

Annual Coal Report 2012

December 2013















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Preface

The Annual Coal Report (ACR) provides information about U.S. coal production, number of mines, productive capacity, recoverable reserves, employment, productivity, consumption, stocks, and prices to a wide audience, including Congress, Federal and State agencies, the coal industry, and the general public. This report is published by EIA to fulfill data collection and dissemination responsibilities as specified in the Federal Energy Administration Act of 1974 (Public Law 93-275), as amended.

This report presents annual data on U.S. coal production, number of mines, productive capacity, recoverable reserves, employment, productivity, consumption, stocks, and prices. Coal production, number of mines, employment, and productivity are based on the U.S. Department of Labor's Mine Safety and Health Administration's survey form 7000-2, "Quarterly Mine

Employment and Coal Production Report." Productive capacity, recoverable reserves, and prices are based on EIA's annual survey form EIA-7A, "Coal Production and Preparation Report." Consumption and stocks are based on various other EIA survey forms.

This report is the 37th annual report on the coal industry published by EIA and continues the series formerly included in the *Minerals Yearbook* published by the U.S. Bureau of Mines. All data for 2012 and prior years are final.

The Office of Oil, Gas, and Coal Supply Statistics acknowledges the cooperation of the respondents in supplying the information published in the *Annual Coal Report*, and appreciates the valuable assistance of State coal mining agencies and the U.S. Department of Labor, Mine Safety and Health Administration.

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Executive Summary

Production

U.S. coal production declined in 2012 to the lowest level in almost two decades. Production fell from 2011 by 7.2 percent, or 79.2 million short tons, to end the year with a total of 1,016.5 million short tons. The number of producing mines in the United States dropped by 7.3 percent from 2011.

Regional coal production followed the same pattern in 2012 as in 2011, with both the Appalachian and Western regions showing declines in their production totals, while the Interior region experienced an increase. Appalachian coal production decreased by 44.1 million short tons, or 13.1 percent (the largest percentage decline of any region), to a total of 291.9 million short tons. West Virginia, the largest coal-producing state in the Appalachian Region, had a decline in coal production of 14.2 million short tons, with more than 97 percent of the decrease occurring in the southern portion of the state. The largest tonnage decline in the region was in Eastern Kentucky, which fell 19.1 million short tons in 2012.

Coal production in 2012 in the Interior region increased for the third year in a row to a level of 180.0 million short tons, an increase of 9.6 million short tons, or 5.7 percent. Illinois, the largest coal-producing state in the Interior region, had an increase in production of 10.7 million short tons, or 28.4 percent, to 48.5 million short tons. This production level has not been seen in Illinois since the mid-1990s.

Coal production in the Western region decreased in 2012 to end the year at 543.2 million short tons, a drop of 44.4 million short tons. Wyoming, the largest coal-producing state in the region, as well as in the entire United States, had a decline in its production level in 2012 of 37.2 million short tons to end the year at 401.4 million short tons. This was the lowest production level in Wyoming since 2004. Montana had a decrease in coal production of 5.3 million short tons to 36.7 million short tons, a level not seen in more than 10 years.

Productive Capacity

In 2012, productive capacity of U.S. coal mines decreased by 3.5 percent to 1,284.4 million short tons, a decline of 46.2 million short tons. Noticeable decreases in productive capacity occurred in several states: Kentucky (12.7 percent), Virginia (10.0 percent), Alabama (9.8 percent), West Virginia (9.0 percent), and Pennsylvania (6.8 percent). Illinois, on the other hand, had a large increase in productive capacity of 27.3 percent in 2012, mostly from underground mines.

Capacity utilization at underground mines decreased slightly in 2012, while the surface mine capacity utilization rate dropped by 4.6 percentage points to a level of 78.7 percent.

Employment and Productivity

In 2012, the average number of employees at U.S. coal mines fell by 1.9 percent, or 1,773 employees, to a total of 89,838 employees. While the average number of employees at underground mines increased 0.1 percent in 2012, the average number of employees at surface mines decreased 4.8 percent. Kentucky had the largest decline in the average number of employees for the year, dropping by 2,283 employees. With fewer employees at mines in the United States in 2012, and a decrease in production, there was a slight decrease in productivity. The average production per employee hour decreased by 0.2 percent to a level of 5.19 short tons per employee hour.

Consumption

In 2012, U.S. coal consumption declined by 11.3 percent, or 113.8 million short tons, to a total of 889.2 million short tons, the lowest level since 1988. Electric power sector (the largest consuming sector) coal consumption decreased by 108.9 million short tons to 823.6 million short tons, a level not seen in 20 years. Coal consumption in the other industrial, coke, and commercial and institutional sectors decreased by a combined 4.8 million short tons, or 6.9 percent.

Stocks

U.S. coal stocks ended 2012 at 238.9 million short tons, an increase of 3.0 percent. While there was very little change in coal stocks held by the other industrial, coke, and commercial and institutional sectors, the electric power sector had an increase of 12.7 million short tons to 185.1 million short tons at the end of 2012. Coal stocks held by producers and distributors decreased during the year by 5.7 million short tons to 46.2 million

short tons.

Sales Price

The total average sales price of coal in 2012 was \$39.95 per short ton, a decrease of 2.6 percent from 2011. The average sales price of coal from surface mines declined by 2.1 percent to a level of \$26.43 per short ton. The average sales price of coal from underground mines declined by 5.6 percent to a level of \$66.56 per short ton. Noteworthy changes in 2012 average sales price of coal include:

- Average sales price in Virginia (\$109.40 per short ton) decreased by 19.1 percent
- Average sales price in Pennsylvania (\$72.92 per short ton) decreased by 8.2 percent
- Average sales price in Montana (\$18.11 per short ton) increased by 13.1 percent

Coal Production

Table 1. Coal Production and Number of Mines by State and Mine Type, 2012 and 2011 (thousand short tons)

	2012		2011		Percent Char	nge
Coal-Producing State and Region ¹	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	46	19,321	52	19,071	-11.5	1.3
Underground	8	12,570	9	10,879	-11.1	15.5
Surface	38	6,752	43	8,192	-11.6	-17.6
Alaska	1	2,052	1	2,149	-	-4.5
Surface	1	2,052	1	2,149	-	-4.5
Arizona	1	7,493	1	8,111	-	-7.6
Surface	1	7,493	1	8,111	-	-7.6
Arkansas	2	98	2	133	-	-26.4
Underground	1	96	1	127	-	-24.0
Surface	1	2	1	7	-	-71.4
Colorado	12	28,566	10	26,890	20.0	6.2
Underground	9	23,646	7	21,508	28.6	9.9
Surface	3	4,920	3	5,382	-	-8.6
Illinois	24	48,486	24	37,770		28.4
Underground	15	42,837	15	32,717		30.9
Surface	9	5,649	9	5,053		11.8
Indiana	29	36,720	28	37,426	3.6	-1.9
Underground	9	15,565	8	16,469	12.5	-5.5
Surface	20		20		12.3	
	1	21,156	1	20,957		1.0
Kansas		16		37	-	-57.4
Surface	1	16	1	37	-	-57.4
Kentucky Total	357	90,862	400	108,766	-10.8	-16.5
Underground	150	58,198	169	65,248	-11.2	-10.8
Surface	207	32,664	231	43,518	-10.4	-24.9
Kentucky (East)	330	48,798	375	67,930	-12.0	-28.2
Underground	137	24,100	156	33,345	-12.2	-27.7
Surface	193	24,698	219	34,585	-11.9	-28.6
Kentucky (West)	27	42,063	25	40,836	8.0	3.0
Underground	13	34,098	13	31,903	-	6.9
Surface	14	7,966	12	8,933	16.7	-10.8
Louisiana	2	3,971	1	3,865	100.0	2.8
Surface	2	3,971	1	3,865	100.0	2.8
Maryland	21	2,283	22	2,937	-4.6	-22.3
Underground	3	797	3	873	-	-8.6
Surface	18	1,486	19	2,064	-5.3	-28.0
Mississippi	1	2,953	1	2,747	-	7.5
Surface	1	2,953	1	2,747	-	7.5
Missouri	2	422	2	465		-9.3
Surface	2	422	2	465	-	-9.3
Montana	6	36,694	6	42,008		-12.7
Underground	1	5,708	1	5,136		11.1
Surface	5	30,986	5	36,873	<u>.</u>	-16.0
New Mexico	4	22,452	4	21,922		2.4
Underground	1	4,960	1	3,983		24.5
Surface	3	17,492	3	17,939		-2.5
North Dakota	4	27,529	4	28,231		-2.5
					<u> </u>	
Surface	4	27,529	4	28,231		-2.5
Ohio	39	26,328	46	28,166	-15.2	-6.5
Underground	10	18,125	10	18,972	-	-4.5
Surface	29	8,203	36	9,194	-19.4	-10.8
Oklahoma	7	1,054	6	1,145	16.7	-7.9
Underground	1	349	1	408	-	-14.4
Surface	6	704	5	736	20.0	-4.3
Pennsylvania Total	235	54,719	242	59,182	-2.9	-7.5
Underground	49	45,041	48	47,317	2.1	-4.8
Surface	186	9,677	194	11,865	-4.1	-18.4
Pennsylvania (Anthracite)	65	2,335	60	2,131	8.3	9.6
Underground	11	120	10	166	10.0	-27.9

a	2012		2011		Percent Char	ige
Coal-Producing State and Region ¹	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Surface	54	2,215	50	1,965	8.0	12.7
Pennsylvania (Bituminous)	170	52,384	182	57,051	-6.6	-8.2
Underground	38	44,922	38	47,151	-	-4.7
Surface	132	7,463	144	9,900	-8.3	-24.6
Tennessee	14	1,090	21	1,547	-33.3	-29.5
Underground	5	573	6	423	-16.7	35.6
Surface	9	517	15	1,124	-40.0	-54.0
Texas	12	44,178	13	45,904	-7.7	-3.8
Surface	12	44,178	13	45,904	-7.7	-3.8
Utah	9	17,016	8	19,648	12.5	-13.4
	8		8		12.5	
Underground Surface	1	16,446	-	19,648	<u> </u>	-16.3
		570				- 45.0
Virginia	96	18,965	110	22,523	-12.7	-15.8
Underground	57	12,370	61	15,461	-6.6	-20.0
Surface	39	6,595	49	7,061	-20.4	-6.6
West Virginia Total	264	120,425	273	134,662	-3.3	-10.6
Underground	160	80,469	159	83,395	0.6	-3.5
Surface	104	39,956	114	51,267	-8.8	-22.1
West Virginia (Northern)	38	41,489	38	41,849	•	-0.9
Underground	22	39,445	21	38,590	4.8	2.2
Surface	16	2,045	17	3,259	-5.9	-37.3
West Virginia (Southern)	226	78,935	235	92,813	-3.8	-15.0
Underground	138	41,024	138	44,805	-	-8.4
Surface	88	37,911	97	48,008	-9.3	-21.0
Wyoming	18	401,442	18	438,673	-	-8.5
Underground	1	4,637	1	3,043	-	52.4
Surface	17	396,805	17	435,630	-	-8.9
Appalachia Total	1,045	291,929	1,141	336,017	-8.4	-13.1
Underground	429	194,045	452	210,664	-5.1	-7.9
Surface	616	97,884	689	125,353	-10.6	-21.9
Appalachia Central	666	147,789	741	184,813	-10.1	-20.0
Underground	337	78,067	361	94,034	-6.7	-17.0
Surface	329	69,722	380	90,779	-13.4	-23.2
Appalachia Northern	333	124,819	348	132,133	-4.3	-5.5
Underground	84	103,409	82	105,751	2.4	-2.2
Surface	249		266		-6.4	-18.8
	46	21,411	52	26,382		
Appalachia Southern		19,321		19,071	-11.5	1.3
Underground	8	12,570	9	10,879	-11.1	15.5
Surface	38	6,752	43	8,192	-11.6	-17.6
Interior Basin Total	107	179,961	103	170,327	3.9	5.7
Underground	39	92,945	38	81,624	2.6	13.9
Surface	68	87,017	65	88,703	4.6	-1.9
Illinois Basin	80	127,270	77	116,032	3.9	9.7
Underground	37	92,499	36	81,089	2.8	14.1
Surface	43	34,771	41	34,943	4.9	-0.5
Interior	27	52,692	26	54,295	3.9	-3.0
Underground	2	446	2	535	-	-16.7
Surface	25	52,246	24	53,760	4.2	-2.8
Western Total	55	543,244	52	587,633	5.8	-7.6
Underground	20	55,396	18	53,317	11.1	3.9
Surface	35	487,847	34	534,316	2.9	-8.7
Powder River Basin	16	419,066	16	462,600		-9.4
Surface	16	419,066	16	462,600	-	-9.4
Uinta Region	16	43,950	15	45,542	6.7	-3.5
Underground	14	39,384	13	40,520	7.7	-2.8
Surface	2	4,567	2	5,022	-	-9.1
Western	23	80,228	21	79,491	9.5	0.9
Underground	6	16,013	5	12,798	20.0	25.1
Surface	17	64,215	16	66,693	6.3	-3.7
East of Mississippi River	1,126	422,152	1,219	454,796	-7.6	-7.2
West of Mississippi River	81	592,983	77	639,181	5.2	-7.2
U.S. Subtotal	1,207	1,015,135	1,296	1,093,977	-6.9	-7.2

	2012		2011		Percent Change	
Coal-Producing State and Region ¹	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Refuse Recovery	22	1,324	29	1,650	-24.1	-19.8
U.S. Total	1,229	1,016,458	1,325	1,095,628	-7.3	-7.2

¹ For a definition of coal producing regions, see the Glossary.

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

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

^{- =} No data reported.

 $Table\ 2.\ Coal\ Production\ and\ Number\ of\ Mines\ by\ State,\ County,\ and\ Mine\ Type,\ 2012$

		Undergroun	nd	Surface		Total	
Bibb	Coal-Producing State and County	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Blumt	Alabama	8	12,570	38	6,752	46	19,321
Fayette	Bibb	-	-	2	119	2	119
Franklin	Blount	-	-	2	236	2	236
Interester	Fayette	1	2,249	-	-	1	2,249
Martion	Franklin	-	-	2	137	2	137
Marion - - 1 105 1 Shelby 1 20 - - 1 1 Tuscaloca 2 6,668 5 1,968 7 Walker 1 43 12 2,301 13 Walkor 1 43 12 2,301 13 Walkor - - 1 2,652 1 Alaska - - - 1 2,052 1 Aritona - - - 1 2 2 2 2	Jackson	-	-	3	152	3	152
Martinen - - 1 105 1 Tuxcalocsa 2 6,688 5 1,968 7 Walker 1 43 12 2,301 13 Winstron - - 2 267 2 Alaska - - - 1 2,052 1 Arlzona - - - 1 2,052 1 Arlzona - - - 1 2,052 1 Arlzona - - - 1 7,493 1 Arlzona - - - 1 7,493 1 Arlzona 1 96 1 2 2 Sebastin 1 96 1 2 2 2 Sebatin 1 3,30 - - 1 1 Light 1 3,30 - - 1 1 Guindson	Jefferson	3	3,589	9	1,106	12	4,695
Tusciolosa 2 6,688 5 1,988 7 Walker 1 43 12 2,301 13 Winston - - - 2 627 2 Alaska - - - 1 2,052 1 Valton-Koylukik - - - 1 2,052 1 Arizona - - - 1 7,493 1 Arizona - - - 2 2 Sebatilin 1 96 1 2 2 Colorado 9 22,646 3 4,200 1 La Plata 1 3,400 - - - 2	Marion	-	-	1	105	1	105
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Las Animas 2 669 - - 2 4,567 2 Montrose - - 1 353 1 Rio Blanco 1 1,673 - - 1 Rout 2 8,024 - - 2 Illinois 15 42,837 9 5,649 24 Franklin 1 4,690 - - 1 1 Gallatin - - 1 1,997 1 1 1 1,997 1 1 1 1,997 1 1 1 1,997 1 1 1 1 1,997 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9,810</td>							9,810
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Montrose - - 1 353 1 Rio Blanco 1 1,673 - - 1 Routt 2 8,024 - - - Illinois 15 42,837 9 5,649 24 Franklin 1 4,690 - - - 1 Gallatin - - - 1 1,997 1 Jackson - - 1 1,997 1 Macoupin 2 2,513 - - - 2 Macoupin 2 2,513 - - - 2 2 Mcdonough - - - 1 184 1							69
Rio Blanco 1 1,673 - - 1 Routt 2 8,024 - - 2 Illinois 15 42,837 9 5,649 24 Franklin 1 4,690 - - - 1 Gallatin - - - 1 1,997 1 Jackson - - - 1 1,997 1 Maccoupin 2 2,513 - - 2 Mcdonough - - - 1 184 1 Perry 2 2,338 2 716 4 Randolph 1 2,766 2 597 3 Saligen							4,567
Routt 2 8,024 - - 2 Illinois 15 42,837 9 5,649 24 Franklin 1 4,690 - - - 1 1,997 1 Gallatin - - - 1 1,997 1 Jackson - - - 1 1,997 1 Macoupin 2 2,513 - - - 2 Mcdonough - - - 1 184 1 Montgomery 1 2,365 - - - 1 Perry 2 2,838 2 716 4 Randolph 1 2,766 2 597 3 Saline 4 12,828 1 625 5 Sangamon 1 2,108 - - 1 Washington 1 2,819 - - 1				1			353
Illinois 15 42,837 9 5,649 24 Franklin 1 4,690 - - - 1 Gallatin - - - 1 1,997 1 Jackson - - - 1 1,997 1 Macoupin 2 2,513 - - 2 Mcdonough - - - 1 184 1 Montgomery 1 2,365 - - - 1 Perry 2 2,838 2 716 4 Randolph 1 2,766 2 597 3 Saline 4 12,828 1 625 5 Sangamon 1 2,108 - - 1 Washington 1 2,819 - - 1 White 1 2,330 - - 1 Williamson 1 7				-			1,673
Franklin 1 4,690 - - - 1 Gallatin - - - 1 1,997 1 Jackson - - - 1 92 1 Macoupin 2 2,513 - - - 2 Mcdonough - - 1 184 1 Montgomery 1 2,365 - - - 1 Perry 2 2,838 2 716 4 Randolph 1 2,766 2 597 3 Saline 4 12,828 1 625 5 Sangamon 1 2,108 - - 1 Washington 1 2,819 - - 1 Williamson 1 7,528 - - 1 Williamson 1 7,528 - - 1 Indian 9 15,565 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8,024</td>							8,024
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Jackson - - 1 92 1 Macoupin 2 2,513 - - - 2 Mcdonough - - - 1 184 1 Montgomery 1 2,365 - - - 1 Perry 2 2,838 2 716 4 Randolph 1 2,766 2 597 3 Saline 4 12,828 1 625 5 Sangamon 1 2,108 - - - 1 Wabash - - - 1 1,439 1 1 Washington 1 2,819 - - - 1 1 1 1,439 1		1	4,690		-		4,690
Macoupin 2 2,513 - - 2 Mcdonough - - - 1 184 1 Montgomery 1 2,365 - - - 1 Perry 2 2,838 2 716 4 Randolph 1 2,766 2 597 3 Saline 4 12,828 1 625 5 Sangamon 1 2,108 - - 1 Wabash - - 1 1,439 1 White 1 2,819 - - 1 Williamson 1 7,528 - - 1 Williamson 1 7,528 - - 1 Daviess - - - 3 2,283 3 Dubois - - - 1 867 1 Gibson 2 6,188 2	Gallatin	-	-	1	1,997	1	1,997
Mcdonough - - - 1 184 1 Montgomery 1 2,365 - - - 1 Perry 2 2,838 2 716 4 Randolph 1 2,766 2 597 3 Saline 4 12,828 1 625 5 Sangamon 1 2,108 - - 1 Wabash - - 1 1,439 1 Washington 1 2,819 - - - 1 Williamson 1 2,819 - - - 1 Williamson 1 7,528 - - 1 1 Williamson 1 7,528 - - 1 1 Daviess - - - 3 2,283 3 Dubois - - - 1 867 1	Jackson		-	1	92		92
Montgomery 1 2,365 - - 1 Perry 2 2,838 2 716 4 Randolph 1 2,766 2 597 3 Saline 4 12,828 1 625 5 Sangamon 1 2,108 - - 1 Wabash - - 1 1,439 1 Washington 1 2,819 - - 1 Williamson 1 2,380 - - 1 Williamson 1 7,528 - - 1 Indiana 9 15,565 20 21,156 29 Daviess - - - 3 2,283 3 Dubois - - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 <	Macoupin	2	2,513	-	-	2	2,513
Perry 2 2,838 2 716 4 Randolph 1 2,766 2 597 3 Saline 4 12,828 1 625 5 Sangamon 1 2,108 - - 1 Wabash - - 1 1,439 1 Washington 1 2,819 - - 1 White 1 2,380 - - - 1 Williamson 1 7,528 - - - 1 Indian 9 15,565 20 21,156 29 Daviess - - - 3 2,283 3 Dubois - - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6	Mcdonough	-	-	1	184	1	184
Randolph 1 2,766 2 597 3 Saline 4 12,828 1 625 5 Sangamon 1 2,108 - - 1 Wabash - - 1 1,439 1 Washington 1 2,819 - - 1 White 1 2,380 - - 1 Williamson 1 7,528 - - 1 Indiana 9 15,565 20 21,156 29 Daviess - - 3 2,283 3 Dubois - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - - 4 4,338 4	Montgomery	1	2,365	-	-	1	2,365
Saline 4 12,828 1 625 5 Sangamon 1 2,108 - - - 1 Wabash - - 1 1,439 1 Washington 1 2,819 - - - 1 White 1 2,380 - - - 1 Williamson 1 7,528 - - 1 1 Indiana 9 15,565 20 21,156 29 Daviess - - 3 2,283 3 Dubois - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - 1 4 4,338 4	Perry	2	2,838	2	716	4	3,554
Sangamon 1 2,108 - - - 1 Wabash - - - 1 1,439 1 Washington 1 2,819 - - - 1 White 1 2,380 - - - 1 Williamson 1 7,528 - - 1 1 Indiana 9 15,565 20 21,156 29 Daviess - - - 3 2,283 3 Dubois - - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - 1 4 4,338 4	Randolph	1	2,766	2	597	3	3,363
Wabash - - - 1 1,439 1 Washington 1 2,819 - - - 1 White 1 2,380 - - - 1 Williamson 1 7,528 - - - 1 Indiana 9 15,565 20 21,156 29 Daviess - - 3 2,283 3 Dubois - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - - 1 4 4,338 4	Saline	4	12,828	1	625	5	13,453
Washington 1 2,819 - - 1 White 1 2,380 - - - 1 Williamson 1 7,528 - - - 1 Indiana 9 15,565 20 21,156 29 Daviess - - 3 2,283 3 Dubois - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - - 1 41 1 Warrick - - 4 4,338 4	Sangamon	1	2,108	-	-	1	2,108
White 1 2,380 - - - 1 Williamson 1 7,528 - - - 1 Indiana 9 15,565 20 21,156 29 Daviess - - 3 2,283 3 Dubois - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - 1 41 1 Warrick - - 4 4,338 4	Wabash	-	-	1	1,439	1	1,439
Williamson 1 7,528 - - - 1 Indiana 9 15,565 20 21,156 29 Daviess - - - 3 2,283 3 Dubois - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - 1 41 1 Warrick - - 4 4,338 4	Washington	1	2,819	-	-	1	2,819
Indiana 9 15,565 20 21,156 29 Daviess - - - 3 2,283 3 Dubois - - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - 1 41 1 Warrick - - 4 4,338 4	White	1	2,380	-	-	1	2,380
Daviess - - - 3 2,283 3 Dubois - - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - 1 41 1 Warrick - - 4 4,338 4	Williamson	1	7,528	-	-	1	7,528
Daviess - - - 3 2,283 3 Dubois - - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - 1 41 1 Warrick - - 4 4,338 4	Indiana	9		20	21,156	29	36,720
Dubois - - - 1 867 1 Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - 1 41 1 Warrick - - 4 4,338 4							2,283
Gibson 2 6,188 2 3,014 4 Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - 1 41 1 Warrick - - 4 4,338 4							867
Knox 4 4,289 2 455 6 Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - 1 41 1 Warrick - - 4 4,338 4		2					9,202
Pike 1 2,072 6 2,086 7 Sullivan 2 3,015 1 8,071 3 Vigo - - 1 41 1 Warrick - - 4 4,338 4							4,744
Sullivan 2 3,015 1 8,071 3 Vigo - - 1 41 1 Warrick - - 4 4,338 4							4,159
Vigo - - 1 41 1 Warrick - - 4 4,338 4							11,086
Warrick 4 4,338 4							41
							4,338
1 10 1							4,330
Bourbon 1 16 1							16
Kentucky 150 58,198 207 32,664 357							90,862
Bell 5 731 11 499 16							1,230
Breathitt 1 256 2 31 3							288
Christian 1 11 11 1							11
Clay 7 294 7	Clay	-	-	7	294	7	294

	Undergrour	ıd	Surface		Total	
Coal-Producing State and County	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Daviess	-	-	2	395	2	395
Elliott	<u>-</u>	-	1	2	1	2
Floyd	12	1,205	12	1,544	24	2,749
Harlan	27	5,064	18	1,931	45	6,995
Henderson	1	505	3	1,124	4	1,629
Hopkins	4	12,315	-	-	4	12,315
Johnson	-	-	7	336	7	336
Knott	10	1,452	7	938	17	2,390
Knox	3	64	8	562	11	625
Laurel	-	-	2	13	2	13
Lawrence	1	71	6	144	7	215
Leslie	5	1,348	11	1,752	16	3,100
Letcher	16	1,936	15	917	31	2,853
Magoffin	1	67	6	1,947	7	2,013
Martin	8	2,622	7	755	15	3,377
Mccreary	-	-	1	32	1	32
Muhlenberg	2	3,810	2	1,008	4	4,817
Ohio	2	1,850	4	5,361	6	7,211
Owsley	-	-	3	27	3	27
Perry	7	3,017	19	6,227	26	9,244
Pike	40	6,168	41	6,489	81	12,657
Rockcastle	-	-	1	5	1	5
Union	3	13,475	-		3	13,475
Webster	1	2,144	2	67	3	2,211
Whitley	1	100	7	208	8	308
Wolfe	-	-	1	46	1	46
	<u> </u>	-				
Louisiana	<u> </u>		2	3,971	2	3,971
De Soto		-	1	3,867	1	3,867
Natchitoches		-	1	105	1	105
Maryland	3	797	18	1,486	21	2,283
Allegany	1	444	11	1,033	12	1,477
Garrett	2	353	7	453	9	806
Mississippi	-	-	1	2,953	1	2,953
Choctaw	-	-	1	2,953	1	2,953
Missouri	<u>-</u>	-	2	422	2	422
Bates	-	-	2	422	2	422
Montana	1	5,708	5	30,986	6	36,694
Bighorn	-	-	3	22,672	3	22,672
Musselshell	1	5,708	-	-	1	5,708
Richland	-	-	1	296	1	296
Rosebud	-	-	1	8,018	1	8,018
New Mexico	1	4,960	3	17,492	4	22,452
Mckinley	-	-	2	9,872	2	9,872
San Juan	1	4,960	1	7,619	2	12,580
North Dakota	-	-	4	27,529	4	27,529
Mclean	-	-	1	7,915	1	7,915
Mercer	-	-	2	15,289	2	15,289
Oliver	-	-	1	4,325	1	4,325
Ohio	10	18,125	29	8,203	39	26,328
Belmont	1	5,768	1	830	2	6,598
Carroll	1	147	1	2	2	149
Columbiana		-	2	124	2	124
Harrison	2	1,166	5	2,136	7	3,303
Jackson	-	-	1	130	1	130
Jefferson	2	481	5	1,223	7	1,704
Mahoning	-	-	1	4	1	4
				- 4		
Muskingum	1	8,447			1	8,447
Muskingum	-	-	1	374	1	374
Noble	-	1.050	2	723	2	723
Perry	2	1,658	1	835	3	2,492
Stark	-	-	2	375	2	375
Tuscarawas	1	458	5	516	6	974
Vinton	-	-	2	930	2	930
Oklahoma	1	349	6	704	7	1,054

Company		Undergroun	nd	Surfac	ee	Total	
Halastel		Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Le Flore 1 3499 1 1810 2 135 Novata	Craig	-	-	2	48	2	48
Novarda 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 3 1 1 1 1 3 1 1 1 1 3 1 1 1 1 3 1 1 1 1 3 1 1 1 1 3 1 1 1 1 1 3 1 1 1 1 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 1 1 1 1 3 1 1 1 1 1 3 1 1 1 1 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 1 3 1 3 1 1 1 1 1 1 3 1 3 1 1 1 1 1 3 1 3 1 1 1 1 1 1 3 1 3 1 1 1 1 1 1 3 1 3 1 1 1 1 1 1 3 1 3 1	Haskell	-	-	1	219	1	219
Demonstration	Le Flore	1	349	1	180	2	530
Pennovivale	Nowata	-	-	1	254	1	254
Alleghray	Okmulgee	-	-	1	3	1	3
Amisprong S	Pennsylvania	49	45,041	186	9,677	235	54,719
Bearry	Allegheny	-	-	3	17	3	17
Belief	Armstrong	8	2,316	6	212	14	2,528
Baller	Beaver	1	232	-	-	1	232
Buller	Bedford	-	-	2	115	2	115
Cameron	Blair	-	-	1	31	1	31
Centre	Butler	-	-	2	233	2	233
Centre	Cambria	2	867	8	467	10	1,333
Clarified 3 1,473 40 2,1915 43 3,88	Cameron	-	-	1	14	1	14
Columbia	Centre	-	-	1	148	1	148
Columbia - 4 105 4 10 Dauphin 1 6 - - 1 10 Elk - - - S 138 5 131 Feyette - - - 8 106 8 100 Greene 5 25,659 1 14 6 25,67 Indiana 9 2,280 14 339 23 2,611 Lackowana - - - 6 411 6 431 Lackowana - - - 6 411 6 41 Lucerne - - 6 411 6 41 Lycorning - - 1 216 1 22 Meterne - - 1 9 1 5 Schupkill 7 66 34 1,28 21 3 Schupkill <td>Clarion</td> <td>-</td> <td>-</td> <td>3</td> <td>193</td> <td>3</td> <td>193</td>	Clarion	-	-	3	193	3	193
Despire	Clearfield	3	1,473	40	2,015	43	3,488
Despire	Columbia	-	-	4	105	4	105
Elk		1	6				6
Fyette				5	138		138
Greene 5 25,679 1 14 6 25,677 Indiana 9 2,280 14 339 23 2,611 Jefferson 1 55 9 783 10 833 Lackwarma - - 2 2 19 2 11 Luzerne - - - 6 411 6 411 Lyconing - - - 1 216 1 221 Morrer - - - 1 9 1 5 Northurberland 3 49 8 252 11 30 Schuylkill 7 66 34 1,438 41 1,49 Somerset 8 2,580 13 1,526 21 4,10 Westington 1 9,459 3 68 210 8 211 Tennesse 5 573 9 517							106
Indiana 9 2,280 14 339 23 2,611 Jefferson 1 55 9 783 10 831 Luceme - - - 6 411 6 411 Lycoming - - - 1 216 1 221 Mercer - - - 1 1 9 1 - Northumberland 3 49 8 252 11 30 Schuykill 7 66 34 1,428 41 1,49 Somerset 8 2,580 13 1,26 21 4,10 Venango - - - 2 25 8 2 15 Washington 1 9,459 3 618 4 10,00 Westmoreland - - - 2 2 23 2 22 Washington 1	•						25,673
Lefferson							
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Mercer - 1 9 1 5 Northumberland 3 49 8 252 11 30 Schuykill 7 66 34 1,428 41 1,49 Somerset 8 2,580 13 1,526 21 4,10 Venango - - 2 58 2 56 Washington 1 9,459 3 618 4 10,007 Westoncland - - 8 210 8 211 Temessee 5 573 9 517 14 1,099 Anderson - - 2 23 2 22 23 2 22 Campbell 2 72 4 228 6 300 10 3 266 6 767 72 4 228 6 30 10 13 3,00 1 3,300 1 3,300 <							
Northumberland 3							9
Schuykill 7 66 34 1,428 41 1,496 Someret 8 2,580 13 1,526 21 4,100 Venango - - 2 58 2 55 2 558 2 558 2 558 2 558 2 558 2 558 2 558 2 558 2 558 2 558 2 558 2 558 2 558 2 1 10,007 4 10,007 4 10,007 4 10,007 4 10,007 4 10,007 4 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1 10,007 1							
Somerset 8 2,580 13 1,526 21 A,100 Venango - - - 2 58 2 55 Washington 1 9,459 3 618 4 10,070 Westmoreland - - 8 210 8 221 Tennessee 5 573 9 517 14 1,09 Anderson - - 2 2 2 2 2 Campbell 2 72 4 228 6 30 30 266 6 76 30 266 6 76 76 72 4 228 6 30 30 1 3,00 1 30 30 6 6 76 76 1 4,617 44,178 12 44,177 44,177 44,177 44,177 44,177 44,177 44,177 44,177 44,177 44,177 44,177 44,177							
Venango - - 2 58 2 56 Washington 1 9,559 3 618 4 10,077 Westmoreland - - 8 210 8 221 Tennessee 5 573 9 517 14 1,098 Anderson - - 2 2 23 2 2 Campbell 2 72 4 228 6 30 Ciablome 3 501 3 266 6 767 Texas - - 12 44,178 12 44,178 Atascosa - - 1 3,006 1 3,000 Freestore - - 1 3,006 1 3,00 Horrison - - 1 4,252 1 4,252 Hopkins - - 1 1 2,52 1 4,252							
Washington 1 9,459 3 618 4 10,077 Westmoreland - - 8 210 8 211 Tennessee 5 573 9 517 14 1,098 Anderson - - 2 2 23 2 22 Campbell 2 72 4 228 6 300 Claiborne 3 501 3 266 6 766 Texas - - 12 44,178 12 44,171 Atascosa - - 1 3,006 1 3,300 Freestone - - 1 3,308 1 3,300 Harrison - - 1 3,306 1 3,50 Hopkins - - 1 863 1 8,23 Hopkins - - 1 8,23 1 8,22 Leon							
Westmoreland - - 8 210 8 217 Tennessee 5 573 9 517 14 1,098 Anderson - - 2 23 2 22 Campbell 2 72 4 228 6 300 Claibore 3 501 3 266 6 766 Texas - - 12 44,178 12 44,171 Atascosa - - 1 3,006 1 3,006 Freestone - - 1 3,006 1 3,006 Harrison - - 1 4,252 1 4,252 Hopkins - - 1 863 1 8,361 Lee - - 1 4,228 1 4,228 Lee - - 1 4,228 1 4,228 Leon - <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
Tennessee 5 573 9 517 14 1,096 Anderson - - - 2 23 2 22 Campbell 2 72 4 228 6 300 Claiborne 3 501 3 266 6 767 Texas - - 12 44,178 12 44,171 Alascosa - - 1 3,006 1 3,000 Freestone - - 1 3,006 1 3,000 Harrison - - - 1 4,252 1 4,252 Hopkins - - - 1 7,600 1 7,760 Lee - - - 1 7,760 1 7,760 Lee - - - 1 8,236 1 8,236 Panola - - 1 1,355 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Anderson - - 2 2 23 2 22 Cambell 2 72 4 228 6 300 Claiborne 3 501 3 266 6 767 Texas - - 12 44,178 12 44,178 Assocsa - - 1 3,308 1 3,300 Freestone - - 1 3,006 1 3,000 Harrison - - 1 4,252 1 4,252 Hopkins - - 1 863 1 866 Lee - - 1 7,760 1 7,766 Lee - - 1 4,228 1 4,222 Limestone - - 1 8,236 1 8,236 Panola - - 1 1,357 1 1,357 Robertson <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>							
Campbell 2 72 4 228 6 300 Claiborne 3 501 3 266 6 767 Texas - - 12 44,178 12 44,178 Atascosa - - - 1 3,308 1 3,300 Freestone - - - 1 3,006 1 3,000 Harrison - - - 1 4,252 1 4,252 Hopkins - - - 1 863 1 866 Lee - - - 1 7,760 1 7,766 Leon - - - 1 4,228 1 4,228 Leon - - - 1 8,236 1 8,236 Panola - - - 1 8,236 1 8,236 Robertson - -							
Claiborne 3 501 3 266 6 767 Texas - - 12 44,178 12 44,178 Atlascosa - - 1 3,308 1 3,308 Freestone - - 1 3,006 1 3,006 Harrison - - 1 4,252 1 4,255 Hopkins - - 1 863 1 863 1 863 Hopkins - - 1 863 1 863 1 863 1 866 1 7,760 1 7,760 1 7,760 1 7,760 1 7,760 1 7,760 1 8,236 1 8,236 1 8,236 1 8,236 1 8,236 1 8,236 1 8,236 1 8,236 1 8,236 1 8,236 1 8,236 1 8,236 1 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Texas - - 12 44,178 12 44,178 Atascosa - - - 1 3,308 1 3,308 Freestone - - - 1 3,006 1 3,006 Harrison - - 1 4,252 1 4,255 Hopkins - - 1 863 1 866 Lee - - 1 7,760 1 7,760 Leon - - 1 4,228 1 4,228 Limestone - - 1 4,228 1 4,228 Panola - - 1 4,228 1 4,228 Robertson - - 1 1,357 1 1,357 Rusk - - 1 1,357 1 1,355 Rusk - - - 1 1,413 1 1,413	·					-	
Atascosa - - 1 3,308 1 3,308 Freestone - - - 1 3,006 1 3,000 Harrison - - - 1 4,252 1 4,252 Hopkins - - - 1 863 1 863 Lee - - - 1 7,760 1 7,760 Leon - - - 1 4,228 1 4,228 Limestone - - - 1 8,236 1 8,236 Panola - - - 1 8,236 1 8,236 Panola - - - 1 1,357 1 13,357 Rusk - - - 1 1,357 1 1,357 Rusk - - - 1 1,413 1 1,413 Utah 8 16,446 1 570 9 17,011 Carbon 5							
Freestone - - 1 3,006 1 3,006 Harrison - - 1 4,252 1 4,252 Hopkins - - - 1 863 1 865 Lee - - - 1 7,760 1 7,760 Leon - - - 1 4,228 1 4,228 Leon - - - 1 4,228 1 4,228 Leon - - - 1 8,236 1 8,236 Panola - - - 2 6,692 2 2 6,692 Robertson - - 1 1,357 1 1,357 Rusk - - - 1 3,061 1 3,061 Titus - - - 1 1,413 1 1,413 Utah 8 16,							
Harrison - - 1 4,252 1 4,255 Hopkins - - - 1 863 1 863 Lee - - - 1 7,760 1 7,760 Leon - - - 1 4,228 1 4,228 Leon - - - 1 8,236 1 8,236 Panola - - - 1 8,236 1 8,236 Robertson - - - 1 1,357 1 1,357 Rusk - - - 1 3,061 1 3,061 Titus - - - 1 1,413 1 1,413 Utah 8 16,446 1 570 9 17,011 Carbon 5 6,503 - - - 5 6,500 Emery 2 4							
Hopkins							
Lee - - 1 7,760 1 7,766 Leon - - - 1 4,228 1 4,228 Limestone - - - 1 8,236 1 8,236 Panola - - - 1 8,236 1 8,236 Robertson - - - 1 1,357 1 1,357 Rusk - - - 1 3,061 1 3,061 Titus - - - 1 1,413 1 1,413 Utah 8 16,446 1 570 9 17,014 Carbon 5 6,503 - - - 5 6,500 Emery 2 4,292 - - 2 2 4,292 Sevier 1 5,650 - - - 1 5,650 Virginia 57							
Leon - - 1 4,228 1 4,228 Limestone - - - 1 8,236 1 8,236 Panola - - - 2 6,692 2 6,692 Robertson - - 1 1,357 1 1,357 Rusk - - - 1 3,061 1 3,061 Titus - - - 1 1,413 1 1,413 Utah 8 16,446 1 570 9 17,011 Carbon 5 6,503 - - - 5 6,503 Emery 2 4,292 - - - 5 6,503 Emery 2 4,292 - - - 1 570 Sevier 1 5,650 - - - 1 5,650 Virginia 57 12,370							
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Rusk - - - 1 3,061 1 3,061 Titus - - - 1 1,413 1 1,413 Utah 8 16,446 1 570 9 17,010 Carbon 5 6,503 - - - 5 6,503 Emery 2 4,292 - - - 2 4,292 Kane - - - 1 570 1 570 Sevier 1 5,650 - - - 1 5,650 Virginia 57 12,370 39 6,595 96 18,965 Buchanan 24 5,292 12 1,891 36 7,184 Dickenson 11 2,886 3 526 14 3,412 Gilles - - 1 175 1 175 Lee 1 153 3 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>6,692</td></th<>							6,692
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Emery 2 4,292 - - - 2 4,292 Kane - - - 1 570 1 570 Sevier 1 5,650 - - - 1 5,650 Virginia 57 12,370 39 6,595 96 18,965 Buchanan 24 5,292 12 1,891 36 7,184 Dickenson 11 2,886 3 526 14 3,412 Giles - - 1 175 1 175 Lee 1 153 3 124 4 276 Russell 4 641 2 85 6 726 Tazewell 1 471 2 940 3 1,410 Wise 16 2,928 16 2,854 32 5,782							
Kane - - 1 570 1 570 Sevier 1 5,650 - - - 1 5,650 Virginia 57 12,370 39 6,595 96 18,965 Buchanan 24 5,292 12 1,891 36 7,184 Dickenson 11 2,886 3 526 14 3,412 Giles - - 1 175 1 175 Lee 1 153 3 124 4 276 Russell 4 641 2 85 6 726 Tazewell 1 471 2 940 3 1,410 Wise 16 2,928 16 2,854 32 5,782	Carbon			-	-		6,503
Sevier 1 5,650 - - - 1 5,650 Virginia 57 12,370 39 6,595 96 18,961 Buchanan 24 5,292 12 1,891 36 7,184 Dickenson 11 2,886 3 526 14 3,412 Giles - - - 1 175 1 175 Lee 1 153 3 124 4 276 Russell 4 641 2 85 6 726 Tazewell 1 471 2 940 3 1,410 Wise 16 2,928 16 2,854 32 5,782		2					4,292
Virginia 57 12,370 39 6,595 96 18,960 Buchanan 24 5,292 12 1,891 36 7,184 Dickenson 11 2,886 3 526 14 3,412 Giles - - 1 175 1 175 Lee 1 153 3 124 4 276 Russell 4 641 2 85 6 726 Tazewell 1 471 2 940 3 1,410 Wise 16 2,928 16 2,854 32 5,782							570
Buchanan 24 5,292 12 1,891 36 7,184 Dickenson 11 2,886 3 526 14 3,412 Giles - - 1 175 1 175 Lee 1 153 3 124 4 276 Russell 4 641 2 85 6 726 Tazewell 1 471 2 940 3 1,410 Wise 16 2,928 16 2,854 32 5,782							5,650
Dickenson 11 2,886 3 526 14 3,412 Giles - - - 1 175 1 175 Lee 1 153 3 124 4 276 Russell 4 641 2 85 6 726 Tazewell 1 471 2 940 3 1,410 Wise 16 2,928 16 2,854 32 5,782							18,965
Giles - - - 1 175 1 175 Lee 1 153 3 124 4 276 Russell 4 641 2 85 6 726 Tazewell 1 471 2 940 3 1,410 Wise 16 2,928 16 2,854 32 5,782							7,184
Lee 1 153 3 124 4 276 Russell 4 641 2 85 6 726 Tazewell 1 471 2 940 3 1,410 Wise 16 2,928 16 2,854 32 5,782	Dickenson	11	2,886		526	14	3,412
Russell 4 641 2 85 6 726 Tazewell 1 471 2 940 3 1,410 Wise 16 2,928 16 2,854 32 5,782	Giles	-	-		175	1	175
Tazewell 1 471 2 940 3 1,410 Wise 16 2,928 16 2,854 32 5,782	Lee	1	153	3	124	4	276
Wise 16 2,928 16 2,854 32 5,782	Russell	4	641	2	85	6	726
	Tazewell		471	2	940	3	1,410
West Virginia 160 80,469 104 39,956 264 120,425	Wise	16	2,928	16	2,854	32	5,782
	West Virginia	160	80,469	104	39,956	264	120,425

	Undergroun	nd	Surface		Total	
Coal-Producing State and County	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Barbour	1	1,128	-	-	1	1,128
Boone	22	6,571	9	9,896	31	16,467
Brooke	-	-	1	280	1	280
Clay	1	92	1	953	2	1,045
Fayette	5	1,548	5	3,793	10	5,341
Grant	1	133	-	-	1	133
Greenbrier	4	774	3	454	7	1,228
Harrison	2	374	2	13	4	387
Kanawha	12	6,105	11	2,634	23	8,739
Lincoln	2	1,174	-	-	2	1,174
Logan	12	6,066	13	9,048	25	15,114
Marion	3	11,024	1	38	4	11,062
Marshall	2	14,717	2	3	4	14,720
Mcdowell	30	2,881	14	1,353	44	4,234
Mercer	-	-	1	147	1	147
Mineral	-	-	2	57	2	57
Mingo	15	2,824	13	3,935	28	6,759
Monongalia	3	5,409	3	296	6	5,706
Nicholas	5	1,138	6	1,144	11	2,282
Ohio	1	2,001	-	-	1	2,001
Preston	1	5	-	-	1	5
Raleigh	12	4,040	6	2,821	18	6,860
Randolph	1	443	-	-	1	443
Taylor	1	101	1	14	2	115
Tucker	1	2,285	1	112	2	2,397
Upshur	1	376	1	34	2	410
Wayne	4	3,622	3	744	7	4,366
Webster	4	1,450	2	1,197	6	2,647
Wyoming	14	4,190	3	990	17	5,179
Wyoming	1	4,637	17	396,805	18	401,442
Campbell	-	-	11	354,060	11	354,060
Carbon	-	-	1	1	1	1
Converse	-	-	1	34,316	1	34,316
Hot Springs	-	-	1	24	1	24
Lincoln	-	-	1	4,645	1	4,645
Sweetwater	1	4,637	2	3,759	3	8,396
U.S. Subtotal	488	342,387	719	672,748	1,207	1,015,135
Refuse Recovery	•	-	-	-	22	1,324

^{- =} No data reported.

U.S. Total

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

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

342,387

719

672,748

1,229

1,016,458

488

Table 3. Underground Coal Production by State and Mining Method, 2012

Coal-Producing State and Region¹ Continuous¹ Other¹ Longwall¹ Alabama 139 20 12,410 Arkansas 96 - - Colorado 757 - 22,889 Illinois 18,969 - 23,868 Indiana 15,565 - - Kentucky (Fast) 22,090 2,018 - Kentucky (West) 34,089 9 - Maryland 797 - - Maryland 797 - - New Mexico - - 4,960 Ohio 3,903 7 14,214 Oklahoma 349 - - Pennsylvania (Intrincito) 68 52 - Pennsylvania (Intrincitos) 11,367 52 33,623 Pennsylvania (Intrincitos) 11,298 - 3,623 Pennsylvania (Intrincitos) 11,298 - 3,506 West Virginia (Southern) 5,517 2			Conventional and		
Arkansas 96 - - 22,899 Illinois 18,969 - 23,868 Indiana 15,565 - - Kentucky (Teal) 56,179 2,018 - Kentucky (East) 22,209 2,010 - Kentucky (West) 34,089 9 - Maryland 797 - - Monotana - - 5,708 New Mexico - - 4,960 Ohio 3,903 7 14,214 Oklahoma 349 - - Pennsylvania (fatturaicte) 68 52 - Pennsylvania (fitturninous) 11,298 - 33,623 Tennessee 559 14 - Utah 1,512 - 14,934 Virginia (Sutturin) 37,920 645 41,994 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 <	Coal-Producing State and Region ¹	Continuous ²	Other ³	Longwall ⁴	Total
Colorado 757 - 22,889 Illinois 18,969 - 23,868 Indiana 15,565 - - Kentucky Total 56,179 2,018 - Kentucky (East) 22,090 2,010 - Kentucky (West) 34,089 9 - Maryland 797 - - Montana - - 4,960 Ohio 3,903 7 14,214 Oklahoma 349 - - Pennsylvania Total 11,367 52 33,623 Pennsylvania (Bituminous) 11,298 - 33,623 Pennsylvania (Bituminous) 11,298 - 33,623 Pennsylvania (Bituminous) 11,298 - 33,623 Virginia 8,749 115 3,506 West Virginia (Southern) 3,512 - 4,634 West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 <td>Alabama</td> <td>139</td> <td>20</td> <td>12,410</td> <td>12,570</td>	Alabama	139	20	12,410	12,570
Illinois 18,969 - 23,868 Indiana 15,565 - - Kentucky (East) 22,090 2,010 - Kentucky (West) 34,089 9 - Maryland 797 - - Montana - - 5,708 New Mexico - - 4,960 Ohio 3,903 7 14,214 Oklahoma 349 - - Pennsylvania (Total 11,367 52 33,623 Pennsylvania (Situminous) 11,298 - 33,623 Pennsylvania (Bituminous) 11,298 - 33,623 Pennsylvania (Situminous) 11,298 - 14,624 Viginia	Arkansas	96	-	-	96
Indiana 15,565	Colorado	757	-	22,889	23,646
Kentucky Total 56,179 2,018 - Kentucky (East) 22,090 2,010 - Kentucky (West) 34,089 9 - Maryland 797 - - Montana - - - New Mexico - - - Ohio 3,903 7 14,214 Okiahoma 349 - - Pennsylvania (Anthracite) 68 52 - Pennsylvania (Bituminous) 11,298 - 33,623 Pennsylvania (Bituminous) 11,298 - 33,623 Tennessee 559 14 - Utah 1,512 - 14,934 Virginia 8,749 115 3,506 West Virginia Total 37,920 645 41,904 West Virginia (Southern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637	Illinois	18,969	-	23,868	42,837
Kentucky (East) 22,090 2,010 - Kentucky (West) 34,089 9 - Maryland 797 - - Montana - - - New Mexico - - 4,960 Ohio 3,903 7 14,214 Oklahoma 349 - - Pennsylvania Total 11,367 52 33,623 Pennsylvania (Rituminous) 11,298 - - Pennsylvania (Bituminous) 11,298 - 33,623 Pennsylvania (Bituminous) 11,298 - 14,934 Virginia (Suthania (Bituminous) 13,298 - 14,934 Virginia (Suthania (Bituminous) 37,920 645 41,904 <	Indiana	15,565	-	-	15,565
Kentucky (West) 34,089 9 - Maryland 797 - - Montana - - - New Mexico - - - Ohio 3,903 7 14,214 Oklahoma 349 - - Pennsylvania Total 11,367 52 33,623 Pennsylvania (Anthracite) 68 52 - Pennsylvania (Bituminous) 11,298 - 33,623 Pennsylvania (Bituminous) 13,298 - 33,623 West Virginia (Southous) 37,920 645 41,904	Kentucky Total	56,179	2,018	-	58,198
Maryland 797 - - Montana - - 5,708 New Mexico - - 4,960 Ohio 3,903 7 14,214 Oklahoma 349 - - Pennsylvania (Anthracite) 68 52 - Pennsylvania (Bituminous) 11,298 - 33,623 Tennessee 559 14 - Utah 1,512 - 14,934 Virginia 8,749 115 3,506 West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068	Kentucky (East)	22,090	2,010	-	24,100
Montana - - 5,708 New Mexico - - 4,960 Ohio 3,903 7 14,214 Oklahoma 349 - - Pennsylvania Total 11,367 52 33,623 Pennsylvania (Anthracite) 68 52 - Pennsylvania (Bituminous) 11,298 - 33,623 Tennessee 559 14 - Utah 1,512 - 14,934 Virginia 8,749 115 3,506 West Virginia Total 37,920 645 41,904 West Virginia (Southern) 5,517 20 33,908 West Virginia (Southern) 3,2403 625 7,996 Wyoming - - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Northern<	Kentucky (West)	34,089	9	-	34,098
New Mexico - - 4,960 Ohio 3,903 7 14,214 Oklahoma 349 - - Pennsylvania Total 11,367 52 33,623 Pennsylvania (Anthracite) 68 52 - Pennsylvania (Bituminous) 11,298 - 33,623 Tennessee 559 14 - Utah 1,512 - 14,934 Virginia 8,749 115 3,506 West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,088 9 23,868 Illinois Basin	Maryland	797	-	-	797
Ohio 3,903 7 14,214 Oklahoma 349 - - Pennsylvania Total 11,367 52 33,623 Pennsylvania (Anthracite) 68 52 - Pennsylvania (Bituminous) 11,298 - 33,623 Tennessee 559 14 - Utah 1,512 - 14,934 Virginia 8,749 115 3,506 West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior	Montana	-	-	5,708	5,708
Oklahoma 349 - - Pennsylvania Total 11,367 52 33,623 Pennsylvania (Anthracite) 68 52 - Pennsylvania (Bittuminous) 11,298 - 33,623 Tennessee 559 14 - Utah 1,512 - 14,934 Virginia 8,749 115 3,506 West Virginia Total 37,920 645 41,904 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Couthern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Southern 139 20 12,410 Interior Basin Total 69,668 9 23,868 Illinois Basin 68,623 9 23,868 Interior	New Mexico	-	-	4,960	4,960
Pennsylvania Total 11,367 52 33,623 Pennsylvania (Anthracite) 68 52 - Pennsylvania (Bituminous) 11,298 - 33,623 Tennessee 559 14 - Utah 1,512 - 14,934 Virginia 8,749 115 3,506 West Virginia Total 37,920 645 41,904 West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia (Southern) 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - -	Ohio	3,903	7	14,214	18,125
Pennsylvania (Anthracite) 68 52 - Pennsylvania (Bituminous) 11,298 - 33,623 Tennessee 559 14 - Utah 1,512 - 14,934 Virginia 8,749 115 3,506 West Virginia Total 37,920 645 41,904 West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Illinois Basin 68,623 9 23,868 Illinois Basin 68,623 9 23,868	Oklahoma	349	-	-	349
Pennsylvania (Bituminous) 11,298 - 33,623 Tennessee 559 14 - Utah 1,512 - 14,934 Virginia 8,749 115 3,506 West Virginia Total 37,920 645 41,904 West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Illinois Region 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 We	Pennsylvania Total	11,367	52	33,623	45,041
Tennessee 559 14 - Utah 1,512 - 14,934 Virginia 8,749 115 3,506 West Virginia Total 37,920 645 41,904 West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River	Pennsylvania (Anthracite)	68	52	-	120
Utah 1,512 - 14,934 Virginia 8,749 115 3,506 West Virginia Total 37,920 645 41,904 West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Pennsylvania (Bituminous)	11,298	-	33,623	44,922
Virginia 8,749 115 3,506 West Virginia Total 37,920 645 41,904 West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Tennessee	559	14	-	573
West Virginia Total 37,920 645 41,904 West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Utah	1,512	-	14,934	16,446
West Virginia (Northern) 5,517 20 33,908 West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Virginia	8,749	115	3,506	12,370
West Virginia (Southern) 32,403 625 7,996 Wyoming - - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	West Virginia Total	37,920	645	41,904	80,469
Wyoming - 4,637 Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	West Virginia (Northern)	5,517	20	33,908	39,445
Appalachia Total 85,525 2,862 105,658 Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	West Virginia (Southern)	32,403	625	7,996	41,024
Appalachia Central 63,802 2,763 11,502 Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Wyoming	-	-	4,637	4,637
Appalachia Northern 21,584 79 81,746 Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Appalachia Total	85,525	2,862	105,658	194,045
Appalachia Southern 139 20 12,410 Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Appalachia Central	63,802	2,763	11,502	78,067
Interior Basin Total 69,068 9 23,868 Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Appalachia Northern	21,584	79	81,746	103,409
Illinois Basin 68,623 9 23,868 Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Appalachia Southern	139	20	12,410	12,570
Interior 446 - - Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Interior Basin Total	69,068	9	23,868	92,945
Western Total 2,269 - 53,127 Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Illinois Basin	68,623	9	23,868	92,499
Uinta Region 1,561 - 37,823 Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Interior	446	-	-	446
Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Western Total	2,269	-	53,127	55,396
Western 708 - 15,305 East of Mississippi River 154,147 2,871 129,526	Uinta Region	1,561	-	37,823	39,384
· · · · · · · · · · · · · · · · · · ·		708	-	15,305	16,013
West of Mississippi River 2,715 - 53,127	East of Mississippi River	154,147	2,871	129,526	286,545
	West of Mississippi River	2,715	-	53,127	55,842
U.S. Total 156,862 2,871 182,653			2,871		342,387

¹ For a definition of coal producing regions, see the Glossary.

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

² Mines that produce greater than 50 percent of their coal by continuous mining methods.

³ Mines that: 1. produce greater than 50 percent of their coal by conventional mining methods, 2. produce coal using shortwall, scoop loading, hand loading, or other methods, 3. have a 50/50 percent continuous/conventional split in mining methods, or 4. produce less than 25,000 short tons, which are not required to provide data.

⁴ Mines that have any production from the longwall mining method. A typical longwall mining operation uses 80 percent longwall mining and 20 percent continuous mining.

^{- =} No data reported.

Table 4. Coal Production by Coalbed Thickness and Mine Type, 2012

Coal Thickness (inches)	Underground	Surface	Total
Under 7	-	17	17
7 - Under 13	-	2,108	2,108
13 - Under 19	429	6,688	7,117
19 - Under 25	111	14,107	14,217
25 - Under 31	4,147	12,913	17,060
31 - Under 37	15,128	19,022	34,150
37 - Under 43	23,868	17,285	41,153
43 - Under 49	26,035	15,597	41,632
49 - Under 55	18,909	22,544	41,453
55 - Under 61	36,946	11,285	48,231
61 - Under 67	43,146	15,074	58,220
67 - Under 73	40,983	8,783	49,766
73 - Under 79	32,914	10,193	43,107
79 - Under 85	27,011	3,554	30,565
85 - Under 91	11,997	8,459	20,456
91 - Under 97	6,329	2,411	8,740
97 - Under 103	5,923	5,187	11,110
103 - Under 109	5,940	12,864	18,804
109 - Under 115	1,820	2,487	4,307
115 - 120	16,425	1,045	17,470
Over 120	23,530	479,095	502,626
Unknown *	797	2,030	4,151
U.S. Total	342,387	672,748	1,016,458

st Includes mines with production of less than 25,000 short tons, which are not required to provide data, and refuse recovery.

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

⁼ No data reported.

Table 5. Coal Production and Coalbed Thickness by Major Coalbeds and Mine Type, 2012

		Production	n (thousand short tons)	Thickness (inches)			
	ed ID Number¹ ed Name	Underground	Surface	Total	Average ²	Low	High	
1699	Wyodak	-	351,188	351,188	778	160	913	
0036	Pittsburgh	52,476	3,871	56,348	74	18	138	
0489	No. 9	42,193	12,181	54,374	61	24	74	
0484	Herrin (Illinois No. 6)	48,526	1,910	50,436	71	46	89	
0212	Pittsburgh	27,355	76	27,431	75	27	98	
1701	Smith	-	23,847	23,847	822	745	912	
1696	Anderson-Dietz 1-Dietz 2	-	18,992	18,992	932	660	960	
0084	Lower Kittanning	8,196	7,268	15,464	54	12	210	
1569	Beulah-Zap	-	15,196	15,196	196	114	210	
0111	Coalburg	1,778	12,675	14,453	72	8	130	
1787	Roland	-	13,341	13,341	464	384	495	
1570	Hagel	-	10,942	10,942	137	135	144	
0151	Upper Elkhorn No. 3	8,339	2,143	10,482	44	8	120	
0280	Blue Creek	9,852	472	10,324	56	10	76	
1808	Rosebud	-	9,511	9,511	262	186	276	
0103	Stockton-Lewiston	3,606	5,734	9,340	66	12	125	
0344	Pocahontas No. 3	8,946	-	8,946	60	34	84	
1488	Fruitland No. 8	4,960	3,353	8,313	148	64	162	
0121	Winifrede	4,025	4,191	8,216	58	12	110	
0168	Lower Elkhorn	6,337	1,830	8,167	45	16	77	
1750	Wadge	8,024	-	8,024	118	100	118	
0135	Hazard No. 4	3,265	4,065	7,330	42	8	78	
0176	Eagle	5,720	1,477	7,196	40	19	52	
1756	E	6,852	-	6,852	120	120	120	
0071	Upper Freeport	5,384	1,162	6,546	61	11	124	
Major	Coalbeds Total	255,836	505,423	761,260	454	8	960	
Other	Coalbeds	85,753	165,294	251,048	86	4	960	
Unkno	own *	797	2,030	4,151	NA	NA	NA	
U.S. T	otal	342,387	672,748	1,016,458	362	-	960	

¹ 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. See Coalbed name discussion in note below.

NA = Not Available.

Note: This table lists the top 25 producing coalbeds. The category 'Other Coalbeds' includes all coalbeds from which less than 8.0 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 8.0 million short tons. Totals may not equal sum of components due to independent rounding. The coalbed name given is the name most commonly used in the State having the greatest production from that coalbed. The States having greatest production for each coalbed are Alabama (coalbed 0280); Colorado (1750); Illinois (0484); Indiana (0483); Eastern Kentucky (0100, 0135, 0142, 0151, and 0168); Western Kentucky (0489); Montana (1699 and 1808); New Mexico (1488); North Dakota (1569); Pennsylvania (0036 and 0071); West Virginia (0084, 00103, 0111, 0121, 0157, and 0176); and Wyoming (1697, 1699, and 1787). In some other States where these are major producing beds, the following alternative coalbed names are also used: 0084, No.5 (Ohio); 0111, Peach Orchard (Eastern Kentucky); 0121, Quakertown (Pennsylvania); 0157, Windrock (Tennessee); Phillips (Virginia); Chilton (West Virginia); 0142, Lower Splint (Virginia); 0151, Jellico (Tennessee); Taggert (Virginia); Cedar Grove (West Virginia); O157, Elkhorn No. 1 (East Kentucky); Rich Mountain (Tennessee); O168, Imboden (Virginia); No. 2 Gas (West Virginia); 0176, Middle Eagle (West Virginia); 0484, No. 11 (Western Kentucky); 0489, No. 5 (Illinois and Indiana).

² Average thickness is the bed thickness weighted by bed production.

^{*} Includes mines with production of less than 25,000 short tons, which are not required to provide data, and refuse recovery.

^{- =} No data reported.

Table 6. Coal Production and Number of Mines by State and Coal Rank, 2012

	Bituminous Subbituminous Lignite		nite	Anthi	racite	Total				
Coal-Producing State and Region ¹	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	46	19,321	-	-	-	-	-	-	46	19,321
Alaska	-	-	1	2,052	-	-	-	-	1	2,052
Arizona	1	7,493	-	-	-	-	-	-	1	7,493
Arkansas	2	98	-	-	-	-	-	-	2	98
Colorado	9	20,569	3	7,997	-	-	-	-	12	28,566
Illinois	24	48,486	-	-	-	-	-	-	24	48,486
Indiana	29	36,720	-	-	-	-	-	-	29	36,720
Kansas	1	16	-	-	-	-	-	-	1	16
Kentucky Total	357	90,862	-	-		-		-	357	90,862
Kentucky (East)	330	48,798	-	-	-	-	-	-	330	48,798
Kentucky (West)	27	42,063	-	-	-	-	-	-	27	42,063
Louisiana	-	-	-	-	2	3,971	-	-	2	3,971
Maryland	21	2,283	-	-	-	-	-	-	21	2,283
Mississippi	-	-	-	-	1	2,953	-	-	1	2,953
Missouri	2	422	-	-	-	-		-	2	422
Montana	1	5,708	4	30,690	1	296	-	-	6	36,694
New Mexico	3	14,833	1	7,619	-	-	-	-	4	22,452
North Dakota	-	-	_		4	27,529	-	-	4	27,529
Ohio	39	26,328	_	-	_	-	_	-	39	26,328
Oklahoma	7	1,054							7	1,054
Pennsylvania Total	170	52,384		-		-	65	2,335	235	54,719
Pennsylvania (Anthracite)						-	65	2,335	65	2,335
Pennsylvania (Bituminous)	170	52,384	_				-		170	52,384
Tennessee	14	1,090							14	1,090
Texas	-				12	44,178			12	44,178
Utah	9	17,016		_	-				9	17,016
Virginia	96	18,965							96	18,965
West Virginia Total	264	120,425							264	120,425
West Virginia (Northern)	38	41,489							38	41,489
West Virginia (Northern)	226	78,935							226	78,935
Wyoming	-	- 70,933	18	401,442					18	401,442
	980	289,595	-	401,442			65	2 225	1,045	
Appalachia Total	666	147,789						2,335	666	291,929
Appalachia Central		· · · · · · · · · · · · · · · · · · ·						2 225		147,789
Appalachia Northern	268	122,485					65	2,335	333	124,819
Appalachia Southern	46	19,321							46	19,321
Interior Basin Total	92	128,859	-	-	15	51,102	-	-	107	179,961
Illinois Basin	80	127,270	-	-	-		-	-	80	127,270
Interior	12	1,590	-	-	15	51,102		-	27	52,692
Western Total	23	65,619	27	449,800	5	27,825	-	-	55	543,244
Powder River Basin	-	-	16	419,066	-	-	-	-	16	419,066
Uinta Region	13	35,953	3	7,997	-	-	-	-	16	43,950
Western	10	29,666	8	22,737	5	27,825	-	-	23	80,228
East of Mississippi River	1,060	416,865		-	1	2,953	65	2,335	1,126	422,152
West of Mississippi River	35	67,208	27	449,800	19	75,974	-	•	81	592,983
U.S. Subtotal	1,095	484,073	27	449,800	20	78,927	65	2,335	1,207	1,015,135
Refuse Recovery	19	1,290	-	-	-	•	3	33	22	1,324
U.S. Total	1,114	485,363	27	449,800	20	78,927	68	2,368	1,229	1,016,458

 $^{{\}bf 1}$ For a definition of coal producing regions, see Glossary.

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

^{- =} No data reported.

Table 7. Coal Production by State, Mine Type, and Union Status, 2012

_	Union		Nonunion		Total		
Coal-Producing State and Region ¹	Underground	Surface	Underground	Surface	Underground	Surface	
Alabama	12,410	-	139	6,669	12,549	6,669	
Alaska	-	2,052	-	-	-	2,052	
Arizona	-	7,493	-	-	-	7,493	
Arkansas	-	-	96	-	96	-	
Colorado	1,673	2,655	21,955	2,265	23,628	4,920	
Illinois	2,897	-	39,939	5,649	42,837	5,649	
Indiana	-	-	15,558	21,156	15,558	21,156	
Kentucky Total	3,951	552	53,891	31,507	57,842	32,059	
Kentucky (East)	-	552	23,753	23,572	23,753	24,124	
Kentucky (West)	3,951	-	30,138	7,935	34,089	7,935	
Louisiana	-	-	-	3,971	-	3,971	
Maryland	-	-	797	1,425	797	1,425	
Mississippi	-	-	-	2,953	-	2,953	
Missouri	-	-	-	422	-	422	
Montana	-	13,787	5,708	17,199	5,708	30,986	
New Mexico	4,960	7,619	-	9,872	4,960	17,492	
North Dakota	-	6,639	-	20,890	-	27,529	
Ohio	5,768	-	12,350	8,119	18,117	8,119	
Oklahoma	-	-	349	696	349	696	
Pennsylvania Total	14,041	691	30,920	8,039	44,961	8,730	
Pennsylvania (Anthracite)	<u> </u>	529	39	1,335	39	1,864	
Pennsylvania (Bituminous)	14,041	162	30,881	6,704	44,922	6,865	
Tennessee	-	-	559	479	559	479	
Texas	-	31,032	-	13,146	-	44,178	
Utah	3,295	-	13,151	570	16,446	570	
Virginia	838	-	11,418	6,578	12,256	6,578	
West Virginia Total	33,469	6,430	46,821	33,382	80,289	39,812	
West Virginia (Northern)	29,623	-	9,802	1,997	39,425	1,997	
West Virginia (Southern)	3,845	6,430	37,019	31,385	40,865	37,815	
Wyoming	4,637	5,532	-	391,248	4,637	396,780	
Appalachia Total	66,526	7,673	126,757	88,262	193,282	95,935	
Appalachia Central	4,683	6,982	72,749	62,014	77,432	68,996	
Appalachia Northern	49,432	691	53,869	19,580	103,301	20,270	
Appalachia Southern	12,410	-	139	6,669	12,549	6,669	
Interior Basin Total	6,848	31,032	86,081	55,927	92,929	86,960	
Illinois Basin	6,848	-	85,635	34,740	92,483	34,740	
Interior	<u> </u>	31,032	446	21,188	446	52,220	
Western Total	14,565	45,778	40,813	442,045	55,378	487,823	
Powder River Basin	-	13,490	-	405,576	<u> </u>	419,066	
Uinta Region	4,968	2,301	34,415	2,265	39,384	4,567	
Western	9,597	29,986	6,398	34,204	15,995	64,190	
East of Mississippi River	73,374	7,673	212,392	125,955	285,765	133,628	
West of Mississippi River	14,565	76,810	41,259	460,280	55,824	537,090	
U.S. Subtotal	87,939	84,483	253,651	586,234	341,589	670,718	
Unknown *	-	-	-	-	797	2,030	
U.S. Total	87,939	84,483	253,651	586,234	342,387	672,748	
	0.,555	3-,-03		230,234	3-2,307	0,2,,40	

¹ For a definition of coal producing regions, see Glossary.

 $Note: Totals\ may\ not\ equal\ sum\ of\ components\ because\ of\ independent\ rounding.\ Excludes\ refuse\ recovery\ operations.$

st Includes mines with production of less than 25,000 short tons, which are not required to provide data.

^{- =} No data reported.

Table 8. Coal Disposition by State, 2012

(thousand short tons)

Coal-Producing State	Open Market Sales ¹	Captive Sales / Transactions ²	Exports ³	Total
Alabama	8,688	-	10,333	19,021
Alaska	w	-	968	w
Arizona	w	-	-	w
Arkansas	w	-	-	w
Colorado	20,836	4,552	3,468	28,856
Illinois	29,252	5,113	12,341	46,705
Indiana	17,127	18,404	375	35,906
Kentucky Total	76,602	6,884	5,668	89,154
Kentucky (East)	37,324	6,884	3,588	47,796
Kentucky (West)	39,277	-	2,081	41,358
Louisiana	w	-	-	w
Maryland	2,024	-	262	2,286
Mississippi	w	-	-	w
Missouri	w	-	-	w
Montana	w	w	-	36,823
New Mexico	w	w		22,881
North Dakota	w	w	-	27,799
Ohio	w	w	-	26,617
Oklahoma	1,071	-	-	1,071
Pennsylvania Total	27,907	14,680	11,705	54,293
Pennsylvania (Anthracite)	1,665	702	149	2,516
Pennsylvania (Bituminous)	26,243	13,977	11,556	51,776
Tennessee	1,048	-	-	1,048
Texas	w	w	-	40,317
Utah	w	w	953	16,903
Virginia	6,359	3,604	8,893	18,855
West Virginia Total	66,758	25,483	28,792	121,033
West Virginia (Northern)	33,666	2,256	5,476	41,399
West Virginia (Southern)	33,092	23,227	23,316	79,635
Wyoming	232,921	167,104	1,196	401,221
U.S. Subtotal	618,028	305,165	84,954	1,008,147
Other Exports *	-	-	40,792	40,792
U.S. Total **	618,028	305,165	125,746	1,048,939

¹ Open market sales include all coal sold on the open market to other coal companies or consumers; excludes exports.

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

Source: U.S. Energy Information Administration Form EIA-7A, 'Coal Production and Preparation Report.'

² Captive sales transactions include all coal used by the producing company or sold to affiliated or parent companies; excludes exports.

³ State level total and U.S. subtotal include the quantity of coal exported by coal mines only.

^{*} Estimated quantity of coal exported by coal brokers, coal traders and coal terminals.

 $^{{\}color{red}^{**}} \ {\color{blue}Excludes} \ {\color{blue}mines} \ {\color{blue}provide} \ {\color{blue}data}, \ {\color{blue}and} \ {\color{blue}refuse} \ {\color{blue}excludes} \ {\color{blue}mines} \ {\color{blue}mines} \ {\color{blue}provide} \ {\color{blue}data}, \ {\color{blue}and} \ {\color{blue}refuse} \ {\color{blue}refuse} \ {\color{blue}mines} \ {\color{blue}mines$

^{- =} No data reported.

w = Data withheld to avoid disclosure.

Table 9. Major U.S. Coal Mines, 2012

Rank	Mine Name / Company	Mine Type	State	Production (short tons)
1	North Antelope Rochelle Mine / Peabody Powder River Mining Ll	Surface	Wyoming	107,639,188
2	Black Thunder / Thunder Basin Coal Company Llc	Surface	Wyoming	93,082,919
3	Cordero Mine / Cordero Mining Llc	Surface	Wyoming	39,204,736
4	Antelope Coal Mine / Antelope Coal Llc	Surface	Wyoming	34,316,314
5	Belle Ayr Mine / Alpha Coal West, Inc.	Surface	Wyoming	24,227,846
6	Eagle Butte Mine / Alpha Coal West, Inc.	Surface	Wyoming	22,466,733
7	Buckskin Mine / Kiewit Mining Group Inc.	Surface	Wyoming	18,058,827
8	Spring Creek Coal Company / Spring Creek Coal Llc	Surface	Montana	17,199,485
9	Caballo Mine / Peabody Caballo Mining, Llc	Surface	Wyoming	16,841,183
10	Rawhide Mine / Peabody Caballo Mining, Llc	Surface	Wyoming	14,721,376
11	Freedom Mine / The Coteau Properties Company	Surface	North Dakota	12,974,746
12	Bailey Mine / Consol Pennsylvania Coal Compa	Underground	Pennsylvania	10,122,862
13	Enlow Fork Mine / Consol Pennsylvania Coal Compa	Underground	Pennsylvania	9,459,485
14	Mcelroy Mine / Mcelroy Coal Company	Underground	West Virginia	9,400,485
15	River View Mine / River View Coal Llc	Underground	Kentucky	8,622,321
16	El Segundo / Peabody New Mexico Services Di	Surface	New Mexico	8,566,613
17	Century Mine / American Energy Corporation	Underground	Ohio	8,446,709
18	Kosse Strip / Luminant Mining Company Llc	Surface	Texas	8,236,336
19	Bear Run Mine / Peabody Bear Run Mining Llc	Surface	Indiana	8,070,882
20	Rosebud Mine&crusher/Conveyor / Western Energy Company	Surface	Montana	8,018,098
21	Foidel Creek Mine / Peabody Twentymile Mining Llc	Underground	Colorado	7,974,732
22	Falkirk Mine / Falkirk Mining Company	Surface	North Dakota	7,914,827
23	Three Oaks / Luminant Mining Company Llc	Surface	Texas	7,760,301
24	Navajo Mine / Bhp Navajo Coal Company	Surface	New Mexico	7,619,428
25	Coal Creek Mine / Thunder Basin Coal Company Llc	Surface	Wyoming	7,564,231
26	Mach #1 Mine / Mach Mining Llc	Underground	Illinois	7,528,061
27	Kayenta Mine / Peabody Western Coal Company	Surface	Arizona	7,493,276
28	West Elk Mine / Mountain Coal Company, L.L.C.	Underground	Colorado	6,852,136
29	Cumberland Mine / Cumberland Coal Resources Lp	Underground	Pennsylvania	6,425,363
30	Dry Fork Mine / Western Fuels-Wyoming Inc	Surface	Wyoming	6,006,787
31	Loveridge #22 / Consolidation Coal Company	Underground	West Virginia	5,869,454
32	Powhatan No. 6 Mine / The Ohio Valley Coal Company	Underground	Ohio	5,767,737
33	Bull Mountains Mine No 1 / Signal Peak Energy Llc	Underground	Montana	5,707,633
34	Sufco / Canyon Fuel Company Llc	Underground	Utah	5,650,446
35	The American Coal Company New / The American Coal Company	Underground	Illinois	5,641,788
36	Shoemaker Mine / Consolidation Coal Company	Underground	West Virginia	5,316,374
37	Cardinal / Warrior Coal Llc	Underground	Kentucky	5,236,375
38	Robinson Run No 95 / Consolidation Coal Company	Underground	West Virginia	4,992,046
39	San Juan Mine 1 / San Juan Coal Company	Underground	New Mexico	4,960,375
40	No 7 Mine / Jim Walter Resources Inc	Underground	Alabama	4,764,268
41	Mc#1 Mine / M-Class Mining Llc	Underground	Illinois	4,690,260
42	Kemmerer Mine / Westmoreland Kemmerer Inc	Surface	Wyoming	4,644,628
43	Bridger Underground Coal Mine / Bridger Coal Company	Underground	Wyoming	4,636,557
44	Emerald Mine No 1 / Emerald Coal Resources Lp	Underground	Pennsylvania	4,384,253
45	Center Mine / Bni Coal Ltd	Surface	North Dakota	4,324,815
46	Beckville Strip / Luminant Mining Company Llc	Surface	Texas	4,307,301
47	South Hallsville No 1 Mine / The Sabine Mining Company	Surface	Texas	4,252,226
48	Wyodak Mine / Wyodak Resources Development C	Surface	Wyoming	4,245,981
49	Jewett Mine / Texas Westmoreland Coal Co.	Surface	Texas	4,227,779
50	Federal No 2 / Eastern Associated Coal Llc	Underground	West Virginia	4,044,937
30	Subtotal	Onderground	wcat wiigiiia	650,481,519
	All Other Mines			365,976,899
	U.S. Total			1,016,458,418
	5.5. 15.6.			1,010,430,410

Note: Major mines are mines that produced more than 4 million short tons in 2012. Company listed indicates the firm operating the mine.

Table 10. Major U.S. Coal Producers, 2012

2 Arch Coal Inc 136,992 13 3 Alpha Natural Resources LLC 104,306 10 4 Cloud Peak Energy 90,721 8 5 CONSOL Energy Inc 55,752 5 6 Alliance Resource Operating Partners LP 35,406 3 7 Energy Future Holdings Corp 31,032 3 8 Murray Energy Corp 29,216 2 9 NACCO Industries Inc 28,207 2 10 Patriot Coal Corp 23,946 2 11 Peter Kiewit Sons Inc 22,725 2 12 Westmoreland Coal Co 22,215 2 13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 Pacificorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 </th <th>Rank</th> <th>Controlling Company Name</th> <th>Production (thousand short tons)</th> <th>Percent of Total Production</th>	Rank	Controlling Company Name	Production (thousand short tons)	Percent of Total Production
3 Alpha Natural Resources LLC 104,306 10 4 Cloud Peak Energy 90,721 8 5 CONSOL Energy Inc 55,752 5 6 Alliance Resource Operating Partners LP 35,406 3 7 Energy Future Holdings Corp 31,032 3 8 Murray Energy Corp 29,216 2 9 NACCO Industries Inc 28,207 2 10 Patriot Coal Corp 23,346 2 11 Peter Klewit Sons Inc 22,725 2 12 Westmoreland Coal Co 22,215 2 13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 Pacificorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,769 0	1	Peabody Energy Corp	192,563	18.9
4 Cloud Peak Energy 90,721 8 5 CONSOL Energy Inc 55,752 5 6 Alliance Resource Operating Partners LP 35,406 3 7 Energy Future Holdings Corp 31,032 3 8 Murray Energy Corp 29,216 2 9 NACCO Industries Inc 28,207 2 10 Patriot Coal Corp 23,946 2 11 Peter Kiewit Sons Inc 22,725 2 12 Westmoreland Coal Co 22,215 2 13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 PacifiCorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22	2	Arch Coal Inc	136,992	13.5
5 CONSOL Energy Inc 55,752 5 6 Alliance Resource Operating Partners LP 35,406 3 7 Energy Future Holdings Corp 31,032 3 8 Murray Energy Corp 29,216 2 9 NACCO Industries Inc 28,207 2 10 Patriot Coal Corp 23,946 2 11 Peter Kiewit Sons Inc 22,725 2 12 Westmoreland Coal Co 22,215 2 13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 Pacificorp 8,819 0 16 Pacificorp 8,819 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Minning Co 7,767 0	3	Alpha Natural Resources LLC	104,306	10.3
6 Alliance Resource Operating Partners LP 35,406 3 7 Energy Future Holdings Corp 31,032 3 8 Murray Energy Corp 29,216 2 9 NACCO Industries Inc 28,207 2 10 Patriot Coal Corp 23,946 2 11 Peter Kiewit Sons Inc 22,725 2 12 Westmoreland Coal Co 22,215 2 13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 Pacificorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0	4	Cloud Peak Energy	90,721	8.9
7 Energy Future Holdings Corp 31,032 3 8 Murray Energy Corp 29,216 2 9 NACCO Industries Inc 28,207 2 10 Patriot Coal Corp 23,946 2 11 Peter Kiewit Sons Inc 22,725 2 12 Westmoreland Coal Co 22,215 2 13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 PacifiCorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,068 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25	5	CONSOL Energy Inc	55,752	5.5
8 Murray Energy Corp 29,216 2 9 NACCO Industries Inc 28,207 2 10 Patriot Coal Corp 23,946 2 11 Peter Kiewit Sons Inc 22,725 2 12 Westmoreland Coal Co 22,215 2 13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 PacifiCorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Minning Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,086 0 24 Boich Group LLC 5,708 0 25	6	Alliance Resource Operating Partners LP	35,406	3.5
9 NACCO Industries Inc 28,207 2 10 Patriot Coal Corp 23,946 2 11 Peter Kiewit Sons Inc 22,725 2 12 Westmoreland Coal Co 22,215 2 13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 PacifiCorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	7	Energy Future Holdings Corp	31,032	3.1
10 Patriot Coal Corp 23,946 2 11 Peter Kiewit Sons Inc 22,725 2 12 Westmoreland Coal Co 22,215 2 13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 PacifiCorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	8	Murray Energy Corp	29,216	2.9
11 Peter Kiewit Sons Inc 22,725 2 12 Westmoreland Coal Co 22,215 2 13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 Pacificorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	9	NACCO Industries Inc	28,207	2.8
12 Westmoreland Coal Co 22,215 2 13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 PacifiCorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	10	Patriot Coal Corp	23,946	2.4
13 BHP Billiton Ltd 12,580 1 14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 PacifiCorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	11	Peter Kiewit Sons Inc	22,725	2.2
14 Walter Energy Inc 11,220 1 15 Cline Group (The) 9,230 0 16 PacifiCorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	12	Westmoreland Coal Co	22,215	2.2
15 Cline Group (The) 9,230 0 16 PacifiCorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	13	BHP Billiton Ltd	12,580	1.2
16 PacifiCorp 8,819 0 17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	14	Walter Energy Inc	11,220	1.1
17 James River Coal Co 8,774 0 18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	15	Cline Group (The)	9,230	0.9
18 Armstrong Energy Inc 8,769 0 19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	16	PacifiCorp	8,819	0.9
19 Western Fuels Association Inc 8,442 0 20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	17	James River Coal Co	8,774	0.9
20 Rosebud Mining Co 7,767 0 21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	18	Armstrong Energy Inc	8,769	0.9
21 Coalfield Transport Inc 7,056 0 22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	19	Western Fuels Association Inc	8,442	0.8
22 Oxford Resource Partners LP 6,086 0 23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	20	Rosebud Mining Co	7,767	0.8
23 Cliffs Natural Resources Inc 6,068 0 24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	21	Coalfield Transport Inc	7,056	0.7
24 Boich Group LLC 5,708 0 25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	22	Oxford Resource Partners LP	6,086	0.6
25 Ambre Energy North America 5,630 0 Subtotal 879,229 86	23	Cliffs Natural Resources Inc	6,068	0.6
Subtotal 879,229 86	24	Boich Group LLC	5,708	0.6
	25	Ambre Energy North America	5,630	0.6
All Other Coal Producers 137,230 13		Subtotal	879,229	86.5
		All Other Coal Producers	137,230	13.5
U.S. Total 1,016,458 100		U.S. Total	1,016,458	100.0

Note: The listed companies each produced more than 5 million short tons of coal in 2012. A controlling company of a mine is defined as the company 'controlling the coal, particularly the sale of the coal.' Most often, but not always, this is the owner of the mine.

Source: Velocity Suite, Ventyx 2013 and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Productive Capacity

Table 11. Productive Capacity of Coal Mines by State, 2012 and 2011

2012				2011			Percent Change		
Coal-Producing State	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	14,594	7,967	22,561	16,102	8,911	25,013	-9.4	-10.6	-9.8
Alaska	-	w	W	-	w	w	-	w	w
Arizona	-	w	w	-	w	w	-	w	w
Arkansas	w	-	w	w	-	w	w	-	w
Colorado	w	w	37,270	w	w	36,009	w	w	3.5
Illinois	60,317	9,840	70,157	45,613	9,495	55,108	32.2	3.6	27.3
Indiana	16,445	28,488	44,933	19,388	27,185	46,573	-15.2	4.8	-3.5
Kansas	-	-	-	-	w	w	-	w	w
Kentucky Total	74,602	52,062	126,664	83,553	61,539	145,092	-10.7	-15.4	-12.7
Kentucky (East)	30,656	36,261	66,917	41,203	45,084	86,287	-25.6	-19.6	-22.4
Kentucky (West)	43,945	15,801	59,747	42,350	16,455	58,805	3.8	-4.0	1.6
Louisiana	-	w	w	-	w	w	-	w	w
Maryland	w	w	3,282	w	w	3,682	w	w	-10.9
Mississippi	-	w	W	-	w	w	-	w	w
Missouri	-	w	w	-	w	w	-	w	w
Montana	w	w	55,600	w	w	57,615	w	w	-3.5
New Mexico	w	w	26,572	w	w	26,950	w	w	-1.4
North Dakota	-	32,900	32,900	-	32,900	32,900	-	-	-
Ohio	21,811	24,383	46,193	19,924	22,342	42,266	9.5	9.1	9.3
Oklahoma	w	w	1,223	w	w	1,355	w	w	-9.7
Pennsylvania Total	51,383	12,481	63,864	53,582	14,936	68,518	-4.1	-16.4	-6.8
Pennsylvania (Anthracite)	126	3,620	3,745	w	w	3,571	w	w	4.9
Pennsylvania (Bituminous)	51,257	8,861	60,118	w	w	64,948	w	w	-7.4
Tennessee	w	w	1,252	495	1,513	2,009	w	w	-37.7
Texas	-	47,050	47,050	-	49,676	49,676	-	-5.3	-5.3
Utah	w	w	24,854	23,000	-	23,000	w	w	8.1
Virginia	14,164	8,853	23,017	16,409	9,158	25,567	-13.7	-3.3	-10.0
West Virginia Total	98,387	51,542	149,929	104,421	60,246	164,667	-5.8	-14.4	-9.0
West Virginia (Northern)	44,148	3,660	47,808	42,628	5,153	47,782	3.6	-29.0	0.1
West Virginia (Southern)	54,240	47,881	102,121	61,793	55,093	116,886	-12.2	-13.1	-12.6
Wyoming	w	W	487,065	w	w	504,435	w	w	-3.4
U.S. Total	431,888	852,481	1,284,369	435,160	895,408	1,330,567	-0.8	-4.8	-3.5

s = Absolute percentage less than 0.05.

Note: Productive capacity is the maximum amount of coal that can be produced annually as reported by mining companies on Form EIA-7A, 'Coal Production and Preparation Report.' Excluding refuse recovery and mines producing less than 25,000 short tons, which are not required to provide data. Totals may not equal sum of components because of independent rounding.

 $Source: U.S.\ Energy\ Information\ Administration\ Form\ EIA-7A,\ 'Coal\ Production\ and\ Preparation\ Report.'$

^{- =} No data reported.

w = Data withheld to avoid disclosure.

Table 12. Capacity Utilization of Coal Mines by State, 2012 and 2011

(percent)

2012 2011 **Coal-Producing** State Underground Surface Total Underground Surface Total Alabama 85.99 83.96 85.28 67.52 90.91 75.85 Alaska w w Arizona w w w w Arkansas w w w w Colorado 76.65 74.63 Illinois 57.41 71.73 53.22 68.54 71.02 69.11 Indiana 94.65 74.26 81.72 84.94 77.09 80.36 Kansas w w 77.70 **Kentucky Total** 77.53 61.58 70.98 69.36 74.16 Kentucky (East) 77.48 66.53 71.55 80.12 74.89 77.39 Kentucky (West) 77.57 50.22 70.34 75.33 54.20 69.42 Louisiana w w w 67.72 77.78 Maryland w w w w Mississippi w w w w Missouri w Montana 66.00 72.91 81.34 New Mexico 84.49 w w w w North Dakota 83.67 83.67 85.81 85.81 Ohio 33.30 40.79 66.45 83.07 56.80 95.22 Oklahoma 84.25 w w 85.51 w w Pennsylvania Total 87.59 72.11 84.57 88.24 74.47 85.23 Pennsylvania (Anthracite) 68.83 58.99 59.32 w w 57.22 86.77 Pennsylvania (Bituminous) 87.64 77.48 86.14 w w 71.56 74.86 Tennessee w 82.88 84.93 W 92.41 Texas 93.90 93.90 92.41 Utah w 68.46 85.43 85.43 86.53 74.30 81.83 93.79 75.43 87.21 **West Virginia Total** 81.63 77.24 80.12 79.69 84.58 81.48 West Virginia (Northern) 89.30 54.55 86.64 90.46 61.12 87.30 West Virginia (Southern) 75.39 77.07 72.26 86.78 79.10 78.98 82.42 86.96 Wyoming w w w w U.S. Total 79.11 78.71 78.85 79.27 83.32 81.99

Note: Capacity utilization is the ratio of annual production to annual productive capacity. Excludes refuse recovery and mines producing less than 25,000 short tons, which are not required to provide data. Totals may not equal sum of components because of independent rounding.

^{- =} No data reported.

w = Data withheld to avoid disclosure.

Table 13. Productive Capacity and Capacity Utilization of Underground Coal Mines by State and Mining Method, 2012

	Continu	ous^1	Conventional a	and Other ²	Longwa	all^3	Total	
Coal-Producing State	Productive Capacity	Capacity Utilization Percent	Productive Capacity	Capacity Utilization Percent	Productive Capacity	Capacity Utilization Percent	Productive Capacity	Capacity Utilization Percent
Alabama	w	w	-	-	w	w	14,594	85.99
Arkansas	w	w	-	-	-	-	w	w
Colorado	w	w	-	-	w	w	w	w
Illinois	24,811	76.45	-	-	35,506	67.22	60,317	71.02
Indiana	16,445	94.65	-	-	-	-	16,445	94.65
Kentucky Total	w	w	w	w	-	-	74,602	77.53
Kentucky (East)	w	w	w	w	-	-	30,656	77.48
Kentucky (West)	43,945	77.57	-	-	-	-	43,945	77.57
Maryland	w	w	-	-	-	-	w	w
Montana	-	-	-	-	w	w	w	w
New Mexico	-	-	-	-	w	w	w	w
Ohio	w	w	-	-	w	w	21,811	83.07
Oklahoma	W	w	-	-	-	-	w	w
Pennsylvania Total	15,829	71.81	w	w	w	w	51,383	87.59
Pennsylvania (Anthracite)	w	w	w	w	-	-	126	68.83
Pennsylvania (Bituminous)	w	w	-	-	w	w	51,257	87.64
Tennessee	w	w	-	-	-	-	w	w
Utah	w	w	-	-	w	w	w	w
Virginia	w	w	-	-	w	w	14,164	86.53
West Virginia Total	50,463	75.14	w	w	w	w	98,387	81.63
West Virginia (Northern)	6,970	79.15	-	-	37,178	91.21	44,148	89.30
West Virginia (Southern)	43,493	74.50	w	w	w	w	54,240	75.39
Wyoming	-	-	-	-	w	w	w	W
U.S. Total	202,305	77.54	2,860	75.89	226,722	80.56	431,888	79.11

¹ Mines that produce greater than 50 percent of their coal by continuous mining methods.

Note: Productive capacity is the maximum amount of coal that can be produced annually. Capacity utilization is the ratio of total production to annual productive capacity. Excludes refuse recovery and mines producing less than 25,000 short tons, which are not required to provide data. Totals may not equal sum of components because of independent rounding.

² Mines that produce greater than 50 percent of their coal by conventional methods or mines that produce coal using shortwall, scoop loading, hand loading, or other methods or a 50/50 percent continuous/conventional split in mining method.

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

^{- =} No data reported.

w = Data withheld to avoid disclosure.

Recoverable Reserves

Table~14.~Recoverable~Coal~Reserves~and~Average~Recovery~Percentage~at~Producing~Mines~by~State, 2012~and~2011

	2012		2011		
Coal-Producing State	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	Percent Change Recoverable Coal Reserves
Alabama	265	53.63	306	55.39	-13.2
Alaska	W	w	w	w	w
Arizona	w	W	w	w	w
Arkansas	w	w	w	w	w
Colorado	300	69.62	225	68.47	33.5
Illinois	2,215	58.06	2,311	61.23	-4.1
Indiana	600	68.59	654	66.42	-8.3
Kansas	-	-	w	w	w
Kentucky Total	1,263	57.70	1,419	54.84	-11.0
Kentucky (East)	644	55.25	734	52.90	-12.2
Kentucky (West)	619	60.26	686	56.91	-9.8
Louisiana	w	w	w	w	w
Maryland	34	74.89	36	71.17	-6.9
Mississippi	w	w	w	w	w
Missouri	W	w	w	w	w
Montana	960	85.97	846	88.15	13.5
New Mexico	497	90.58	518	88.14	-4.1
North Dakota	1,128	90.38	1,183	90.42	-4.7
Ohio	235	68.57	258	64.02	-8.9
Oklahoma	11	64.34	11	64.54	0.6
Pennsylvania Total	554	62.80	615	63.22	-9.9
Pennsylvania (Anthracite)	131	40.81	128	38.84	2.2
Pennsylvania (Bituminous)	423	69.59	487	69.62	-13.0
Tennessee	4	57.27	8	59.63	-50.4
Texas	751	93.45	736	93.37	2.1
Utah	199	63.82	201	55.40	-0.9
Virginia	283	57.06	348	54.07	-18.8
West Virginia Total	1,842	57.27	2,076	55.36	-11.2
West Virginia (Northern)	480	59.99	483	62.45	-0.6
West Virginia (Southern)	1,362	56.31	1,593	53.21	-14.5
Wyoming	6,932	91.92	6,898	91.23	0.5
U.S. Total	18,664	77.99	19,223	76.73	-2.9

^{- =} No data reported.

Note: 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 refuse recovery and mines producing less than 25,000 short tons, which are not required to provide data. Totals may not equal sum of components because of independent rounding.

w = Data withheld to avoid disclosure.

Table 15. Recoverable Coal Reserves at Producing Mines, Estimated Recoverable Reserves, and Demonstrated Reserve by Mining Method, 2012

	Underg	round - Minab	le Coal	Surf	ace - Minable (Coal		Total		
Coal-Resource State	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines		Demonstrated Reserve Base	
Alabama	209	425	844	56	2,230	3,130	265	2,655	3,974	
Alaska	-	2,335	5,423	w	487	672	w	2,821	6,094	
Arizona	-	-	-	w	-	-	w	-		
Arkansas	w	127	272	-	101	144	w	228	416	
Colorado	w	5,811	11,073	w	3,744	4,759	300	9,555	15,832	
Georgia	-	1	2	-	1	2	-	2	4	
Idaho	-	2	4	-	-	-	-	2	4	
Illinois	w	27,792	87,493	w	10,044	16,502	2,215	37,835	103,995	
Indiana	252	3,544	8,556	348	318	544	600	3,862	9,100	
lowa	-	807	1,732	-	320	457	-	1,127	2,189	
Kansas	-	-	-	-	680	971	-	680	971	
Kentucky Total	1,071	6,947	16,130	192	7,266	12,583	1,263	14,213	28,713	
Kentucky (East)	w	360	644	w	5,030	9,008	644	5,390	9,652	
Kentucky (West)	w	6,587	15,486	w	2,236	3,574	619	8,823	19,061	
Louisiana	-	-	-	w	288	388	w	288	388	
Maryland	w	309	564	w	33	48	34	342	612	
Michigan	-	55	123	-	3	5	-	58	128	
Mississippi	-	-	-	w	-	-	w	-	-	
Missouri	-	689	1,479	w	3,155	4,507	w	3,844	5,986	
Montana	w	35,906	70,925	w	38,738	47,927	960	74,644	118,851	
New Mexico	w	2,763	6,073	w	4,075	5,819	497	6,838	11,892	
North Carolina	-	5	11	-	-	-	-	5	11	
North Dakota	-	-	-	1,128	6,711	8,797	1,128	6,711	8,797	
Ohio	w	7,614	17,306	w	3,717	5,679	235	11,331	22,985	
Oklahoma	w	571	1,225	w	221	315	11	791	1,540	
Oregon	-	6	15	-	2	3	-	9	17	
Pennsylvania Total	355	10,337	22,522	199	985	4,155	554	11,322	26,677	
Pennsylvania (Anthracite)	w	340	3,841	w	418	3,341	131	758	7,183	
Pennsylvania (Bituminous)	w	9,997	18,681	w	567	814	423	10,564	19,495	
South Dakota	-	-	-	-	277	366	-	277	366	
Tennessee	w	274	500	w	171	253	4	445	753	
Texas	-	-	-	751	9,252	12,019	751	9,252	12,019	
Utah	w	2,365	4,825	w	211	267	199	2,576	5,091	
Virginia	234	517	920	49	312	488	283	829	1,408	
Washington	-	674	1,332	-	6	8	-	681	1,340	
West Virginia Total	1,337	14,949	28,010	505	2,064	3,271	1,842	17,013	31,281	
West Virginia (Northern)	w	NA	NA	w	NA	NA	480	NA	NA	
West Virginia (Southern)	w	NA	NA	w	NA	NA	1,362	NA	NA	
Wyoming	w	22,926	42,456	w	14,487	17,495	6,932	37,413	59,951	
U.S. Total	6,656	147,750	329,814	12,008	109,898	151,571	18,664	257,648	481,385	

^{- =} No data reported.

NA = Not Available.

Notes: Recoverable coal reserves at producing mines represent the quantity of coal that can be recovered (i.e. mined) from existing coal reserves at reporting mines. EIA's estimated recoverable reserves include the coal in the demonstrated reserve base considered recoverable after excluding coal estimated to be unavailable due to land use restrictions, and after applying assumed mining recovery rates. This estimate does not include any specific economic feasibility criteria. The effective date for the demonstrated reserve base, as customarily worded, is 'Remaining as of January 1, 2013.' These data are contemporaneous with the Recoverable Reserves at Producing Mines, customarily presented as of the end of the reporting year's mining, that is in this case, December 31, 2012. The demonstrated reserve base includes publicly available data on coal mapped to measured and indicated degrees of accuracy and found at depths and in coalbed thicknesses considered technologically minable at the time of determinations; see Glossary for criteria. All reserve expressions exclude silt, culm, refuse bank, slurry dam, and dredge operations. Reserves at Producing Mines exclude mines producing less than 25,000 short tons, which are not required to provide reserves data.

w = Data withheld to avoid disclosure.

Table 16. Recoverable Coal Reserves and Average Recovery Percentage at Producing Underground Coal Mines by State and Mining Method, 2012

	Continuous ¹		Conventional a	and Other ²	Longw	all ³	Total		
Coal-Producing State	Recoverable Coal Reserves at Producing Mines	Average Recovery Percentage							
Alabama	w	w	-	-	w	w	209	45.95	
Arkansas	w	w	-	-	-	-	w	w	
Colorado	w	w	-	-	w	w	w	w	
Illinois	486	51.46	-	-	w	w	w	w	
Indiana	252	54.72	-	-	-	-	252	54.72	
Kentucky Total	w	w	w	w	-	-	1,071	52.78	
Kentucky (East)	w	w	w	w	-	-	w	w	
Kentucky (West)	w	w	-	-	-	-	w	w	
Maryland	w	w	-	-	-	-	w	w	
Montana	-	-	-	-	w	w	w	w	
New Mexico	-	-	-	-	w	w	w	w	
Ohio	w	w	-	-	w	w	w	w	
Oklahoma	w	w	-	-	-	-	w	w	
Pennsylvania Total	130	56.98	w	w	w	w	355	65.82	
Pennsylvania (Anthracite)	w	w	w	w	-	-	w	w	
Pennsylvania (Bituminous)	w	w	-	-	w	w	w	w	
Tennessee	w	w	-	-	-	-	w	w	
Utah	w	w	-	-	w	w	w	w	
Virginia	w	w	-	-	w	w	234	51.98	
West Virginia Total	784	47.56	w	w	w	w	1,337	50.97	
West Virginia (Northern)	113	51.41	-	-	w	w	w	w	
West Virginia (Southern)	671	46.92	w	w	w	w	w	w	
Wyoming	-	-	-	-	w	w	w	w	
U.S. Total	3,125	52.33	26	44.13	3,505	59.53	6,656	56.09	

¹ Mines that produce greater than 50 percent of their coal by continuous mining methods.

Note: Recoverable coal reserves at producing mines 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 mines producing less than 25,000 short tons, which are not required to provide data and refuse recovery.

² Mines that produce greater than 50 percent of their coal by conventional methods or mines that produce coal using shortwall, scoop loading, hand loading, or other methods or a 50/50 percent continuous/conventional split in mining method.

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

^{- =} No data reported.

w = Data withheld to avoid disclosure.

Table 17. Recoverable Coal Reserves and Average Recovery Percentage at Producing U.S. Mines by Mine Production Range and Mine Type, 2012

	Undergr	ound	Surfa	ce	Total		
Mine Production Range (thousand short tons)	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	
Over 1,000	4,874	57.96	11,153	91.28	16,028	81.15	
Over 500 to 1,000	531	47.14	226	81.90	757	57.49	
Over 200 to 500	604	52.72	333	69.16	938	58.57	
Over 100 to 200	320	50.82	183	74.25	503	59.32	
Over 50 to 100	147	52.96	62	83.82	209	62.08	
Over 10 to 50	178	55.14	51	73.87	229	59.30	
10 or Under	-	38.00	-	60.47		50.90	
U.S. Total	6,656	56.09	12,008	90.12	18,664	77.99	

Note: Recoverable coal reserves at producing mines 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.

Employment

Table 18. Average Number of Employees by State and Mine Type, 2012 and 2011

Coal-Producing State and Region ¹	2012			2011			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	3,190	1,851	5,041	3,138	1,618	4,756	1.7	14.4	6.0
Alaska	-	143	143	-	136	136	-	5.1	5.1
Arizona	-	432	432	-	419	419	-	3.1	3.1
Arkansas	70	3	73	67	3	70	4.5	-	4.3
Colorado	2,032	473	2,505	1,927	478	2,405	5.4	-1.0	4.2
Illinois	3,938	574	4,512	3,563	542	4,105	10.5	5.9	9.9
Indiana	2,054	1,881	3,935	1,880	1,660	3,540	9.3	13.3	11.2
Kansas	-	6	6	-	8	8	-	-25.0	-25.0
Kentucky Total	11,181	5,170	16,351	12,071	6,563	18,634	-7.4	-21.2	-12.3
Kentucky (East)	7,335	4,512	11,847	8,455	5,826	14,281	-13.2	-22.6	-17.0
Kentucky (West)	3,846	658	4,504	3,616	737	4,353	6.4	-10.7	3.5
Louisiana	-	270	270	-	259	259	-	4.2	4.2
Maryland	213	263	476	188	300	488	13.3	-12.3	-2.5
Mississippi	-	211	211	-	224	224	-	-5.8	-5.8
Missouri	-	32	32	-	26	26	-	23.1	23.1
Montana	320	913	1,233	296	955	1,251	8.1	-4.4	-1.4
New Mexico	435	856	1,291	464	828	1,292	-6.3	3.4	-0.1
North Dakota	-	1,228	1,228	-	1,169	1,169	-	5.0	5.0
Ohio	1,969	1,222	3,191	1,909	1,097	3,006	3.1	11.4	6.2
Oklahoma	55	144	199	49	135	184	12.2	6.7	8.2
Pennsylvania Total	6,120	2,807	8,927	5,892	2,773	8,665	3.9	1.2	3.0
Pennsylvania (Anthracite)	128	1,018	1,146	150	802	952	-14.7	26.9	20.4
Pennsylvania (Bituminous)	5,992	1,789	7,781	5,742	1,971	7,713	4.4	-9.2	0.9
Tennessee	175	188	363	179	326	505	-2.2	-42.3	-28.1
Texas	-	2,918	2,918	-	2,936	2,936	-	-0.6	-0.6
Utah	1,576	35	1,611	1,779	18	1,797	-11.4	94.4	-10.4
Virginia	3,763	1,235	4,998	3,796	1,465	5,261	-0.9	-15.7	-5.0
West Virginia Total	17,085	5,701	22,786	16,963	6,344	23,307	0.7	-10.1	-2.2
West Virginia (Northern)	5,590	301	5,891	5,238	408	5,646	6.7	-26.2	4.3
West Virginia (Southern)	11,495	5,400	16,895	11,725	5,936	17,661	-2.0	-9.0	-4.3
Wyoming	250	6,754	7,004	234	6,805	7,039	6.8	-0.7	-0.5
Appalachia Total	39,850	17,779	57,629	40,520	19,749	60,269	-1.7	-10.0	-4.4
Appalachia Central	22,768	11,335	34,103	24,154	13,552	37,706	-5.7	-16.4	-9.6
Appalachia Northern	13,892	4,593	18,485	13,227	4,578	17,805	5.0	0.3	3.8
Appalachia Southern	3,190	1,851	5,041	3,139	1,619	4,758	1.6	14.3	5.9
Interior Basin Total	9,963	6,697	16,660	9,175	6,530	15,705	8.6	2.6	6.1
Illinois Basin	9,838	3,113	12,951	9,059	2,939	11,998	8.6	5.9	7.9
Interior	125	3,584	3,709	116	3,591	3,707	7.8	-0.2	0.1
Western Total	4,613	10,834	15,447	4,700	10,808	15,508	-1.9	0.2	-0.4
Powder River Basin	-	6,983	6,983	-	7,041	7,041	-	-0.8	-0.8
Uinta Region	3,315	456	3,771	3,429	469	3,898	-3.3	-2.8	-3.3
Western	1,298	3,395	4,693	1,271	3,298	4,569	2.1	2.9	2.7
East of Mississippi River	49,688	21,103	70,791	49,579	22,912	72,491	0.2	-7.9	-2.3
West of Mississippi River	4,738	14,207	18,945	4,816	14,175	18,991	-1.6	0.2	-0.2
U.S. Subtotal	54,426	35,310	89,736	54,395	37,087	91,482	0.1	-4.8	-1.9
Refuse Recovery	-	-	102	-	-	129	-	-	-20.9

¹ For a definition of coal producing regions, see the Glossary.

Note: Includes all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes preparation plants with less than 5,000 employee hours per year, which are not required to provide data.

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

^{- =} No data reported.

Table 19. Average Number of Employees at Underground and Surface Mines by State and Mine Production Range, 2012

	Mine Production Range (thousand short tons)									
Coal-Producing State, Region ¹ and Mine Type	Above 1,000	Above 500 to 1,000	Above 200 to 500	Above 100 to 200	Above 50 to 100	Above 10 to 50	Above 0 to 10	Zero ²	Total Number of Employees	
Alabama	3,415	97	655	317	160	224	54	105	5,041	
Underground	2,981	-	-	-	36	88	-	81	3,190	
Surface	434	97	655	317	124	136	54	24	1,851	
Alaska	143	-	-	-	-	-	-		143	
Surface	143	-	-	-	-	-	-	-	143	
Arizona	432	-	-	-	-	-	-		432	
Surface	432	-	-	-	-	-	-	-	432	
Arkansas	-	-	-	-	70	-	3	-	73	
Underground	-	-	-	-	70	-	-	-	70	
Surface	-	-	-	-	-	-	3	-	3	
Colorado	2,161	81	27	-	96	58	-	82	2,505	
Underground	1,715	81	-	-	96	58	-	82	2,032	
Surface	446	-	27	-	-	-	-	-	473	
Illinois	3,781	351	115	46	31	-	-	188	4,512	
Underground	3,498	261	76	-	12	-	-	91	3,938	
Surface	283	90	39	46	19	-	-	97	574	
Indiana	2,904	468	222	107	57	7	63	94	3,935	
Underground	1,619	173	95	45	-	-	63	59	2,054	
Surface	1,285	295	127	62	57	7	-	35	1,881	
Kansas	-	-	-	-	-	6	-		6	
Surface						6			6	
Kentucky Total	4,243	2,088	3,522	1,575	1,397	1,061	484	1,930	16,351	
Underground	3,749	1,365	2,187	1,021	872	570	172	1,198	11,181	
Surface	494	723	1,335	554	525	491	312	732	5,170	
Kentucky (East)	687	1,668	3,444	1,564	1,392	1,026	455	1,560	11,847	
Underground	506	1,047	2,187	1,021	872	570	143	942	7,335	
Surface	181	621	1,257	543	520	456	312	618	4,512	
		420	78	11	5	35	29	370		
Kentucky (West)	3,556	318	- 76	- 11	-		29	256	4,504	
Underground	3,243				5	35	- 29		3,846	
Surface	313	102	78	11	-	- 35		114	658	
Louisiana	260			10		<u> </u>			270	
Surface	260	-	- 204	10	-		- 45	-	270	
Maryland	-	-	204	122	59	32	15	44	476	
Underground	-		144	27	-	- 22	- 15	42	213	
Surface		-	60	95	59	32	15	2	263	
Mississippi	211	•	•	-	-	-	-	-	211	
Surface	211	-	-	-	-	-	-	-	211	
Missouri	-	-	18	-	14	-	-	-	32	
Surface	-	-	18	-	14	-	-	-	32	
Montana	1,219	-	14	-	-	-	-	•	1,233	
Underground	320	-	-	-	-	-	-	-	320	
Surface	899	-	14	-	-	-	-	-	913	
New Mexico	1,291	-	-	-	-	-	-	-	1,291	
Underground	435	-	-	-	-	-	-	-	435	
Surface	856	-	-	-	-	-	-	-	856	
North Dakota	1,228	-	-	-	-	-	-	-	1,228	
Surface	1,228	-	-	-	-	-	-	-	1,228	
Ohio	1,691	646	463	131	42	54	37	127	3,191	
Underground	1,560	167	131	46	-	-	18	47	1,969	
Surface	131	479	332	85	42	54	19	80	1,222	
Oklahoma	-	-	134	30	-	18	17	-	199	
Underground	-	-	55	-	-	-	-	-	55	
Surface	-	-	79	30	-	18	17	-	144	
Pennsylvania Total	3,997	483	1,693	707	348	600	241	715	8,927	
Underground	3,997	483	921	220	80	88	33	225	6,120	
Surface	-	-	772	487	268	512	208	490	2,807	
Pennsylvania (Anthracite)	-	-	84	135	99	266	107	409	1,146	
Underground	-	-		-	-	56	33	36	128	
Surface	-	-	84	135	99	210	74	373	1,018	

Mine Production Range (thousand short tons)

	Mine Production Range (thousand short tons)									
Coal-Producing State, Region ¹ and Mine Type	Above 1,000	Above 500 to 1,000	Above 200 to 500	Above 100 to 200	Above 50 to 100	Above 10 to 50	Above 0 to 10	Zero ²	Total Number of Employees	
Pennsylvania (Bituminous)	3,997	483	1,609	572	249	334	134	306	7,781	
Underground	3,997	483	921	220	80	32	-	189	5,992	
Surface	-	-	688	352	169	302	134	117	1,789	
Tennessee	-	-	74	76	58	73	45	33	363	
Underground			74		41	16	27	17	175	
Surface	_	_	-	76	17	57	18	16	188	
Texas	2,779	139	-	-	-				2,918	
Surface	2,779	139				_			2,918	
Utah	1,319	92	101					89	1,611	
Underground	1,319	67	101					89	1,576	
Surface	1,313	25	101					- 63	35	
	71.0		1 000		202		73			
Virginia	716	727	1,809	462	393	264		504	4,998	
Underground	716	541	1,265	341	215	189	64	388	3,763	
Surface		186	544	121	178	75	9	116	1,235	
West Virginia Total	8,760	3,268	4,612	2,425	630	604	293	2,128	22,786	
Underground	7,097	1,758	3,408	2,089	509	473	209	1,489	17,085	
Surface	1,663	1,510	1,204	336	121	131	84	639	5,701	
West Virginia (Northern)	4,702	81	464	309	10	53	38	234	5,891	
Underground	4,702	-	377	267	-	24	23	197	5,590	
Surface	-	81	87	42	10	29	15	37	301	
West Virginia (Southern)	4,058	3,187	4,148	2,116	620	551	255	1,894	16,895	
Underground	2,395	1,758	3,031	1,822	509	449	186	1,292	11,495	
Surface	1,663	1,429	1,117	294	111	102	69	602	5,400	
Wyoming	6,797	192	-	-	-	3	1	11	7,004	
Underground	250	-	-	-	-	-	-	-	250	
Surface	6,547	192	-	-	-	3	1	11	6,754	
Appalachia Total	19,266	6,889	12,954	5,804	3,082	2,877	1,213	5,216	57,629	
Underground	16,857	3,996	8,130	3,744	1,753	1,424	494	3,231	39,850	
Surface	2,409	2,893	4,824	2,060	1,329	1,453	719	1,985	17,779	
Appalachia Central	5,461	5,582	9,475	4,218	2,463	1,914	828	3,991	34,103	
Underground	3,617	3,346	6,557	3,184	1,637	1,224	420	2,639	22,768	
Surface	1,844	2,236	2,918	1,034	826	690	408	1,352	11,335	
Appalachia Northern	10,390	1,210	2,824	1,269	459	739	331	1,120	18,485	
Underground	10,259	650	1,573	560	80	112	74	511	13,892	
Surface	131	560	1,251	709	379	627	257	609	4,593	
Appalachia Southern	3,415	97	655	317	160	224	54	105	5,041	
Underground	2,981	-	-	-	36	88	-	81	3,190	
Surface	434	97	655	317	124	136	54	24	1,851	
Interior Basin Total	13,491	1,378	567	204	177	66	112	652		
Underground	8,360	752	226	45	82	-	92	406	9,963	
Surface	5,131	626	341	159	95	66	20	246		
Illinois Basin	10,241	1,239	415	164	93	42	92	652		
Underground	8,360	752	171	45	12	-	92	406	9,838	
Surface	1,881	487	244	119	81	42	- 32	246		
Interior	3,250	139	152	40	84	24	20	-	3,709	
	3,230									
Underground	2.250	120	55	- 40	70	- 24	- 20		125	
Surface	3,250	139	97	40	14	24	20	-	3,584	
Western Total	14,590	365	142	-	96	61	1	182	•	
Underground	4,039	148	101		96	58	-	171	4,613	
Surface	10,551	217	41	-	-	3	1	11	10,834	
Powder River Basin	6,972	-	-	-	-	-	-	11	6,983	
Surface	6,972	-	-	-	-	-	-	11	6,983	
Uinta Region	3,480	67	101	-	-	19	-	94	3,771	
Underground	3,034	67	101	-	-	19	-	94	3,315	
Surface	446	-	-	-	-	-	-	-	456	
Western	4,138	298	41	-	96	42	1	77	4,693	
Underground	1,005	81	-	-	96	39	-	77	1,298	
Surface	3,133	217	41	-	-	3	1	-	3,395	
East of Mississippi River	29,718	8,128	13,369	5,968	3,175	2,919	1,305	5,868	70,791	
Underground	25,217	4,748	8,301	3,789	1,765	1,424	586	3,637	49,688	
Surface	4,501	3,380	5,068	2,179	1,410	1,495	719	2,231	21,103	
West of Mississippi River	17,629	504	294	40	180	85	21	182	18,945	

Mine Production Range (thousand short tons)

Coal-Producing State, Region ¹ and Mine Type	Above 1,000	Above 500 to 1,000	Above 200 to 500	Above 100 to 200	Above 50 to 100	Above 10 to 50	Above 0 to 10	Zero ²	Total Number of Employees
Surface	13,590	356	138	40	14	27	21	11	14,207
U.S. Subtotal	47,347	8,632	13,663	6,008	3,355	3,004	1,326	6,050	89,736
Underground	29,256	4,896	8,457	3,789	1,931	1,482	586	3,808	54,426
Surface	18,091	3,736	5,206	2,219	1,424	1,522	740	2,242	35,310
Refuse Recovery	-	7	-	23	12	28	32	-	102
U.S. Total	47,347	8,639	13,663	6,031	3,367	3,032	1,358	6,050	89,838

¹ For a definition of coal producing regions, see the Glossary.

Note: Includes all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes preparation plants with less than 5,000 employee hours per year, which are not required to provide data.

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

² Includes all employees at preparation plants and tipples not co-located with a mine.

^{- =} No data reported.

Table 20. Average Number of Employees at Underground and Surface Mines by State and Union Status, 2012

7 1 B - 1 - 1 - 64-4-	Union		Nonunion			
Coal-Producing State and Region ¹	Underground	Surface	Underground	Surface		
Alabama	3,044	70	89	1,677		
Alaska	-	143	-	-		
Arizona	-	432	-	-		
Arkansas	-	-	70	-		
Colorado	174	212	1,858	261		
Illinois	647	58	3,291	534		
Indiana	-	-	2,054	1,868		
Kentucky Total	564	93	10,122	4,595		
Kentucky (East)	48	93	6,821	3,943		
Kentucky (West)	516	-	3,301	652		
Louisiana	-	-	-	270		
Maryland	-	-	213	237		
Mississippi	-	-	-	211		
Missouri	-	-	-	32		
Montana	-	653	320	260		
New Mexico	435	435	-	421		
North Dakota	-	292	-	936		
Ohio	645	-	1,306	1,184		
Oklahoma	-	-	55	127		
Pennsylvania Total	1,972	340	4,042	2,133		
Pennsylvania (Anthracite)	-	275	92	650		
Pennsylvania (Bituminous)	1,972	65	3,950	1,483		
Tennessee	-	-	148	130		
Texas	-	1,874	-	1,044		
Utah	330	-	1,246	25		
Virginia	358	12	3,237	1,194		
West Virginia Total	4,747	931	12,004	4,652		
West Virginia (Northern)	3,557	-	1,986	280		
West Virginia (Southern)	1,190	931	10,018	4,372		
Wyoming	250	472	-	6,278		
Appalachia Total	10,814	1,446	27,860	15,150		
Appalachia Central	1,596	1,036	20,224	9,639		
Appalachia Northern	6,174	340	7,547	3,834		
Appalachia Southern	3,044	70	89	1,677		
Interior Basin Total	1,163	1,932	8,771	4,738		
Illinois Basin	1,163	58	8,646	3,054		
Interior	-	1,874	125	1,684		
Western Total	1,189	2,639	3,424	8,181		
Powder River Basin	- · · · · · · · · · · · · · · · · · · ·	639	-	6,344		
Uinta Region	504	185	2,811	261		
Western	685	1,815	613	1,576		
East of Mississippi River	11,977	1,504	36,506	18,415		
West of Mississippi River	1,189	4,513	3,549	9,654		
U.S. Total	13,166	6,017	40,055	28,069		

¹ For a definition of coal producing regions, see the Glossary.

Note: Includes all employees at preparation plants and tipples not co-located with a mine. Includes 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 25,000 short tons and preparation plants with less than 5,000 employee hours per year, which are not required to provide data.

^{- =} No data reported.

Productivity

Table 21. Coal Productivity by State and Mine Type, 2012 and 2011

	Number of M	Mining Opera	tions ²	Numbe	r of Employees	s ³	Average Production per Employee Hour (short tons) ⁴		
Coal-Producing State, Region ¹ and Mine Type	2012	2011	Percent Change	2012	2011	Percent Change	2012	2011	Percent Change
Alabama	54	62	-12.9	5,041	4,756	6.0	1.68	1.66	0.7
Underground	11	12	-8.3	3,190	3,138	1.7	1.64	1.45	13.2
Surface	43	50	-14.0	1,851	1,618	14.4	1.75	2.08	-15.8
Alaska	1	1	-	143	136	5.1	5.98	6.48	-7.7
Surface	1	1		143	136	5.1	5.98	6.48	-7.7
Arizona	1	1		432	419	3.1	7.38	8.44	-12.6
			<u>-</u>						
Surface	1	1		432	419	3.1	7.38	8.44	-12.6
Arkansas		2	-	73	70	4.3	0.58	0.70	-16.5
Underground	1	1	-	70	67	4.5	0.59	0.68	-13.5
Surface	1	1	-	3	3	-	0.37	1.32	-71.9
Colorado	14	12	16.7	2,505	2,405	4.2	5.79	5.48	5.7
Underground	11	9	22.2	2,032	1,927	5.4	5.93	5.42	9.3
Surface	3	3	-	473	478	-1.0	5.21	5.69	-8.5
Illinois	34	35	-2.9	4,512	4,105	9.9	4.76	4.03	18.1
Underground	21	22	-4.5	3,938	3,563	10.5	4.83	4.03	19.8
Surface	13	13	-	574	542	5.9	4.31	4.03	6.9
Indiana	39	38	2.6	3,935	3,540	11.2	4.19	4.25	-1.3
Underground	13	12	8.3	2,054	1,880	9.3	3.23	3.43	-6.0
Surface	26	26	-	1,881	1,660	13.3	5.37	5.22	2.8
Kansas	1	1	-	6	8	-25.0	0.99	1.98	-49.8
Surface	1	1	-	6	8	-25.0	0.99	1.98	-49.8
Kentucky Total	484	540	-10.4	16,351	18,634	-12.3	2.56	2.48	3.2
Underground	213	237	-10.1	11,181	12,071	-7.4	2.37	2.27	4.4
Surface	271	303	-10.6	5,170	6,563	-21.2	2.97	2.86	3.7
Kentucky (East)	443	500	-11.4	11,847	14,281	-17.0	1.99	2.05	-3.1
Underground	192	216	-11.1	7,335	8,455	-13.2	1.61	1.69	-4.7
Surface	251	284	-11.6	4,512	5,826	-22.6	2.58	2.58	-0.1
Kentucky (West)	41	40	2.5	4,504	4,353	3.5	3.82	3.77	1.2
Underground	21	21		3,846	3,616	6.4	3.55	3.53	0.5
Surface	20	19	5.3	658	737	-10.7	5.59	4.96	12.7
Louisiana	2	1	100.0	270	259	4.2	6.86	7.06	-2.9
Surface	2	1	100.0	270	259	4.2	6.86	7.06	-2.9
	23	24	-4.2	476	488	-2.5	2.28	2.66	-14.4
Maryland			-4.2						
Underground	4	4	-	213	188	13.3	1.80	2.11	-14.7
Surface	19	20	-5.0	263	300	-12.3	2.66	2.99	-11.2
Mississippi	1	1	-	211	224	-5.8	6.73	6.14	9.6
Surface	1	1	-	211	224	-5.8	6.73	6.14	9.6
Missouri	2	2	-	32	26	23.1	6.73	6.86	-1.8
Surface	2	2	-	32	26	23.1	6.73	6.86	-1.8
Montana	6	6	-	1,233	1,251	-1.4	14.46	16.37	-11.7
Underground	1	1	-	320	296	8.1	7.47	7.23	3.4
Surface	5	5	-	913	955	-4.4	17.47	19.87	-12.1
New Mexico	4	6	-33.3	1,291	1,292	-0.1	8.14	8.38	-2.8
Underground	1	3	-66.7	435	464	-6.3	5.19	4.43	17.2
Surface	3	3	-	856	828	3.4	9.70	10.44	-7.1
North Dakota	4	5	-20.0	1,228	1,169	5.0	11.57	12.10	-4.4
Surface	4	5	-20.0	1,228	1,169	5.0	11.57	12.10	-4.4
Ohio	51	60	-15.0	3,191	3,006	6.2	3.69	3.90	-5.5
Underground	14	16	-12.5	1,969	1,909	3.1	4.01	4.25	-5.7
Surface	37	44	-15.9	1,222	1,097	11.4	3.13	3.33	-6.1
Oklahoma	7	6	16.7	199	184	8.2	2.21	2.44	-9.3
Underground	1	1	-	55	49	12.2	2.37	3.07	-23.0
Surface	6	5	20.0	144	135	6.7	2.14	2.19	-2.1
Pennsylvania Total	328	335	-2.1	8,927	8,665	3.0	2.81	3.01	-6.8
Underground	81	81		6,120	5,892	3.9	3.22	3.44	-6.4
Surface	247	254	-2.8	2,807	2,773	1.2	1.75	2.01	-12.6
Pennsylvania (Anthracite)	113	105	7.6	1,146	952	20.4	1.02	1.11	-7.9
Underground	23	22	4.5	128	150	-14.7	0.50	0.63	-19.7
-	90	83							
Surface	90	83	8.4	1,018	802	26.9	1.08	1.18	-8.9

	Number of N	Aining Opera	tions ²	Numbe	r of Employees	3	(sh	ort tons)4	
Coal-Producing State, Region ¹	2012	2011	Percent	2012	2011	Percent	2012	2011	Percent
and Mine Type	2012	2011	Change	2012	2011	Change	2012	2011	Change
Pennsylvania (Bituminous)	215	230	-6.5	7,781	7,713	0.9	3.04	3.22	-5.4
Underground	58	59	-1.7	5,992	5,742	4.4	3.27	3.50	-6.5
Surface	157	171	-8.2	1,789	1,971	-9.2	2.16	2.33	-7.5
Tennessee	20	30	-33.3	363	505	-28.1	1.58	1.44	9.4
Underground	7	10	-30.0	175	179	-2.2	1.63	1.16	40.8
Surface	13	20	-35.0	188	326	-42.3	1.53	1.59	-4.0
Texas	12	13	-7.7	2,918	2,936	-0.6	6.93	7.25	-4.4
Surface	12	13	-7.7	2,918	2,936	-0.6	6.93	7.25	-4.4
Utah	16	15	6.7	1,611	1,797	-10.4	5.08	5.12	-0.7
Underground	14	13	7.7	1,576	1,779	-11.4	5.04	5.17	-2.5
Surface	2	2	-	35	18	94.4	6.54	-	-
Virginia	137	152	-9.9	4,998	5,261	-5.0	1.74	1.81	-3.7
Underground	79	83	-4.8	3,763	3,796	-0.9	1.51	1.71	-11.6
Surface	58	69	-15.9	1,235	1,465	-15.7	2.44	2.08	17.6
West Virginia Total	388	402	-3.5	22,786	23,307	-2.2	2.38	2.45	-2.8
Underground	227	229	-0.9	17,085	16,963	0.7	2.15	2.10	2.3
Surface	161	173	-6.9	5,701	6,344	-10.1	3.04	3.36	-9.5
West Virginia (Northern)	52	52	-	5,891	5,646	4.3	3.17	3.23	-1.6
Underground	31	29	6.9	5,590	5,238	6.7	3.17	3.20	-1.0
Surface	21	23	-8.7	301	408	-26.2	3.22	3.52	-8.3
West Virginia (Southern)	336	350	-4.0	16,895	17,661	-4.3	2.10	2.21	-4.8
Underground	196	200	-2.0	11,495	11,725	-2.0	1.64	1.62	1.3
Surface	140	150	-6.7	5,400	5,936	-9.0	3.03	3.35	-9.4
Wyoming	19	18	5.6	7,004	7,039	-0.5	27.74	29.34	-5.5
Underground	1	1		250	234	6.8	7.81	5.36	45.5
Surface	18	17	5.9	6,754	6,805	-0.7	28.59	30.29	-5.6
Appalachia Total		1,565	-7.7	57,629	•	-4.4	2.32	2.38	-3.6
	1,444				60,269				
Underground	615	651	-5.5	39,850	40,520	-1.7	2.22	2.22	-0.1
Surface	829	914	-9.3	17,779	19,749	-10.0	2.56	2.72	-6.1
Appalachia Central	936	1,030	-9.1	34,103	37,706	-9.6	2.01	2.08	-3.7
Underground	474	508	-6.7	22,768	24,154	-5.7	1.61	1.65	-2.8
Surface	462	522	-11.5	11,335	13,552	-16.4	2.77	2.85	-2.7
Appalachia Northern	454	471	-3.6	18,485	17,805	3.8	3.07	3.23	-5.0
Underground	130	130		13,892	13,227	5.0	3.30	3.45	-4.4
Surface	324	341	-5.0	4,593	4,578	0.3	2.30	2.57	-10.5
Appalachia Southern	54	64	-15.6	5,041	4,758	5.9	1.68	1.66	0.7
Underground	11	13	-15.4	3,190	3,139	1.6	1.64	1.45	13.3
Surface	43	51	-15.7	1,851	1,619	14.3	1.75	2.08	-15.7
Interior Basin Total	141	139	1.4	16,660	15,705	6.1	4.73	4.59	2.9
Underground	57	57	-	9,963	9,175	8.6	3.94	3.67	7.4
Surface	84	82	2.4	6,697	6,530	2.6	6.01	5.98	0.4
Illinois Basin	114	113	0.9	12,951	11,998	7.9	4.25	4.00	6.2
Underground	55	55	-	9,838	9,059	8.6	3.97	3.70	7.5
Surface	59	58	1.7	3,113	2,939	5.9	5.20	4.94	5.4
Interior	27	26	3.8	3,709	3,707	0.1	6.50	6.73	-3.4
Underground	2	2	-	125	116	7.8	1.43	1.68	-14.6
Surface	25	24	4.2	3,584	3,591	-0.2	6.70	6.93	-3.4
Western Total	65	64	1.6	15,447	15,508	-0.4	17.09	18.07	-5.5
Underground	28	27	3.7	4,613	4,700	-1.9	5.79	5.36	8.0
Surface	37	37	-	10,834	10,808	0.2	21.95	23.67	-7.3
Powder River Basin	17	16	6.3	6,983	7,041	-0.8	29.35	31.33	-6.3
Surface	17	16	6.3	6,983	7,041	-0.8	29.35	31.33	-6.3
Uinta Region	24	23	4.3	3,771	3,898	-3.3	5.67	5.61	1.0
Underground	21	19	10.5	3,315	3,429	-3.3	5.75	5.64	1.9
Surface	3	4	-25.0	456	469	-2.8	5.01	5.37	-6.7
Western	24	25	-4.0	4,693	4,569	2.7	8.22	8.25	-0.3
Underground	7	8	-12.5	1,298	1,271	2.1	5.89	4.63	27.1
Surface	17	17	-	3,395	3,298	2.9	9.13	9.71	-6.0
East of Mississippi River	1,559	1,679	-7.1	70,791	72,491	-2.3	2.70	2.67	1.3
Underground	670	706	-5.1	49,688	49,579	0.2	2.58	2.49	3.6
Surface	889	973	-8.6	21,103	22,912	-7.9	2.99	3.04	-1.9
West of Mississippi River	91	89	2.2	18,945	18,991	-0.2	15.03	15.93	-5.7
Underground	30	29	3.4	4,738	4,816	-1.6	5.65	5.25	7.7
- Chacipiouna	30	23	5.4	7,730	7,010	1.0	5.05	3.23	

	Number of Mining Operations ²			Number of Employees ³			Average Production per Employee Hour (short tons) ⁴		
Coal-Producing State, Region ¹ and Mine Type	2012	2011	Percent Change	2012	2011	Percent Change	2012	2011	Percent Change
Surface	61	60	1.7	14,207	14,175	0.2	18.15	19.59	-7.3
U.S. Subtotal	1,650	1,768	-6.7	89,736	91,482	-1.9	5.19	5.19	-0.1
Underground	700	735	-4.8	54,426	54,395	0.1	2.84	2.72	4.4
Surface	950	1,033	-8.0	35,310	37,087	-4.8	8.97	8.97	-
Refuse Recovery	45	29	55.2	102	129	-20.9	6.97	7.35	-5.2
U.S. Total	1,695	1,797	-5.7	89,838	91,611	-1.9	5.19	5.19	-0.2

 $^{{\}bf 1}$ For a definition of coal producing regions, see the Glossary.

 $Note: Excludes\ preparation\ plants\ with\ less\ than\ 5,000\ employee\ hours\ per\ year,\ which\ are\ not\ required\ to\ provide\ data.$

² Mining operations that consist of a mine and preparation plant or preparation plant processing both underground and surface coal are reported as two operations.

³ Includes all employees engaged in production, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers.

⁴ Calculated by dividing total coal production by the total labor hours worked by all employees engaged in production, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers.

^{*} Absolute percentage less than 0.05.

^{- =} No data reported.

Table 22. Underground Coal Mining Productivity by State and Mining Method, 2012

(short tons produced per employee hour)

		Conventional and		
Coal-Producing State, Region ¹ and Mine Type	Continuous ²	Other ³	Longwall ⁴	Total
Alabama	0.71	-	1.69	1.66
Arkansas	0.59	-	-	0.59
Colorado	1.90	-	6.38	5.93
Illinois	3.65	-	6.60	4.86
Indiana	3.25	-	-	3.25
Kentucky Total	2.43	1.77	•	2.39
Kentucky (East)	1.61	1.77	-	1.62
Kentucky (West)	3.61	-	-	3.56
Maryland	1.80	-	-	1.80
Montana	-	-	7.47	7.47
New Mexico	-	-	5.19	5.19
Ohio	2.44	-	4.96	4.02
Oklahoma	2.37	-	-	2.37
Pennsylvania Total	2.25	0.92	3.79	3.23
Pennsylvania (Anthracite)	0.40	0.92	-	0.45
Pennsylvania (Bituminous)	2.32	-	3.79	3.27
Tennessee	1.90	-	-	1.90
Utah	4.16	-	5.15	5.04
Virginia	1.32	-	2.50	1.52
West Virginia Total	1.62	1.28	3.15	2.16
West Virginia (Northern)	1.88	-	3.58	3.18
West Virginia (Southern)	1.59	1.28	2.09	1.65
Wyoming	-	-	7.81	7.81
Appalachia Total	1.67	1.62	3.13	2.23
Appalachia Central	1.56	1.63	2.20	1.62
Appalachia Northern	2.15	0.92	3.86	3.30
Appalachia Southern	0.71	-	1.69	1.66
Interior Basin Total	3.50	-	6.60	3.96
Illinois Basin	3.53	-	6.60	3.99
Interior	1.43	-	-	1.43
Western Total	2.98	-	6.04	5.79
Uinta Region	3.88	-	5.87	5.75
Western	1.96	-	6.49	5.89
East of Mississippi River	2.18	1.62	3.46	2.60
West of Mississippi River	2.53	-	6.04	5.65
U.S. Total	2.19	1.62	3.95	2.86

¹ For a definition of coal producing regions, see the Glossary.

Note: For each State, stand alone preparation plant hours are distributed across mining methods by the proportion of underground hours 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 25,000 short tons of coal and preparation plants with less than 5,000 employee hours during the year, which are not required to provide data.

 $^{{\}bf 2}$ Mines that produce greater than 50 percent of their coal by continuous mining methods.

³ Mines that produce greater than 50 percent of their coal by conventional mining methods or mines that produce coal using shortwall, scoop loading, hand loading, or other methods or a 50/50 percent continuous/conventional split in mining method.

⁴ Mines that have any production from longwall mining method. A typical longwall mining operation use 80 percent longwall mining and 20 percent continuous mining.

^{- =} No data reported.

Table 23. Coal Mining Productivity by State, Mine type, and Mine Production Range, 2012

(short tons produced per employee hour)

Mine Production	Range	(thousand	short tons)

			Mine Productio	n Range (thousan	d short tons)			
Coal-Producing State, Region ¹ and Mine Type	Above 1,000	Above 500 to 1,000	Above 200 to 500	Above 100 to 200	Above 50 to 100	Above 10 to 50	10 or Under	Total ²
Alabama	1.69	2.50	1.95	1.72	1.83	0.69	0.55	1.68
Underground	1.73	-	-	-	1.08	0.31	-	1.64
Surface	1.36	2.50	1.95	1.72	2.11	1.19	0.55	1.75
Alaska	5.98	-	-	-	-	-	-	5.98
Surface	5.98	-	-	-	-	-	-	5.98
Arizona	7.38	-	-	-	-	-	-	7.38
Surface	7.38	-	-	-	-	-	-	7.38
Arkansas	-	-	-	-	0.59	-	0.37	0.58
Underground	-	-	-	-	0.59	-	-	0.59
Surface	-	-	-	-	-	-	0.37	0.37
Colorado	6.19	3.16	6.73	-	0.48	0.96	-	5.79
Underground	6.46	3.16	-	-	0.48	0.96	-	5.93
Surface	5.12	-	6.73	-	-	-	-	5.21
Illinois	5.07	3.89	3.92	4.17	2.43	-	-	4.76
Underground	5.08	3.30	-	-	-	-	-	4.83
Surface	4.94	5.39	5.61	4.17	2.91	-	-	4.31
Indiana	4.49	4.10	4.57	2.39	1.41	3.28	0.6	4.19
Underground	3.58	2.19	3.11	-		-	0.6	3.23
Surface	5.86	5.11	5.59	3.11	1.41	3.28	-	5.37
Kansas			-			0.99		0.99
Surface					-	0.99		0.99
Kentucky Total	3.96	2.92	2.53	2.13	1.74	1.55	0.82	2.56
Underground	3.69	2.37	1.87	1.70	1.70	1.22	0.65	2.37
Surface	6.06	3.91	3.52	2.91	1.82	1.83	0.89	2.97
Kentucky (East)	2.75	2.75	2.49	2.12	1.72	1.47	0.86	1.99
	2.07	2.30	1.87	1.70	1.72	1.22	0.76	1.61
Underground Surface	4.55	3.42	3.47	2.87	1.76	1.68	0.76	2.58
Kentucky (West)	4.19	3.59	4.43	5.63	8.78	4.87	0.35	3.82
			- 4.43					
Underground	3.93	2.57			- 0.70	4.07	0.35	3.55
Surface	6.95	7.91	4.43	5.63	8.78	4.87	-	5.59
Louisiana	6.92	-	-	5.12	-		-	6.86
Surface	6.92			5.12				6.86
Maryland	-	-	2.76	2.56	2.23	2.28	0.71	2.28
Underground	-	-	2.28	2.26	-	-	-	1.80
Surface	-	-	3.75	2.64	2.23	2.28	0.71	2.66
Mississippi	6.73	-	-	-	-	-	-	6.73
Surface	6.73	-	-	-	-	-	-	6.73
Missouri	-	-	7.61	-	4.33	-	-	6.73
Surface	-	-	7.61	-	4.33	-	-	6.73
Montana	14.50	-	10.85	-	-	-	-	14.46
Underground	7.47	-	-	-	-	-	-	7.47
Surface	17.57	-	10.85	-	-	-	-	17.47
New Mexico	8.14	-	-	-	-	-	-	8.14
Underground	5.19	-	-	-	-	-	-	5.19
Surface	9.70	-	-	-	-	-	-	9.70
North Dakota	11.57	-	-	-	-	-	-	11.57
Surface	11.57	-	-	-	-	-	-	11.57
Ohio	4.51	3.12	3.21	1.73	1.39	3.14	0.65	3.69
Underground	4.53	1.64	3.33	1.37	-	-	0.41	4.01
Surface	4.27	3.65	3.17	1.95	1.39	3.14	0.85	3.13
Oklahoma	-	-	2.39	2.14	-	1.26	0.60	2.21
Underground	-	-	2.37	-	-	-	-	2.37
Surface	-	-	2.40	2.14	-	1.26	0.60	2.14
Pennsylvania Total	3.82	2.95	2.49	2.16	2.13	1.64	1.05	2.81
Underground	3.82	2.95	2.61	1.27	1.47	0.74	0.72	3.22
Surface	-	-	2.33	2.60	2.35	1.81	1.11	1.75
Pennsylvania (Anthracite)	-	-	2.81	1.99	1.57	1.43	0.73	1.02
Underground	-	-	-	-	-	0.78	0.72	0.50

Mine Production Range (thousand short tons)

Coal-Producing State, Region ¹		Above 500	Above 200	Above 100	Above 50	Above 10	10 77 7	
and Mine Type	Above 1,000	to 1,000	to 500	to 200	to 100	to 50	10 or Under	Total ²
Surface	-	-	2.81	1.99	1.57	1.62	0.74	1.08
Pennsylvania (Bituminous)	3.82	2.95	2.47	2.20	2.35	1.80	1.44	3.04
Underground	3.82	2.95	2.61	1.27	1.47	0.67	- 1 14	3.27
Surface		-	2.25	2.81	2.81	1.94	1.44	2.16
Tennessee	-	-	2.58 2.58	1.73	1.40 1.20	2.05 1.16	0.28 0.25	1.58 1.63
Underground Surface			2.36	1.73	1.68	2.54	0.38	
Texas	7.11	3.11	-	1./3	1.00	2.54	0.36	1.53 6.93
Surface	7.11	3.11	<u> </u>	<u> </u>		<u> </u>		6.93
Utah	5.41	7.41	2.62					5.08
Underground	5.41	6.94	2.62		<u>-</u>	<u>-</u>		5.04
Surface	5.41	8.41	2.02	-	-		<u> </u>	6.54
Virginia	2.50	1.93	2.00	2.03	1.52	1.08	0.53	1.74
Underground	2.50	1.70	1.58	1.50	1.24	1.14	0.57	1.51
Surface	2.30	2.49	2.99	3.38	1.99	0.87	0.38	2.44
West Virginia Total	3.26	2.49	2.07	1.52	1.63	1.36	0.31	2.38
Underground	3.11	2.17	1.71	1.37	1.41	1.14	0.22	2.15
Surface	3.81	3.57	3.12	2.39	2.25	2.03	0.52	3.04
West Virginia (Northern)	3.47	5.12	2.24	1.51	6.73	2.03	0.56	3.04
Underground	3.47		2.24	1.09	- 0.75	1.61	0.30	3.17
Surface	J.47 -	5.12	2.16	3.92	6.73	2.88	1.13	3.17
West Virginia (Southern)	3.02	2.76	2.05	1.52	1.57	1.25	0.27	2.10
Underground	2.42	2.70	1.65	1.40	1.41	1.13	0.21	1.64
Surface	3.81	3.49	3.16	2.21	2.05	1.13	0.42	3.03
Wyoming	28.51	2.24	3.10		-	4.11	0.62	27.74
Underground	7.81					4.11		7.81
Surface	29.42	2.24				4.11	0.62	28.59
Appalachia Total	3.16	2.74	2.27	1.85	1.73	1.43	0.67	2.32
Underground	3.10	2.21	1.88	1.47	1.51	1.04	0.40	2.22
Surface	3.56	3.44	2.92	2.52	2.00	1.77	0.86	2.56
Appalachia Central	2.93	2.65	2.21	1.81	1.64	1.36	0.54	2.01
Underground	2.39	2.13	1.72	1.51	1.53	1.17	0.38	1.61
Surface	3.88	3.37	3.27	2.66	1.85	1.66	0.73	2.77
Appalachia Northern	3.78	3.19	2.59	2.02	2.15	1.78	0.93	3.07
Underground	3.77	2.62	2.54	1.26	1.47	0.77	0.53	3.30
Surface	4.27	3.88	2.65	2.59	2.31	1.95	1.05	2.30
Appalachia Southern	1.69	2.50	1.95	1.72	1.83	0.69	0.55	1.68
Underground	1.73	-	-	-	1.08	0.31	-	1.64
Surface	1.36	2.50	1.95	1.72	2.11	1.19	0.55	1.75
Interior Basin Total	5.15	3.80	3.97	3.12	1.45	2.74	0.15	4.73
Underground	4.32	2.71	2.47	-	0.57	-	0.11	3.94
Surface	6.65	5.13	4.72	3.42	2.62	2.74	0.53	6.01
Illinois Basin	4.59	3.87	4.42	3.31	2.24	4.44	0.11	4.25
Underground	4.32	2.71	2.53	-	-	-	0.11	3.97
Surface	5.91	5.62	5.26	3.79	2.36	4.44	-	5.20
Interior	7.07	3.11	3.00	2.72	0.93	1.18	0.53	6.50
Underground	-	-	2.37	-	0.59	-	-	1.43
Surface	7.07	3.11	3.39	2.72	4.33	1.18	0.53	6.70
Western Total	17.81	3.82	4.22	-	0.48	1.21	0.62	17.09
Underground	6.17	4.73	2.62	-	0.48	0.96	-	5.79
Surface	22.45	3.15	8.14	-	-	4.11	0.62	21.95
Powder River Basin	29.39	-	-	-	-	-	-	29.35
Surface	29.39	-	-	-	-	-	-	29.35
Uinta Region	5.89	6.94	2.62	-	-	1.34	-	5.67
Underground	6.00	6.94	2.62	-	-	1.34	-	5.75
Surface	5.12	-	-	-	-	-	-	5.01
Western	8.80	3.15	8.14	-	0.48	1.08	0.62	8.22
Underground	6.62	3.16	-	-	0.48	0.55	-	5.89
Surface	9.57	3.15	8.14	-	-	4.11	0.62	9.13
East of Mississippi River	3.68	2.91	2.33	1.87	1.74	1.46	0.61	2.70
Underground	3.52	2.29	1.89	1.47	1.51	1.04	0.34	2.58
Surface	4.62	3.75	3.04	2.57	2.02	1.82	0.86	2.99

Mine Production Range (thousand short tons)

Coal-Producing State, Region ¹ and Mine Type	Above 1,000	Above 500 to 1,000	Above 200 to 500	Above 100 to 200	Above 50 to 100	Above 10 to 50	10 or Under	Total ²
Underground	6.17	4.73	2.51	-	0.55	0.96	-	5.65
Surface	18.84	3.13	4.57	2.72	4.33	1.48	0.54	18.15
U.S. Subtotal	7.92	2.95	2.36	1.88	1.70	1.45	0.61	5.19
Underground	3.85	2.37	1.90	1.47	1.43	1.04	0.34	2.84
Surface	15.04	3.69	3.08	2.57	2.03	1.82	0.85	8.97
Refuse Recovery	-	40.24	-	6.22	3.66	2.82	1.96	6.97
U.S. Total	7.92	2.98	2.36	1.90	1.70	1.47	0.64	5.19

¹ For a definition of coal producing regions, see the Glossary.

Note: Productivity is calculated by dividing total coal production by the total 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 preparation plants with less than 5,000 employee hours during the year, which are not required to provide data.

² Includes all employees at preparation plants and tipples not co-located with a mine.

^{- =} No data reported.

Table 24. Coal Mining Productivity by State, Mine Type, and Union Status, 2012

(short tons produced per employee hour)

	Union		Nonunion			
Coal-Producing State and Region ¹	Underground	Surface	Underground	Surface		
Alabama	1.69	-	0.66	1.80		
Alaska	-	5.98	-	-		
Arizona	-	7.38	-	-		
Arkansas	-	-	0.59	-		
Colorado	4.90	6.09	6.02	4.45		
Illinois	2.09	-	5.34	4.70		
Indiana	-	-	3.23	5.41		
Kentucky Total	3.02	2.45	2.36	3.06		
Kentucky (East)	-	2.45	1.64	2.65		
Kentucky (West)	3.27	-	3.60	5.58		
Louisiana	-	-	-	6.86		
Maryland	-	-	1.80	2.80		
Mississippi	-	-	-	6.73		
Missouri	-	-	-	6.73		
Montana	-	11.20	7.47	31.69		
New Mexico	5.19	8.35	-	11.08		
North Dakota	-	12.27	-	11.36		
Ohio	3.95	-	4.06	3.14		
Oklahoma	-	-	2.37	2.21		
Pennsylvania Total	3.28	1.00	3.25	1.90		
Pennsylvania (Anthracite)	-	0.96	0.47	1.13		
Pennsylvania (Bituminous)	3.28	1.21	3.31	2.24		
Tennessee	-	-	1.90	1.65		
Texas	-	7.61	-	5.74		
Utah	5.10	-	5.03	8.41		
Virginia	1.05	-	1.60	2.52		
West Virginia Total	3.11	2.89	1.78	3.10		
West Virginia (Northern)	3.61	-	2.33	3.27		
West Virginia (Southern)	1.50	2.89	1.67	3.09		
Wyoming	7.81	5.88	-	30.25		
Appalachian Total	2.69	2.39	2.06	2.62		
Appalachia Central	1.35	2.81	1.65	2.83		
Appalachia Northern	3.55	1.00	3.13	2.46		
Appalachia Southern	1.69	-	0.66	1.80		
Interior Basin Total	2.64	7.41	4.10	5.47		
Illinois Basin	2.64	-	4.14	5.32		
Interior	-	7.61	1.43	5.74		
Western Total	5.74	8.45	5.81	26.34		
Powder River Basin	-	11.21	-	31.02		
Uinta Region	5.04	6.00	5.87	4.45		
Western	6.20	7.82	5.48	10.70		
East of Mississippi River	2.68	2.31	2.59	3.10		
West of Mississippi River	5.74	8.09	5.62	22.98		
U.S. Total	2.94	6.59	2.84	9.66		

¹ For a definition of coal producing regions, see the Glossary.

Note: 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 25,000 short tons of coal and preparation plants with less than 5,000 employee hours during the year, which are not required to provide data.

^{- =} No data reported.

Domestic Markets

Table 25. Coal Consumers in the Manufacturing and Coke Sectors, 2012

Company Name	Plant Location
Top Ten Manufacturers	MAN, AID
American Crystal Sugar Co	MN, ND
Archer Daniels Midland	IA, IL, MN, ND, NE
Carmeuse Lime Stone Inc	AL, IL, IN, KY, MI, OH, PA, TN, VA, WI
Cemex Inc	AL, CA, CO, FL, GA, KY, OH, TN, TX
Dakota Gasification Company	ND
Eastman Chemical Company	TN
Georgia-Pacific LLC	AL, GA, OK, VA, WI
Holcim (US) Inc	AL, CO, MD, MO, MT, OK, SC, TX, UT
NewPage Corporation	MD, MI, WI
U S Steel Corporation	AL, IN, MI, MN
Other Major Manufacturers	
Ash Grove Cement Co	AR, KS, MT, NE, OR, UT
Blue Ridge Paper Prod Inc	NC
Buzzi Unicem USA	IN, MO, OK, PA, TN, TX
Cabot Norit Americas Inc	OK, TX
California Portland Cement Co	AZ, CA
Cargill Incorporated	GA, IA, MI, NY, OH, TN
Catalyst Paper Company	AZ
Celanese Acetate/Celco Plant	VA
Cliffs Natural Resources Silver Bay Pwr Co	MN
Domtar Industries Inc	AR, WI
Doyon Utilities	AK
FMC Corporation	WY
GCC America	CO, NM, SD
Graymont Western US Inc	MT, NV, UT, WA, WI
Ingredion Incorporated	IL, NC
Lafarge North America	IA, IL, MI, NY, OK, PA
Lehigh Cement Co	AL, IA, IN, MD, PA
Lhoist North America	AL, AZ, MO, NV, TX, VA
Meadwestvaco Corporation	VA
Mississippi Lime Company	KY, MO
Mittal Steel USA	IN
PH Glatfelter CO	OH
PPG Industries Inc	wv
RED-Rochester LLC	NY
RockTenn CP LLC	FL, VA
Searles Valley Minerals	CA
Solvay Chemicals Inc	wy
TATA Chemicals Ltd	WY
Tate and Lyle Ingredients Americas Inc	IL, IN, TN
Western Sugar Cooperative	CO, MT, NE, WY
Top Ten Coke Producers	
AK Steel Corp	ОН
DTE Energy Services	MI, PA
Drummond Company Inc	AL
Erie Coke Corp	PA
Mittal Steel USA	IN, OH
Mountain State Carbon	wv
SunCoke Energy Inc	IL, IN, OH, VA
Tonawanda Coke Corp	NY
United States Steel Coporation	IL, IN, PA
Walter Coke Inc	AL

Note: Major manufactures are the top 40 coal consumers in the manufacturing sector. Major coke producers are the top 10 coal consumers in the coke plant sector. Manufacturers and coke producers are listed in alphabetical order.

Source: U.S. Energy Information Administration, Manufactures: Form EIA-3, 'Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users' and Coke Plants: Form EIA-5, 'Quarterly Coal Consumption and Quality Report, Coke Plants.'

Table 26. U.S. Coal Consumption by End Use Sector, Census Division, and State, 2012 and 2011 (thousand short tons)

2012					Total						
		·		Commercial		20		Commercial			
Census Division and State	Electric Power¹	Other Industrial	Coke	and Institutional	Electric Power¹	Other Industrial	Coke	and Institutional	2012	2011	Percent Change
New England	1,920	81	-	-	3,025	w	-	-	2,001	w	w
Connecticut	415	-	-	-	325	-	-	-	415	325	27.5
Maine	32	w	-	-	38	W	-	-	w	W	-16.4
Massachusetts	954	w	-	-	1,763	W	-	-	w	W	-44.4
New Hampshire	520	-	-	-	898	-	-	-	520	898	-42.2
Middle Atlantic	44,838	2,440	w	w	53,970	2,926	w	w	52,750	62,401	-15.5
New Jersey	1,007	-	-	-	1,976	-	-	-	1,007	1,976	-49.0
New York	2,228	748	w	-	4,591	809	w	w	w	5,605	w
Pennsylvania	41,602	1,692	w	131	47,403	2,117	w	170	w	W	-11.3
East North Central	181,275	8,906	12,125	578	209,673	10,950	11,673	907	202,884	233,203	-13.0
Illinois	48,509	3,165	w	129	53,682	3,437	w	151	w	W	-9.3
Indiana	46,696	1,974	w	w	52,704	3,298	W	301	54,571	W	w
Michigan	29,669	1,051	w	w	32,335	1,141	w	w	32,050	35,143	-8.8
Ohio	37,119	1,327	3,593	131	48,140	1,532	2,925	193	42,170	52,790	-20.1
Wisconsin	19,283	1,388	-	30	22,812	1,541	-	99	20,701	24,453	-15.3
West North Central	133,859	13,373		382	145,208	13,169		493	147,615	158,870	-7.1
lowa	20,747	3,345	-	W	22,677	3,542	-	W	w	W	-8.2
Kansas	17,759	w			20,129	w			w	w	-11.8
Minnesota	13,384	w		w	16,515	w		w	14,518	17,846	-18.7
Missouri	42,340	1,014		w	46,353	554		w	14,516 W	W	-7.6
Nebraska	14,884	1,014			15,711	1,039		-	15,922	16,750	-4.9
North Dakota				73	•			89			2.9
	22,795	w			22,056	W			W 2.155	1 0FC	
South Dakota	1,950	W F 963		W	1,768	W C C20	-	W 200	2,155	1,956	10.2
South Atlantic	116,981	5,862	w	203	140,609	6,620	w	286	W	W 747	-16.8
Delaware	682	-	-	-	717	-	-	-	682	717	-4.9
District of Columbia	-	-	-	W	-	-	-	W	W	W	-0.7
Florida	19,932	502	-	-	22,805	489	-	-	20,433	23,294	-12.3
Georgia	20,836	853	-	W	28,894	1,160	-	W	W	W	-27.8
Maryland	6,930	906	-	W	8,917	951	-	W	W	W	-20.6
North Carolina	20,876	661	-	W	24,591	764	-	163	W	25,518	W
South Carolina	11,658	506	-	-	13,970	911	-	-	12,164	14,881	-18.3
Virginia	6,497	1,437	W	W	8,799	1,443	W	90	9,020	W	W
West Virginia	29,571	998	W	-	31,917	902	W	-	W	W	-8.8
East South Central	84,705	5,007	w	94	96,864	5,300	w	115	w	w	-12.4
Alabama	23,020	1,322	W	-	28,151	1,268	W	-	W	W	-16.9
Kentucky	38,978	1,118	-	31	42,543	1,336	W	45	40,128	W	W
Mississippi	5,240	w	-	-	6,203	W	-	-	W	W	-15.3
Tennessee	17,466	2,453	-	w	19,967	2,578	-	70	w	22,615	W
West South Central	147,392	1,917	-	w	165,584	1,893	-	w	w	w	-10.9
Arkansas	17,023	w	-	-	17,465	W	-	-	w	W	-2.7
Louisiana	14,746	w	-	-	16,713	w	-	-	w	W	-11.3
Oklahoma	18,317	w	-	-	21,307	w	-	-	w	W	-13.6
Texas	97,305	947	-	w	110,098	956	-	w	w	W	-11.5
Mountain	106,776	3,694	-	w	110,197	3,522	-	w	w	w	-3.0
Arizona	21,461	w	-	-	23,217	503	-	-	w	23,719	w
Colorado	19,199	281	-	w	18,744	w	-	w	w	19,032	w
Idaho	-	248	-	w	-	382	-	w	w	w	-35.0
Montana	9,057	238	-	w	9,758	w	-	w	w	9,848	w
Nevada	2,258	299	-	-	2,863	w	-	-	2,556	w	w
New Mexico	14,452	w	-	-	15,496	w	-	-	w	w	-6.7
Utah	14,084	w	-	-	15,005	w	-	-	w	w	-5.9
Wyoming	26,265	1,581		w	25,114	1,675		w	w	w	3.9
Pacific	5,805	1,558		w	7,355	1,773		w	w	w	-18.3
Alaska	427	1,558		w	409	5		W	w	w	-0.4
California	539	1,323			812	1,536		VV	1,863	2,347	-20.6
	753	-			724			-			
Hawaii		W				W			w	w	2.6
Oregon	1,583	W	-	-	1,985	W	-	-	W	w	-19.8

		2012 2011					Total				
				Commercial				Commercial			
Census Division	Electric	Other		and	Electric	Other		and			Percent
and State	Power ¹	Industrial	Coke	Institutional	Power ¹	Industrial	Coke	Institutional	2012	2011	Change
Washington	2,502	w	-	-	3,425	w	-	-	w	w	-25.7
U.S. Total	823,551	42,838	20,751	2,045	932,484	46,238	21,434	2,793	889,185	1,002,948	-11.3

¹ The electric power sector (electric utilities and independent power producers) comprises electricity-only and combined-heat-and-power(CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public (i.e. NAICS 22 plants).

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

Source: U.S. Energy Information Administration Form EIA-923, 'Power Plant Operations Report,' Form EIA-3, 'Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users,' Form EIA-5, 'Quarterly Coal Consumption and Quality Report, Coke Plants,' and Form EIA-7A, 'Coal Production and Preparation Report.'

^{- =} No data reported.

w = Data withheld to avoid disclosure.

Table 27. Year-End Coal Stocks by Sector, Census Division, and State, 2012 and 2011 (thousand short tons)

			2012					2011				Total	
-				Commercial	Producer				Commercial	Producer			
Census Division	Electric	Other	G 1	and	and	Electric	Other	6.1	and	and	2012	2011	Percent
and State		Industrial	Coke	Institutional	Distributor		Industrial	Coke	Institutional	Distributor	2012	2011	Change
New England	1,030	13	-	-	-	1,389	w	-	-	-	1,042	w	w
Connecticut	180	-	-	-	-	205	-	-	-	-	180	205	-12.0
Maine	-	W	-	-	-	-	W	-	-	-	W	W	-55.3
Massachusetts	512	W	-	-	-	675	W	-	-	-	W	W	-24.1
New Hampshire	337	-	-	-	-	509	-	-	-	-	337	509	-33.7
Middle Atlantic	7,553	251	w	W	2,747	7,800	256	w	W	2,156	11,315	10,898	3.8
New Jersey	926	-	-	-	-	871	-	-	-	-	926	871	6.4
New York	556	81	W	-	-	898	102	W	-	-	W	W	-35.6
Pennsylvania	6,070	171	w	56	2,747	6,031	154	W	46	2,156	W	W	8.1
East North Central	36,139	926	1,496	191	7,827	37,262	873	1,681	229	5,954	46,579	46,000	1.3
Illinois	8,931	179	w	44	3,707	8,905	166	W	42	2,802	W	W	7.6
Indiana	9,127	152	w	W	2,174	9,094	257	W	79	1,429	12,009	W	W
Michigan	6,729	320	w	W	261	6,512	203	W	W	293	7,785	7,564	2.9
Ohio	6,340	86	321	30	873	7,331	104	423	36	690	7,650	8,584	-10.9
Wisconsin	5,012	189	-	5	812	5,420	143	-	5	739	6,018	6,307	-4.6
West North Central	30,554	1,168	-	86	1,905	28,544	975	-	97	2,129	33,712	31,745	6.2
Iowa	8,580	448	-	W	131	7,199	349	-	W	134	w	w	19.0
Kansas	3,741	w	-	-	-	3,669	W	-	-	-	w	w	1.7
Minnesota	2,691	w	-	w	130	3,247	w	-	w	147	3,126	3,652	-14.4
Missouri	10,230	60	-	W	1	8,210	62	-	W	1	w	w	24.4
Nebraska	3,321	146	-	-	-	3,607	97	-	-	-	3,467	3,703	-6.4
North Dakota	1,712	w	-	10	1,643	2,270	w	-	10	1,847	w	w	-17.7
South Dakota	281	w	-	-	-	343	w	-	w	-	w	373	w
South Atlantic	38,859	528	w	101	13,653	36,920	693	w	91	17,182	w	w	-3.2
Delaware	185	-	-	-	-	168	-	-	-	-	185	168	10.5
District of Columbia	-	-	-	w	-	-	-	-	w	-	w	w	49.6
Florida	5,963	72	-	-	25	6,374	91	-	-	-	6,061	6,465	-6.3
Georgia	9,970	127	-	W	-	7,885	133	-	w	-	w	w	25.9
Maryland	1,544	17	-	W	537	1,860	47	-	w	1,015	w	w	-27.9
North Carolina	7,164	28	-	w	-	6,642	42	-	37	-	w	6,721	w
South Carolina	6,271	108	-	-	23	6,527	167	-	-	-	6,402	6,694	-4.4
Virginia	2,118	99	-	w	2,903	2,480	161	-	35	4,329	w	7,004	w
West Virginia	5,643	77	w	-	10,164	4,985	52	w	-	11,838	w	w	-5.8
East South Central	19,657	315	w	15	6,440	17,185	432	w	25	9,198	w	w	-1.4
Alabama	6,123	115	w	-	1,180	4,499	255	w	-	1,414	w	w	20.0
Kentucky	8,417	54	-	9	4,583	7,357	58	-	19	6,994	13,062	14,428	-9.5
Mississippi	1,964	w	-	-	656	1,450	w	-	-	768	w	w	18.2
Tennessee	3,153	140	-	w	22	3,879	115	-	6	22	w	4,022	w
West South Central	28,807	380	-	w	1,674	22,910	348	-	w	1,715	w	w	23.6
Arkansas	4,181	w	-	-	10	3,590	w	-	-	1	w	w	15.8
Louisiana	3,342	w	-	-	327	2,331	w	-	-	812	w	w	15.6
Oklahoma	4,739	w	-	-	-	3,872	w	-	-	-	w	w	22.1
Texas	16,545	177	-	w	1,338	13,117	112	-	W	902	w	w	27.8
Mountain	20,385	678	-	w	11,741	18,543	609	-	w	13,401	w	w	0.8
Arizona	4,235	w	-	-	1,367	2,750	98	-	-	1,332	w	4,181	w
Colorado	4,131	63	-	-	1,742	4,342	w	-	-	2,339	5,937	w	w
Idaho	-	311	-	w	-	-	253	-	-	-	w	254	w
Montana	1,010	41	-	w	312	1,005	w	-	w	421	w	1,442	w
Nevada	1,292	28	-	-	-	1,360	w	-	-	-	1,320	w	w
New Mexico	1,018	w	-	-	3,783	864	w	-	-	4,022	w	w	-1.7
Utah	4,737	w	-	-	2,284	4,947	w	-	-	3,126	w	w	-12.8
Wyoming	3,962	138	-	-	2,253	3,275	53	-	-	2,161	6,353	5,490	15.7
Pacific	2,132	217	-	w	169	1,833	248	-	w	160	w	w	12.4
Alaska	499	-	-	w	169	344	-	-	w	160	w	w	29.1
California	28	136	-	-	-	96	152	-	-	-	164	248	-33.9
Hawaii	52	w	-	-	-	146	w	-	-	-	w	w	-47.9
Oregon	931	W	-	-	-	686	w	-	-	-	w	w	35.3

			2012					2011				Total	
Census Division and State	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Producer and Distributor	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Producer and Distributor	2012	2011	Percent Change
Washington	621	w	-	-	-	560	w	-	-	-	w	w	11.1
U.S. Total	185,116	4,475	2,522	583	46,157	172,387	4,455	2,610	603	51,897	238,854	231,951	3.0

¹ The electric power sector (electric utilities and independent power producers) comprises electricity-only and combined-heat-and-power(CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public (i.e. NAICS 22 plants).

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

Source: U.S. Energy Information Administration Form EIA-923, 'Power Plant Operations Report,' Form EIA-3, 'Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users,' Form EIA-5, 'Quarterly Coal Consumption and Quality Report, Coke Plants,' Form EIA-7A, 'Coal Production and Preparation Report,' and Form EIA-8A, 'Coal Stocks Report.'

^{- =} No data reported.

w = Data withheld to avoid disclosure.

Average Mine Sales Price

Table 28. Average Sales Price of Coal by State and Mine Type, 2012 and 2011

		2012			2011		Per	rcent Change	
Coal-Producing State	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	107.73	104.51	106.57	100.17	108.71	102.69	7.6	-3.9	3.8
Alaska	-	w	w	-	w	w	-	w	w
Arizona	-	w	w	-	w	w	-	w	w
Arkansas	w	-	w	w	-	w	w	-	w
Colorado	w	w	37.54	W	w	39.88	w	w	-5.9
Illinois	54.18	45.12	53.08	51.43	46.60	50.80	5.4	-3.2	4.5
Indiana	52.94	51.33	52.01	51.77	44.91	47.96	2.3	14.3	8.4
Kansas	-	-	-	-	w	w	-	w	w
Kentucky Total	62.24	64.70	63.12	63.38	64.01	63.63	-1.8	1.1	-0.8
Kentucky (East)	79.23	72.04	75.62	78.63	70.86	74.70	0.8	1.7	1.2
Kentucky (West)	50.18	42.14	48.67	47.87	38.93	45.89	4.8	8.3	6.1
Louisiana	-	w	w	-	w	w	-	w	w
Maryland	w	w	55.67	w	w	49.37	w	w	12.8
Mississippi	-	w	w	-	w	w	-	w	w
Missouri	-	w	w	-	w	w	-	w	w
Montana	w	w	18.11	w	w	16.02	w	w	13.1
New Mexico	w	w	36.74	w	w	34.22	w	w	7.4
North Dakota	-	17.40	17.40	-	15.72	15.72	-	10.7	10.7
Ohio	49.39	44.28	47.80	47.86	43.41	46.39	3.2	2.0	3.0
Oklahoma	w	w	59.63	w	w	70.39	w	w	-15.3
Pennsylvania Total	72.69	74.04	72.92	78.67	82.89	79.47	-7.6	-10.7	-8.2
Pennsylvania (Anthracite)	82.71	80.10	80.21	w	w	75.70	w	w	6.0
Pennsylvania (Bituminous)	72.67	71.88	72.57	w	w	79.61	w	w	-8.8
Tennessee	w	w	73.51	66.27	77.27	74.24	w	w	-1.0
Texas	-	19.09	19.09	-	19.32	19.32	-	-1.2	-1.2
Utah	w	w	34.92	33.80	-	33.80	w	w	3.3
Virginia	114.91	98.84	109.40	145.87	111.15	135.14	-21.2	-11.1	-19.1
West Virginia Total	86.02	73.60	81.80	89.40	77.39	84.81	-3.8	-4.9	-3.6
West Virginia (Northern)	63.39	62.42	63.34	60.91	65.74	61.27	4.1	-5.1	3.4
West Virginia (Southern)	107.76	74.25	91.40	114.25	78.15	95.44	-5.7	-5.0	-4.2
Wyoming	w	W	14.24	w	W	13.56	w	w	5.0
U.S. Total	66.56	26.43	39.95	70.47	27.00	41.01	-5.6	-2.1	-2.6

^{- =} No data reported.

Note: An average sales 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 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

w = Data withheld to avoid disclosure.

Table 29. Average Sales Price of Coal by State and Underground Mining Method, 2012

Coal-Producing State	Continuous ¹	Conventional and Other ²	Longwall ³	Total
Alabama	w	-	w	107.73
Arkansas	w	-	-	w
Colorado	w	-	37.18	w
Illinois	48.08	-	59.51	54.18
Indiana	52.94	-	-	52.94
Kentucky Total	w	w	-	62.24
Kentucky (East)	w	w	-	79.23
Kentucky (West)	50.18	-	-	50.18
Maryland	w	-	-	w
Montana	-	-	w	w
New Mexico	-	-	w	w
Ohio	w	-	w	49.39
Oklahoma	w	-	-	w
Pennsylvania Total	94.53	w	65.01	w
Pennsylvania (Anthracite)	w	w	-	82.71
Pennsylvania (Bituminous)	w	-	w	72.67
Tennessee	w	-	-	w
Utah	w	-	34.99	w
Virginia	w	-	w	114.91
West Virginia Total	105.42	w	68.09	w
West Virginia (Northern)	93.94	-	58.51	63.39
West Virginia (Southern)	107.35	w	106.77	w
Wyoming	-	-	w	w
U.S. Total	74.36	90.02	59.59	66.56

¹ Mines that produce greater than 50 percent of their coal by continuous mining methods.

Note: An average sales 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 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

² Mines that produce greater than 50 percent of their coal by conventional mining methods or mines that produce coal using shortwall, scoop loading, hand loading, or other methods or a 50/50 percent continuous/conventional split in mining method.

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

^{- =} No data reported.

w = Data withheld to avoid disclosure.

Table 30. Average Sales Price of Coal by State, County, and Number of Mines, 2012

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Alabama	39	19,021	106.57
Bibb	1	w	w
Blount	2	W	w
Fayette	1	W	w
Franklin	1	W	w
Jackson	2	W	w
Jefferson	11	4,298	146.04
Marion	1	w	w
Tuscaloosa	7	8,599	111.55
Walker	11	2,370	81.88
Winston	2	w	w
Alaska	1	w	w
Yukon-Koyukuk	1	w	w
Arizona	1	w	w
Navajo	1	w	w
Arkansas	1	w	w
Sebastian	1	w	W
Colorado	12	28,856	37.54
Delta	1	w	W
Gunnison	2	w	W
La Plata	1	w	W
Las Animas	2	w	w
Moffat	2	w	w
Montrose	1	w	w
Rio Blanco	1	w	w
Routt	2	w	w
Illinois	24	46,705	53.08
Franklin	1	w	w
Gallatin	1	w	w
Jackson	1	w	w
Macoupin	2	W	w
Mcdonough	1	W	w
Montgomery	1	W	w
Perry	4	3,577	41.11
Randolph	3	w	w
Saline	5	12,168	59.75
Sangamon	1	w	w
Wabash	1	W	w
Washington	1	W	w
White	1	w	w
Williamson	1	W	w
Indiana	29	35,906	52.01
Daviess	3	w	w
Dubois	1	w	w
Gibson	4	9,320	53.07
Knox	6	4,543	57.22
Pike	7	3,938	43.88
Sullivan	3	W	W
Vigo	1	W	w
Warrick	4	W	W
Kentucky	253	89,154	63.12
Bell	13	1,169	72.96
Breathitt	1	W	W
Clay	1	W	W
Daviess	2	W	W
Floyd	15	2,767	64.58
Harlan	35	6,851	70.53
Henderson	4	1,623	45.19
Hopkins	4	12,404	50.15
Johnson	3	W	W

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Knott	11	2,435	72.36
Knox	8	459	110.61
Lawrence	3	W	W
Leslie	12	2,994	78.02
Letcher	17	2,708	85.72
Magoffin	6	1,996	70.82
Martin	14	3,468	71.79
Mccreary	1	W	w
Muhlenberg	4	4,689	48.44
Ohio	5	7,114	42.52
Perry	23	9,348	72.98
Pike	61	12,194	81.27
Union	3	W	W
Webster	2	W	w
Whitley	4	265	138.34
Wolfe	1	W	w
Louisiana	2	w	w
De Soto	1	W	w
Natchitoches	1	W	w
Maryland	15	2,286	55.67
Allegany	9	1,558	46.65
Garrett	6	728	75.00
Mississippi	1	w	w
Choctaw	1	W	w
Missouri	2	w	w
Bates	2	W	w
Montana	6	36,823	18.11
Bighorn	3	W	w
Musselshell	1	W	w
Richland	1	W	w
Rosebud	1	W	W
New Mexico	4	22,881	36.74
Mckinley	2	W	W
San Juan	2	W	w
North Dakota	4	27,799	17.40
Mclean	1	w	w
Mercer	2	w	w
Oliver	1	w	w
Ohio	28	26,617	47.80
Belmont	2	w	w
Carroll	1	w	w
Columbiana	1	w	w
Harrison	5	3,349	49.05
Jackson	1	w	w
Jefferson	5	1,663	53.13
Monroe	1	w	w
Muskingum	1	w	w
Noble	2	w	w
Perry	3	w	w
Stark	1	W	w
Tuscarawas	3	w	w
Vinton	2	W	w
Oklahoma	5	1,071	59.63
Craig	1	w	w
Haskell	1	W	w
Le Flore	2	W	w
Nowata	1	W	w
Pennsylvania	137	54,293	72.92
Armstrong	10	2,611	55.23
Beaver	1	W	w
Bedford	1	w	w
Blair	1	W	W
Butler	2	W	w
		1,287	97.69
Cambria	6	1 /8 /	u, ku

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Clarion	1	w	w
Clearfield	20	3,279	89.07
Columbia	2	W	w
Elk	3	w	w
Fayette	1	w	w
Greene	5	25,391	63.72
Indiana	12	2,699	94.36
Jefferson	7	810	57.78
Lackawanna	1	w	w
Luzerne	5	660	69.61
Lycoming	1	w	w
Northumberland	6	300	66.78
Schuylkill	26	1,433	80.90
Somerset	18	4,096	125.39
Venango	1	w	w
Washington	4	W	w
Westmoreland	2	W	w
Tennessee	8	1,048	73.51
Campbell	3	w	W
Claiborne	5	767	75.20
Texas	12	40,317	19.09
Atascosa	1	w	w
Freestone	1	W	w
Harrison	1	W	w
Hopkins	1	W	w
Lee	1	W	w
Leon	1	W	w
Limestone	1	W	w
Panola	2	W	w
Robertson	1	W	w
Rusk	1	W	w
Titus	1	W	w
Utah	9	16,903	34.92
Carbon	5	6,241	37.65
Emery	2	W	w
Kane	1	W	w
Sevier	1	w	w
Virginia	79	18,855	109.40
Buchanan	26	6,951	129.60
Dickenson	13	3,464	124.11
Giles	1	w	w
Lee	3	W	w
Russell	5	789	98.30
Tazewell	3	W	w
Wise	28	5,792	84.44
West Virginia	224	121,033	81.80
Barbour	1	W	w
Boone	26	16,435	84.44
Brooke	1	w	w
Clay	2	w	w
Fayette	9	5,674	99.47
Grant	1	W	w
Greenbrier	7	1,217	143.12
Harrison	1	W	w
Kanawha	19	8,600	81.03
Lincoln	2	W	w
Logan	23	15,448	76.55
Marion	4	11,217	57.52
Marshall	2	w	w
Mcdowell	36	3,934	122.38
Mercer	1	w	w
Mineral	1	w	w
Mingo	25	6,934	75.99
Monongalia	6	5,736	63.83
Nicholas	9	2,455	85.21

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Ohio	1	w	w
Raleigh	17	6,724	136.09
Randolph	1	w	w
Taylor	1	w	w
Tucker	2	w	w
Upshur	2	w	w
Wayne	7	4,412	71.96
Webster	5	2,801	79.82
Wyoming	12	5,189	119.77
Wyoming	16	401,221	14.24
Campbell	11	353,807	13.35
Converse	1	w	w
Lincoln	1	w	w
Sweetwater	3	w	w
U.S. Total	912	1,008,147	39.95

^{- =} No data reported.

Note: An average sales 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 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

w = Data withheld to avoid disclosure.

Table 31. Average Sales Price of Coal by State and Coal Rank, 2012

Coal-Producing State	Bituminous	Subbituminous	Lignite	Anthracite	Total
Alabama	106.57	-	-	-	106.57
Alaska	-	w	-	-	w
Arizona	w	-	-	-	w
Arkansas	W	-	-	-	w
Colorado	w	w	-	-	37.54
Illinois	53.08	-	-	-	53.08
Indiana	52.01	-	-	-	52.01
Kentucky Total	63.12	-	-	-	63.12
Kentucky (East)	75.62	-	-	-	75.62
Kentucky (West)	48.67	-	-	-	48.67
Louisiana	-	-	w	-	w
Maryland	55.67	-	-	-	55.67
Mississippi	-	-	w	-	w
Missouri	w	-	-	-	w
Montana	W	17.60	w	-	18.11
New Mexico	w	w	-	-	36.74
North Dakota	-	-	17.40	-	17.40
Ohio	47.80	-	-	-	47.80
Oklahoma	59.63	-	-	-	59.63
Pennsylvania Total	72.57	-	-	80.21	72.92
Pennsylvania (Anthracite)	-	-	-	80.21	80.21
Pennsylvania (Bituminous)	72.57	-	-	-	72.57
Tennessee	73.51	-	-	-	73.51
Texas	-	-	19.09	-	19.09
Utah	34.92	-	-	-	34.92
Virginia	109.40	-	-	-	109.40
West Virginia Total	81.80	-	-	-	81.80
West Virginia (Northern)	63.34	-	-	-	63.34
West Virginia (Southern)	91.40	-	-	-	91.40
Wyoming	-	14.24	-	-	14.24
U.S. Total	66.04	15.34	19.60	80.21	39.95

^{- =} No data reported.

Note: An average sales 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 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

w = Data withheld to avoid disclosure.

Table 32. Average Sales Price of Coal by Mine Production Range and Mine Type, 2012

Mine Production Range (thousand short tons)	Underground	Surface	Total
Over 1,000	58.86	19.50	31.70
Over 500 to 1,000	84.65	66.80	74.74
Over 200 to 500	95.31	73.29	84.14
Over 100 to 200	98.00	68.97	82.69
Over 50 to 100	81.53	75.99	78.61
50 or Under	92.87	63.12	73.78
U.S. Total	66.56	26.43	39.95

Note: An average sales 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 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

Table 33. Average Sales Price of U.S. Coal by State and Disposition, 2012

Coal-Producing State	Open Market ¹	Captive ²	Total ³
Alabama	85.06	-	106.57
Alaska	w	-	w
Arizona	w	-	w
Arkansas	w	-	w
Colorado	38.51	43.19	37.54
Illinois	49.04	54.71	53.08
Indiana	49.16	54.50	52.01
Kentucky Total	61.85	73.08	63.12
Kentucky (East)	75.80	73.08	75.62
Kentucky (West)	48.60	-	48.67
Louisiana	w	-	w
Maryland	47.83	-	55.67
Mississippi	w	-	w
Missouri	w	-	w
Montana	w	w	18.11
New Mexico	w	w	36.74
North Dakota	w	w	17.40
Ohio	w	w	47.80
Oklahoma	59.63	-	59.63
Pennsylvania Total	68.54	67.74	72.92
Pennsylvania (Anthracite)	w	w	80.21
Pennsylvania (Bituminous)	w	w	72.57
Tennessee	73.51	-	73.51
Texas	w	w	19.09
Utah	w	w	34.92
Virginia	112.10	98.48	109.40
West Virginia Total	73.41	83.15	81.80
West Virginia (Northern)	w	w	63.34
West Virginia (Southern)	w	w	91.40
Wyoming	13.81	14.83	14.24
U.S. Total	38.11	29.90	39.95

¹ Open market includes coal sold on the open market to other coal companies or consumers; excludes exports.

Note: An average sales 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 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

² Captive includes all coal used by the producing company or sold to affiliated or parent companies; excludes exports.

³ Total includes price of coal sold on the open market, captive market and exported by coal mines. Excludes price of coal exported by coal brokers, coal traders and coal terminals.

^{- =} No data reported.

w = Data withheld to avoid disclosure.

Average Consumer Prices

Table 34. Average Price of Coal Delivered to End Use Sector by Census Division and State, 2012 and 2011 (dollars per short ton)

	2012				2011				Annual Percent Change			
				Commercial				Commercial				Commercial
Census Division and State	Electric Power ¹	Other Industrial	Coke	and Institutional	Electric Power¹	Other Industrial	Coke	and Institutional	Electric Power ¹	Other Industrial	Coke	and Institutional
New England	88.32	165.17	-	-	87.62	w	-	-	0.80	w	-	-
Connecticut	80.11	-	-	-	69.29	-	-	-	15.62	-	-	-
Maine	189.84	w	-	-	162.19	W	-	-	17.05	13.93	-	-
Massachusetts	75.71	w	-	-	87.17	W	-	-	-13.15	S	-	-
New Hampshire	105.97	-	-	-	91.80	-	-	-	15.44	-	-	-
Middle Atlantic	55.68	94.12	w	w	59.55	88.98	w	w	-6.50	5.78	3.10	15.08
New Jersey	103.50	-	-	-	105.77	-	-	-	-2.15	-	-	-
New York	67.35	114.32	w	-	70.84	109.37	w	w	-4.93	4.53	5.70	w
Pennsylvania	53.86	84.85	w	152.82	56.37	80.81	w	132.44	-4.45	5.00	3.22	15.39
East North Central	47.54	80.89	198.78	91.96	46.00	79.95	195.13	99.39	3.35		1.87	-7.48
Illinois	34.27	51.39	w	62.38	30.30	51.04	w	60.58	13.10		10.72	2.97
Indiana	55.91	104.16	w	W	52.67	99.12	w	84.63	6.15	5.08	-4.29	w
Michigan	52.98	98.28	w	w	51.76	96.52	w	W	2.36		10.09	-7.21
Ohio	59.54	92.32	188.05	132.81	57.89	87.44	172.35	122.88	2.85		9.11	8.08
											9.11	
Wisconsin	42.20	90.49	-	160.91	45.45	82.30	-	154.49	-7.15	9.95		4.16
West North Central	28.75	36.16	-	81.32	27.33	36.94	-	79.68	5.20		-	2.06
lowa	25.26	49.57	-	W	24.41	50.92	-	W	3.48		-	-2.73
Kansas	31.72	W	-	-	30.09	W	-	-	5.42			
Minnesota	35.18	62.17	-	W	34.08	56.05	-	W	3.23		-	-5.91
Missouri	32.65	64.79	-	W	30.26	58.51	-	W	7.90		-	5.79
Nebraska	26.34	34.14	-	-	25.66	33.87	-	-	2.65	0.80	-	-
North Dakota	19.69	W	-	50.05	17.72	W	-	47.88	11.12	-17.15	-	4.53
South Dakota	36.27	W	-	-	34.41	W	-	-	5.41	3.75	-	-
South Atlantic	78.89	102.15	w	126.75	80.53	99.50	w	125.14	-2.04	2.66	3.98	1.29
Delaware	101.22	-	-	-	101.41	-	-	-	s	-	-	-
District of Columbia	-	-	-	W	-	-	-	-	-	-	-	w
Florida	83.69	115.33	-	-	84.85	111.28	-	-	-1.37	3.64	-	-
Georgia	71.30	108.85	-	w	79.44	110.26	-	w	-10.25	-1.28	-	8.98
Maryland	90.02	65.01	-	w	91.46	69.22	-	w	-1.57	-6.08	-	15.92
North Carolina	92.78	106.71	-	w	88.51	109.26	-	127.82	4.82	-2.33	-	w
South Carolina	99.07	110.86	-	w	95.21	104.33	-	-	4.05	6.26	-	w
Virginia	86.69	107.89	w	100.13	88.12	99.80	w	118.23	-1.62	8.11	6.44	-15.31
West Virginia	61.22	109.58	w	-	59.21	97.34	w	-	3.39	12.57	3.34	-
East South Central	57.23	105.38	w	121.22	56.77	95.23	w	112.61	0.81	10.66	8.87	7.65
Alabama	62.33	107.13	w		59.78	89.20	w	-	4.27		7.76	
Kentucky	54.83	101.96		114.63	53.01	95.47	w	108.72	3.43	6.80	w	5.44
Mississippi	61.16				59.87	w		-	2.15			
Tennessee	53.92	106.55		w	59.41	98.46		w	-9.24			7.11
West South Central	31.88	75.54			30.47	74.37			4.63			
			-	w			-	w			-	11.93
Arkansas	38.55	W	-	-	33.40	W	-	-	15.42		-	-
Louisiana	40.65	W	-	-	39.19	W	-	-	3.73		-	-
Oklahoma	34.30	W	-	-	30.81	W 77.60	-	-	11.33		-	-
Texas	28.92	82.82	-	W	28.68	77.60	-	W	0.84		-	11.93
Mountain	34.52	51.35	-	102.80	33.69	46.20	-	93.48	2.46		-	9.97
Arizona	39.85	65.42	-	-	38.33	54.78	-	-	3.97		-	-
Colorado	35.00	64.45	-	W	33.37	W	-	w	4.88	w	-	6.02
Idaho	-	61.80	-	w	-	50.76	-	W	-	21.75	-	-5.30
Montana	23.36	37.92	-	w	22.36	w	-	W	4.47	w	-	7.75
Nevada	51.59	76.26	-	-	53.91	w	-	-	-4.30	w	-	-
New Mexico	39.62	w	-	-	38.02	w	-	-	4.21	7.92	-	-
Utah	42.60	61.38	-	-	39.04	58.03	-	-	9.12	5.77	-	-
Wyoming	25.11	37.33	-	w	25.64	35.17	-	w	-2.07	6.14	-	10.71
Pacific	42.72	82.83	-	61.63	41.39	85.58	-	57.98	3.21	-3.21	-	6.30
Alaska	-	-	-	61.63	27.10	-	-	57.98	-100.00		-	6.30
California	79.06	82.15	-	-	74.28	84.36	-	-	6.44		-	-
Hawaii	78.07	W	-		68.93	w		-	13.26		-	-
Oregon	31.67	w	_		30.00	w	_		5.57		_	
O1CP011	51.07	VV		-	30.00	vv			3.37	7.70		

		2012			2011				Annual Percent Change			
				Commercial				Commercial				Commercial
Census Division	Electric	Other		and	Electric	Other		and	Electric	Other		and
and State	Power ¹	Industrial	Coke	Institutional	Power ¹	Industrial	Coke	Institutional	Power ¹	Industrial	Coke	Institutional
Washington	37.14	w	-	-	36.91	w	-	-	0.62	10.75	-	-
U.S. Total	45.77	70.33	190.55	90.76	46.24	70.66	184.44	91.94	-1.02	s	3.31	-1.28

¹ The electric power sector (electric utilities and independent power producers) comprises electricity-only and combined-heat-and-power(CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public (i.e. NAICS 22 plants).

Source: U.S. Energy Information Administration Form EIA-923, 'Power Plant Operations Report,' Form EIA-3, 'Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users,' and Form EIA-5, 'Quarterly Coal Consumption and Quality Report, Coke Plants.'

s = Value is less than 0.5 of the table metric, but value is included in any associated total.

^{- =} No data reported.

w = Data withheld to avoid disclosure.