



NATIONAL MINING ASSOCIATION

1999 COAL PRODUCER SURVEY

June 2000

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Coal Industry Trends

Production in 1999 marks the sixth consecutive year in which U.S. coal output topped 1 billion tons. Coal production was 1,094 million short tons in 1999 according to the Energy Information Administration (EIA) preliminary estimate, (Table 1). This was 23 million tons (2%) less than 1998, but still 149 million tons (15.7%) more than the earlier part of this decade (1993). Production East of the Mississippi River was 527.3 million tons or 48.2 percent of total. In the West, production reached a record of 566.7 million tons, 51.8 percent of production, (Figure 1). The small decrease in production (essentially all eastern production) this year resulted from the substantial drop in U.S. coal exports and slightly lower coal use due to record nuclear generation levels combined with mild weather.

1999's continuing shift toward coal production in the region west of the Mississippi River is being driven by electric utility demand requirements for low sulfur coal as the utilities prepared to meet Phase II emissions requirements of the Clean Air Act which went in to effect January 1, 2000. Production in the eastern part of the U.S. is primarily from underground operations (about 65% of eastern production) located in the Appalachian region. The general trend throughout the industry continues to be toward larger, more efficient mines. In general, EIA data indicate that the coal industry's productivity level, as measured in tons per miner per hour has more than doubled since 1985 (Table 7). This is attributed to the expansion of output in the highly productive large surface mines in the west, and the greater use of longwall and continuous mining methods in underground mines.

Coal Industry Consolidation and Sales Activity

1999 was a less active year than 1998 for coal company consolidation. Cyprus Amax completed the sale of its coal holdings to Germany's RAG International Mining in June of 1999. James River Coal acquired Shamrock Coal from Sun Coal. Beacon Group LLC took Alliance Coal (formerly MAPCO) public in 1999 by forming Alliance Resource Partners.

According to the Energy Information Administration and industry experts, coal company consolidation is a trend that is expected to continue.

The 1999 Major Coal Producing Companies

In 1999, The Peabody Group was the largest coal producer in the United States with output (including sales) of 179.2 million short tons, 16.4 percent of total U.S. coal production. The second largest was Arch Coal, Inc. with 121.4 million tons, 11.1 percent of total U.S. coal production. The third was Kennecott Energy Company with 120.1 million tons, 11 percent of U.S. production, and the fourth largest coal producer, CONSOL Energy Inc., had output of 73.1 million tons, 6.7 percent of U.S. production.

Table 2, compiled by National Mining Association (NMA) from data supplied by its recent survey of the major coal producers, shows 1999 production for 46 major coal companies in the United States. Foreign coal production (production outside the U.S.) was not included in the tables in this report, but was only reported this year by 3 of the 46 companies surveyed. The top ten coal producing companies listed in this survey account for approximately 66 percent of total U.S. production, up from 62 percent in 1998.

The 1999 Major U.S. Coal Mines (Tables 3 - 5)

According to the 1999 survey, the top four underground mines were (1) the Enlow Fork Mine in Pennsylvania (CONSOL Pennsylvania Coal Company), (2) Twentymile Mine in Colorado (Twentymile Coal Company), (3) Bailey Mine in Pennsylvania (CONSOL Pennsylvania Coal Company), and (4) the West Elk Mine in Colorado (Arch Coal, Inc.). The four largest surface mines in 1999 were the North Antelope/Rochelle Mine (Peabody's Powder River Coal Company), Black Thunder Mine (Arch Coal, Inc.), Cordero Mine (Kennecott Energy Company), and Jacobs Ranch Mine (Kennecott Energy Company), all located in Wyoming's Powder River Basin region. A list of major underground and surface operations is found in Tables 3 and 4. Table 5 shows the 1999 output of major multi-mine production complexes.

The 1999 Major U.S. Coal Reserve Holders (Table 6)

Based on the Bureau of Land Management's estimation that the Federal government holds about one-third ownership of the nation's coal resources, the U.S. government holds the most coal reserves with approximately 91.7 billion short tons of estimated recoverable coal reserves. The Great Northern Limited Partnership reported the second largest reserve holding with 20 billion tons. Third, is the Peabody Group with 10 billion tons. Fourth and fifth is CONSOL Energy Inc., and Arch Coal, Inc. with 4.7 billion tons and 3.4 billion tons, respectively. Table 6 ranks the top holders of U.S. coal reserves.

Survey Methodology

Coal producers are asked to provide their company's total U.S. coal production and production including sales tonnage, foreign production (not included in Table 2), and reserve holdings for the calendar year past, in this case, 1999. They also are asked to name their mines and output using the following criteria: surface mines, production of 2 million tons or greater; underground mines, production of 1 million tons or greater; and any multi-mine production complex with output of more than 1 million tons. A multi-mine production complex is defined as a facility which is not a single mine, but one that processes production from more than one mine. Every effort was made to include as many coal producers as possible, whether or not a National Mining Association (NMA) member. A total of 47 coal companies were surveyed, of which 46 responded. A copy of the survey form is appended to this report. Individual survey responses are kept confidential.

Notes: The production figures reported in this survey reflect ownership of mine production as of the end of calendar year 1999. Companies not included in the list are encouraged to submit data for next year. The National Mining Association has conducted a survey of major coal producers since the 1980's. The results of prior surveys can be found in earlier editions of NMA's *Facts About Coal* and *Coal Data* publications.

TABLE 1

**U.S. Coal Production by State, 1992 - 1999
(Thousand Short Tons)**

State	1992	1993	1994	1995	1996	1997	1998	1999 p/
East:								
Alabama	25,796	24,768	23,266	24,640	24,637	24,468	23,013	19,499
Illinois	59,857	41,098	52,797	48,180	46,656	41,159	39,732	40,379
Indiana	30,466	29,295	30,927	26,007	29,670	35,497	36,803	34,004
Kentucky	161,068	156,299	161,642	153,739	152,425	155,853	150,295	139,400
Eastern	119,382	120,191	124,447	118,541	116,951	120,918	116,654	109,818
Western	41,686	36,108	37,195	35,198	35,474	34,936	33,641	29,583
Maryland	3,341	3,355	3,632	3,667	4,093	4,160	4,060	3,837
Mississippi	0	0	0	0	0	0	0	18
Ohio	30,403	28,816	29,897	26,118	28,572	29,154	28,048	22,485
Pennsylvania	68,981	59,700	62,237	61,576	67,942	76,198	81,036	76,341
Bituminous	65,498	55,394	57,616	56,893	63,190	71,520	75,805	71,527
Anthracite	3,483	4,306	4,621	4,682	4,751	4,678	5,231	4,814
Tennessee	3,476	3,047	2,987	3,221	3,651	3,300	2,696	3,037
Virginia	43,024	39,317	37,129	34,099	35,590	35,837	33,747	31,934
West Virginia	<u>162,164</u>	<u>130,525</u>	<u>161,776</u>	<u>162,997</u>	<u>170,433</u>	<u>173,743</u>	<u>171,145</u>	<u>156,354</u>
Total East	<u>588,576</u>	<u>516,220</u>	<u>566,289</u>	<u>544,246</u>	<u>563,668</u>	<u>579,369</u>	<u>570,575</u>	<u>527,289</u>
West:								
Alaska	1,534	1,601	1,567	1,698	1,481	1,450	1,344	1,565
Arizona	12,512	12,173	13,056	11,947	10,442	11,723	11,315	11,787
Arkansas	58	44	51	28	21	18	24	22
California	103	0	0	0	0	0	0	0
Colorado	19,226	21,886	25,304	25,710	24,886	27,449	29,631	29,989
Iowa	289	175	46	0	0	0	0	0
Kansas	363	341	284	285	232	360	341	409
Louisiana	3,240	3,134	3,463	3,719	3,221	3,545	3,216	2,953
Missouri	2,886	653	838	548	710	401	372	392
Montana	38,889	35,917	41,640	39,451	37,891	41,005	42,840	41,102
New Mexico	24,549	28,268	28,041	26,813	24,067	27,025	28,597	29,756
North Dakota	31,744	31,973	32,286	30,112	29,861	29,580	29,912	30,274
Oklahoma	1,741	1,758	1,911	1,876	1,701	1,621	1,661	1,661
Texas	55,071	54,567	52,346	52,684	55,164	53,328	52,583	53,072
Utah	21,339	21,847	24,399	25,167	27,507	26,683	26,075	24,675
Washington	5,251	4,739	4,893	4,868	4,565	4,495	4,638	4,100
Wyoming	<u>190,172</u>	<u>210,129</u>	<u>237,092</u>	<u>263,822</u>	<u>278,440</u>	<u>281,881</u>	<u>314,409</u>	<u>334,948</u>
Total West	<u>408,967</u>	<u>429,205</u>	<u>467,217</u>	<u>488,728</u>	<u>500,188</u>	<u>510,563</u>	<u>546,958</u>	<u>566,705</u>
Appalachian	456,565	409,718	445,370	434,861	451,868	467,778	460,400	423,303
Interior	195,659	167,174	179,858	168,526	172,848	170,863	168,374	162,492
Western	345,321	368,532	408,276	429,587	439,140	451,291	488,762	508,197
Grand Total	997,545	945,425	1,033,504	1,032,974	1,063,856	1,089,932	1,117,535	1,093,993

Note: Data include mines producing less than 10,000 short tons/year.
p/ Coal Production for 1999 is preliminary.

Source: [U.S. Department of Energy/Energy Information Administration](http://www.eia.doe.gov)

TABLE 2

**Major U.S. Coal Producers - 1999
(Million Short Tons)**

Company	Tonnage	Pct. Of Total U.S.
1. The Peabody Group ¹	179.2	16.4%
2. Arch Coal, Inc.	121.4	11.1%
3. Kennecott Energy Company ²	120.1	11.0%
4. CONSOL Energy Inc.	73.1	6.7%
5. RAG American Coal Holding, Inc.	59.2	5.4%
6. AEI Resources Inc. (Addington Enterprises, Inc.)	47.4	4.3%
7. A.T. Massey Coal Company, Inc.	38.8	3.5%
8. The North American Coal Corporation	31.2	2.9%
9. Texas Utilities Mining Company (TUMCO)	28.6	2.6%
10. Triton Coal Company, LLC	23.8	2.2%
11. PacificCorp (Interwest Mining)	21.0	1.9%
12. Western Energy Company ⁵	19.5	1.8%
13. James River Coal Company	17.3	1.6%
14. BHP Minerals	15.9	1.5%
15. Kiewit Mining Group, Inc. ⁴	15.7	1.4%
16. The Pittsburg & Midway Coal Mining Company ³	15.2	1.4%
17. Alliance Resource Partners (formerly MAPCO)	14.4	1.3%
18. Pittston Coal Company	10.6	1.0%
19. Lodestar Energy Inc.	9.1	0.8%
20. Northwestern Resources Co.	8.9	0.8%
21. American Electric Power	7.2	0.7%
22. ANR Coal Company, LLC (Coastal Coal Co.)	7.2	0.7%
23. American Coal Company	6.5	0.6%
24. Drummond Company, Inc.	6.3	0.6%
25. Aluminum Company of America (ALCOA Inc.)	6.2	0.6%
26. Jim Walter Resources, Inc.	6.2	0.6%
27. U.S. Steel Mining Company LLC	6.0	0.6%
28. Anker Coal Group, Inc.	5.5	0.5%
29. Westmoreland Coal Company	5.5	0.5%
30. AMVEST Minerals Company LLC	5.2	0.5%
31. The Ohio Valley Coal Company	4.4	0.4%
32. Andalex Resources, Inc.	3.5	0.3%
33. Knife River Corporation	3.2	0.3%
34. Exxon Mobil Coal and Minerals Company	3.1	0.3%
35. Maple Creek Mining, Inc.	2.6	0.2%
36. Western Fuels Association, Inc.	2.3	0.2%
37. Dolet Hills Mining Venture	2.2	0.2%
38. Trapper Mining Inc.	2.2	0.2%
39. KenAmerican Resources, Inc.	1.8	0.2%
40. Usibelli Coal Mine, Inc.	1.4	0.1%
41. Canterbury Coal Company	1.3	0.1%
42. Phillips Coal Company	1.2	0.1%
43. Sun Coke Company	1.1	0.1%
44. PennAmerican Coal LP	0.6	0.1%
45. Energy Resources, Inc.	0.5	0.0%
46. Cravat Coal Company	0.3	0.0%
Other Producers	<u>130.1</u>	<u>11.9%</u>
Total U.S. Production	1,094.0	100.0%

Notes: Figures are rounded. 1999 data compiled from 2000 NMA survey of major producers. May not be all-inclusive. Any companies not included in this listing are invited to submit data for the next edition. U.S. production Total for 1999 is an EIA preliminary estimate.

¹ Peabody Group production figure includes sales tonnage (production not reported).

² Kennecott Energy Includes 50% ownership (tonnage) of Decker Mine.

³ Pittsburg & Midway production figure includes one-third ownership of Black Beauty Coal Co. production.

⁴ Kiewit production figure includes 100% of Decker, Black Butte, and Walnut Creek mine tonnage.

⁵ Western Energy production figure includes 100% of Northwest Resources tonnage.

TABLE 3**Major U.S. Underground Coal Mines - 1999
(Million Short Tons)**

	Mine Name	Location	Tonnage	Operating Company
1.	Enlow Fork	Pennsylvania	9.8	CONSOL Pennsylvania Coal Company
2.	Twentymile	Colorado	8.6	Twentymile Coal Company
3.	Bailey	Pennsylvania	8.5	CONSOL Pennsylvania Coal Company
4.	West Elk	Wyoming	7.1	Arch Coal, inc.
5.	McElroy	West Virginia	7.0	McElroy Mining Company
6.	Mountaineer	West Virginia	6.7	Arch Coal, inc.
7.	Galatia	Illinois	6.5	The American Coal Co.
8.	Cumberland	Pennsylvania	6.4	RAG Cumberland Resources Corp.
9.	Eighty-Four Mine	Pennsylvania	5.8	Eighty-Four Mining Co.
10.	SUFCO	Utah	5.8	Canyon Fuel Company
11.	Baker	Kentucky	5.7	Lodestar Energy, Inc.
12.	Robinson Run	West Virginia	5.3	Consolidation Coal Company
13.	Upper Big Branch	West Virginia	5.1	A.T. Massey Coal Co., Inc.
14.	Shoal Creek	Alabama	4.8	Drummond Company, Inc.
15.	Buchanan	Virginia	4.7	Consolidation Coal Company
16.	Blacksville #2	West Virginia	4.6	Consolidation Coal Company
17.	Federal No. 2	West Virginia	4.5	Peabody Group Subsidiary
18.	Powhatan No. 6	Ohio	4.4	The Ohio Valley Coal Co.
19.	Shoemaker	West Virginia	4.4	Consolidation Coal Company
20.	Emerald	Pennsylvania	4.3	RAG Emerald Resources Corp.
21.	Pinnacle (Gary No. 50)	West Virginia	3.9	U.S. Steel Mining Co.
22.	Trail Mountain	Utah	3.9	Energy West Mining Co.
23.	Crandall Canyon	Utah	3.8	Genwal Resources, Inc.
24.	Deer Creek	Utah	3.8	Energy West Mining Co.
25.	Dilworth	Pennsylvania	3.8	Consolidation Coal Company
26.	Rend Lake	Illinois	3.8	Consolidation Coal Company
27.	Skyline	Utah	3.8	Canyon Fuel Company
28.	Camp No. 11	Kentucky	3.6	Peabody Group Subsidiary
29.	Dotiki	Kentucky	3.6	Webster County Coal LLC
30.	Monterey No. 1	Illinois	3.1	Monterey Coal Co.
31.	Camp No. 1	Kentucky	3.0	Peabody Group Subsidiary
32.	Harris No. 1	West Virginia	3.0	Peabody Group Subsidiary
33.	Mettiki	Maryland	2.8	Mettiki Coal LLC
34.	Maple Creek	Pennsylvania	2.6	Maple Creek Mining, Inc.
35.	Mine # 11	Indiana	2.5	Old Ben Mining
36.	Conant	Illinois	2.4	Arch Coal, Inc
37.	Meigs No. 31	Ohio	2.4	AEP
38.	North River	Alabama	2.4	The Pittsburg & Midway Coal Mining Co.
39.	Marissa	Illinois	2.3	Peabody Group Subsidiary
40.	Pattiki	Illinois	2.3	White County Coal LLC
41.	Turris	Illinois	2.3	Turris Coal Company
42.	Rockspring	West Virginia	2.2	Riverton Coal Production
43.	Meigs No. 2	Ohio	2.1	AEP
44.	No. 7	Alabama	2.1	Jim Walter Resources
45.	Stockton	Kentucky	2.1	Cannelton Inc.
46.	Oak Grove	Alabama	2.1	U.S. Steel Mining Co.
47.	No. 4	Alabama	2.0	Jim Walter Resources
48.	Bowie No. 1	Colorado	1.8	Bowie Resources
49.	Justice	West Virginia	1.8	A.T. Massey Coal Co., Inc.
50.	Paradise	Kentucky	1.8	KenAmerican Resources, Inc.

(Continued)

TABLE 3**Major U.S. Underground Coal Mines - 1999
(Million Short Tons)**

	Mine Name	Location	Tonnage	Operating Company
51.	No. 5	Alabama	1.7	Jim Walter Resources
52.	Shoshone	Wyoming	1.7	RAG Shoshone Coal Corp.
53.	Windsor	West Virginia	1.6	Windsor Coal Co.
54.	Aberdeen	Utah	1.5	Andalex Resources, Inc.
55.	Cardinal #2	Kentucky	1.5	Roberts Bros. Coal Co.
56.	Freedom	Kentucky	1.5	A.T. Massey Coal Co., Inc.
57.	Laurel Creek	West Virginia	1.5	Riverton Coal Production
58.	Pioneer	West Virginia	1.5	Riverton Coal Production
59.	Big Mountain No. 16	West Virginia	1.4	Peabody Group Subsidiary
60.	Solid Energy	Kentucky	1.4	A.T. Massey Coal Co., Inc.
61.	VP #8	Virginia	1.4	Island Creek Coal Company
62.	DiAnne	Pennsylvania	1.3	Canterbury Coal Co.
63.	Huff Creek	Kentucky	1.3	Arch Coal, Inc
64.	Wabash	Illinois	1.3	Wabash Mine Holding Co.
65.	Clean Energy	Kentucky	1.2	A.T. Massey Coal Co., Inc.
66.	Spruce Mine #1	West Virginia	1.2	Anker West Virginia Mining Co., Inc.
67.	Black Knight	West Virginia	1.1	A.T. Massey Coal Co., Inc.
68.	Hopkins Island	Kentucky	1.1	Hopkins County Coal LLC
69.	Loveridge	West Virginia	1.1	Consolidation Coal Company
70.	Plateau	Utah	1.1	Plateau Mining Corp.
71.	Whitetail	West Virginia	1.1	Coastal Coal-West Virginia, LLC
72.	Darby Fork	Kentucky	1.0	Arch Coal, Inc
73.	Lightfoot No. 2	West Virginia	1.0	Peabody Group Subsidiary
74.	White Knight	West Virginia	1.0	A.T. Massey Coal Co., Inc.
75.	Mahoning Valley	Ohio	0.8	Consolidation Coal Company
76.	Brushy Creek	Illinois	0.7	Bushy Creek Coal Co.
77.	Burrell	Pennsylvania	0.6	PennAmerican Coal LP
78.	Powhatan No. 4	Ohio	0.5	Quarto Mining Company
79.	Ohio No. 11	Kentucky	0.4	Island Creek Coal Company

Note: Figures are rounded. 1999 data compiled from 2000 NMA survey of major producers.

May not be all-inclusive. Any companies not included in this listing are invited to submit data for the next edition.

TABLE 4**Major U.S. Surface Coal Mines - 1999
(Million Short Tons)**

	Mine Name	Location	Tonnage	Operating Company
1.	North Antelope/Rochelle	Wyoming	69.4	Peabody Group Subsidiary
2.	Black Thunder	Wyoming	50.9	Arch Coal, Inc.
3.	Cordero	Wyoming	45.7	Kennecott Energy Co.
4.	Jacobs Ranch	Wyoming	29.1	Kennecott Energy Co.
5.	Caballo	Wyoming	26.7	Peabody Group Subsidiary
6.	Antelope	Wyoming	22.7	Kennecott Energy Co.
7.	Belle Ayr	Wyoming	17.9	Amax Coal West, Inc.
8.	Eagle Butte	Wyoming	17.4	Amax Coal West, Inc.
9.	Freedom	North Dakota	16.3	The Coteau Properties Co.
10.	Buckskin	Wyoming	15.6	Triton Coal Co., LLC
11.	Martin Lake	Texas	14.0	Texas Utilities Mining Company
12.	Coal Creek	Wyoming	11.4	Arch Coal, Inc.
13.	Spring Creek	Montana	11.0	Kennecott Energy Co.
14.	Decker ¹	Montana	10.9	Kiewit Mining Group, Inc.
15.	Rosebud	Montana	10.6	Western Energy Co.
16.	Monticello	Texas	9.7	Texas Utilities Mining Company
17.	Navajo	New Mexico	9.4	BHP
18.	Jewett	Texas	8.9	Northwestern Resources Co.
19.	Kayenta	Arizona	8.5	Peabody Group Subsidiary
20.	North Rochelle	Wyoming	8.2	Triton Coal Co., LLC
21.	Falkirk	North Dakota	7.2	The Falkirk Mining Company
22.	McKinley	New Mexico	7.2	The Pittsburg & Midway Coal Mining Co.
23.	Jim Bridger	Wyoming	6.3	Bridger Coal Co.
24.	Sandow	Texas	6.2	Aluminum Co. of America
25.	Samples	West Virginia	5.9	Arch Coal, Inc.
26.	Colowyo	Colorado	5.6	Kennecott Energy Co.
27.	Absaloka	Montana	5.5	Westmoreland Resources Inc.
28.	Big Brown	Texas	5.0	Texas Utilities Mining Company
29.	Lee Ranch	New Mexico	4.8	Peabody Group Subsidiary
30.	Black Mesa	Arizona	4.6	Peabody Group Subsidiary
31.	La Plata	New Mexico	4.5	BHP
32.	Kemmerer	Wyoming	4.3	The Pittsburg & Midway Coal Mining Co.
33.	Centralia	Washington	4.1	Centralia Mining Co.
34.	Job 21	West Virginia	3.9	Arch Coal, Inc.
35.	Strip # 2	West Virginia	3.9	Fola Coal Co. LLC
36.	S. Hallsville No. 1	Texas	3.6	The Sabine Mining Co.
37.	Twilight MTR (Progress)	West Virginia	3.6	A.T. Massey Coal Co., Inc.
38.	San Miguel	Texas	3.4	The North American Coal Corp.
39.	Ruffner	West Virginia	3.2	Arch Coal, Inc.
40.	Black Butte ²	Wyoming	3.1	Kiewit Mining Group, Inc.
41.	Dave Johnston	Wyoming	2.9	Glenrock Coal Co.
42.	Evergreen	West Virginia	2.9	Evergreen Mining
43.	Beulah	North Dakota	2.9	Knife River Corp.
44.	17 West	Kentucky	2.6	17 West Mining
45.	Big Sky	Montana	2.5	Peabody Group Subsidiary
46.	Lynnville	Indiana	2.3	Peabody Group Subsidiary
47.	Monoc	West Virginia	2.3	Vandalia Resources, Inc.
48.	Dolet Hills	Louisiana	2.2	Dolet Hills Mining Venture
49.	Hawthorn	Indiana	2.2	Peabody Group Subsidiary
50.	Trapper	Colorado	2.2	Trapper Mining Inc.
51.	Phoenix	West Virginia	2.2	Arch Coal, Inc.
52.	San Juan	New Mexico	2.1	BHP
53.	Old Hickory	West Virginia	2.0	Arch Coal, Inc.
54.	Walnut Creek ²	Texas	1.6	Kiewit Mining Group, Inc.
55.	Usibelli	Alaska	1.4	Usibelli Coal Mine Inc.
56.	Dry Fork	Wyoming	1.2	Dry Fork Coal Co.

Note: Figures are rounded. 1999 data compiled from a 2000 NMA survey of major producers.

May not be all-inclusive. Any companies not included in this listing are invited to submit data for the next edition.

¹ Mines jointly owned by Kiewit Mining Group, Inc. and Kennecott Energy Co. (50% each).

² Mine jointly owned by Kiewit Mining Group, Inc. (50%).

TABLE 5

**Major Multi-Mine Production Complexes - 1999
(Million Short Tons)**

	Complex Name	Location	Tonnage	Company
1.	N. Antelope/Rochelle	Wyoming	69.4	Peabody Group Subsidiary
2.	Bailey Complex	Pennsylvania	18.4	Consol PA Coal Co.
3.	Arizona	Arizona	13.0	Peabody Group Subsidiary
4.	Mingo Logan	West Virginia	12.2	Arch Coal, Inc.
5.	Leeco, Inc.	Kentucky	6.8	Leeco, Inc.
6.	Camp	Kentucky	6.6	Peabody Group Subsidiary
7.	Sidney	Kentucky	5.5	A.T. Massey Coal Co., Inc.
8.	Leslie Resources	Kentucky	5.2	AEI Resources, Inc.
9.	Hobet 21	West Virginia	5.1	Arch Coal, Inc.
10.	Nicolas-Clay	West Virginia	5.1	Fola, Terry Eagle
11.	Performance	West Virginia	5.1	A.T. Massey Coal Co., Inc.
12.	Addington Mining	Kentucky	4.8	AEI Resources, Inc.
13.	Elk Run	West Virginia	4.8	A.T. Massey Coal Co., Inc.
14.	Independence	West Virginia	4.8	A.T. Massey Coal Co., Inc.
15.	Arch of West Virginia	West Virginia	4.7	Arch Coal, Inc.
16.	Bledsoe	Kentucky	4.6	Bledsoe Coal Corporation
17.	Kindill Mining	Indiana	4.4	AEI Resources, Inc.
18.	McCoy Elkhorn	Kentucky	4.1	McCoy Elkhorn Coal Corporation
19.	Martin County	Kentucky	4.0	A.T. Massey Coal Co., Inc.
20.	Pike County	Kentucky	3.6	AEI Resources, Inc.
21.	Progress	West Virginia	3.6	A.T. Massey Coal Co., Inc.
22.	Toms Creek	Virginia	3.4	Coastal Coal Company, LLC
23.	Straight Creek	Kentucky	3.2	AEI Resources, Inc.
24.	Marrowbone Development	West Virginia	2.9	AEI Resources, Inc.
25.	Hopkins County Coal	Kentucky	2.6	Hopkins County Coal LLC
26.	Marfolk	West Virginia	2.6	A.T. Massey Coal Co., Inc.
27.	Jones Fork	Kentucky	2.5	Consol of Kentucky Inc.
28.	Arch of Illinois	Illinois	2.4	Arch Coal, Inc.
29.	Brooks Run	West Virginia	2.3	Coastal Coal-West Va., LLC
30.	Cannelton Industries	West Virginia	2.3	AEI Resources, Inc.
31.	Dal-Tex	West Virginia	2.3	Arch Coal, Inc.
32.	Lone Mountain	Kentucky/Virginia	2.3	Arch Coal, Inc.
33.	Rawl	West Virginia/Kentucky	2.3	A.T. Massey Coal Co., Inc.
34.	Big Mountain/Robin Hood	West Virginia	2.1	Peabody Group Subsidiary
35.	Dunn Coal & Dock	West Virginia	2.1	AEI Resources, Inc.
36.	Ramsey Prep. Plant	Virginia	2.1	Paramont Coal Corporation
37.	Alloy Barge Dock	West Virginia	2.0	Vandalia Resources
38.	Nicholas	West Virginia	1.9	A.T. Massey Coal Co., Inc.
39.	Bell County	Kentucky	1.8	Bell County Coal Corporation
40.	Excel (Formerly Pontiki)	Kentucky	1.8	Excel Mining, LLC
41.	Mill Creek	Kentucky	1.8	Consol of Kentucky Inc.
42.	McClure River Prep. Plant	Virginia	1.7	Clinchfield Coal Company
43.	Pardee	Kentucky/Virginia	1.7	Arch Coal, Inc.
44.	Winoc Prep. Plant	West Virginia	1.7	Vandalia Resources
45.	Keystone	Pennsylvania	1.6	Keystone Coal Mining Co.
46.	Princess Beverly	West Virginia	1.6	AEI Resources, Inc.
47.	Tower Division	Utah	1.6	Andalex Resources, Inc.
48.	Helvetia	Pennsylvania	1.5	Helvetia Coal Company
49.	Philippi Development	West Virginia	1.4	Anker West Virginia Mining Co. Inc.
50.	Spruce Fork	West Virginia	1.4	Anker West Virginia Mining Co. Inc.
51.	Roxana-Enterprise	Kentucky	1.3	Coastal Coal Co., LLC
52.	Campbells Creek	West Virginia	1.2	Arch Coal, Inc.
53.	Midwest	Kentucky	1.2	Peabody Group Subsidiary
54.	Arch of Wyoming	Wyoming	1.0	Arch Coal, Inc.
55.	Coal-Mac	Kentucky	1.0	Arch Coal, Inc.
56.	Moss No. 3 Prep. Plant	Virginia	1.0	Clinchfield Coal Company

Note: Figures are rounded. 1999 data compiled from 2000 NMA survey of major producers.
May not be all-inclusive. Any companies not included in this listing are invited to submit data for the next edition.

TABLE 6**Major Holders of U.S. Coal Reserves - 1999
(Billion Short Tons)**

	Holder	Estimated Reserves
1.	U.S. Government	91.700 *
2.	Great Northern Properties Limited Partnership	20.000
3.	Peabody Group	10.000
4.	CONSOL Energy Inc.	4.669
5.	Arch Coal, Inc. 1/	3.460
6.	A.T. Massey Coal Co., Inc.	2.100
7.	RAG American Coal Holding Inc.	2.016
8.	AEI Resources Inc. (Addington Enterprises, Inc.)	2.000
9.	The North American Coal Corporation	1.934
10.	Norfolk Southern Corp. (Pocahontas Land Corp.)	1.630
11.	Kennecott Energy Company	1.600
12.	Phillips Coal Company	1.600
13.	The Pittsburg & Midway Coal Mining Co.	1.450
14.	Drummond Company, Inc.	1.300
15.	Pittston Coal Company	1.200
16.	BHP Minerals	1.165
17.	Western Pocahontas Limited Partnership	1.000
18.	Triton Coal Company, LLC	0.732
19.	Western Energy Co. (includes Northwestern Res.)	0.709
20.	Texas Utilities Mining Company (TUMCO)	0.704
21.	Exxon Mobil Coal and Minerals Company	0.700
22.	Westmoreland Coal Company	0.617
23.	Kentucky River Coal Corp.	0.544
24.	ANR Coal Company, LLC (Coastal Co.)	0.537
25.	Aluminum Company of America (ALCOA Inc.)	0.530
26.	Anker Coal Group, Inc.	0.504
27.	Alliance Resources Partners (formerly MAPCO)	0.440
28.	Kiewit Mining Group, Inc.	0.420
29.	Lodestar Energy Inc.	0.419
30.	The American Coal Company	0.308
31.	Western Fuels Association, Inc.	0.302
32.	PacifiCorp (Interwest Mining)	0.254
33.	Usibelli Coal Mine, Inc.	0.250
34.	Jim Walter Resources, Inc.	0.190
35.	Knife River Corporation	0.170
36.	AMVEST Minerals Company LLC	0.150
37.	Trapper Mining Inc.	0.149
38.	U.S. Steel Mining Company, LLC	0.117
39.	Sun Coke Company	0.112
40.	Andalex Resources, Inc.	0.070
41.	KenAmerican Resources, Inc.	0.068
42.	The Ohio Valley Coal Company	0.054
43.	Canterbury Coal Company	0.042
44.	Maple Creek Mining, Inc.	0.017
45.	PennAmerican Coal LP	0.011
46.	Energy Resources, Inc.	0.005
47.	Pacific Coast Coal	0.002
48.	Cravat Coal Company	0.001
49.	American Electric Power	N/A
50.	Dolet Hills Mining Venture	N/A
51.	James River Coal Company	N/A

Note: 1999 data compiled from 2000 NMA survey of major producers. May not be all-inclusive.

Any companies not included in this listing are invited to submit data for the next edition.

* U.S. government total is an NMA calculation based on federal ownership of about one-third of the Nation's coal resources (Bureau of Land Management, 1993) and estimated recoverable reserves of 275 billion short tons (Energy Information Administration, 1997).

N/A Not Available. 1/ Includes 100% of Canyon Fuels Resources.

TABLE 7**U.S. Coal Mining Productivity
(Average Tons per Miner per Hour)**

Year	Underground	Surface	All Mines
1985	1.78	4.24	2.74
1986	2.00	4.60	3.01
1987	2.20	4.98	3.30
1988	2.38	5.32	3.55
1989	2.46	5.61	3.70
1990	2.54	5.94	3.83
1991	2.69	6.38	4.09
1992	2.93	6.59	4.36
1993	2.95	7.23	4.70
1994	3.19	7.67	4.98
1995	3.39	8.48	5.38
1996	3.57	9.05	5.69
1997	3.83	9.46	6.04
1997	3.84	9.85	6.22

Note: Data excludes mines producing less than 10,000 short tons/year.
Data latest available.

SOURCE: [Energy Information Administration](#), *Coal Industry Annual*.

**NATIONAL MINING ASSOCIATION
ANNUAL SURVEY OF COAL PRODUCTION AND RESERVES**

1999 - Information Request Sheet

Company Name: _____
Your Name and Phone #: _____

Please fax this form to Leslie Coleman: (202) 463-2666 or mail to: Leslie Coleman, National Mining Association, 101 Constitution Ave. Suite 500 E. N.W., Washington, D.C. 20001, telephone: (202) 463-9780, E-Mail: lcoleman@nma.org.

1. Your company=s total coal production for calendar year 1999:

U.S. Production: _____ Million Short Tons
U.S. Production Including Sales: _____ Million Short Tons
Foreign Production Excluding U.S. (If applicable): _____ Million Short Tons

2. Surface coal mines operated by your company or its subsidiaries with production for 1999 of 2 million tons or more:

Name of Mine	Location (State)	1999 Tonnage	Operating Company

3. Underground coal mines operated by your company or its subsidiaries with production for 1999 of 1 million tons or more:

Name of Mine	Location (State)	1999 Tonnage	Operating Company

4. Multi-mine production complexes operated by your company or its subsidiaries with tonnage for 1999 of 1 million tons or more (these are facilities which are not a single mine, but which process production from several mines):

Name of Complex	Location (State)	1999 Tonnage	Operating Company

5. Your Company=s total estimated U.S. coal reserves: _____ Short Tons.