- *Electric Power Monthly*, DOE/EIA-0226(2001/03), April 2001.
- *Electric Power Annual*, DOE/EIA-0348(99), Vol. 2, February 2000.
- *Longwall Mining*, DOE/EIA-TR-0588 March 1995.
- *Monthly Energy Review*, DOE/EIA-0035(2001/05) May 2001.

- *Short-Term Energy Outlook: Quarterly Projections January 2001*, DOE/EIA-0202(2001/2Q), April 2001.
- *Cost and Quality of Fuels for Electric Utility Plants 1999*, DOE/EIA-0191(99), May 2000.

## Feature Articles

- "U.S. Coal Supply and Demand: 1999 Review," *Mining Engineering*, May 2000, Vol.52,No.5, May 2000, pp.49-56.
- "Carbon Dioxide Emission Factors for Coal," *Quarterly Coal Report*, DOE/EIA-0121 (94/1Q), August 1994.
- "Federal and Indian Coal Lands: A Growing Source of Energy and Revenue," *Coal Production 1992*, DOE/EIA-0118(92), October 1993.
- "Wyoming Coal: An Overview," *Coal Production 1991*, DOE/EIA-0118(91), October 1992.
- "Profile of New Coal Mines in the 1980's," *Coal Production 1990*, DOE/EIA-0118), September 1991.
- "The Comparability of Resource and Reserve Data for Crude Oil, Natural Gas, Coal, and Uranium," *Quarterly Coal Report October-December 1994*, DOE/EIA-0121 (94/4Q) May 1995.
- "Coal Geology, Reserves and Production in Northern and Central Appalachia," *Mining Engineering*, Special Edition, December 1995.

# Appendix D

## 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; supplemental export data which were collected by King's Publishing Corporation, Knoxville, Tennessee; Federal and Indian land leasing data which were collected by the U.S. Department of the Interior (Bureau of Land Management and Minerals Management Service); and miner injury and fatality data which were collected by the U.S. Department of Labor (Mine Safety and Health Administration).

### Coal Surveys

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 the Bureau of Mines in the 1920's, initially under the U.S. Department of Commerce and later under the U.S. Department of the Interior, which published the data in its *Minerals Yearbook*. Except for a brief period from 1937 to 1943, when bituminous coal data were collected under the mandatory authority of the Bituminous Coal Act, the Bureau of Mines continued to conduct voluntary coal surveys until the Department of Energy was created.

### Coal Production Report (Form EIA-7A)

The Energy Information Administration (EIA) began collecting annual coal production data on October 1, 1977. The 1998 coal production and identification data in this report were collected on Form EIA-7A, "Coal Production Report," and the U.S. Department of Labor's Mine Safety and Health Administration's Form 7000-2, "Quarterly Mine Employment and Coal Production Report" from companies that produced, processed or prepared coal in 1998. All other data collected on Form EIA-7A are reported for only those companies that owned a mining operation that produced, prepared or processed 10,000 short tons or more of coal in 1998 and preparation plants with 5,000 or more employee hours.

So that the EIA may fulfill its data collection functions as specified in the Federal Energy Administration Act of 1974 (Public Law 93-275), response to this survey is mandatory. EIA compares respondents to this survey with lists of mining operations maintained by various State coal mining/licensing agencies and the Mine Safety and Health Administration (MSHA), U.S. Department of Labor, to identify new respondents. No sampling procedures are used. In 1998, there were 1,773 mining operations that produced, processed, or prepared 10,000 or more short tons of coal. All of the data were collected by mail and were edited to ensure that they were complete and accurate.

As in all surveys, data from Form EIA-7A, "Coal Production Report," are subject to various sources of error: (1) coverage (the list of respondents may not be complete or, on the other hand, there may be double counting), (2) nonresponse (all units that are surveyed may not respond or may not provide all the information requested), (3) respondents (respondents may commit errors in reporting the data), (4) processing (the data collection agency may lose or incorrectly transcribe the submissions), (5) concept (the data collection elements may not measure the items they were intended to measure), and (6) adjustment (errors may be made in estimating values for missing data).

Because the annual coal production survey (Form EIA-7A) is not a sample survey, the estimates shown in this report are not subject to sampling error.<sup>1</sup> It is

<sup>1</sup> Sampling error is a measure of the variation that occurs by chance because a sample rather than a complete enumeration of units is surveyed.

not possible to present estimates of nonsampling error, but precautionary steps were taken at each stage of the survey design to minimize the possible occur-

rence of these errors. These steps are described as follows.

The forms are logged within 24 hours of receipt and assigned to a team of data editors consisting of Coal

**Table D1. Interquartile Range and Average Mine Price by State and Mine Type, 1999**  
(Dollars per Short Ton)

Coal-Producing State and Region	Underground		Surface		Total	
	Average Mine Price	Interquartile Range	Average Mine Price	Interquartile Range	Average Mine Price	Interquartile Range
Alabama .....	\$35.58	\$15.48	\$34.40	\$6.23	\$35.29	\$15.48
Alaska .....	-	-	w	w	w	w
Arizona .....	-	-	w	w	w	w
Arkansas .....	-	-	w	w	w	w
Colorado .....	16.30	.65	\$19.27	\$.56	\$17.23	\$4.13
Illinois .....	22.84	3.72	23.56	3.66	22.90	3.72
Indiana .....	w	w	w	w	19.99	4.41
Kansas .....	-	-	w	w	w	w
Kentucky Total .....	\$23.82	\$4.21	\$22.97	\$4.27	\$23.50	\$4.65
Eastern .....	24.59	3.94	23.51	3.98	24.14	4.26
Western .....	21.71	4.08	19.25	4.06	21.15	5.26
Louisiana .....	-	-	w	w	w	w
Maryland .....	w	w	w	w	\$23.27	\$3.36
Mississippi .....	-	-	w	w	w	w
Missouri .....	-	-	w	w	w	w
Montana .....	-	-	\$8.82	\$5.74	\$8.82	\$5.74
New Mexico .....	w	w	w	w	20.97	4.15
North Dakota .....	-	-	\$8.01	\$.22	8.01	.22
Ohio .....	\$31.50	\$30.87	24.52	5.98	28.18	5.64
Oklahoma .....	w	w	w	w	26.70	2.11
Pennsylvania Total .....	\$23.86	\$2.78	\$25.07	\$8.17	24.14	2.96
Anthracite .....	40.86	2.89	34.77	29.48	35.13	29.48
Bituminous .....	23.78	2.78	21.90	6.36	23.43	2.79
Tennessee .....	w	w	w	w	29.24	7.06
Texas .....	-	-	\$12.46	\$3.47	12.46	3.47
Utah .....	\$17.33	\$4.48	-	-	17.33	4.48
Virginia .....	26.73	2.76	25.32	3.46	26.30	3.07
Washington .....	-	-	w	w	w	w
West Virginia Total .....	26.21	6.12	\$24.36	\$2.60	\$25.57	\$5.74
Northern .....	23.10	6.96	22.29	1.67	22.98	6.96
Southern .....	27.66	4.21	24.59	2.73	26.39	5.35
Wyoming .....	w	w	w	w	5.38	1.26
<b>Appalachian Total<sup>1</sup> .....</b>	<b>\$26.07</b>	<b>\$6.69</b>	<b>\$24.65</b>	<b>\$4.75</b>	<b>25.58</b>	<b>5.48</b>
<b>Interior Total<sup>1</sup> .....</b>	<b>22.42</b>	<b>3.80</b>	<b>16.04</b>	<b>8.45</b>	<b>18.52</b>	<b>9.15</b>
<b>Western Total<sup>1</sup> .....</b>	<b>16.95</b>	<b>3.72</b>	<b>7.69</b>	<b>3.93</b>	<b>8.59</b>	<b>7.50</b>
<b>East of Miss. River .....</b>	<b>25.39</b>	<b>5.09</b>	<b>23.64</b>	<b>5.26</b>	<b>24.77</b>	<b>5.12</b>
<b>West of Miss. River .....</b>	<b>17.00</b>	<b>3.72</b>	<b>8.32</b>	<b>5.77</b>	<b>9.07</b>	<b>8.72</b>
<b>U.S. Total .....</b>	<b>24.33</b>	<b>6.64</b>	<b>12.37</b>	<b>15.36</b>	<b>16.63</b>	<b>18.64</b>

<sup>1</sup> For a definition of coal-producing regions, see Appendix C.

w Withheld to avoid disclosure of individual company data.

Note: Excludes silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons of coal during the year. Average Mine Price is calculated by dividing the total free on board (f.o.b) mine value of the coal produced by the total production.

Sources: Energy Information Administration, Form EIA-7A, "Coal Production Report"; and/or U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production Report."

team personnel. The editors screen the forms for legibility, completeness, and consistency. Names and address changes are updated in the files. The reported data are compared with data from previous years. Inconsistencies are identified and the respondents contacted for clarification. Computer edits are generated to identify keypunch errors, errors made by coders, out-of-range codes, and unlikely data combinations. Errors are corrected to conform to the data on the submissions or revised after telephone conversations with the company representatives. All changes to reported data are documented. EIA maintains data

from the Form EIA-7A on an automated database at its computing facility in Washington, D.C. The survey forms are filed by EIA identification number organized by State and county.

The survey forms were sent via regular mail in February with a due date of April 7, 2000. Nonresponse letters were mailed April 11 to those mining operations that had not submitted their forms. Subsequent to the letter, attempts were made to contact, by telephone, those nonrespondents whose reported 1998 production was 100,000 short tons or more.

Some forms could not be delivered. Where possible, address corrections were obtained. Some mining operations that had reported in earlier surveys or operated only in 1999 were no longer in business.

Since 1992, California has not reported coal production as the courts determined that the product mined in that State did not meet the standard classification for coal.

Missing *coalbed classification*, *coalbed thickness*, and *coal rank/group* data were estimated using State mining agency production reports, geological data, and previous years' reports for these mines.

When a mine had a missing *disposition value*, its disposition was multiplied by the county-level average mine price to estimate the value. County-level average mine prices were calculated by dividing the total value for the appropriate disposition (open/captive) and the type of mining (underground or surface) by the corresponding total disposition. All missing disposition was classified as open market unless information was available to classify it as captive. Of those mines whose production was 10,000 or more short tons, value data were estimated for 238 mines, representing 2.5 percent (27.5 million short tons) of the disposition total.

When an underground mine had unreported *mining method*, it was assumed that the mining method was conventional.

Missing *recoverable coal reserves* data were estimated by using the mine's 1998 recoverable reserves minus the mine's 1999 production. If this calculation could not be made, the mine's projected production for 2000 was used. If recoverable coal reserves for 1998 and 1999 and projected production for 2000 were all missing, no estimate was made. In 1999, recoverable reserves were reported by or estimated for 1,111 mines, representing 1,073 million short tons, or 97.5 percent of the mines whose production exceeded 10,000 or more short tons.

Missing *recovery percentage* data were estimated by using 1999 recovery percentage averages at the State level for the appropriate type of mining (underground or surface).

Missing *productive capacity* data were estimated by assuming productive capacity was equal to 1999 production. If productive capacity was reported as less than annual production, productive capacity was equated to 1999 production. There were 579 in-scope mines with production of 293.2 million short tons for which 1999 production was used as a proxy for productive capacity, resulting in 100 percent capacity utilization.

These mines included those with productive capacity less than 1999 production, and mines that did not report productive capacity and could not be contacted. If these mines were excluded from the calculation of percent utilization, the U.S. total becomes 76.70 versus 81.70, when those mines are included.

In 1999, there were 29 mines that produced 1.7 million short tons of refuse bituminous and subbituminous coal. Those operations are not included in this report. In 1999, there were 2.5 million short tons of anthracite refuse produced and included in this report.

In order to protect the confidentiality of individual respondent's data, a policy was implemented to ensure that the reporting of survey data on mine prices and recoverable reserves in this publication would not associate those data with a particular company. The final phase in the data quality assurance and control procedures is determining which data must be suppressed (withheld) during publication to provide the necessary confidentiality for mines or companies that represent a significant portion of a reported data cell. All withholding analysis is done based upon production volumes. These procedures are performed as follows:

1. Primary Withholding Based on the Number of Respondents in a Cell -- All cells with three or fewer active coal mining operations are suppressed.
2. Residual Withholding Dominance Rule Phase 1  
All cells containing between 4 and 10 active coal mining operations are examined. A cell is suppressed if any single respondent accounts for 75 percent or more of the volume for all respondents included in that cell.
3. Residual Withholding Dominance Rule Phase 2  
All cells in which two active coal mining operations represent 90 percent or more of the volume for all respondents included in that cell are suppressed.
4. Complementary Suppression -- All tables are reviewed to identify cells which should have data withheld to prevent disclosure of already suppressed cells. An example of cells to be withheld during complementary suppression is underground price, if the surface price is withheld during primary or residual suppression. Because the total price is published, if the underground price is not withheld, the surface price could be calculated using the total price, the underground price, and the underground, surface, and total volumes.
5. Most complementary suppression involves type of mining considerations. Other complementary suppression is based on regional level data. A State or region must be withheld during complementary suppression because an already withheld State could be calculated using other States and the regional total. Cells are also selected for complementary suppression that represent the smallest volumes or that were withheld in prior years.
6. Inter-table effects are also examined regarding complementary suppression. For example, States that are withheld in one State table can influence the complementary suppression of an associated State table. This analysis is very similar to that done at the regional level, except that two tables are involved rather than one. Finally, similar tables are reviewed to ensure that all like sup-

pressed cells are consistently withheld (suppressed) in all tables in which they appear.

The withholding/suppression of data is performed as an adjunct to the quality assurance (QA) procedures. The work is performed by survey editors, and the QA staff and is reviewed by the survey manager before being submitted to division-level QA review.

All sensitive cells identified in withholding analysis are denoted with the symbol/letter "w." The use of the symbol/letter applies to primary, complementary and inter-table suppressions as well as all withheld data. The symbol/letter "w" is footnoted as follows: "w Withheld to avoid disclosure of individual company data."

The interquartile range is a measure of dispersion of State-level average mine prices. Two States may have the same average mine price, but the spread about this price may be totally different. For a fixed average mine price, a larger interquartile range suggests a broader distribution of coal prices than a smaller interquartile range. The summary statistics (Table D2) given in this publication are weighted by production. The interquartile range (weighted by production) is computed in the following manner:

- Each cell is sorted according to average mine price, from the lowest to the highest.
- For each cell, the corresponding mine's production according to increasing average mine price is divided by that particular cell's total production and multiplied by 100. These percentages are then added as a cumulative percentage of production.
- The first quartile (Q1) is the associated mine price for which the cumulative percentage of production first passes 25 percent. Thus, at least 25 percent of that cell's total production is identified with prices at or lower than Q1.
- The third quartile (Q3), is the associated mine price for which the cumulative percentage of production first passes 75 percent. Thus, at least 75 percent of that cell's total production is identified with prices at or lower than Q3.

The interquartile range is Q3-Q1.

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

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

Through the end of 1988, all manufacturers that consumed coal were required to file Form EIA-3. Beginning with the first quarter of 1989, only those manufacturers that consumed 1,000 or more tons in the past year were required to report. In 1999, 581

manufacturers responded to the EIA-3 survey. The response rate for the year 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-6A. 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-6A. Consequently, the coal consumption data gathered on the Form EIA-3 do not represent the total consumption at manufacturing plants. See Technical Note 5 for data adjustment procedures for coal consumption for the other industrial sector.

Current year data from this survey are preliminary and unrevised in the January - March, April - June, and July - September issues of the *Quarterly Coal Report* (DOE/EIA-0121). In the October - December issue, any revisions necessary for the entire year are applied and the data are considered final.

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

### **Annual Coal Quality Report - Manufacturing Plants (Form EIA-3A)**

Form EIA-3A contains questions on the origin of coal (State or Country), the quantity of coal receipts, the Btu, sulfur and ash content of the coal receipts, and the basis used to determine the coal quality data. The threshold for the annual collection will be the same as for the EIA-3: manufacturing plants that consume in excess of 1,000 short tons of coal per year. In 1998, 601 manufacturers responded to the EIA-3A survey. The response rate for the year was 100 percent.

### **Coke Plant Report (Form EIA-5)**

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

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

In 1999, there were 24 respondents to the EIA-5 survey, and the response rate was 100 percent. The respondent list for this survey is updated by continuous monitoring of the industry literature.

Current year data from this survey are preliminary and unrevised in the January - March, April - June, and July - September issues of the *Quarterly Coal Report* (DOE/EIA-0121). In the October - December issue,

any revisions necessary for the entire year are applied and the data are considered final.

### **Annual Coal Quality Report - Coke Plants (Form EIA-5A)**

This form contains questions on the origin of coal (State or country), the quantity of coal receipts, the volatile matter, sulfur and ash content, and the basis used to determine the coal quality data. There is no threshold for this form. In 1998, there were 24 respondents to the EIA-5A survey, and the response rate was 100 percent.

### **Coal Distribution Report (Form EIA-6A)**

Form EIA-6A is used to survey all U.S. companies (producers and/or distributors) that own or purchase and distribute more than 50,000 short tons annually.<sup>2</sup> Data on coal production and purchases, distribution by consumer category, and method of transportation are reported.

In 1999, there were about 950 respondents to the EIA-6A survey. Until the end of 1988, coal distribution companies were required to report production on a Bureau of Mines district basis. For the year 1989, respondents were required to report on a BOM district/State basis. Beginning with the first quarter of 1990, respondents were required to report on a State basis. The response rate for the current quarter was 100 percent. The annual production total reported on Form EIA-6A 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-6A only represent the domestic coal distributed; therefore, imported coal distributed during the quarters is not included.

Current year data from this survey are preliminary and unrevised in the January - March, April - June, and July - September issues of the *Quarterly Coal Report* (DOE/EIA-0121). In the October - December issue, any revisions necessary for the entire year are applied and the data are considered final.

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

## **Electric Utility Surveys**

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

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

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

### **Monthly Power Plant Report (Form EIA-759)**

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

Current year data from this survey are considered final.

<sup>2</sup> For the States of Arkansas, Maryland, Oklahoma, and the anthracite portion of Pennsylvania, the threshold is 10,000 tons.



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

Federal Energy Regulatory Commission (FERC) Form 423 is used to survey all fossil-fueled plants with a total steam-generating capacity of 50 megawatts or more. It is submitted by approximately 230 electric utilities. (Before 1983, this form was called FPC Form 423, and all fossil-fueled plants with a total generating capacity of 25 megawatts or more were surveyed.) In 1972, the FPC issued Order Number 453, which included the legislative authority to create FERC Form 423. Cost, quality, and source of fuels (by State or country of origin), including coal, are reported. Current year data from this survey are considered final.

## **Annual Nonutility Power Producer Report (Form EIA-867)**

The Form EIA-867 is a restricted-universe census used to collect annual data from all existing and planned nonutility power producers in the United States during the years 1993 through 1997. In 1992, the reporting threshold of the Form EIA-867 was lowered to include all facilities with a combined nameplate capacity of 1 or more megawatts. Previously data were collected every 3 years from facilities with a nameplate capacity between 1 and 5 megawatts. For the purpose of this data collection, a nonutility power producer is an enterprise that has electric generating capacity and is not an electric utility. They include qualifying cogenerators, qualifying small power producers, and other nonutility generators (including independent power producers) without a designated franchised service area. The form is used to collect data on the installed capacity, energy consumption, generation, and electric energy sales to electric utilities from approximately 2,000 facilities.

## **Annual Electric Generator Report - Nonutility (Form EIA-860B)**

The Form EIA-860B is a mandatory survey of all existing and planned nonutility electric generating facilities in the United States with a total generator nameplate capacity of 1 or more 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. These data are aggregated to provide geographic totals for selected States and at the Census division and national levels.

## **Export and Import Data**

Export and import data (except imports to electric utilities, manufacturing plants and coke plants, which are reported on the FERC Form 423, EIA-3A, and EIA-5A, respectively.) 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. Import data for the years 1994 through 1997 have been revised in this publication due to the misclassification of coal import ranks and the translation of this rank to another code.

Foreign distribution of U.S. coal, major exporting State, and destination, along with foreign distribution of metallurgical and steam coal (Tables 62, 63, and 64, respectively), was determined using EIA-6A distribution data by origin State, and coal export data from King's COALBASE (King Publishing Corporation, Knoxville, Tennessee) which gives the metallurgical and steam breakdown as well as the country destination data. The percentage of metallurgical and steam coal for each country of destination are applied to the EIA-6A export figures for each State of origin to derive coal distribution data that link State of origin to countries of destination by type of coal. The King's destination country data are considered to be more accurate than the Census country-of-destination data because it account for transshipments through intermediate countries to final destination countries, whereas the Census data would designate the destination as the intermediate country.

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.

# Technical Notes

## 3. Residential and Commercial

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

## 4. Consumer Prices

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

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

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

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

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

## 1. Differences in Related Coal Data

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

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

**Foreign Distribution of U.S. Coal versus U.S. Coal Exports.** Foreign distribution of U.S. coal does not equal U.S. coal exports because there are differences in reporting time and survey thresholds.

**Receipts of Imported Coal versus U.S. Coal Imports.** Receipts of imported coal at electric utilities and manufacturing and coke plants does not equal U.S. coal imports due to reporting time differences. In addition, it does not include receipts at independent power producers.

## 2. Other Industrial Plants and Manufacturing

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

## 5. Consumption

### Annual Data

Annual coal consumption data are sums of quarterly or monthly data described below except for nonutility power producers whose coal consumption is not included in this report. These data are however, reported on Form EIA-867 and published in the *Electric Power Annual* (DOE/EIA-0348).

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

**Nonutility Electric Generating Facilities.** For 1997 and prior years, consumption is reported on Form EIA-867. For 1998 and forward years, consumption data is reported on the Form EIA-860B.

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

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

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

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

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

Monthly coal consumption at electric utility plants is derived directly from Form EIA-759. Prior to 1980, monthly coal consumption at coke plants was derived directly from Form EIA-5. For 1981 through 1987, it was derived from the quarterly coal consumption reported on Form EIA-5, using the ratios of monthly to quarterly consumption in 1979, the last year that coke plant data were collected monthly on Form EIA-5. These ratios by month (January - December)

are 0.3377, 0.3200, 0.3423; 0.3529, 0.3462, 0.3009; 0.3364, 0.3347, 0.3289; and 0.3273, 0.3301, 0.3426.

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

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

Given the quarterly consumption for the **other industrial plants** sector ( $C$ ), the monthly consumption for the sector ( $C_m$ ) is estimated for each month in the quarter as  $C_m = (C_m3/C3) \times C$  where  $C_m3/C3$  is the ratio of monthly to quarterly coal consumption as reported on Form EIA-3. For the 1978 coal consumption figures, the ratios used are based on 1978 EIA-3 data. For 1979 through 1987, the ratios used are based on the 1979 EIA-3 data. These 1979 ratios by month (January - December) are 0.3593, 0.3264, 0.3143; 0.3485, 0.3332, 0.3183; 0.3317, 0.3407, 0.3276; and 0.3045, 0.3253, 0.3702.

Starting with 1988, monthly coal consumption for the other industrial plants sector is derived from quarterly coal consumption reported on Form EIA-3 using monthly ratios derived from the industrial production indices published by the Board of Governors of the Federal Reserve System. Six major industry groups' indices are used as the basis for calculating the monthly ratios. These groups are food manufacturing (North American Industry Classification System (NAICS 311), paper manufacturing (NAICS 322), chemicals manufacturing (NAICS 325), petroleum and coal products (NAICS 324), nonmetallic mineral products (NAICS 327) and primary metal manufacturing (NAICS 331).

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

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

For 1980, the quarterly coal consumption figures in the **residential and commercial** sector are converted

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

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

## 6. Stocks

Annual stocks are calculated at the end of the year or the end of the fourth quarter. Coal stocks are derived for each end-use sector as follows:

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

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

**Other Industrial Plants.** Stocks are reported on Form EIA-3, i.e., stocks at *manufacturing* plants only. Technical Note 2 discusses the difference between *other industrial plants* and *manufacturing plants*.

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

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

## 7. Methods of Transportation

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

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

**River:** Shipments of coal moved to consumers via river by barge, except shipments to Great Lakes

coal loading docks or tidewater piers or coastal ports.

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

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

**Truck:** Shipments of coal moved to consumers by truck.

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

## 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 based on information on imports provided monthly by the Canadian government.

Comparing Census reported imported coal figures in Table 35 with EIA reported imported coal receipts at electric utilities, manufacturers, and coke plants for 1997 shows a difference of about 1.3 million short tons. The main reason for this is that the EIA receipts data do not cover imported coal received by nonutility power producers who are not in the manufacturing sector.

The import data for the years 1994 through 1996 have been revised. These revisions were done because of a missed "Harmonized Tariff Schedule" code for a category of coal.

## 9. Revisions

All data published in this report are considered final. 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. 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 1-percent threshold are left to the discretion of the Office Director.

## 10. Price Data and Taxes

F.O.B. mine coal prices and prices of coal delivered to or received by end-use consumers (electric utility plants, manufacturing plants, and coke plants) as reported in this publication include relevant local, State and Federal excise and sales taxes.

**Table D2. Implicit Price Deflator,  
1990-1999**

<b>Year</b>	<b>Implicit Price Deflator (1996 = 100)</b>
1990	86.5
1991	89.7
1992	91.8
1993	94.1
1994	96.0
1995	98.1
1996	100.0
1997	101.9
1998	103.1
1999	104.6

Source: Bureau of Economic Analysis, U.S. Department of Commerce, *Survey of Current Business*.

# Glossary

**Agglomerating Character:** Agglomeration describes the caking properties of coal. Agglomerating character is determined by examination and testing of the residue when a small powdered sample is heated to 950 degrees centigrade under specified conditions. If the sample is "agglomerating," the residue will be coherent, show swelling or cell structure, and be capable of supporting a 500-gram weight without pulverizing.

**Anthracite:** A hard, black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. Comprises three groups classified according to the following ASTM Specification D388-91a, on a dry mineral-matter-free (mmf) basis:

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

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

Anthracite coal is non-agglomerating. If agglomerating, semianthracite is classified in the low-volatile group of the bituminous class.

**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.

**Auger Mine:** A surface mine where coal is recovered through the use of a large-diameter drill driven into a coalbed in a hillside. It usually follows contour surface mining, particularly when the overburden is too costly to excavate.

**Average Annual Percent Change:**

$$\sqrt[n]{\frac{V_n}{V_0}} - 1 \quad (1)$$

Where:  $V_0$  = the value for the base period.  
 $V_n$  = the value for the  $n^{th}$  period.

$n$  = the number of periods.

**Average Mine Price:** The ratio of the total value of the coal produced at the mine to the total production tonnage. (See F.O.B. mine price and F.O.B rail/barge price.)

**Average Number of Miners:** The arithmetic mean number of miners working each day at a mining operation. Includes maintenance as well as production work performed.

**Average Production per Miner per Hour:** The ratio of the total production at a mining operation to the total direct labor hours worked at the operation.

**Average Quality of Coal:** Refers to individual measurements such as heat value, fixed carbon, moisture, ash, sulfur, phosphorus, major, minor, and trace elements, coking properties, petrologic properties, and particular organic constituents. The individual quality elements may be aggregated in various ways to classify coal for such special purposes as metallurgical, gas, petrochemical, and blending usages.

**Average Recovery Percentage:** Average recovery percentage represents the percentage of coal that can be recovered from coal reserves at reporting mines, averaged for all mines in the reported geographic area.

**Bituminous Coal:** The most common coal. It is dense and black (often with well-defined bands of bright and dull material). Its moisture content is usually less than 20 percent. It is used for generating electricity, making coke, and for space heating. Comprises five groups classified according to ASTM Specification D-388-91a, on a dry mineral-matter-free mmf basis for fixed-carbon and volatile matter and a moist mmf basis for calorific value. Coals having 69 percent or more fixed carbon on the dry, mineral-matter-free basis shall be classified according to fixed carbon, regardless of calorific (heating) value. High-volatile C bituminous coal is agglomerating, but other bituminous coals are commonly agglomerating. However, it is recognized that there may be nonagglomerating varieties in these groups of the bituminous class, and there are notable exceptions in the high-volatile C bituminous group. Coals with less than 69 percent fixed carbon, but with 14,000 or more Btu per pound, are classified as high-volatile A bituminous.

	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

**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.

**Cannel Coal:** A variety of bituminous coal that is noncaking, contains a high percentage of volatile matter, ignites easily, and burns with a luminous smokey flame.

**Capacity Utilization:** Capacity utilization is computed by dividing production by productive capacity and multiplying by 100.

**Captive Coal:** Coal produced and consumed by the mine operator, a subsidiary, or parent company (for example, steel companies and electric utilities).

**Carbon Dioxide:**  $CO_2$  A colorless, odorless, incombustible gas formed during combustion in fossil-fuel electric generation plants.

**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.

**CIF:** See Cost, Insurance, Freight.

**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 (Coke):** See Coke (coal).

**Coal Mining Productivity:** Coal mining productivity is calculated by dividing total coal production by the total direct labor hours worked by all mine employees.

**Coal Preparation:** The process of sizing and cleaning coal to meet market specifications by removing impurities such as rock, sulfur, etc. May include crushing, screening, or mechanical cleaning.

**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 States in the Interior Region are Arkansas, Illinois, Indiana, Iowa, Kansas, western Kentucky, Louisiana, Missouri, Oklahoma, and Texas. The States in the Western Region are Alaska, Arizona, California, Colorado, Montana, New Mexico, North Dakota, Utah, Washington, and Wyoming.

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

- **Kentucky, Eastern** All mines located in counties other than the Western Kentucky counties.
- **Kentucky, Western** All mines in the following counties in Western Kentucky: Butler, Caldwell, Christian, Crittenden, Daviess, Edmonson, Grayson, Hancock, Henderson, Hopkins, Logan, McLean, Muhlenberg, Ohio, Simpson, Todd, Union, Warren, and Webster.
- **Pennsylvania Anthracite** All mines in the following counties: Carbon, Columbia, Dauphin, Lackawanna, Lebanon, Luzerne, Northumberland, Schuylkill, Sullivan, and Susquehanna. All anthracite mines in Bradford County.
- **Pennsylvania Bituminous** All mines located in counties other than the Pennsylvania anthracite counties and all bituminous mines in Bradford County.
- **West Virginia, Northern** All mines in the following counties (formerly defined as Coal-Producing Districts 1, 3, & 6): Barbour, Brooke, Braxton, Calhoun, Doddridge, Gilmer, Grant, Hancock, Harrison, Jackson, Lewis, Marion, Marshall, Mineral, Monongalia, Ohio, Pleasants, Preston, Randolph, Ritchie, Roane, Taylor, Tucker, Upshur, Webster, Wetzel, Wirt, and Wood.
- **West Virginia, Southern** All mines in the following counties (formerly defined as Coal-Producing Districts 7 & 8): Boone, Cabell, Clay, Fayette, Greenbrier, Kanawha, Lincoln, Logan, Mason, McDowell, Mercer, Mingo, Monroe, Nicholas, Pocahontas, Putnam, Raleigh, Summers, Wayne, and Wyoming.

**Coal Rank/Group:** A classification of coal based on fixed carbon, volatile matter, calorific (heating) value, and agglomerating character. Coal is ranked progressively from lignite (least carbonaceous) to anthracite (most carbonaceous). The rank of coal can also deter-



mined by measuring the reflectance of vitrinite, one of several organic components of coal. The lower rank coal can be classified based on heat content. The heat content of the higher rank coals is generally above 14 thousand Btu per pound for each coal rank group (except for meta-anthracite, which trends slightly lower), and heat content ranges vary within a relatively narrow range. Since heat content is not a dependable criterion for these higher rank coals, their rank categories are instead described by degree of metamorphism, or "coalification," a property that is measured by fixed carbon content. Finally, the agglomerating character of bituminous coals is a critical attribute for certain coal consumers, and thus agglomerating character has come to define the distinctions between certain adjacent coal groups. Some high-volatile C bituminous and subbituminous A coals can be distinguished only on the basis of agglomerating character. Percentages are based on dry mineral-matter-free coal. Volatile matter (not shown) is the complement of fixed carbon; that is, the percentages of fixed carbon and volatile matter sum to 100 percent. As fixed carbon percentage decreases, therefore, volatile matter percentage increases by the same amount.

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

**Coalbed:** A bed or stratum of coal. Also called a coal seam.

**Cogenerator:** A generating facility that produces electricity and another form of useful thermal energy (such as heat or steam) used for industrial, commercial, heating, and cooling purposes. To receive status as a qualifying facility (QF) under the Public Utility Regulatory Policies Act (PURPA), the facility must produce electric energy and "another form of useful thermal energy through the sequential use of energy," and meet certain ownership, operating, and efficiency criteria established by the Federal Energy Regulatory Commission (FERC). (See the Code of Federal Regulation, Title 18, Part 292.)

**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.

**Continuous Mining:** A form of room-and-pillar mining in which a continuous mining machine extracts and removes coal from the working face in one operation; no blasting is required.

**Conventional Mining:** The oldest form of room-and-pillar mining which consists of a series of operations

that involve cutting the coalbed so it breaks easily when blasted with explosives or high-pressure air, and then loading the broken coal.

**Cost, Insurance, Freight (CIF):** A type of sale in which the buyer of the product agrees to pay a unit price that includes the F.O.B. value of the product at the point of origin plus all costs of insurance and transportation. This type of transaction differs from a "delivered" purchase in that the buyer accepts the quantity as determined at the loading port (as certified by the Bill of Lading and Quality Report) rather than pay on the basis of the quantity and quality ascertained at the unloading port. It is similar to the terms of an F.O.B. sale, except that the seller, as a service for which he is compensated, arranges for transportation and insurance.

**Crude Oil:** A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface-separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite and oil shale. Drip gases are also included, but topped crude (residual oil) and other unfinished oils are excluded. Liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded where identifiable. Crude oil is considered as either domestic or foreign, according to the following: or from its "outer continental shelf" as defined in 43 U.S.C. 1331. States. Imported Athabasca hydrocarbons are included.

**Culm:** Waste from Pennsylvania anthracite preparation plants, consisting of coarse rock fragments containing as much as 30 percent small-sized coal; sometimes defined as including very fine coal particles called silt. Its heat value ranges from 8 to 17 million Btu per short ton.

**Customs District:** Customs districts, as defined by the Bureau of the Census, U.S. Department of Commerce, "Monthly Report EM 545," are as follows

- **Eastern:** Bridgeport, CT, Washington, DC, Boston, MA, Baltimore, MD, Portland, ME, Buffalo, NY, New York City, NY, Ogdensburg, NY, Philadelphia, PA, Providence, RI, Norfolk, VA, St. Albans, VT.
- **Southern:** Mobile, AL, Savannah, GA, Miami, FL, Tampa, FL, New Orleans, LA, Wilmington, NC, San Juan, PR, Charleston, SC, Dallas-Fort Worth, TX, El Paso, TX, Houston-Galveston, TX, Laredo, TX, Virgin Islands.
- **Western:** Anchorage, AK, Nogales, AZ, Los Angeles, CA, San Diego, CA, San Francisco, CA, Honolulu, HI, Great Falls, MT, Portland, OR, Seattle, WA.
- **Northern:** Chicago, IL, Detroit, MI, Duluth, MN, Minneapolis, MN, St. Louis, MO, Pembina, ND, Cleveland, OH, Milwaukee, WI.

**Customs Import Value:** The value of imports as appraised by the U.S. Customs Service in accordance with the legal requirements of the Tariff Act of 1930, as amended. This value is generally defined as the

price actually paid or payable for merchandise when sold for exportation to the United States, excluding U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

**Demonstrated Reserve Base:** A collective term for the sum of coal in both measured and indicated resource categories of reliability which represents 100 percent of the coal in these categories in place as of a certain date. Includes beds of bituminous coal and anthracite 28 inches or more thick and beds of subbituminous coal 60 inches or more thick that occur at depths to 1 thousand feet. Includes beds of lignite 60 inches or more thick that can be surface mined. Includes also thinner and/or deeper beds that presently are being mined or for which there is evidence that they could be mined commercially at this time. Represents that portion of the identified coal resource from which reserves are calculated.

**Depletion:** The subtraction of both the tonnage produced and the tonnage lost to mining from identified resources to determine the remaining tonnage as of a certain time.

**Depletion Factor:** The multiplier applied to the tonnage produced to compute depletion. This multiplier takes into account both the tonnage recovered and the tonnage lost due to mining. The depletion factor is the reciprocal of the recovery factor in relation to a given quantity of production.

**Direct Labor Hours:** Direct labor hours worked by all mining employees at a mining operation during the year. Includes hours worked by those employees engaged in production, preparation, development, maintenance, repair, shop or yard work, management, and technical or engineering work. Excludes office workers. Excludes vacation and leave hours.

**Distillate Fuel Oil:** A general classification for one of the petroleum fractions produced in conventional distillation operations. Included are products known as No.1, No.2, and No.4 fuel oils and No.1, No.2, and No.4 diesel fuels. It is used primarily for space heating, on-and-off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), and electric power generation.

**Dredge Mining:** A method of recovering coal from rivers or streams.

**Drift Mine:** An underground mine that has a horizontal entry dug to a coalbed in a hillside.

**Dry (Coal) Basis:** Coal quality data calculated to a theoretical basis in which no moisture is associated with the sample. This basis is determined by measuring the weight loss of a sample when its inherent moisture is driven off under controlled conditions of low temperature air-drying followed by heating to just above the boiling point of water (104 to 110 degrees centigrade).

**Electricity:** A form of energy generated by friction, induction, or chemical change that is caused by the

presence and motion of elementary charged particles of which matter consists.

**Electricity Generation:** The process of producing electric energy or transforming other forms of energy into electric energy. Also the amount of electric energy produced or expressed in wathours (Wh).

**Electricity Generation, Gross:** The total amount of electric energy produced by the generating station or stations, measured at the generator terminals.

**Electricity Generation, Net:** Gross generation less electricity consumed at the generating plant for station use. Electricity required for pumping at pumped-storage plants is regarded as plant use and is deducted from gross generation.

**Electric Power Plant:** A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

**Electric Utility:** A corporation, person, agency, authority, or other legal entity or instrumentality that owns and/or operates facilities within the United States, its territories, or Puerto Rico for the generation, transmission, distribution, or sale of electric energy primarily for use by the public and files forms listed in the Code of Federal Regulations, Title 18, Part 141. Facilities that qualify as cogenerators or small power producers under the Public Utility Regulatory Policies Act (PURPA) and exempt wholesale generators under Energy Policy Act of 1992 are not considered electric utilities. See definition of non-utility power producer.

**Electric Utility Sector:** The electric utility sector consists of privately and publicly owned establishments that generate, transmit, distribute, or sell electricity primarily for use by the public and that meet the definition of an electric utility. Nonutility power producers are not included in the electric utility sector.

**Emissions:** The pollutants discharged into the atmosphere in exhaust gases. For coal-burning plants, these emissions are primarily Carbon Dioxide ( $CO_2$ ), Nitrogen Oxide ( $NO_x$ ), and Sulfur Dioxide ( $SO_2$ ).

**Energy:** The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatt hours, while heat energy is usually measured in British thermal units.

**Energy Consumption:** The use of energy as a source of heat or power or as an input in the manufacturing process.

**Exports:** Shipments of goods from the 50 States and the District of Columbia to foreign countries, Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

**Fahrenheit:** A temperature scale on which the boiling point of water is at 212 degrees above zero on the scale and the freezing point is at 32 degrees above zero at standard atmospheric pressure.

**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.

**Federal Energy Regulatory Commission (FERC):** A quasi-independent regulatory agency within the Department of Energy having jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification.

**Federal Coal Lease:** A lease granted to a mining company to produce coal from land owned and administered by the Federal Government in exchange for royalties and other revenues.

**Federal Power Act:** Enacted in 1920, and amended in 1935, the Act consists of three parts. The first part incorporated the Federal Water Power Act administered by the former Federal Power Commission, whose activities were confined almost entirely to licensing non-Federal hydroelectric projects. Parts II and III were added with the passage of the Public Utility Act. These parts extended the Act's jurisdiction to include regulating the interstate transmission of electrical energy and rates for its sale as wholesale in interstate commerce. The Federal Energy Regulatory Commission is now charged with the administration of this law.

**Federal Power Commission:** The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission (FPC) was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. The FPC was abolished on September 20, 1977, when the Department of Energy was created. The functions of the FPC were divided between the Department of Energy and the Federal Energy Regulatory Commission.

**FERC:** The Federal Energy Regulatory Commission.

**Fixed Carbon:** The nonvolatile matter in coal minus the ash. Fixed carbon is the solid residue other than ash obtained by prescribed methods of destructive distillation of a coal. Fixed carbon is the part of the total carbon that remains when coal is heated in a closed vessel until all volatile matter is driven off.

**Flue Gas Desulfurization Unit (Scrubber):** Equipment used to remove sulfur oxides from the combustion gases of a boiler plant before discharge to the

atmosphere. Chemicals, such as lime, are used as the scrubbing media.

**Flue Gas Particulate Collectors:** Equipment used to remove fly ash from the combustion gases of a boiler plant before discharge to the atmosphere. Particulate collectors include electrostatic precipitators, mechanical collectors (cyclones), fabric filters (baghouses), and wet scrubbers.

**F.O.B. Mine Price:** The free on board mine price. This is the price paid for coal at the mining operation site. It excludes freight or shipping and insurance costs.

**F.O.B. Rail/Barge Price:** The free on board price of coal at the point of first sale. It excludes freight or shipping and insurance costs.

**Foreign-Controlled Firms:** Foreign-controlled firms are U.S. coal producers with more than 50 percent of their stock or assets owned by a foreign firm.

**Fossil-Fuel Electric Generation:** Electric generation in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

**Geothermal Energy:** Energy from the internal heat of the earth, which may be residual heat, friction heat, or a result of radioactive decay. The heat is found in rocks and fluids at various depths and can be extracted by drilling and/or pumping.

**Greenhouse Effect:** The increasing mean global surface temperature of the earth caused by gases in the atmosphere (including carbon dioxide, methane, nitrous oxide, ozone, and chlorofluorocarbon). The greenhouse effect allows solar radiation to penetrate but absorbs the infrared radiation returning to space.

**Gross Domestic Product (GDP):** The total value of goods and services produced by labor and property in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

**Hand Loading:** An underground loading method by which coal is removed from the working face by manual labor through the use of a shovel for conveyance to the surface. Though rapidly disappearing, it is still used in very small-tonnage mines.

**Highwall:** the unexcavated face of exposed overburden and coal in a surface mine.

**High-Volatile A Bituminous Coal:** See Bituminous coal.

**High-Volatile B Bituminous Coal:** See Bituminous coal.

**High-Volatile C Bituminous Coal:** See Bituminous coal.

**High-Volatile (specific sub-group unknown):** See Bituminous coal.

**Hydroelectric Power:** The harnessing of flowing water to produce mechanical or electrical energy.

**Implicit Price Deflator:** The implicit price deflator, published by the U.S. Department of Commerce, Bureau of Economic Analysis, is used to convert nominal figures to real figures.

**Imports:** Receipts of goods into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

**Indian Coal Lease:** A lease granted to a mining company to produce coal from Indian lands in exchange for royalties and other revenues; obtained by direct negotiation with the Indians, but subject to approval and administration by the U.S. Department of the Interior.

**Industrial Sector:** The industrial sector comprises manufacturing industries which make up the largest part of the sector, along with mining, construction, agriculture, fisheries, and forestry. Establishments in the sector range from steel mills, to small farms, to companies assembling electronic components. The NAICS codes used to classify establishments as industrial are 331 through 339.

**Interquartile Range:** The interquartile range is the range within which the middle 50 percent of observations are concentrated. See Appendix D, Section "Interquartile Range."

**Jet Fuel:** The term includes kerosene-type jet fuel and naphtha-type jet fuel. Kerosene-type jet fuel is a kerosene-quality product used primarily for commercial turbojet and turboprop aircraft engines. Naphtha-type jet fuel is a fuel in the heavy naphtha range used primarily for military turbojet and turboprop aircraft engines.

**Lease Condensate:** A natural gas liquid recovered from gas well gas (associated and non-associated) in lease separators or natural gas field facilities. Lease condensate consists primarily of pentane and heavier hydrocarbons.

**Lignite:** A brownish-black coal of low rank with high inherent moisture and volatile matter (used almost exclusively for electric power generation). Similar coal in Europe and Australia are also referred to as brown coal. Lignite comprises two groups classified according to the following ASTM Specification D-388-91a for calorific values on a moist mineral-matter-free basis:

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

GE = Greater than or equal to  
LT = Less than  
Lignite is non-agglomerating.

**Lignite A:** See Lignite.

**Lignite B:** See Lignite.

**Longwall Mining:** A form of underground coal mining which is gaining in importance in the United States and can be used at greater depths than room-and-pillar mining. In longwall mining, a cutting machine is pulled back and forth across a panel of coal 300 to 600 feet wide and as much as a mile long, with the broken coal moved by conveyor. Longwall mining is done under movable roof supports that are advanced as the bed is cut. The roof in the mined-out area is allowed to fall as the mining advances.

**Low-Volatile Bituminous Coal:** See Bituminous Coal.

**Major Coal-Producing States:** Any State that produces more than 12 million short tons of coal during the year.

**Manufacturing (except coke plants):** Those industrial users/plants, not including coke plants, that are engaged in the mechanical or chemical transformation of materials or substances into new (i.e., finished or semifinished) products. Includes coal used for gasification/liquefaction.

**Medium-Volatile Bituminous Coal:** See Bituminous Coal.

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

**Meta-Anthracite:** See Anthracite.

**Metallurgical Coal:** Coal that meets the requirements for making coke. It must be low in ash and sulfur 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.

**Mine Type:** See Surface Mine and Underground Mine.

**Mineral-Matter-Free Basis:** Mineral matter in coal is the parent material in coal from which ash is derived, and which comes from minerals present in the original plant materials that formed the coal, or from extraneous sources such as sediments and precipitates from mineralized water is called the mineral matter. Mineral matter in coal cannot be analytically determined and is commonly calculated using data on ash and ash-forming constituents. Coal analyses are calculated to the mineral-matter-free basis by adjusting formulas used in calculations in order to deduct the weight of mineral matter from the total coal.

**Moist (Coal) Basis:** "Moist" coal contains its natural inherent or bed moisture, but does not include water adhering to the surface. Coal analyses expressed on a moist basis are performed or adjusted so as to describe the data when the coal contains only that moisture which exists in the bed in its natural state of deposition, and when the coal has not lost any moisture due to drying.

**NAICS:** See North American Industry Classification System

**Naphtha:** A genetic term applied to a petroleum fraction with an approximate boiling range between 122 and 400 degrees Fahrenheit.

**Natural Gas:** A mixture of hydrocarbons and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

**Natural Gas (Dry):** The marketable portion of natural gas production, which is obtained by subtracting extraction losses, including natural gas liquids removed at natural gas processing plants, from total production.

**Natural Gas Plant Liquids (NGPL):** Natural gas liquids recovered from natural gas in processing plants and, in some situations, from natural gas field facilities, as well as those extracted by fractionators. Natural gas plant liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Materials as follows: ethane, propane, normal butane, isobutane, pentane plus, and other products from natural gas processing plants (i.e., products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphtha, kerosene, distillate fuel oil, and miscellaneous products).

**Nitrogen Oxide:**  $NO_x$ . A gas formed in high-temperature environments when nitrogen and oxygen are present together. This typically occurs in a combustion chamber such as those in fossil-fuel burning electric utilities. Nitrogen oxide emissions are a contributor to acid rain.

**Nominal Price:** The price paid for a product or service at the time of the transaction. The nominal price, which is expressed in current dollars, is not adjusted to remove the effect of changes in the purchasing power of the dollar.

**Nonutility Power Producers:** A corporation, person, agency, authority, or other legal entity or instrumentality that owns electric generating capacity and is not an electric utility. Nonutility power producers include qualifying cogenerators, qualifying small-power producers, and other nonutility generators (including independent power producers) without a designated franchised service area and which do not file forms listed in the Code of Federal Regulations, Title 18, Part 141. (See Electric Utility.)

**North American Industry Classification System (NAICS):** A standardized set of codes which categorizes industries into groups with similar economic activities, used by the U.S., Canada, and Mexico. The NAICS codes replace the SIC codes.

**Nuclear Electric Power:** Electricity generated by an electric power plant whose turbines are driven by steam generated in a reactor by heat from the fissioning of nuclear fuel.

**Number of Mines:** The number of mines, or mines collocated with preparation plants or tipplés, located in a particular geographic area (State or region). If a mine is mining coal across two counties within a State, or across two States, then it is counted as two operations. This is done so that EIA can separate production by State and county.

**Number of Mining Operations:** The number of mining operations includes preparation plants with greater than 5,000 total direct labor hours. Mining operations that consist of a mine and preparation plant or a preparation plant only will be counted as two operations, if the preparation plant processes both underground and surface coal. Excluded are silt, culm, refuse bank, slurry dam, and dredge operations except for Pennsylvania anthracite. Excludes mines producing less than 10,000 short tons of coal during the year, and preparation plants with less than 5,000 employee hours.

**Open Market Coal:** Coal sold in the open market, i.e., coal sold to companies other than the reporting company's parent company or an operating subsidiary of the parent company.

**Operating Subsidiary:** A company which is controlled through the ownership of voting stock, or a corporate joint venture in which a corporation is owned by a small group of businesses as a separate and specific business or project for the mutual benefit of the members of the group.

**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.

**Other Power Producers:** This sector is comprised of coal-burning facilities that generate power but are not covered by the EIA survey form EIA-759.

**Other Unions:** See Union Type.

**Overburden:** Any material, consolidated or unconsolidated, that overlies a coal deposit.

**Parent Company:** A company which solely or jointly owns the reporting company and which is not itself a subsidiary of, or owned by, another company.

**Percent Utilization:** The ratio of total production to productive capacity, times 100.

**Petroleum:** Petroleum includes residential and distillate fuel oils, crude oil, and all other petroleum fuels, excluding petroleum coke.

**Petroleum Coke:** A residue that is the final product of the condensation process in cracking. The product is either marketable petroleum coke or catalyst petroleum coke.

**Petroleum Products:** Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentane plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphtha, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

**Photovoltaic and Solar Thermal Energy (as used at electric utilities):** Energy radiated by the sun as electromagnetic waves (electromagnetic radiation) that is converted at electric utilities into electricity by means of solar (photovoltaic) cells or concentrating (focusing) collectors.

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

**Producer and Distributor Coal Stocks:** Producer and distributor coal stocks consist of coal held in stock by producers/distributors at the end of a reporting period.

**Productive Capacity:** The maximum amount of coal that a mining operation can produce or process during a period with the existing mining equipment and/or preparation plant in place, assuming that the labor and materials sufficient to utilize the plant and equipment are available, and that the market exists for the maximum production.

**Quadrillion Btu:**  $10^{15}$  Btu.

**Real Price:** A price that has been adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices, which are expressed in constant dollars, usually reflect buying power relative to a base year.

**Recoverable Coal Reserves at Mines:** The quantity of coal that can be recovered (i.e., mined) from existing coal reserves, as reported on Form EIA-7A.

**Recoverable Reserves of Coal:** An estimate of the amount of coal that can be recovered (mined) from the accessible reserves of the demonstrated reserve base.

**Recovery Percentage:** The percentage of coal that can be recovered from the coal deposits at existing mines.

**Refuse Bank:** A repository for waste material generated by the coal cleaning process.

**Refuse Mine:** A surface mine where coal is recovered from previously mined coal. It may also be known as a silt bank, culm bank, refuse bank, slurry dam, or dredge operation.

**Report Year:** The calendar year beginning at 12:00 a.m. January 1 and ending at 11:59 p.m. December 31.

**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).

**Residual Fuel Oil:** The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

**Room-and-Pillar Mining:** The most common method of underground mining in which the mine roof is supported mainly by coal pillars left at regular intervals. Rooms are places where the coal is mined; pillars are areas of coal left between the rooms. Room-and-pillar mining is done either by conventional or continuous mining.

**Royalties:** Payments, in money or kind, of a stated share of production from mineral deposits, by the lessee to the lessor. Royalties may be an established minimum, a sliding-scale, or a step-scale. A step-scale royalty rate increases by steps as the average production on the lease increases. A sliding-scale royalty rate is based on average production and applies to all production from the lease.

**Sales Volume:** The reported output from Federal and/or Indian lands, the basis of royalties. It is approximately equivalent to production, which includes coal sold, and coal added to stockpiles.

**Scoop Loading:** An underground loading method by which coal is removed from the working face by a tractor unit equipped with a hydraulically operated bucket attached to the front; also called a front-end loader.

**Semianthracite:** See Anthracite.

**Shaft Mine:** An underground mine that reaches the coalbed by means of a vertical shaft. In addition to the passages providing entry to the coalbed, a network of

other passages are also dug, some to provide access to various parts of the mine and some for ventilation.

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

**Shortwall Mining:** A form of underground mining that involves the use of a continuous mining machine and movable roof supports to shear coal panels 150 to 200 feet wide and more than half a mile long. Although similar to longwall mining, shortwall mining is generally more flexible because of the smaller working area. Productivity is lower than with longwall mining because the coal is hauled to the mine face by shuttle cars as opposed to conveyors.

**SIC:** See Standard Industrial Classification.

**Silt:** Waste from Pennsylvania anthracite preparation plants, consisting of coarse rock fragments containing as much as 30 percent small-sized coal; sometimes defined as including very fine coal particles called silt. Its heat value ranges from 8 to 17 million Btu per short ton. Synonymous with culm.

**Silt, Culm Refuse Bank, or Slurry Dam Mining:** A mining operation producing coal from these sources of coal. (See refuse mine.)

**Slope Mine:** An underground mine in which the entry is driven at an angle to reach the coal deposit.

**Slurry Dam:** A repository for the silt or culm from a preparation plant.

**Solar Energy:** The radiant energy of the sun, which can be converted into other forms of energy, such as heat or electricity.

**Solar Thermal Collector:** A device designed to receive solar radiation and convert it into thermal energy. Normally, a solar thermal collector includes a frame, glazing, and an absorber, together with appropriate insulation. The heat collected by the solar thermal collector may be used immediately or stored for later use.

**Standard Industrial Classification (SIC):** A set of codes developed by the Office of Management and Budget which categorizes industries to groups with similar economic activities. The SIC codes have been replaced by the North American Industry Classification System (NAICS).

**Steam Coal:** All noncoking coal.

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

**Strategic Petroleum Reserve (SPR):** Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

**Strip (Surface) Mining:** A method used on flat terrain to recover coal by mining long strips successively. The material excavated from the strip being mined is deposited in the strip previously mined.

**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 D-388-91a on a moist mineral-matter-free basis:

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

GE = Greater than or equal to

LT = Less than

Subbituminous coal is non-agglomerating.

**Subbituminous A Coal:** See Subbituminous Coal.

**Subbituminous B Coal:** See Subbituminous Coal.

**Subbituminous C Coal:** See Subbituminous Coal.

**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 1 percent), medium (greater than 1 percent and less than or equal to 3 percent), and high (greater than 3 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.

**Sulfur Dioxide:**  $SO_2$ . A caustic, corrosive gas that is a by-product of combustion and emissions from fossil-fuel burning electric utility plants. The primary agent in the production of acid rain.

**Supplemental Gaseous Fuels:** Any gaseous substance that, introduced into or commingled with natural gas, increases the volume available for disposition. Such substances include, but are not limited to, propane-air, refinery gas, coke oven gas, still gas, manufactured gas, biomass gas, or air or inert gases added for Btu stabilization.

**Surface Mine:** A coal-producing mine that is usually within a few hundred feet of the surface. Earth and rock 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.

**Tipple:** A central facility used in loading coal for transportation by rail or truck.

**Transportation Sector:** The transportation sector consists of private and public vehicles that move people and commodities. Included are automobiles, trucks, buses, motorcycles, railroads and railways (including streetcars), aircraft, ships, barges, and natural gas pipelines.

**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).

**Unfinished Oils:** All oils requiring further refinery processing, except those requiring only mechanical blending. Includes naphtha and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

**Union Type:** Union type consists of United Mine Workers of America (UMWA), and the following "Other Union" types: Southern Labor Union (SLU), Appalachian Miners of America (AMA), Scotia Employees Association (SEA), International Union of Operating Engineers (IUOE), Utility Workers of America (UWA), Progressive Mine Workers Association (PMWA), International Brotherhood of Electrical Workers (IBEW), International Chemical Workers Union (ICWU), Redstone Workers Association (RWA), Chariton Valley Independent Union (CVIU), American Federation of Labor - Congress of Industrial Organization (AFL-CIO), Labors International (LABO), Crow Hollow Miners (CROW), Coal Strippers (COAL), United Steel Workers (USW), Independent Miners Association (IMA), Independent Union (INUN), Independence Miners, Brokers, and Truckers Association (IMBT), Council of Southern Mountains (CSM), International Brotherhood of Teamsters, Chauffeurs, Warehousemen and Helpers Union (TEAM), Thompson Creek Workers Association (TCWA), United Brotherhood of Clay Workers (UBCW), Wilmot Employees Independent Union (WEIU), Independent Strip Miners Union (ISMU), Independent Miners (IM), Independent Workers (IW), Coal Strippers Union (CSU), Independent Miners Union (IMU), Independent Coal Workers (ICW),

Independent Strip Mining Workers (ISMW), Independent Strip Union (ISU), Association of Bituminous Contractors (ABC), Arch Minerals Employees Association (AMEA), United Paperworkers International Union (UPIU), Welch Miners Union (WMU), Falcon Coal Employees Association (FCEA), Justus Employees Association (JEA), International Construction Union (ICU), Brotherhood of Miners (BOM), Western Energy Workers (WEW), Carlin Independent Union (CIU), International Association of United Workers Union (IAWU), and Stove, Furnace and Allied Appliance Workers International Union of N. A. (SFAW).

**U.S. Coal Exports:** Amount of U.S. coal shipped to foreign destinations, as reported in the U.S. Department of Commerce, Bureau of Census, "Monthly Report EM 545."

**U.S. Coal Imports:** Amount of foreign coal shipped to the United States, as reported in the U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145."

**Wind Energy (as used at electric utilities):** The kinetic energy of wind converted at electric utilities into mechanical energy by wind turbines (i.e., blades rotating from the hub) that drive generators to produce electricity for distribution.

**Wood and Waste (as used at electric utilities):** Wood energy, garbage, bagasse, sewerage gas, and other industrial, agricultural, and urban refuse used to generate electricity for distribution.

**Volatile Matter:** Those products, exclusive of moisture, given off by a material as gas or vapor. Volatile matter is determined by heating the coal to 950 degrees centigrade under carefully controlled conditions and measuring the weight loss, excluding weight of moisture driven off at 105 degrees Centigrade.