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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 38th 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 2013 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

For the first time since 1993, U.S. coal production fell below one billion short tons to 984.8 million short tons in 2013 from 1,016.5 million short tons in 2012, a decrease of 3.1 percent. The number of producing mines in the United States dropped 13.7 percent to 1,061 mines compared to 2012.

Regional coal production followed a similar pattern in 2013 as in 2012, with both the Appalachian and Western regions showing declines in their production totals, while the Interior region experienced an increase. Coal production in the total Appalachian region decreased by 22.3 million short tons, or 7.6 percent (the largest percentage decline of any region), to a total of 269.7 million short tons. West Virginia, the largest coal-producing state in the Appalachian region, had a decline in coal production of 7.6 million short tons, all occurring in the southern portion of the state. The largest tonnage decline in the Appalachian region was in Kentucky, which fell 10.5 million short tons in 2013, about 89 percent of the drop occurring in eastern Kentucky.

Coal production in the total Interior region increased in 2013 for the fourth year in a row to a level of 183.0 million short tons, an increase of 3.0 million short tons, or 1.7 percent. Illinois, the largest coal-producing state in the Interior region, had an increase in production of 3.7 million short tons, or 7.6 percent, to 52.1 million short tons. This production level has not been seen in Illinois since the mid-1990s.

Coal production in the total Western region decreased in 2013 to end the year at 530.2 million short tons, a drop of 13.0 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 2013 of 13.5 million short tons to end the year at 387.9 million short tons. This was the lowest production level in Wyoming since 2004. After two years of decreasing production, Montana had an increase in coal production of 5.5 million short tons to 42.2 million short tons.

Productive Capacity

In 2013, productive capacity of U.S. coal mines decreased by 2.5 percent to 1,252.0 million short tons, a decline of 32.4 million short tons. Noticeable decreases in

productive capacity occurred in several states: Louisiana (19.4 percent), Kentucky (19.0 percent), Colorado (16.9 percent), Maryland (13.5 percent), and Virginia (12.2 percent).

Capacity utilization at underground mines increased by 2.9 percent in 2013, while the surface mine capacity utilization rate dropped by 2.4 percentage points to a level of 76.49 percent.

Employment and Productivity

In 2013, the average number of employees at U.S. coal mines fell by 10.5 percent, or 9,442 employees, to a total of 80,396 employees. Similarly, the average number of employees at underground mines decreased 9.0 percent in 2013 and the average number of employees at surface mines decreased 13.0 percent. Kentucky had the largest decline in the average number of employees for the year, dropping by 3,446 employees. While there were fewer employees at mines in the United States in 2013, and a decrease in production, there was an increase in productivity. The average production per employee hour increased by 6.7 percent to a level of 5.54 short tons per employee hour.

Consumption

After two years of declining coal consumption, 2013 U.S. coal consumption increased by 4.0 percent, or 35.3 million short tons, to a total of 924.4 million short tons. Electric power sector (the largest consuming sector) coal consumption increased by 34.4 million short tons to 858.0 million short tons, the first increase since 2010. Coal consumption in the other industrial, coke, and commercial and institutional sectors increased by a combined 0.8 million short tons, or 1.3 percent.

Stocks

U.S. coal stocks ended 2013 at 200.4 million short tons, a decrease of 16.1 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 a decrease of 37.1 million short tons to 148.0 million short tons at the end of 2013. Coal stocks held by producers and distributors decreased 0.5 million short tons to end 2013 at 45.7 million short tons.

Sales Price

The total average sales price of coal from U.S. mines in 2013 was \$37.24 per short ton, a decrease of 6.8 percent from 2012. The average sales price of coal from surface mines declined by 7.3 percent to a level of \$24.50 per short ton. The average sales price of coal from underground mines declined by 8.4 percent to a level of \$60.98 per short ton. Noteworthy changes in 2013 average sales price of coal include:

- Average sales price in Alabama (\$88.20 per short ton) decreased by 17.2 percent
- Average sales price in Virginia (\$93.40 per short ton) decreased by 14.6 percent
- Average sales price in Illinois (\$47.82 per short ton) decreased by 9.9 percent
- Average sales price in West Virginia (\$75.56 per short ton) decreased by 7.6 percent

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Coal Production

Table 1. Coal Production and Number of Mines by State and Mine Type, 2013 and 2012

(thousand short tons)

Coal-Producing State and Region ¹	2013		2012		Percent Change	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	39	18,620	46	19,321	-15.2	-3.6
Underground	8	13,515	8	12,570	-	7.5
Surface	31	5,105	38	6,752	-18.4	-24.4
Alaska	1	1,632	1	2,052	-	-20.5
Surface	1	1,632	1	2,052	-	-20.5
Arizona	1	7,603	1	7,493	-	1.5
Surface	1	7,603	1	7,493	-	1.5
Arkansas	2	59	2	98	-	-40.3
Underground	1	55	1	96	-	-43.2
Surface	1	4	1	2	-	106.8
Colorado	10	24,236	12	28,566	-16.7	-15.2
Underground	6	19,416	9	23,646	-33.3	-17.9
Surface	4	4,820	3	4,920	33.3	-2.0
Illinois	24	52,147	24	48,486	-	7.6
Underground	15	46,447	15	42,837	-	8.4
Surface	9	5,701	9	5,649	-	0.9
Indiana	27	39,102	29	36,720	-6.9	6.5
Underground	9	16,837	9	15,565	-	8.2
Surface	18	22,265	20	21,156	-10.0	5.2
Kansas	1	22	1	16	-	39.6
Surface	1	22	1	16	-	39.6
Kentucky Total	270	80,380	357	90,862	-24.4	-11.5
Underground	98	54,620	150	58,198	-34.7	-6.2
Surface	172	25,759	207	32,664	-16.9	-21.1
Kentucky (East)	246	39,501	330	48,798	-25.5	-19.1
Underground	86	19,573	137	24,100	-37.2	-18.8
Surface	160	19,928	193	24,698	-17.1	-19.3
Kentucky (West)	24	40,879	27	42,063	-11.1	-2.8
Underground	12	35,047	13	34,098	-7.7	2.8
Surface	12	5,832	14	7,966	-14.3	-26.8
Louisiana	2	2,810	2	3,971	-	-29.3
Surface	2	2,810	2	3,971	-	-29.3
Maryland	21	1,925	21	2,283	-	-15.7
Underground	3	670	3	797	-	-15.9
Surface	18	1,255	18	1,486	-	-15.6
Mississippi	2	3,575	1	2,953	100.0	21.1
Surface	2	3,575	1	2,953	100.0	21.1
Missouri	1	414	2	422	-50.0	-1.9
Surface	1	414	2	422	-50.0	-1.9
Montana	6	42,231	6	36,694	-	15.1
Underground	1	8,683	1	5,708	-	52.1
Surface	5	33,549	5	30,986	-	8.3
New Mexico	4	21,969	4	22,452	-	-2.2
Underground	1	5,989	1	4,960	-	20.7
Surface	3	15,979	3	17,492	-	-8.7
North Dakota	4	27,639	4	27,529	-	0.4
Surface	4	27,639	4	27,529	-	0.4
Ohio	31	25,113	39	26,328	-20.5	-4.6
Underground	10	17,426	10	18,125	-	-3.9
Surface	21	7,687	29	8,203	-27.6	-6.3
Oklahoma	9	1,136	7	1,054	28.6	7.8
Underground	2	443	1	349	100.0	26.9
Surface	7	692	6	704	16.7	-1.7
Pennsylvania Total	229	54,009	235	54,719	-2.6	-1.3
Underground	52	45,164	49	45,041	6.1	0.3
Surface	177	8,844	186	9,677	-4.8	-8.6
Pennsylvania (Anthracite)	65	2,060	65	2,335	-	-11.8
Underground	11	95	11	120	-	-20.9

Coal-Producing State and Region ¹	2013		2012		Percent Change	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Surface	54	1,965	54	2,215	-	-11.3
Pennsylvania (Bituminous)	164	51,949	170	52,384	-3.5	-0.8
Underground	41	45,069	38	44,922	7.9	0.3
Surface	123	6,880	132	7,463	-6.8	-7.8
Tennessee	11	1,098	14	1,090	-21.4	0.8
Underground	4	731	5	573	-20.0	27.6
Surface	7	368	9	517	-22.2	-29.0
Texas	11	42,851	12	44,178	-8.3	-3.0
Surface	11	42,851	12	44,178	-8.3	-3.0
Utah	9	16,977	9	17,016	-	-0.2
Underground	8	16,236	8	16,446	-	-1.3
Surface	1	741	1	570	-	30.0
Virginia	82	16,619	96	18,965	-14.6	-12.4
Underground	48	12,190	57	12,370	-15.8	-1.5
Surface	34	4,429	39	6,595	-12.8	-32.8
West Virginia Total	218	112,786	264	120,425	-17.4	-6.3
Underground	128	78,819	160	80,469	-20.0	-2.1
Surface	90	33,967	104	39,956	-13.5	-15.0
West Virginia (Northern)	32	42,390	38	41,489	-15.8	2.2
Underground	18	40,871	22	39,445	-18.2	3.6
Surface	14	1,519	16	2,045	-12.5	-25.7
West Virginia (Southern)	186	70,396	226	78,935	-17.7	-10.8
Underground	110	37,949	138	41,024	-20.3	-7.5
Surface	76	32,448	88	37,911	-13.6	-14.4
Wyoming	17	387,924	18	401,442	-5.6	-3.4
Underground	1	4,443	1	4,637	-	-4.2
Surface	16	383,481	17	396,805	-5.9	-3.4
Appalachia Total	877	269,672	1,045	291,929	-16.1	-7.6
Underground	339	188,090	429	194,045	-21.0	-3.1
Surface	538	81,582	616	97,884	-12.7	-16.7
Appalachia Central	525	127,615	666	147,789	-21.2	-13.7
Underground	248	70,443	337	78,067	-26.4	-9.8
Surface	277	57,172	329	69,722	-15.8	-18.0
Appalachia Northern	313	123,437	333	124,819	-6.0	-1.1
Underground	83	104,131	84	103,409	-1.2	0.7
Surface	230	19,305	249	21,411	-7.6	-9.8
Appalachia Southern	39	18,620	46	19,321	-15.2	-3.6
Underground	8	13,515	8	12,570	-	7.5
Surface	31	5,105	38	6,752	-18.4	-24.4
Interior Region Total	103	182,994	107	179,961	-3.7	1.7
Underground	39	98,829	39	92,945	-	6.3
Surface	64	84,165	68	87,017	-5.9	-3.3
Illinois Basin	75	132,128	80	127,270	-6.3	3.8
Underground	36	98,331	37	92,499	-2.7	6.3
Surface	39	33,797	43	34,771	-9.3	-2.8
Other Interior	28	50,866	27	52,692	3.7	-3.5
Underground	3	498	2	446	50.0	11.8
Surface	25	50,368	25	52,246	-	-3.6
Western Region Total	52	530,210	55	543,244	-5.5	-2.4
Underground	17	54,766	20	55,396	-15.0	-1.1
Surface	35	475,444	35	487,847	-	-2.5
Powder River Basin	16	407,567	16	419,066	-	-2.7
Surface	16	407,567	16	419,066	-	-2.7
Uinta Basin	16	39,520	16	43,950	-	-10.1
Underground	13	34,917	14	39,384	-7.1	-11.3
Surface	3	4,604	2	4,567	50.0	0.8
Other Western	20	83,123	23	80,228	-13.0	3.6
Underground	4	19,850	6	16,013	-33.3	24.0
Surface	16	63,273	17	64,215	-5.9	-1.5
East of Mississippi River	954	405,375	1,126	422,152	-15.3	-4.0
West of Mississippi River	78	577,501	81	592,983	-3.7	-2.6
U.S. Subtotal	1,032	982,876	1,207	1,015,135	-14.5	-3.2

Coal-Producing State and Region ¹	2013		2012		Percent Change	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Refuse Recovery	29	1,966	22	1,324	31.8	48.5
U.S. Total	1,061	984,842	1,229	1,016,458	-13.7	-3.1

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

- = No data reported.

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.'

Table 2. Coal Production and Number of Mines by State, County, and Mine Type, 2013

(thousand short tons)

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	8	13,515	31	5,105	39	18,620
Bibb	-	-	1	56	1	56
Blount	-	-	1	29	1	29
Fayette	1	1,440	-	-	1	1,440
Franklin	-	-	2	235	2	235
Jackson	-	-	1	69	1	69
Jefferson	3	3,848	7	953	10	4,801
Shelby	1	123	1	60	2	182
Tuscaloosa	2	8,028	5	922	7	8,950
Walker	1	76	11	2,307	12	2,383
Winston	-	-	2	474	2	474
Alaska	-	-	1	1,632	1	1,632
Fairbanks North Star	-	-	1	1,632	1	1,632
Arizona	-	-	1	7,603	1	7,603
Navajo	-	-	1	7,603	1	7,603
Arkansas	1	55	1	4	2	59
Sebastian	1	55	1	4	2	59
Colorado	6	19,416	4	4,820	10	24,236
Delta	1	3,321	-	-	1	3,321
Gunnison	2	6,263	-	-	2	6,263
La Plata	1	735	-	-	1	735
Moffat	-	-	2	4,254	2	4,254
Montrose	-	-	1	216	1	216
Rio Blanco	1	1,861	1	350	2	2,212
Routt	1	7,236	-	-	1	7,236
Illinois	15	46,447	9	5,701	24	52,147
Franklin	1	6,494	-	-	1	6,494
Gallatin	-	-	1	2,016	1	2,016
Hamilton	1	186	-	-	1	186
Jackson	-	-	1	36	1	36
Macoupin	2	1,670	-	-	2	1,670
Montgomery	1	4,845	-	-	1	4,845
Perry	2	2,766	3	721	5	3,488
Randolph	1	2,834	2	981	3	3,815
Saline	3	11,449	1	695	4	12,144
Sangamon	1	2,281	-	-	1	2,281
Wabash	-	-	1	1,252	1	1,252
Washington	1	4,630	-	-	1	4,630
White	1	2,597	-	-	1	2,597
Williamson	1	6,695	-	-	1	6,695
Indiana	9	16,837	18	22,265	27	39,102
Clay	-	-	1	120	1	120
Daviess	-	-	2	2,106	2	2,106
Dubois	-	-	1	1,160	1	1,160
Gibson	2	6,853	3	3,431	5	10,284
Knox	4	5,030	2	546	6	5,575
Pike	1	1,796	3	1,969	4	3,765
Sullivan	2	3,158	1	8,305	3	11,463
Vigo	-	-	1	22	1	22
Warrick	-	-	4	4,607	4	4,607
Kansas	-	-	1	22	1	22
Bourbon	-	-	1	22	1	22
Kentucky	98	54,620	172	25,759	270	80,380
Bell	4	744	9	338	13	1,082
Breathitt	-	-	5	575	5	575
Clay	-	-	7	183	7	183
Daviess	-	-	2	485	2	485
Elliott	-	-	1	46	1	46

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Floyd	10	1,502	10	1,004	20	2,507
Harlan	15	2,810	14	1,702	29	4,512
Henderson	-	-	1	14	1	14
Hopkins	4	12,438	-	-	4	12,438
Johnson	-	-	6	434	6	434
Knott	3	1,229	4	608	7	1,837
Knox	3	83	6	303	9	386
Laurel	-	-	3	33	3	33
Lawrence	1	336	9	318	10	654
Leslie	3	950	6	1,079	9	2,029
Letcher	9	1,334	13	1,017	22	2,352
Magoffin	-	-	6	1,659	6	1,659
Martin	3	2,456	5	614	8	3,070
Muhlenberg	2	3,766	1	280	3	4,047
Ohio	2	3,210	5	5,006	7	8,216
Perry	7	2,661	14	4,901	21	7,562
Pike	27	5,350	33	4,720	60	10,070
Rockcastle	-	-	1	13	1	13
Union	3	13,266	-	-	3	13,266
Webster	1	2,368	3	47	4	2,415
Whitley	1	118	8	379	9	497
Louisiana	-	-	2	2,810	2	2,810
De Soto	-	-	1	2,715	1	2,715
Natchitoches	-	-	1	94	1	94
Maryland	3	670	18	1,255	21	1,925
Allegany	1	315	11	1,082	12	1,397
Garrett	2	355	7	173	9	529
Mississippi	-	-	2	3,575	2	3,575
Choctaw	-	-	1	3,323	1	3,323
Kemper	-	-	1	252	1	252
Missouri	-	-	1	414	1	414
Bates	-	-	1	414	1	414
Montana	1	8,683	5	33,549	6	42,231
Big Horn	-	-	3	24,960	3	24,960
Musselshell	1	8,683	-	-	1	8,683
Richland	-	-	1	354	1	354
Rosebud	-	-	1	8,234	1	8,234
New Mexico	1	5,989	3	15,979	4	21,969
Mckinley	-	-	2	8,696	2	8,696
San Juan	1	5,989	1	7,284	2	13,273
North Dakota	-	-	4	27,639	4	27,639
Mclean	-	-	1	7,650	1	7,650
Mercer	-	-	2	16,260	2	16,260
Oliver	-	-	1	3,729	1	3,729
Ohio	10	17,426	21	7,687	31	25,113
Belmont	1	5,550	1	907	2	6,457
Carroll	1	238	-	-	1	238
Columbiana	-	-	1	39	1	39
Guernsey	-	-	1	165	1	165
Harrison	2	1,330	3	2,055	5	3,386
Jackson	-	-	1	96	1	96
Jefferson	2	489	4	1,261	6	1,750
Mahoning	-	-	1	4	1	4
Monroe	1	8,040	-	-	1	8,040
Noble	-	-	2	485	2	485
Perry	2	1,568	1	837	3	2,404
Stark	-	-	2	429	2	429
Tuscarawas	1	212	2	973	3	1,185
Vinton	-	-	2	436	2	436
Oklahoma	2	443	7	692	9	1,136
Craig	-	-	1	28	1	28
Haskell	-	-	3	207	3	207
Le Flore	2	443	1	214	3	658
Nowata	-	-	1	240	1	240

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Okmulgee	-	-	1	3	1	3
Pennsylvania	52	45,164	177	8,844	229	54,009
Allegheny	-	-	2	27	2	27
Armstrong	8	2,289	4	94	12	2,384
Beaver	1	207	-	-	1	207
Bedford	-	-	2	138	2	138
Blair	-	-	1	32	1	32
Butler	-	-	2	38	2	38
Cambria	2	854	8	658	10	1,511
Carbon	-	-	1	22	1	22
Centre	-	-	1	153	1	153
Clarion	-	-	3	179	3	179
Clearfield	3	1,426	35	1,881	38	3,307
Columbia	-	-	2	70	2	70
Dauphin	2	6	-	-	2	6
Elk	-	-	6	105	6	105
Fayette	-	-	5	130	5	130
Greene	5	25,233	1	157	6	25,390
Huntingdon	-	-	1	3	1	3
Indiana	10	2,670	17	370	27	3,040
Jefferson	1	25	7	677	8	702
Lackawanna	-	-	2	10	2	10
Luzerne	-	-	6	370	6	370
Lycoming	-	-	1	228	1	228
Mercer	-	-	1	39	1	39
Northumberland	3	26	9	289	12	315
Schuylkill	6	63	34	1,203	40	1,265
Somerset	9	2,239	16	1,114	25	3,353
Venango	-	-	1	28	1	28
Washington	1	10,112	3	659	4	10,771
Westmoreland	1	15	6	168	7	184
Tennessee	4	731	7	368	11	1,098
Anderson	-	-	2	51	2	51
Campbell	2	49	3	120	5	169
Claiborne	2	682	2	196	4	878
Texas	-	-	11	42,851	11	42,851
Atascosa	-	-	1	3,172	1	3,172
Freestone	-	-	1	3,233	1	3,233
Harrison	-	-	1	3,913	1	3,913
Lee	-	-	1	7,189	1	7,189
Leon	-	-	1	4,978	1	4,978
Limestone	-	-	1	8,769	1	8,769
Panola	-	-	2	5,424	2	5,424
Robertson	-	-	1	1,713	1	1,713
Rusk	-	-	1	3,431	1	3,431
Titus	-	-	1	1,028	1	1,028
Utah	8	16,236	1	741	9	16,977
Carbon	4	6,585	-	-	4	6,585
Emery	3	3,690	-	-	3	3,690
Kane	-	-	1	741	1	741
Sevier	1	5,960	-	-	1	5,960
Virginia	48	12,190	34	4,429	82	16,619
Buchanan	18	6,305	9	1,390	27	7,695
Dickenson	11	3,032	6	510	17	3,543
Lee	1	37	1	10	2	47
Russell	4	298	2	100	6	398
Tazewell	2	481	2	767	4	1,248
Wise	12	2,036	14	1,652	26	3,688
West Virginia	128	78,819	90	33,967	218	112,786
Barbour	1	1,020	1	5	2	1,024
Boone	14	6,018	9	8,143	23	14,161
Clay	-	-	1	3	1	3
Fayette	3	1,289	4	3,324	7	4,613
Grant	1	-	-	-	1	-

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Greenbrier	4	535	4	310	8	845
Harrison	1	434	1	19	2	453
Kanawha	7	5,943	9	3,628	16	9,571
Lincoln	1	544	-	-	1	544
Logan	10	5,366	11	7,978	21	13,343
Marion	3	11,010	2	211	5	11,222
Marshall	2	15,022	-	-	2	15,022
Mcdowell	27	2,635	13	1,634	40	4,269
Mercer	-	-	1	251	1	251
Mineral	-	-	2	59	2	59
Mingo	13	2,283	11	2,998	24	5,281
Monongalia	3	4,936	2	120	5	5,057
Nicholas	4	921	4	227	8	1,148
Ohio	1	3,694	-	-	1	3,694
Raleigh	11	4,364	6	2,725	17	7,089
Taylor	1	569	2	18	3	587
Tucker	1	2,329	2	23	3	2,352
Upshur	1	556	1	53	2	609
Wayne	5	3,337	1	24	6	3,361
Webster	3	1,300	1	1,010	4	2,310
Wyoming	11	4,714	2	1,204	13	5,917
Wyoming	1	4,443	16	383,481	17	387,924
Campbell	-	-	11	343,018	11	343,018
Converse	-	-	1	31,354	1	31,354
Hot Springs	-	-	1	27	1	27
Lincoln	-	-	1	4,639	1	4,639
Sweetwater	1	4,443	2	4,443	3	8,886
U.S. Subtotal	395	341,685	637	641,191	1,032	982,876
Refuse Recovery	-	-	-	-	29	1,966
U.S. Total	395	341,685	637	641,191	1,061	984,842

- = No data reported.

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.'¹

Table 3. Underground Coal Production by State and Mining Method, 2013

(thousand short tons)

Coal-Producing State and Region ¹	Continuous ²	Conventional and Other ³	Longwall ⁴	Total
Alabama	325	-	13,190	13,515
Arkansas	55	-	-	55
Colorado	735	-	18,681	19,416
Illinois	18,543	-	27,903	46,447
Indiana	16,821	16	-	16,837
Kentucky Total	50,116	4,504	-	54,620
Kentucky (East)	17,488	2,085	-	19,573
Kentucky (West)	32,628	2,419	-	35,047
Maryland	670	-	-	670
Montana	-	-	8,683	8,683
New Mexico	-	-	5,989	5,989
Ohio	3,837	-	13,590	17,426
Oklahoma	442	2	-	443
Pennsylvania Total	11,370	61	33,733	45,164
Pennsylvania (Anthracite)	55	39	-	95
Pennsylvania (Bituminous)	11,314	21	33,733	45,069
Tennessee	730	1	-	731
Utah	1,695	4	14,537	16,236
Virginia	7,301	106	4,784	12,190
West Virginia Total	35,028	132	43,660	78,819
West Virginia (Northern)	4,882	2	35,986	40,871
West Virginia (Southern)	30,146	130	7,673	37,949
Wyoming	-	-	4,443	4,443
Appalachia Total	76,749	2,384	108,957	188,090
Appalachia Central	55,665	2,321	12,457	70,443
Appalachia Northern	20,759	63	83,309	104,131
Appalachia Southern	325	-	13,190	13,515
Interior Region Total	68,489	2,437	27,903	98,829
Illinois Basin	67,992	2,435	27,903	98,331
Other Interior	496	2	-	498
Western Region Total	2,430	4	52,333	54,766
Uinta Basin	1,695	4	33,218	34,917
Other Western	735	-	19,115	19,850
East of Mississippi River	144,741	4,819	136,860	286,420
West of Mississippi River	2,926	5	52,333	55,264
U.S. Total	147,667	4,824	189,193	341,685

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

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.

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

Table 4. Coal Production by Coalbed Thickness and Mine Type, 2013

(thousand short tons)

Coal Thickness (inches)	Underground	Surface	Total
Under 7	-	1,448	1,448
7 - Under 13	-	2,499	2,499
13 - Under 19	334	5,820	6,155
19 - Under 25	336	13,046	13,383
25 - Under 31	2,978	12,449	15,426
31 - Under 37	14,570	12,885	27,454
37 - Under 43	21,036	14,804	35,840
43 - Under 49	23,035	13,840	36,874
49 - Under 55	17,587	17,568	35,155
55 - Under 61	37,009	9,072	46,081
61 - Under 67	43,664	10,349	54,013
67 - Under 73	49,205	8,995	58,201
73 - Under 79	35,524	15,467	50,990
79 - Under 85	24,374	4,329	28,702
85 - Under 91	11,261	5,472	16,734
91 - Under 97	5,786	3,479	9,265
97 - Under 103	4,958	2,141	7,099
103 - Under 109	11,493	4,848	16,342
109 - Under 115	257	5,977	6,234
115 - 120	16,327	1,198	17,524
Over 120	21,425	473,510	494,935
Unknown *	525	1,995	4,487
U.S. Total	341,685	641,191	984,842

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

- = No data reported.

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

Table 5. Coal Production and Coalbed Thickness by Major Coalbeds and Mine Type, 2013

Coalbed ID Number ¹ Coalbed Name	Production (thousand short tons)			Thickness (inches)			
	Underground	Surface	Total	Average ²	Low	High	
1699	Wyodak	-	351,766	351,766	776	160	900
0212	Pittsburgh	60,422	134	60,556	74	27	98
0489	No. 9	42,955	12,475	55,430	64	24	79
0484	Herrin (Illinois No. 6)	49,468	2,445	51,913	71	46	85
0036	Pittsburgh	20,423	3,436	23,858	67	18	132
1696	Anderson-Dietz 1-Dietz 2	-	19,699	19,699	929	660	960
1569	Beulah-Zap	-	16,161	16,161	196	114	210
0084	Lower Kittanning	10,228	5,794	16,023	69	10	210
0280	Blue Creek	11,416	252	11,668	52	12	76
1787	Roland	-	11,637	11,637	464	384	495
0111	Coalburg	983	10,338	11,322	67	5	120
1701	Smith	-	10,970	10,970	912	912	912
0344	Pocahontas No. 3	10,858	-	10,858	62	34	84
1808	Rosebud	-	10,527	10,527	256	186	276
1570	Hagel	-	10,111	10,111	137	135	144
0103	Stockton-Lewiston	3,376	6,382	9,758	70	10	125
1806	Mammoth	8,683	-	8,683	108	108	108
0151	Upper Elkhorn No. 3	6,814	1,736	8,550	44	8	115
1488	Fruitland No. 8	5,989	2,185	8,174	151	64	162
0168	Lower Elkhorn	6,211	1,455	7,667	44	6	76
1003	Menefee Formation	735	6,594	7,329	115	17	124
0176	Eagle	5,704	1,211	6,915	41	14	53
0071	Upper Freeport	5,925	712	6,637	63	11	124
0506	No. 6	5,869	411	6,280	79	45	89
0121	Winifrede	2,886	3,368	6,254	59	5	110
Major Coalbeds Total	258,948	489,800	748,747	449	5	960	
Other Coalbeds	82,212	149,396	231,608	90	4	960	
Unknown *	525	1,995	4,487	NA	NA	NA	
U.S. Total	341,685	641,191	984,842	363	-	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.

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.

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); Taggart (Virginia); Cedar Grove (West Virginia); 0157, Elkhorn No. 1 (East Kentucky); Rich Mountain (Tennessee); 0168, Imboden (Virginia); No. 2 Gas (West Virginia); 0176, Middle Eagle (West Virginia); 0484, No. 11 (Western Kentucky); 0489, No. 5 (Illinois and Indiana).

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

Table 6. Coal Production and Number of Mines by State and Coal Rank, 2013

(thousand short tons)

Coal-Producing State and Region ¹	Bituminous		Subbituminous		Lignite		Anthracite		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	39	18,620	-	-	-	-	-	-	39	18,620
Alaska	-	-	1	1,632	-	-	-	-	1	1,632
Arizona	1	7,603	-	-	-	-	-	-	1	7,603
Arkansas	2	59	-	-	-	-	-	-	2	59
Colorado	8	19,983	2	4,254	-	-	-	-	10	24,236
Illinois	24	52,147	-	-	-	-	-	-	24	52,147
Indiana	27	39,102	-	-	-	-	-	-	27	39,102
Kansas	1	22	-	-	-	-	-	-	1	22
Kentucky Total	270	80,380	-	-	-	-	-	-	270	80,380
Kentucky (East)	246	39,501	-	-	-	-	-	-	246	39,501
Kentucky (West)	24	40,879	-	-	-	-	-	-	24	40,879
Louisiana	-	-	-	-	2	2,810	-	-	2	2,810
Maryland	21	1,925	-	-	-	-	-	-	21	1,925
Mississippi	-	-	-	-	2	3,575	-	-	2	3,575
Missouri	1	414	-	-	-	-	-	-	1	414
Montana	1	8,683	4	33,194	1	354	-	-	6	42,231
New Mexico	3	14,685	1	7,284	-	-	-	-	4	21,969
North Dakota	-	-	-	-	4	27,639	-	-	4	27,639
Ohio	31	25,113	-	-	-	-	-	-	31	25,113
Oklahoma	9	1,136	-	-	-	-	-	-	9	1,136
Pennsylvania Total	164	51,949	-	-	-	-	65	2,060	229	54,009
Pennsylvania (Anthracite)	-	-	-	-	-	-	65	2,060	65	2,060
Pennsylvania (Bituminous)	164	51,949	-	-	-	-	-	-	164	51,949
Tennessee	11	1,098	-	-	-	-	-	-	11	1,098
Texas	-	-	-	-	11	42,851	-	-	11	42,851
Utah	9	16,977	-	-	-	-	-	-	9	16,977
Virginia	82	16,619	-	-	-	-	-	-	82	16,619
West Virginia Total	218	112,786	-	-	-	-	-	-	218	112,786
West Virginia (Northern)	32	42,390	-	-	-	-	-	-	32	42,390
West Virginia (Southern)	186	70,396	-	-	-	-	-	-	186	70,396
Wyoming	-	-	17	387,924	-	-	-	-	17	387,924
Appalachia Total	812	267,612	-	-	-	-	65	2,060	877	269,672
Appalachia Central	525	127,615	-	-	-	-	-	-	525	127,615
Appalachia Northern	248	121,377	-	-	-	-	65	2,060	313	123,437
Appalachia Southern	39	18,620	-	-	-	-	-	-	39	18,620
Interior Region Total	88	133,758	-	-	15	49,235	-	-	103	182,994
Illinois Basin	75	132,128	-	-	-	-	-	-	75	132,128
Other Interior	13	1,630	-	-	15	49,235	-	-	28	50,866
Western Region Total	22	67,930	25	434,287	5	27,993	-	-	52	530,210
Powder River Basin	-	-	16	407,567	-	-	-	-	16	407,567
Uinta Basin	14	35,267	2	4,254	-	-	-	-	16	39,520
Other Western	8	32,663	7	22,467	5	27,993	-	-	20	83,123
East of Mississippi River	887	399,740	-	-	2	3,575	65	2,060	954	405,375
West of Mississippi River	35	69,560	25	434,287	18	73,654	-	-	78	577,501
U.S. Subtotal	922	469,300	25	434,287	20	77,229	65	2,060	1,032	982,876
Refuse Recovery	24	1,883	-	-	-	-	5	84	29	1,966
U.S. Total	946	471,183	25	434,287	20	77,229	70	2,143	1,061	984,842

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

- = No data reported.

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

Table 7. Coal Production by State, Mine Type, and Union Status, 2013

(thousand short tons)

Coal-Producing State and Region ¹	Union		Nonunion		Total	
	Underground	Surface	Underground	Surface	Underground	Surface
Alabama	13,190	704	325	4,390	13,515	5,093
Alaska	-	1,632	-	-	-	1,632
Arizona	-	7,603	-	-	-	7,603
Arkansas	-	-	55	-	55	-
Colorado	1,861	2,161	17,554	2,659	19,416	4,820
Illinois	930	-	45,516	5,677	46,447	5,677
Indiana	-	-	16,799	22,243	16,799	22,243
Kentucky Total	2,931	-	51,561	25,244	54,492	25,244
Kentucky (East)	-	-	19,445	19,444	19,445	19,444
Kentucky (West)	2,931	-	32,116	5,800	35,047	5,800
Louisiana	-	-	-	2,810	-	2,810
Maryland	-	-	670	1,204	670	1,204
Mississippi	-	-	-	3,575	-	3,575
Missouri	-	-	-	414	-	414
Montana	-	15,879	8,683	17,670	8,683	33,549
New Mexico	5,989	7,284	-	8,676	5,989	15,960
North Dakota	-	6,206	-	21,433	-	27,639
Ohio	5,550	-	11,876	7,665	17,426	7,665
Oklahoma	-	-	442	654	442	654
Pennsylvania Total	12,300	584	32,748	7,372	45,048	7,956
Pennsylvania (Anthracite)	-	425	-	1,238	-	1,664
Pennsylvania (Bituminous)	12,300	158	32,748	6,134	45,048	6,292
Tennessee	-	-	730	326	730	326
Texas	-	29,074	-	13,777	-	42,851
Utah	2,810	-	13,422	741	16,232	741
Virginia	831	-	11,253	4,375	12,085	4,375
West Virginia Total	33,727	5,710	44,961	27,974	78,688	33,685
West Virginia (Northern)	29,394	-	11,474	1,427	40,869	1,427
West Virginia (Southern)	4,333	5,710	33,486	26,547	37,819	32,257
Wyoming	4,443	5,425	-	378,056	4,443	383,481
Appalachia Total	65,599	6,998	122,009	72,751	187,607	79,748
Appalachia Central	5,164	5,710	64,915	50,693	70,079	56,403
Appalachia Northern	47,244	584	56,769	17,668	104,013	18,252
Appalachia Southern	13,190	704	325	4,390	13,515	5,093
Interior Region Total	3,862	29,074	94,927	54,949	98,789	84,023
Illinois Basin	3,862	-	94,431	33,720	98,293	33,720
Other Interior	-	29,074	496	21,229	496	50,303
Western Region Total	15,104	46,189	39,659	429,235	54,763	475,425
Powder River Basin	-	15,525	-	392,042	-	407,567
Uinta Basin	4,672	1,945	30,241	2,659	34,913	4,604
Other Western	10,432	28,720	9,418	34,534	19,850	63,254
East of Mississippi River	69,460	6,998	216,439	110,046	285,900	117,043
West of Mississippi River	15,104	75,263	40,156	446,889	55,259	522,152
U.S. Subtotal	84,564	82,261	256,595	556,934	341,159	639,196
Unknown *	-	-	-	-	525	1,995
U.S. Total	84,564	82,261	256,595	556,934	341,685	641,191

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

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

- = No data reported.

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

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

Table 8. Coal Disposition by State, 2013

(thousand short tons)

Coal-Producing State	Open Market Sales ¹	Captive Sales / Transactions ²	Exports ³	Total
Alabama	6,990	-	10,843	17,833
Alaska	988	-	635	1,623
Arizona	7,903	-	-	7,903
Arkansas	6	-	37	43
Colorado	8,843	10,854	3,826	23,524
Illinois	34,267	6,312	12,186	52,765
Indiana	20,276	18,460	11	38,746
Kentucky Total	74,434	969	4,036	79,440
Kentucky (East)	34,905	969	2,992	38,867
Kentucky (West)	39,529	-	1,044	40,573
Louisiana	2,813	-	-	2,813
Maryland	1,856	-	102	1,959
Mississippi	3,169	-	s	3,169
Missouri	414	-	-	414
Montana	28,763	12,197	-	40,961
New Mexico	14,167	7,715	-	21,882
North Dakota	24,089	3,591	-	27,680
Ohio	23,375	1,682	-	25,057
Oklahoma	1,167	-	-	1,167
Pennsylvania Total	43,282	2,318	7,696	53,295
Pennsylvania (Anthracite)	1,623	222	143	1,988
Pennsylvania (Bituminous)	41,659	2,095	7,553	51,307
Tennessee	1,026	-	-	1,026
Texas	11,081	29,129	-	40,210
Utah	13,215	2,853	1,331	17,399
Virginia	8,528	733	8,049	17,309
West Virginia Total	81,541	2,227	28,592	112,360
West Virginia (Northern)	37,792	1,576	3,001	42,369
West Virginia (Southern)	43,749	652	25,591	69,991
Wyoming	255,995	130,639	1,508	388,142
U.S. Subtotal	668,187	229,679	78,852	976,718
Other Exports *	-	-	38,807	38,807
U.S. Total **	668,187	229,679	117,659	1,015,526

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

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.

** Excludes mines producing less than 25,000 short tons, which are not required to provide data, and refuse recovery.

- = No data reported.

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.'

Table 9. Major U.S. Coal Mines, 2013

Rank	Mine Name / Operating Company	Mine Type	State	Production (short tons)
1	North Antelope Rochelle Mine / Peabody Powder River Mining LI	Surface	Wyoming	111,005,549
2	Black Thunder / Thunder Basin Coal Company LLC	Surface	Wyoming	100,687,876
3	Cordero Mine / Cordero Mining LLC	Surface	Wyoming	36,670,450
4	Antelope Coal Mine / Antelope Coal LLC	Surface	Wyoming	31,354,248
5	Eagle Butte Mine / Alpha Coal West, Inc.	Surface	Wyoming	19,904,433
6	Belle Ayr Mine / Alpha Coal West, Inc.	Surface	Wyoming	18,258,922
7	Spring Creek Coal Company / Spring Creek Coal LLC	Surface	Montana	17,669,717
8	Buckskin Mine / Kiewit Mining Group Inc.	Surface	Wyoming	15,023,906
9	Rawhide Mine / Peabody Caballo Mining, LLC	Surface	Wyoming	14,246,329
10	Freedom Mine / The Coteau Properties Company	Surface	North Dakota	13,782,716
11	Bailey Mine / Consol Pennsylvania Coal Compa	Underground	Pennsylvania	11,321,481
12	Enlow Fork Mine / Consol Pennsylvania Coal Compa	Underground	Pennsylvania	10,111,722
13	McElroy Mine / McElroy Coal Company	Underground	West Virginia	9,403,070
14	River View Mine / River View Coal LLC	Underground	Kentucky	9,310,310
15	Caballo Mine / Peabody Caballo Mining, LLC	Surface	Wyoming	8,979,111
16	Kosse Strip / Luminant Mining Company LLC	Surface	Texas	8,769,129
17	Bull Mountains Mine No 1 / Signal Peak Energy LLC	Underground	Montana	8,682,884
18	El Segundo / Peabody New Mexico Services Di	Surface	New Mexico	8,676,276
19	Coal Creek Mine / Thunder Basin Coal Company LLC	Surface	Wyoming	8,522,265
20	Bear Run Mine / Peabody Bear Run Mining LLC	Surface	Indiana	8,305,079
21	Rosebud Mine&crusher/Conveyor / Western Energy Company	Surface	Montana	8,234,130
22	Century Mine / American Energy Corporation	Underground	Ohio	8,039,546
23	Falkirk Mine / Falkirk Mining Company	Surface	North Dakota	7,650,076
24	Kayenta Mine / Peabody Western Coal Company	Surface	Arizona	7,602,722
25	Navajo Mine / BHP Billiton Mine Management C	Surface	New Mexico	7,283,590
26	Foidel Creek Mine / Peabody Twentymile Mining LLC	Underground	Colorado	7,235,627
27	Three Oaks / Luminant Mining Company LLC	Surface	Texas	7,189,178
28	Mach #1 Mine / Mach Mining LLC	Underground	Illinois	6,694,630
29	Mc#1 Mine / M-Class Mining LLC	Underground	Illinois	6,493,536
30	San Juan Mine 1 / San Juan Coal Company	Underground	New Mexico	5,989,380
31	Sufco / Canyon Fuel Company LLC	Underground	Utah	5,960,266
32	West Elk Mine / Mountain Coal Company, L.L.C.	Underground	Colorado	5,826,798
33	Robinson Run No 95 / Consolidation Coal Company	Underground	West Virginia	5,700,956
34	Shoemaker Mine / Consolidation Coal Company	Underground	West Virginia	5,619,263
35	Cumberland Mine / Cumberland Coal Resources LP	Underground	Pennsylvania	5,576,502
36	Powhatan No. 6 Mine / The Ohio Valley Coal Company	Underground	Ohio	5,550,146
37	New Future Mine / The American Coal Company	Underground	Illinois	5,450,222
38	Dry Fork Mine / Western Fuels-Wyoming Inc	Surface	Wyoming	5,433,936
39	No 7 Mine / Jim Walter Resources Inc	Underground	Alabama	5,405,412
40	Loveridge #22 / Consolidation Coal Company	Underground	West Virginia	5,307,709
41	Cardinal / Warrior Coal LLC	Underground	Kentucky	5,198,985
42	Jewett Mine / Texas Westmoreland Coal Compan	Surface	Texas	4,978,299
43	Deer Run Mine / Patton Mining LLC	Underground	Illinois	4,845,308
44	Buchanan Mine #1 / Consol Buchanan Mining Company	Underground	Virginia	4,783,655
45	Kemmerer Mine / Westmoreland Kemmerer Inc	Surface	Wyoming	4,639,135
46	Lively Grove Mine / Prairie State Generating Compa	Underground	Illinois	4,629,720
47	Bridger Underground Coal Mine / Bridger Coal Company	Underground	Wyoming	4,442,616
48	The American Coal Company New / The American Coal Company	Underground	Illinois	4,419,659
49	Wyodak Mine / Wyodak Resources Development C	Surface	Wyoming	4,285,445
50	Absaloka Mine / Westmoreland Resources Inc.	Surface	Montana	4,168,748
	Subtotal			645,320,668
	All Other Mines			339,521,111
	U.S. Total			984,841,779

Note: Major mines are mines that produced more than 4 million short tons in 2013. Company listed indicates the firm operating the mine.

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

Table 10. Major U.S. Coal Producers, 2013

Rank	Controlling Company Name	Production (thousand short tons)	Percent of Total Production
1	Peabody Energy Corp	183,275	18.6
2	Arch Coal Inc	130,235	13.2
3	Cloud Peak Energy	85,694	8.7
4	Alpha Natural Resources LLC	84,937	8.6
5	Rio Tinto Group	61,899	6.3
6	Murray Energy Corp	58,522	5.9
7	Westmoreland Coal Co	51,532	5.2
8	Alliance Resource Operating Partners LP	38,099	3.9
9	Energy Future Holdings Corp	29,074	3.0
10	NACCO Industries Inc	29,015	2.9
11	CONSOL Energy Inc	27,979	2.8
12	Patriot Coal Corp	20,804	2.1
13	Peter Kiewit Sons Inc	19,909	2.0
14	Walter Energy Inc	13,835	1.4
15	Bowie Resource Holdings LLC	9,659	1.0
16	Armstrong Energy Inc	9,509	1.0
17	Hallador Energy Co	9,467	1.0
18	Boich Group LLC	8,683	0.9
19	PacifiCorp	8,039	0.8
20	Western Fuels Association Inc	7,748	0.8
21	Rosebud Mining Co	7,582	0.8
22	Cline Group (The)	7,434	0.8
23	James River Coal Co	7,402	0.8
24	Navajo Transitional Energy Co	7,284	0.7
25	Cliffs Natural Resources Inc	7,206	0.7
26	Ambre Energy North America	6,779	0.7
27	Coalfield Transport Inc	6,494	0.7
28	BHP Billiton Ltd	5,989	0.6
29	Oxford Resource Partners LP	5,303	0.5
	Subtotal	949,386	96.4
	All Other Coal Producers	35,455	3.6
	U.S. Total	984,842	100.0

Note: The listed companies each produced more than 5 million short tons of coal in 2013. 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 2014 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, 2013 and 2012

(thousand short tons)

Coal-Producing State	2013			2012			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	15,121	7,633	22,754	14,594	7,967	22,561	3.6	-4.2	0.9
Alaska	-	3,000	3,000	-	3,000	3,000	-	-	-
Arizona	-	8,500	8,500	-	8,500	8,500	-	-	-
Arkansas	240	-	240	180	-	180	33.3	-	33.3
Colorado	24,544	6,410	30,954	31,970	5,300	37,270	-23.2	20.9	-16.9
Illinois	61,346	8,786	70,132	60,317	9,840	70,157	1.7	-10.7	s
Indiana	18,822	28,613	47,436	16,445	28,488	44,933	14.5	0.4	5.6
Kentucky Total	65,540	37,074	102,614	74,602	52,062	126,664	-12.1	-28.8	-19.0
Kentucky (East)	24,985	27,561	52,545	30,656	36,261	66,917	-18.5	-24.0	-21.5
Kentucky (West)	40,556	9,513	50,069	43,945	15,801	59,747	-7.7	-39.8	-16.2
Louisiana	-	3,263	3,263	-	4,050	4,050	-	-19.4	-19.4
Maryland	1,033	1,806	2,839	1,103	2,179	3,282	-6.3	-17.1	-13.5
Mississippi	-	8,700	8,700	-	3,800	3,800	-	128.9	128.9
Missouri	-	444	444	-	452	452	-	-1.8	-1.8
Montana	10,000	46,070	56,070	10,000	45,600	55,600	-	1.0	0.8
New Mexico	7,200	20,500	27,700	7,200	19,372	26,572	-	5.8	4.2
North Dakota	-	32,600	32,600	-	32,900	32,900	-	-0.9	-0.9
Ohio	22,012	23,089	45,100	21,811	24,383	46,193	0.9	-5.3	-2.4
Oklahoma	500	808	1,308	400	823	1,223	25.0	-1.8	7.0
Pennsylvania Total	53,491	12,149	65,640	51,383	12,481	63,864	4.1	-2.7	2.8
Pennsylvania (Anthracite)	160	3,535	3,695	126	3,620	3,745	27.0	-2.3	-1.3
Pennsylvania (Bituminous)	53,330	8,615	61,945	51,257	8,861	60,118	4.0	-2.8	3.0
Tennessee	759	798	1,557	678	575	1,252	11.9	38.8	24.4
Texas	-	44,790	44,790	-	47,050	47,050	-	-4.8	-4.8
Utah	22,289	753	23,041	23,354	1,500	24,854	-4.6	-49.8	-7.3
Virginia	13,282	6,924	20,205	14,164	8,853	23,017	-6.2	-21.8	-12.2
West Virginia Total	95,036	39,650	134,686	98,387	51,542	149,929	-3.4	-23.1	-10.2
West Virginia (Northern)	45,589	1,611	47,201	44,148	3,660	47,808	3.3	-56.0	-1.3
West Virginia (Southern)	49,447	38,038	87,485	54,240	47,881	102,121	-8.8	-20.6	-14.3
Wyoming	4,700	493,701	498,401	5,300	481,765	487,065	-11.3	2.5	2.3
U.S. Total	415,914	836,060	1,251,974	431,888	852,481	1,284,369	-3.7	-1.9	-2.5

s = Absolute percentage less than 0.05 or value is less than 0.5 of the table metric.

- = No data reported.

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.'

Table 12. Capacity Utilization of Coal Mines by State, 2013 and 2012

(percent)

Coal-Producing State	2013			2012		
	Underground	Surface	Total	Underground	Surface	Total
Alabama	89.38	66.73	81.78	85.99	83.96	85.28
Alaska	-	54.39	54.39	-	68.40	68.40
Arizona	-	89.44	89.44	-	88.16	88.16
Arkansas	22.75	-	22.75	53.44	-	53.44
Colorado	79.11	75.20	78.30	73.96	92.83	76.65
Illinois	75.71	64.62	74.32	71.02	57.41	69.11
Indiana	89.37	77.81	82.40	94.65	74.26	81.72
Kentucky Total	83.16	68.13	77.73	77.53	61.58	70.98
Kentucky (East)	77.87	70.61	74.06	77.48	66.53	71.55
Kentucky (West)	86.42	60.97	81.58	77.57	50.22	70.34
Louisiana	-	86.10	86.10	-	98.05	98.05
Maryland	64.92	66.66	66.03	72.28	65.42	67.72
Mississippi	-	41.09	41.09	-	77.71	77.71
Missouri	-	93.26	93.26	-	93.35	93.35
Montana	86.83	72.82	75.32	57.08	67.95	66.00
New Mexico	83.19	77.95	79.31	68.89	90.29	84.49
North Dakota	-	84.78	84.78	-	83.67	83.67
Ohio	79.17	33.20	55.63	83.07	33.30	56.80
Oklahoma	88.38	80.85	83.73	87.37	84.61	85.51
Pennsylvania Total	84.34	67.27	81.18	87.59	72.11	84.57
Pennsylvania (Anthracite)	42.03	52.51	52.06	68.83	58.99	59.32
Pennsylvania (Bituminous)	84.47	73.33	82.92	87.64	77.48	86.14
Tennessee	96.12	40.91	67.83	82.49	83.34	82.88
Texas	-	95.67	95.67	-	93.90	93.90
Utah	72.83	98.45	73.66	70.42	38.01	68.46
Virginia	90.99	63.19	81.46	86.53	74.30	81.83
West Virginia Total	82.80	84.96	83.43	81.63	77.24	80.12
West Virginia (Northern)	89.65	88.58	89.61	89.30	54.55	86.64
West Virginia (Southern)	76.48	84.80	80.10	75.39	78.98	77.07
Wyoming	94.52	77.67	77.83	87.48	82.36	82.42
U.S. Total	82.05	76.49	78.33	79.11	78.71	78.85

- = No data reported.

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.

Source: U.S. Energy Information Administration Form EIA-7A, 'Coal Production and Preparation Report,' for productive capacity, and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report,' for annual production.

Table 13. Productive Capacity and Capacity Utilization of Underground Coal Mines by State and Mining Method, 2013

(thousand short tons)

Coal-Producing State	Continuous ¹		Conventional and Other ²		Longwall ³		Total	
	Productive Capacity	Capacity Utilization Percent	Productive Capacity	Capacity Utilization Percent	Productive Capacity	Capacity Utilization Percent	Productive Capacity	Capacity Utilization Percent
Alabama	607	53.54	-	-	14,514	90.88	15,121	89.38
Arkansas	240	22.75	-	-	-	-	240	22.75
Colorado	930	79.03	-	-	23,614	79.11	24,544	79.11
Illinois	26,411	70.21	-	-	34,935	79.87	61,346	75.71
Indiana	18,822	89.37	-	-	-	-	18,822	89.37
Kentucky Total	60,303	83.11	5,238	83.74	-	-	65,540	83.16
Kentucky (East)	22,747	76.88	2,238	87.92	-	-	24,985	77.87
Kentucky (West)	37,556	86.88	3,000	80.63	-	-	40,556	86.42
Maryland	1,033	64.92	-	-	-	-	1,033	64.92
Montana	-	-	-	-	10,000	86.83	10,000	86.83
New Mexico	-	-	-	-	7,200	83.19	7,200	83.19
Ohio	5,312	72.23	-	-	16,700	81.38	22,012	79.17
Oklahoma	500	88.38	-	-	-	-	500	88.38
Pennsylvania Total	15,966	71.21	25	47.87	37,499	89.96	53,491	84.34
Pennsylvania (Anthracite)	135	40.96	25	47.87	-	-	160	42.03
Pennsylvania (Bituminous)	15,831	71.47	-	-	37,499	89.96	53,330	84.47
Tennessee	759	96.12	-	-	-	-	759	96.12
Utah	5,226	32.43	-	-	17,062	85.20	22,289	72.83
Virginia	8,498	85.91	-	-	4,784	100.00	13,282	90.99
West Virginia Total	45,962	76.21	-	-	49,074	88.97	95,036	82.80
West Virginia (Northern)	5,784	84.41	-	-	39,805	90.41	45,589	89.65
West Virginia (Southern)	40,178	75.03	-	-	9,269	82.79	49,447	76.48
Wyoming	-	-	-	-	4,700	94.52	4,700	94.52
U.S. Total	190,569	77.49	5,263	83.57	220,082	85.96	415,914	82.05

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

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.

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.

Source: U.S. Energy Information Administration Form EIA-7A, 'Coal Production and Preparation Report,' for productive capacity, and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mines Employment and Coal Production Report,' for annual production.

Recoverable Reserves

Table 14. Recoverable Coal Reserves and Average Recovery Percentage at Producing Mines by State, 2013 and 2012

(million short tons)

Coal-Producing State	2013		2012		Percent Change Recoverable Coal Reserves
	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	
Alabama	383	33.45	265	53.63	44.5
Alaska	54	85.00	56	85.00	-2.8
Arizona	224	90.00	232	90.00	-3.3
Arkansas	25	60.00	26	60.00	-1.1
Colorado	371	76.01	300	69.62	23.7
Illinois	2,552	61.44	2,215	58.06	15.2
Indiana	656	67.63	600	68.59	9.3
Kentucky Total	1,055	58.66	1,263	57.70	-16.5
Kentucky (East)	452	53.09	644	55.25	-29.8
Kentucky (West)	603	62.85	619	60.26	-2.6
Louisiana	115	90.38	115	90.38	-0.1
Maryland	21	71.02	34	74.89	-36.3
Mississippi	701	90.00	162	90.00	332.8
Missouri	1	100.00	s	100.00	34.2
Montana	851	90.15	960	85.97	-11.3
New Mexico	342	87.53	497	90.58	-31.3
North Dakota	1,087	90.42	1,128	90.38	-3.6
Ohio	401	60.02	235	68.57	71.0
Oklahoma	9	63.82	11	64.34	-12.7
Pennsylvania Total	577	62.79	554	62.80	4.1
Pennsylvania (Anthracite)	127	40.89	131	40.81	-2.6
Pennsylvania (Bituminous)	450	68.99	423	69.59	6.2
Tennessee	3	55.89	4	57.27	-36.7
Texas	704	93.50	751	93.45	-6.3
Utah	157	64.64	199	63.82	-21.1
Virginia	261	58.22	283	57.06	-7.9
West Virginia Total	1,714	57.31	1,842	57.27	-7.0
West Virginia (Northern)	473	59.43	480	59.99	-1.4
West Virginia (Southern)	1,241	56.50	1,362	56.31	-8.9
Wyoming	7,481	92.15	6,932	91.92	7.9
U.S. Total	19,746	78.51	18,664	77.99	5.8

s = Absolute percentage less than 0.05 or value is less than 0.5 of the table metric.

- = 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.

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

Table 15. Recoverable Coal Reserves at Producing Mines, Estimated Recoverable Reserves, and Demonstrated Reserve Base by Mining Method, 2013

(million short tons)

Coal-Resource State	Underground - Minable Coal			Surface - Minable Coal			Total		
	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	Estimated Recoverable Reserves	Demonstrated Reserve Base
Alabama	337	412	817	47	2,225	3,124	383	2,637	3,940
Alaska	-	2,335	5,423	54	485	670	54	2,820	6,092
Arizona	-	-	-	224	-	-	224	-	-
Arkansas	25	127	272	-	101	144	25	228	416
Colorado	244	5,788	11,029	127	3,743	4,758	371	9,531	15,787
Georgia	-	1	2	-	1	2	-	2	4
Idaho	-	2	4	-	-	-	-	2	4
Illinois	2,509	27,762	87,400	43	10,039	16,495	2,552	37,802	103,895
Indiana	306	3,530	8,522	350	302	516	656	3,832	9,039
Iowa	-	807	1,732	-	320	457	-	1,127	2,189
Kansas	-	-	-	-	680	971	-	680	971
Kentucky Total	870	6,895	16,021	185	7,247	12,551	1,055	14,143	28,571
Kentucky (East)	338	338	605	115	5,016	8,983	452	5,354	9,588
Kentucky (West)	532	6,557	15,416	70	2,231	3,567	603	8,788	18,983
Louisiana	-	-	-	115	285	385	115	285	385
Maryland	15	308	562	7	32	47	21	340	609
Michigan	-	55	123	-	3	5	-	58	128
Mississippi	-	-	-	701	-	-	701	-	-
Missouri	-	689	1,479	1	3,155	4,506	1	3,844	5,985
Montana	252	35,897	70,907	599	38,704	47,885	851	74,600	118,792
New Mexico	25	2,758	6,061	316	4,060	5,799	342	6,818	11,860
North Carolina	-	5	11	-	-	-	-	5	11
North Dakota	-	-	-	1,087	6,685	8,763	1,087	6,685	8,763
Ohio	348	7,598	17,271	53	3,711	5,669	401	11,309	22,940
Oklahoma	8	570	1,224	1	220	314	9	790	1,539
Oregon	-	6	15	-	2	3	-	9	17
Pennsylvania Total	394	10,289	22,432	183	979	4,144	577	11,267	26,576
Pennsylvania (Anthracite)	2	340	3,841	125	418	3,339	127	758	7,180
Pennsylvania (Bituminous)	392	9,949	18,591	58	561	805	450	10,510	19,396
South Dakota	-	-	-	-	277	366	-	277	366
Tennessee	2	273	498	1	171	252	3	444	751
Texas	-	-	-	704	9,211	11,966	704	9,211	11,966
Utah	154	2,349	4,792	3	210	266	157	2,560	5,058
Virginia	203	503	896	57	309	482	261	812	1,378
Washington	-	674	1,332	-	6	8	-	681	1,340
West Virginia Total	1,227	14,865	27,852	486	2,037	3,228	1,714	16,902	31,081
West Virginia (Northern)	462	NA	NA	11	NA	NA	473	NA	NA
West Virginia (Southern)	765	NA	NA	475	NA	NA	1,241	NA	NA
Wyoming	38	22,922	42,447	7,443	14,090	17,015	7,481	37,011	59,463
U.S. Total	6,959	147,420	329,125	12,787	109,289	150,789	19,746	256,709	479,914

- = 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, 2014.' 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, 2013. 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.

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

Table 16. Recoverable Coal Reserves and Average Recovery Percentage at Producing Underground Coal Mines by State and Mining Method, 2013

(million short tons)

Coal-Producing State	Continuous ¹		Conventional and Other ²		Longwall ³		Total	
	Recoverable Coal Reserves at Producing Mines	Average Recovery Percentage	Recoverable Coal Reserves at Producing Mines	Average Recovery Percentage	Recoverable Coal Reserves at Producing Mines	Average Recovery Percentage	Recoverable Coal Reserves at Producing Mines	Average Recovery Percentage
Alabama	10	46.92	-	-	326	26.29	337	26.92
Arkansas	25	60.00	-	-	-	-	25	60.00
Colorado	6	60.00	-	-	238	70.79	244	70.53
Illinois	689	56.78	-	-	1,821	62.79	2,509	61.14
Indiana	306	57.09	-	-	-	-	306	57.09
Kentucky Total	791	52.68	79	59.30	-	-	870	53.28
Kentucky (East)	324	43.68	14	46.72	-	-	338	43.81
Kentucky (West)	468	58.92	65	62.00	-	-	532	59.29
Maryland	15	59.92	-	-	-	-	15	59.92
Montana	-	-	-	-	252	80.00	252	80.00
New Mexico	-	-	-	-	25	48.00	25	48.00
Ohio	227	51.97	-	-	121	65.51	348	56.69
Oklahoma	8	60.00	-	-	-	-	8	60.00
Pennsylvania Total	174	57.45	1	60.00	219	72.94	394	66.07
Pennsylvania (Anthracite)	1	65.56	1	60.00	-	-	2	63.30
Pennsylvania (Bituminous)	173	57.38	-	-	219	72.94	392	66.08
Tennessee	2	49.73	-	-	-	-	2	49.73
Utah	46	85.99	-	-	109	54.90	154	64.10
Virginia	156	49.72	-	-	47	60.00	203	52.11
West Virginia Total	664	44.01	-	-	563	57.59	1,227	50.25
West Virginia (Northern)	64	46.62	-	-	398	61.03	462	59.03
West Virginia (Southern)	600	43.74	-	-	165	49.30	765	44.94
Wyoming	-	-	-	-	38	55.00	38	55.00
U.S. Total	3,119	52.83	80	59.31	3,760	60.74	6,959	57.18

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

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.

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.

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

Table 17. Recoverable Coal Reserves and Average Recovery Percentage at Producing U.S. Mines by Mine Production Range and Mine Type, 2013

(million short tons)

Mine Production Range (thousand short tons)	Underground		Surface		Total	
	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage
Over 1,000	5,140	59.02	11,254	91.41	16,394	81.26
Over 500 to 1,000	779	49.34	149	81.69	928	54.53
Over 200 to 500	507	52.24	1,004	80.38	1,511	70.93
Over 100 to 200	357	58.34	144	75.48	501	63.27
Over 50 to 100	103	48.64	52	79.24	156	58.93
Over 10 to 50	72	52.16	184	84.90	256	75.66
10 or Under	s	100.00	s	100.00	s	100.00
U.S. Total	6,959	57.18	12,787	90.11	19,746	78.51

s = Absolute percentage less than 0.05 or value is less than 0.5 of the table metric.

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.

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

Employment

Table 18. Average Number of Employees by State and Mine Type, 2013 and 2012

Coal-Producing State and Region ¹	2013			2012			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	3,077	1,135	4,212	3,190	1,851	5,041	-3.5	-38.7	-16.4
Alaska	-	125	125	-	143	143	-	-12.6	-12.6
Arizona	-	405	405	-	432	432	-	-6.3	-6.3
Arkansas	52	2	54	70	3	73	-25.7	-33.3	-26.0
Colorado	1,705	470	2,175	2,032	473	2,505	-16.1	-0.6	-13.2
Illinois	3,660	504	4,164	3,938	574	4,512	-7.1	-12.2	-7.7
Indiana	1,986	1,626	3,612	2,054	1,881	3,935	-3.3	-13.6	-8.2
Kansas	-	7	7	-	6	6	-	16.7	16.7
Kentucky Total	8,938	3,967	12,905	11,181	5,170	16,351	-20.1	-23.3	-21.1
Kentucky (East)	5,144	3,470	8,614	7,335	4,512	11,847	-29.9	-23.1	-27.3
Kentucky (West)	3,794	497	4,291	3,846	658	4,504	-1.4	-24.5	-4.7
Louisiana	-	280	280	-	270	270	-	3.7	3.7
Maryland	184	221	405	213	263	476	-13.6	-16.0	-14.9
Mississippi	-	309	309	-	211	211	-	46.4	46.4
Missouri	-	24	24	-	32	32	-	-25.0	-25.0
Montana	333	914	1,247	320	913	1,233	4.1	0.1	1.1
New Mexico	492	794	1,286	435	856	1,291	13.1	-7.2	-0.4
North Dakota	-	1,242	1,242	-	1,228	1,228	-	1.1	1.1
Ohio	2,063	1,080	3,143	1,969	1,222	3,191	4.8	-11.6	-1.5
Oklahoma	79	125	204	55	144	199	43.6	-13.2	2.5
Pennsylvania Total	5,988	2,394	8,382	6,120	2,807	8,927	-2.2	-14.7	-6.1
Pennsylvania (Anthracite)	129	966	1,095	128	1,018	1,146	0.8	-5.1	-4.5
Pennsylvania (Bituminous)	5,859	1,428	7,287	5,992	1,789	7,781	-2.2	-20.2	-6.3
Tennessee	162	135	297	175	188	363	-7.4	-28.2	-18.2
Texas	-	2,819	2,819	-	2,918	2,918	-	-3.4	-3.4
Utah	1,385	52	1,437	1,576	35	1,611	-12.1	48.6	-10.8
Virginia	3,428	1,093	4,521	3,763	1,235	4,998	-8.9	-11.5	-9.5
West Virginia Total	15,694	4,587	20,281	17,085	5,701	22,786	-8.1	-19.5	-11.0
West Virginia (Northern)	5,575	196	5,771	5,590	301	5,891	-0.3	-34.9	-2.0
West Virginia (Southern)	10,119	4,391	14,510	11,495	5,400	16,895	-12.0	-18.7	-14.1
Wyoming	278	6,395	6,673	250	6,754	7,004	11.2	-5.3	-4.7
Appalachia Total	35,740	14,115	49,855	39,850	17,779	57,629	-10.3	-20.6	-13.5
Appalachia Central	18,853	9,089	27,942	22,768	11,335	34,103	-17.2	-19.8	-18.1
Appalachia Northern	13,810	3,891	17,701	13,892	4,593	18,485	-0.6	-15.3	-4.2
Appalachia Southern	3,077	1,135	4,212	3,190	1,851	5,041	-3.5	-38.7	-16.4
Interior Region Total	9,571	6,193	15,764	9,963	6,697	16,660	-3.9	-7.5	-5.4
Illinois Basin	9,440	2,627	12,067	9,838	3,113	12,951	-4.0	-15.6	-6.8
Other Interior	131	3,566	3,697	125	3,584	3,709	4.8	-0.5	-0.3
Western Region Total	4,193	10,397	14,590	4,613	10,834	15,447	-9.1	-4.0	-5.5
Powder River Basin	-	6,635	6,635	-	6,983	6,983	-	-5.0	-5.0
Uinta Basin	2,968	468	3,436	3,315	456	3,771	-10.5	2.6	-8.9
Other Western	1,225	3,294	4,519	1,298	3,395	4,693	-5.6	-3.0	-3.7
East of Mississippi River	45,180	17,051	62,231	49,688	21,103	70,791	-9.1	-19.2	-12.1
West of Mississippi River	4,324	13,654	17,978	4,738	14,207	18,945	-8.7	-3.9	-5.1
U.S. Subtotal	49,504	30,705	80,209	54,426	35,310	89,736	-9.0	-13.0	-10.6
Refuse Recovery	-	-	187	-	-	102	-	-	83.3
U.S. Total	49,504	30,705	80,396	54,426	35,310	89,838	-9.0	-13.0	-10.5

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

- = No data reported.

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."

Table 19. Average Number of Employees at Underground and Surface Mines by State and Mine Production Range, 2013

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)							Zero ²	Total Number of Employees
	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		
Alabama	2,838	82	630	357	148	25	6	100	4,212
Underground	2,833	-	-	104	37	-	-	82	3,077
Surface	5	82	630	253	111	25	6	18	1,135
Alaska	125	-	-	-	-	-	-	-	125
Surface	125	-	-	-	-	-	-	-	125
Arizona	405	-	-	-	-	-	-	-	405
Surface	405	-	-	-	-	-	-	-	405
Arkansas	-	-	-	-	52	-	2	-	54
Underground	-	-	-	-	52	-	-	-	52
Surface	-	-	-	-	-	-	2	-	2
Colorado	1,747	104	306	-	-	-	-	18	2,175
Underground	1,321	104	262	-	-	-	-	18	1,705
Surface	426	-	44	-	-	-	-	-	470
Illinois	3,436	366	66	142	-	13	-	141	4,164
Underground	3,166	251	45	122	-	-	-	76	3,660
Surface	270	115	21	20	-	13	-	65	504
Indiana	2,884	379	61	61	-	79	-	74	3,612
Underground	1,696	107	-	12	-	72	-	40	1,986
Surface	1,188	272	61	49	-	7	-	34	1,626
Kansas	-	-	-	-	-	7	-	-	7
Surface	-	-	-	-	-	7	-	-	7
Kentucky Total	4,227	1,325	2,936	1,140	808	521	336	1,558	12,905
Underground	3,771	977	1,949	478	446	123	135	1,014	8,938
Surface	456	348	987	662	362	398	201	544	3,967
Kentucky (East)	598	1,090	2,891	1,121	808	496	332	1,224	8,614
Underground	402	805	1,949	478	446	123	135	761	5,144
Surface	196	285	942	643	362	373	197	463	3,470
Kentucky (West)	3,629	235	45	19	-	25	4	334	4,291
Underground	3,369	172	-	-	-	-	-	253	3,794
Surface	260	63	45	19	-	25	4	81	497
Louisiana	262	-	-	-	18	-	-	-	280
Surface	262	-	-	-	18	-	-	-	280
Maryland	-	-	220	32	72	19	23	39	405
Underground	-	-	113	32	-	-	-	39	184
Surface	-	-	107	-	72	19	23	-	221
Mississippi	217	-	92	-	-	-	-	-	309
Surface	217	-	92	-	-	-	-	-	309
Missouri	-	-	24	-	-	-	-	-	24
Surface	-	-	24	-	-	-	-	-	24
Montana	1,233	-	14	-	-	-	-	-	1,247
Underground	333	-	-	-	-	-	-	-	333
Surface	900	-	14	-	-	-	-	-	914
New Mexico	1,260	-	-	-	-	26	-	-	1,286
Underground	492	-	-	-	-	-	-	-	492
Surface	768	-	-	-	-	26	-	-	794
North Dakota	1,237	-	-	-	-	-	-	5	1,242
Surface	1,237	-	-	-	-	-	-	5	1,242
Ohio	1,624	888	324	96	37	26	14	134	3,143
Underground	1,493	345	178	-	-	-	-	47	2,063
Surface	131	543	146	96	37	26	14	87	1,080
Oklahoma	-	-	156	25	-	16	7	-	204
Underground	-	-	73	-	-	-	6	-	79
Surface	-	-	83	25	-	16	1	-	125
Pennsylvania Total	3,927	454	1,305	656	444	553	228	688	8,382
Underground	3,927	454	966	68	107	132	37	226	5,988
Surface	-	-	339	588	337	421	191	462	2,394
Pennsylvania (Anthracite)	-	-	89	85	168	216	109	388	1,095
Underground	-	-	-	-	-	53	34	39	129
Surface	-	-	89	85	168	163	75	349	966

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)							Zero ²	Total Number of Employees
	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		
Pennsylvania (Bituminous)	3,927	454	1,216	571	276	337	119	300	7,287
Underground	3,927	454	966	68	107	79	3	187	5,859
Surface	-	-	250	503	169	258	116	113	1,428
Tennessee	-	91	-	34	19	114	6	33	297
Underground	-	91	-	-	-	44	6	21	162
Surface	-	-	-	34	19	70	-	12	135
Texas	2,819	-	-	-	-	-	-	-	2,819
Surface	2,819	-	-	-	-	-	-	-	2,819
Utah	1,116	189	27	-	-	-	4	91	1,437
Underground	1,116	162	27	-	-	-	4	76	1,385
Surface	-	27	-	-	-	-	-	15	52
Virginia	596	703	1,337	456	395	442	96	443	4,521
Underground	596	630	926	311	210	346	25	339	3,428
Surface	-	73	411	145	185	96	71	104	1,093
West Virginia Total	9,276	2,927	3,906	944	569	521	178	1,886	20,281
Underground	7,218	2,541	2,841	728	534	336	95	1,341	15,694
Surface	2,058	386	1,065	216	35	185	83	545	4,587
West Virginia (Northern)	4,639	602	239	8	56	32	16	165	5,771
Underground	4,550	602	239	-	38	-	7	139	5,575
Surface	89	-	-	8	18	32	9	26	196
West Virginia (Southern)	4,637	2,325	3,667	936	513	489	162	1,721	14,510
Underground	2,668	1,939	2,602	728	496	336	88	1,202	10,119
Surface	1,969	386	1,065	208	17	153	74	519	4,391
Wyoming	6,488	182	-	-	-	3	-	-	6,673
Underground	278	-	-	-	-	-	-	-	278
Surface	6,210	182	-	-	-	3	-	-	6,395
Appalachia Total	18,859	6,235	10,613	3,696	2,492	2,196	883	4,547	49,855
Underground	16,469	4,866	6,973	1,721	1,334	981	298	2,856	35,740
Surface	2,390	1,369	3,640	1,975	1,158	1,215	585	1,691	14,115
Appalachia Central	5,831	4,209	7,895	2,547	1,735	1,541	596	3,421	27,942
Underground	3,666	3,465	5,477	1,517	1,152	849	254	2,323	18,853
Surface	2,165	744	2,418	1,030	583	692	342	1,098	9,089
Appalachia Northern	10,190	1,944	2,088	792	609	630	281	1,026	17,701
Underground	9,970	1,401	1,496	100	145	132	44	451	13,810
Surface	220	543	592	692	464	498	237	575	3,891
Appalachia Southern	2,838	82	630	357	148	25	6	100	4,212
Underground	2,833	-	-	104	37	-	-	82	3,077
Surface	5	82	630	253	111	25	6	18	1,135
Interior Region Total	13,247	980	444	247	70	140	13	549	15,764
Underground	8,231	530	118	134	52	72	6	369	9,571
Surface	5,016	450	326	113	18	68	7	180	6,193
Illinois Basin	9,949	980	172	222	-	117	4	549	12,067
Underground	8,231	530	45	134	-	72	-	369	9,440
Surface	1,718	450	127	88	-	45	4	180	2,627
Other Interior	3,298	-	272	25	70	23	9	-	3,697
Underground	-	-	73	-	52	-	6	-	131
Surface	3,298	-	199	25	18	23	3	-	3,566
Western Region Total	13,611	475	347	-	-	29	4	114	14,590
Underground	3,540	266	289	-	-	-	4	94	4,193
Surface	10,071	209	58	-	-	29	-	20	10,397
Powder River Basin	6,635	-	-	-	-	-	-	-	6,635
Surface	6,635	-	-	-	-	-	-	-	6,635
Uinta Basin	2,863	162	306	-	-	-	4	91	3,436
Underground	2,437	162	289	-	-	-	4	76	2,968
Surface	426	-	17	-	-	-	-	15	468
Other Western	4,113	313	41	-	-	29	-	23	4,519
Underground	1,103	104	-	-	-	-	-	18	1,225
Surface	3,010	209	41	-	-	29	-	5	3,294
East of Mississippi River	29,025	7,215	10,877	3,918	2,492	2,313	887	5,096	62,231
Underground	24,700	5,396	7,018	1,855	1,334	1,053	298	3,225	45,180
Surface	4,325	1,819	3,859	2,063	1,158	1,260	589	1,871	17,051
West of Mississippi River	16,692	475	527	25	70	52	13	114	17,978
Underground	3,540	266	362	-	52	-	10	94	4,324

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)							Zero ²	Total Number of Employees
	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		
Surface	13,152	209	165	25	18	52	3	20	13,654
U.S. Subtotal	45,717	7,690	11,404	3,943	2,562	2,365	900	5,210	80,209
Underground	28,240	5,662	7,380	1,855	1,386	1,053	308	3,319	49,504
Surface	17,477	2,028	4,024	2,088	1,176	1,312	592	1,891	30,705
Refuse Recovery	-	7	67	-	36	44	33	-	187
U.S. Total	45,717	7,697	11,471	3,943	2,598	2,409	933	5,210	80,396

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

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

- = No data reported.

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.'¹

Table 20. Average Number of Employees at Underground and Surface Mines by State and Union Status, 2013

Coal-Producing State and Region ¹	Union		Nonunion	
	Underground	Surface	Underground	Surface
Alabama	2,892	143	164	981
Alaska	-	125	-	-
Arizona	-	405	-	-
Arkansas	-	-	52	-
Colorado	164	210	1,541	260
Illinois	207	43	3,453	473
Indiana	-	-	1,912	1,611
Kentucky Total	494	24	8,238	3,565
Kentucky (East)	24	24	4,914	3,083
Kentucky (West)	470	-	3,324	482
Louisiana	-	-	-	280
Maryland	-	-	184	197
Mississippi	-	-	-	309
Missouri	-	-	-	24
Montana	-	647	333	267
New Mexico	492	416	-	378
North Dakota	-	291	-	951
Ohio	651	-	1,412	1,066
Oklahoma	-	-	73	118
Pennsylvania Total	1,803	336	4,065	1,798
Pennsylvania (Anthracite)	-	273	92	597
Pennsylvania (Bituminous)	1,803	63	3,973	1,201
Tennessee	-	-	156	114
Texas	-	1,754	-	1,065
Utah	302	-	1,079	42
Virginia	357	-	2,900	1,008
West Virginia Total	4,506	778	11,022	3,616
West Virginia (Northern)	3,436	-	2,132	157
West Virginia (Southern)	1,070	778	8,890	3,459
Wyoming	278	471	-	5,924
Appalachia Total	10,233	1,281	24,817	11,863
Appalachia Central	1,451	802	16,860	7,664
Appalachia Northern	5,890	336	7,793	3,218
Appalachia Southern	2,892	143	164	981
Interior Region Total	677	1,797	8,814	4,362
Illinois Basin	677	43	8,689	2,566
Other Interior	-	1,754	125	1,796
Western Region Total	1,236	2,565	2,953	7,822
Powder River Basin	-	633	-	6,002
Uinta Basin	466	183	2,498	275
Other Western	770	1,749	455	1,545
East of Mississippi River	10,910	1,324	33,506	14,738
West of Mississippi River	1,236	4,319	3,078	9,309
U.S. Total	12,146	5,643	36,584	24,047

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

- = No data reported.

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.

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

Productivity

Table 21. Coal Productivity by State and Mine Type, 2013 and 2012

Coal-Producing State, Region ¹ and Mine Type	Number of Mining Operations ²			Number of Employees ³			Average Production per Employee Hour (short tons) ⁴		
	2013	2012	Percent Change	2013	2012	Percent Change	2013	2012	Percent Change
Alabama	47	54	-13.0	4,212	5,041	-16.4	1.90	1.68	13.4
Underground	13	11	18.2	3,077	3,190	-3.5	1.85	1.64	13.1
Surface	34	43	-20.9	1,135	1,851	-38.7	2.04	1.75	16.4
Alaska	1	1	-	125	143	-12.6	5.70	5.98	-4.6
Surface	1	1	-	125	143	-12.6	5.70	5.98	-4.6
Arizona	1	1	-	405	432	-6.3	7.49	7.38	1.5
Surface	1	1	-	405	432	-6.3	7.49	7.38	1.5
Arkansas	2	2	-	54	73	-26.0	0.49	0.58	-15.5
Underground	1	1	-	52	70	-25.7	0.47	0.59	-20.3
Surface	1	1	-	2	3	-33.3	1.42	0.37	282.8
Colorado	11	14	-21.4	2,175	2,505	-13.2	5.49	5.79	-5.1
Underground	7	11	-36.4	1,705	2,032	-16.1	5.56	5.93	-6.1
Surface	4	3	33.3	470	473	-0.6	5.23	5.21	0.4
Illinois	33	34	-2.9	4,164	4,512	-7.7	5.51	4.76	15.6
Underground	20	21	-4.8	3,660	3,938	-7.1	5.59	4.83	15.7
Surface	13	13	-	504	574	-12.2	4.93	4.31	14.6
Indiana	36	39	-7.7	3,612	3,935	-8.2	4.43	4.19	5.6
Underground	12	13	-7.7	1,986	2,054	-3.3	3.48	3.23	7.8
Surface	24	26	-7.7	1,626	1,881	-13.6	5.58	5.37	3.9
Kansas	1	1	-	7	6	16.7	1.58	0.99	59.1
Surface	1	1	-	7	6	16.7	1.58	0.99	59.1
Kentucky Total	370	484	-23.6	12,905	16,351	-21.1	2.76	2.56	8.2
Underground	151	213	-29.1	8,938	11,181	-20.1	2.66	2.37	12.4
Surface	219	271	-19.2	3,967	5,170	-23.3	3.01	2.97	1.3
Kentucky (East)	333	443	-24.8	8,614	11,847	-27.3	2.14	1.99	7.5
Underground	131	192	-31.8	5,144	7,335	-29.9	1.78	1.61	10.7
Surface	202	251	-19.5	3,470	4,512	-23.1	2.66	2.58	3.0
Kentucky (West)	37	41	-9.8	4,291	4,504	-4.7	3.86	3.82	1.1
Underground	20	21	-4.8	3,794	3,846	-1.4	3.68	3.55	3.5
Surface	17	20	-15.0	497	658	-24.5	5.46	5.59	-2.2
Louisiana	2	2	-	280	270	3.7	4.56	6.86	-33.5
Surface	2	2	-	280	270	3.7	4.56	6.86	-33.5
Maryland	22	23	-4.3	405	476	-14.9	2.33	2.28	2.2
Underground	4	4	-	184	213	-13.6	1.86	1.80	3.1
Surface	18	19	-5.3	221	263	-16.0	2.69	2.66	1.4
Mississippi	2	1	100.0	309	211	46.4	5.57	6.73	-17.2
Surface	2	1	100.0	309	211	46.4	5.57	6.73	-17.2
Missouri	1	2	-50.0	24	32	-25.0	6.57	6.73	-2.5
Surface	1	2	-50.0	24	32	-25.0	6.57	6.73	-2.5
Montana	6	6	-	1,247	1,233	1.1	16.70	14.46	15.5
Underground	1	1	-	333	320	4.1	11.83	7.47	58.3
Surface	5	5	-	914	913	0.1	18.69	17.47	7.0
New Mexico	4	4	-	1,286	1,291	-0.4	8.16	8.14	0.3
Underground	1	1	-	492	435	13.1	5.89	5.19	13.4
Surface	3	3	-	794	856	-7.2	9.54	9.70	-1.7
North Dakota	5	4	25.0	1,242	1,228	1.1	11.34	11.57	-2.0
Surface	5	4	25.0	1,242	1,228	1.1	11.34	11.57	-2.0
Ohio	40	51	-21.6	3,143	3,191	-1.5	3.48	3.69	-5.5
Underground	14	14	-	2,063	1,969	4.8	3.66	4.01	-8.7
Surface	26	37	-29.7	1,080	1,222	-11.6	3.14	3.13	0.2
Oklahoma	9	7	28.6	204	199	2.5	2.05	2.21	-7.5
Underground	2	1	100.0	79	55	43.6	2.11	2.37	-11.1
Surface	7	6	16.7	125	144	-13.2	2.01	2.14	-6.1
Pennsylvania Total	315	328	-4.0	8,382	8,927	-6.1	3.01	2.81	7.1
Underground	82	81	1.2	5,988	6,120	-2.2	3.39	3.22	5.2
Surface	233	247	-5.7	2,394	2,807	-14.7	1.91	1.75	8.6
Pennsylvania (Anthracite)	107	113	-5.3	1,095	1,146	-4.5	1.01	1.02	-0.7
Underground	22	23	-4.3	129	128	0.8	0.48	0.50	-5.3
Surface	85	90	-5.6	966	1,018	-5.1	1.07	1.08	-0.8

Coal-Producing State, Region ¹ and Mine Type	Number of Mining Operations ²			Number of Employees ³			Average Production per Employee Hour (short tons) ⁴		
	2013	2012	Percent Change	2013	2012	Percent Change	2013	2012	Percent Change
Pennsylvania (Bituminous)	208	215	-3.3	7,287	7,781	-6.3	3.26	3.04	7.1
Underground	60	58	3.4	5,859	5,992	-2.2	3.43	3.27	5.0
Surface	148	157	-5.7	1,428	1,789	-20.2	2.45	2.16	13.8
Tennessee	14	20	-30.0	297	363	-18.2	1.88	1.58	18.9
Underground	5	7	-28.6	162	175	-7.4	2.06	1.63	26.0
Surface	9	13	-30.8	135	188	-28.2	1.60	1.53	4.9
Texas	11	12	-8.3	2,819	2,918	-3.4	7.08	6.93	2.1
Surface	11	12	-8.3	2,819	2,918	-3.4	7.08	6.93	2.1
Utah	17	16	6.3	1,437	1,611	-10.8	5.69	5.08	12.0
Underground	14	14	-	1,385	1,576	-12.1	5.70	5.04	13.1
Surface	3	2	50.0	52	35	48.6	5.43	6.54	-17.0
Virginia	118	137	-13.9	4,521	4,998	-9.5	1.76	1.74	1.1
Underground	68	79	-13.9	3,428	3,763	-8.9	1.64	1.51	8.9
Surface	50	58	-13.8	1,093	1,235	-11.5	2.18	2.44	-10.7
West Virginia Total	325	388	-16.2	20,281	22,786	-11.0	2.44	2.38	2.6
Underground	188	227	-17.2	15,694	17,085	-8.1	2.24	2.15	4.3
Surface	137	161	-14.9	4,587	5,701	-19.5	3.08	3.04	1.5
West Virginia (Northern)	46	52	-11.5	5,771	5,891	-2.0	3.31	3.17	4.2
Underground	27	31	-12.9	5,575	5,590	-0.3	3.29	3.17	3.7
Surface	19	21	-9.5	196	301	-34.9	3.90	3.22	21.1
West Virginia (Southern)	279	336	-17.0	14,510	16,895	-14.1	2.11	2.10	0.3
Underground	161	196	-17.9	10,119	11,495	-12.0	1.67	1.64	1.7
Surface	118	140	-15.7	4,391	5,400	-18.7	3.05	3.03	0.8
Wyoming	17	19	-10.5	6,673	7,004	-4.7	28.21	27.74	1.7
Underground	1	1	-	278	250	11.2	6.72	7.81	-13.9
Surface	16	18	-11.1	6,395	6,754	-5.3	29.29	28.59	2.5
Appalachia Total	1,214	1,444	-15.9	49,855	57,629	-13.5	2.44	2.32	5.2
Underground	505	615	-17.9	35,740	39,850	-10.3	2.36	2.22	6.6
Surface	709	829	-14.5	14,115	17,779	-20.6	2.65	2.56	3.6
Appalachia Central	744	936	-20.5	27,942	34,103	-18.1	2.06	2.01	2.8
Underground	365	474	-23.0	18,853	22,768	-17.2	1.70	1.61	5.5
Surface	379	462	-18.0	9,089	11,335	-19.8	2.80	2.77	1.1
Appalachia Northern	423	454	-6.8	17,701	18,485	-4.2	3.18	3.07	3.7
Underground	127	130	-2.3	13,810	13,892	-0.6	3.37	3.30	2.4
Surface	296	324	-8.6	3,891	4,593	-15.3	2.43	2.30	5.9
Appalachia Southern	47	54	-13.0	4,212	5,041	-16.4	1.90	1.68	13.4
Underground	13	11	18.2	3,077	3,190	-3.5	1.85	1.64	13.1
Surface	34	43	-20.9	1,135	1,851	-38.7	2.04	1.75	16.4
Interior Region Total	134	141	-5.0	15,764	16,660	-5.4	4.95	4.73	4.8
Underground	55	57	-3.5	9,571	9,963	-3.9	4.29	3.94	9.0
Surface	79	84	-6.0	6,193	6,697	-7.5	6.03	6.01	0.4
Illinois Basin	106	114	-7.0	12,067	12,951	-6.8	4.57	4.25	7.7
Underground	52	55	-5.5	9,440	9,838	-4.0	4.33	3.97	9.1
Surface	54	59	-8.5	2,627	3,113	-15.6	5.44	5.20	4.5
Other Interior	28	27	3.7	3,697	3,709	-0.3	6.31	6.50	-2.9
Underground	3	2	50.0	131	125	4.8	1.52	1.43	6.3
Surface	25	25	-	3,566	3,584	-0.5	6.51	6.70	-2.8
Western Region Total	62	65	-4.6	14,590	15,447	-5.5	17.61	17.09	3.1
Underground	24	28	-14.3	4,193	4,613	-9.1	6.26	5.79	8.1
Surface	38	37	2.7	10,397	10,834	-4.0	22.26	21.95	1.4
Powder River Basin	16	17	-5.9	6,635	6,983	-5.0	30.05	29.35	2.4
Surface	16	17	-5.9	6,635	6,983	-5.0	30.05	29.35	2.4
Uinta Basin	24	24	-	3,436	3,771	-8.9	5.66	5.67	-0.1
Underground	19	21	-9.5	2,968	3,315	-10.5	5.76	5.75	0.1
Surface	5	3	66.7	468	456	2.6	5.00	5.01	-0.2
Other Western	22	24	-8.3	4,519	4,693	-3.7	8.70	8.22	5.7
Underground	5	7	-28.6	1,225	1,298	-5.6	7.39	5.89	25.4
Surface	17	17	-	3,294	3,395	-3.0	9.21	9.13	0.9
East of Mississippi River	1,322	1,559	-15.2	62,231	70,791	-12.1	2.89	2.70	7.2
Underground	557	670	-16.9	45,180	49,688	-9.1	2.80	2.58	8.3
Surface	765	889	-13.9	17,051	21,103	-19.2	3.16	2.99	5.7
West of Mississippi River	88	91	-3.3	17,978	18,945	-5.1	15.39	15.03	2.4
Underground	27	30	-10.0	4,324	4,738	-8.7	6.09	5.65	7.7

Coal-Producing State, Region ¹ and Mine Type	Number of Mining Operations ²			Number of Employees ³			Average Production per Employee Hour (short tons) ⁴		
	2013	2012	Percent Change	2013	2012	Percent Change	2013	2012	Percent Change
Surface	61	61	-	13,654	14,207	-3.9	18.35	18.15	1.1
U.S. Subtotal	1,410	1,650	-14.5	80,209	89,736	-10.6	5.53	5.19	6.7
Underground	584	700	-16.6	49,504	54,426	-9.0	3.07	2.84	8.1
Surface	826	950	-13.1	30,705	35,310	-13.0	9.69	8.97	8.1
Refuse Recovery	51	45	13.3	187	102	83.3	5.94	6.97	-14.8
U.S. Total	1,461	1,695	-13.8	80,396	89,838	-10.5	5.54	5.19	6.7

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

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.

- = No data reported.

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

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

Table 22. Underground Coal Mining Productivity by State and Mining Method, 2013

(short tons produced per employee hour)

Coal-Producing State, Region ¹ and Mine Type	Continuous ²	Conventional and Other ³	Longwall ⁴	Total
Alabama	0.83	-	1.91	1.85
Arkansas	0.47	-	-	0.47
Colorado	2.90	-	5.77	5.56
Illinois	4.04	-	7.57	5.61
Indiana	3.50	-	-	3.50
Kentucky Total	2.70	2.68	-	2.68
Kentucky (East)	1.77	2.09	-	1.79
Kentucky (West)	3.75	3.47	-	3.68
Maryland	1.86	-	-	1.86
Montana	-	-	11.83	11.83
New Mexico	-	-	5.89	5.89
Ohio	2.29	-	4.46	3.66
Oklahoma	2.22	-	-	2.22
Pennsylvania Total	2.37	0.72	3.98	3.40
Pennsylvania (Anthracite)	0.38	0.72	-	0.42
Pennsylvania (Bituminous)	2.44	-	3.98	3.43
Tennessee	2.11	-	-	2.11
Utah	3.89	-	6.05	5.72
Virginia	1.25	-	3.37	1.66
West Virginia Total	1.68	-	3.12	2.25
West Virginia (Northern)	2.18	-	3.57	3.31
West Virginia (Southern)	1.62	-	1.96	1.67
Wyoming	-	-	6.72	6.72
Appalachia Total	1.74	2.07	3.22	2.37
Appalachia Central	1.61	2.09	2.34	1.71
Appalachia Northern	2.29	0.72	3.86	3.39
Appalachia Southern	0.83	-	1.91	1.85
Interior Region Total	3.72	3.47	7.57	4.31
Illinois Basin	3.76	3.47	7.57	4.35
Other Interior	1.57	-	-	1.57
Western Region Total	3.53	-	6.50	6.26
Uinta Basin	3.89	-	5.91	5.77
Other Western	2.90	-	7.86	7.39
East of Mississippi River	2.33	2.66	3.65	2.81
West of Mississippi River	2.91	-	6.50	6.10
U.S. Total	2.34	2.66	4.15	3.08

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

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.

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.

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

Table 23. Coal Mining Productivity by State, Mine Type, and Mine Production Range, 2013

(short tons produced per employee hour)

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)							Total ²
	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	
Alabama	1.96	2.50	2.00	1.83	1.72	2.24	4.27	1.90
Underground	1.96	-	-	1.00	0.90	-	-	1.85
Surface	-	2.50	2.00	2.20	2.00	2.24	4.27	2.04
Alaska	5.70	-	-	-	-	-	-	5.70
Surface	5.70	-	-	-	-	-	-	5.70
Arizona	7.49	-	-	-	-	-	-	7.49
Surface	7.49	-	-	-	-	-	-	7.49
Arkansas	-	-	-	-	0.47	-	1.42	0.49
Underground	-	-	-	-	0.47	-	-	0.47
Surface	-	-	-	-	-	-	1.42	1.42
Colorado	6.18	3.05	2.01	-	-	-	-	5.49
Underground	6.51	3.05	1.06	-	-	-	-	5.56
Surface	5.09	-	6.53	-	-	-	-	5.23
Illinois	5.97	4.37	7.29	1.11	-	2.46	-	5.51
Underground	6.06	3.06	7.47	0.72	-	-	-	5.59
Surface	5.04	7.06	7.04	3.01	-	2.46	-	4.93
Indiana	4.59	4.80	8.09	2.91	-	0.52	-	4.43
Underground	3.80	2.50	-	-	-	0.36	-	3.48
Surface	5.76	5.57	8.09	3.64	-	2.49	-	5.58
Kansas	-	-	-	-	-	1.58	-	1.58
Surface	-	-	-	-	-	1.58	-	1.58
Kentucky Total	4.07	3.10	2.54	2.49	1.98	1.72	1.02	2.76
Underground	3.83	2.76	1.98	2.03	1.64	1.20	0.62	2.66
Surface	6.20	4.00	3.51	2.80	2.35	1.89	1.24	3.01
Kentucky (East)	3.59	2.86	2.49	2.47	1.98	1.67	0.95	2.14
Underground	2.61	2.67	1.98	2.03	1.64	1.20	0.62	1.78
Surface	5.68	3.34	3.40	2.77	2.35	1.83	1.14	2.66
Kentucky (West)	4.14	4.31	6.25	3.76	-	2.78	14.48	3.86
Underground	3.97	3.21	-	-	-	-	-	3.68
Surface	6.58	8.33	6.25	3.76	-	2.78	14.48	5.46
Louisiana	4.70	-	-	-	2.45	-	-	4.56
Surface	4.70	-	-	-	2.45	-	-	4.56
Maryland	-	-	2.89	1.65	2.43	2.01	1.68	2.33
Underground	-	-	2.65	1.65	-	-	-	1.86
Surface	-	-	3.10	-	2.43	2.01	1.68	2.69
Mississippi	7.44	-	1.29	-	-	-	-	5.57
Surface	7.44	-	1.29	-	-	-	-	5.57
Missouri	-	-	6.57	-	-	-	-	6.57
Surface	-	-	6.57	-	-	-	-	6.57
Montana	16.74	-	13.15	-	-	-	-	16.70
Underground	11.83	-	-	-	-	-	-	11.83
Surface	18.78	-	13.15	-	-	-	-	18.69
New Mexico	8.33	-	-	-	-	0.34	-	8.16
Underground	5.89	-	-	-	-	-	-	5.89
Surface	9.86	-	-	-	-	0.34	-	9.54
North Dakota	11.37	-	-	-	-	-	-	11.34
Surface	11.37	-	-	-	-	-	-	11.34
Ohio	4.30	2.87	3.33	2.13	1.17	2.13	1.07	3.48
Underground	4.32	1.83	2.93	-	-	-	-	3.66
Surface	4.07	3.58	3.75	2.13	1.17	2.13	1.07	3.14
Oklahoma	-	-	2.02	2.48	-	2.27	0.30	2.05
Underground	-	-	2.22	-	-	-	0.14	2.11
Surface	-	-	1.86	2.48	-	2.27	1.19	2.01
Pennsylvania Total	4.00	2.39	3.02	2.49	1.92	1.86	1.20	3.01
Underground	4.00	2.39	2.89	3.04	0.91	1.06	0.85	3.39
Surface	-	-	3.38	2.41	2.25	2.08	1.27	1.91
Pennsylvania (Anthracite)	-	-	2.73	2.12	1.54	1.59	0.82	1.01
Underground	-	-	-	-	-	0.88	0.73	0.48

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)							Total ²
	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	
Surface	-	-	2.73	2.12	1.54	1.79	0.84	1.07
Pennsylvania (Bituminous)	4.00	2.39	3.04	2.54	2.10	2.01	1.88	3.26
Underground	4.00	2.39	2.89	3.04	0.91	1.17	3.58	3.43
Surface	-	-	3.62	2.46	2.75	2.25	1.85	2.45
Tennessee	-	2.93	-	2.14	1.94	1.40	0.10	1.88
Underground	-	2.93	-	-	-	1.23	0.10	2.06
Surface	-	-	-	2.14	1.94	1.53	-	1.60
Texas	7.08	-	-	-	-	-	-	7.08
Surface	7.08	-	-	-	-	-	-	7.08
Utah	6.36	5.18	3.62	-	-	-	0.46	5.69
Underground	6.36	4.30	3.62	-	-	-	0.46	5.70
Surface	-	8.59	-	-	-	-	-	5.43
Virginia	3.37	1.70	1.96	1.56	1.65	0.97	0.66	1.76
Underground	3.37	1.55	1.65	1.10	1.34	0.94	1.37	1.64
Surface	-	2.85	2.66	2.46	2.28	1.26	0.49	2.18
West Virginia Total	3.35	2.01	2.23	1.56	1.29	1.45	0.55	2.44
Underground	3.23	1.65	1.91	1.23	1.13	1.28	0.51	2.24
Surface	3.74	4.27	3.03	2.66	4.10	1.69	0.59	3.08
West Virginia (Northern)	3.69	1.43	2.75	8.21	1.35	3.61	1.07	3.31
Underground	3.68	1.43	2.75	-	-	-	0.20	3.29
Surface	4.56	-	-	8.21	4.45	3.61	3.42	3.90
West Virginia (Southern)	3.03	2.14	2.20	1.49	1.29	1.32	0.50	2.11
Underground	2.48	1.71	1.84	1.23	1.23	1.28	0.55	1.67
Surface	3.70	4.27	3.03	2.39	3.60	1.39	0.44	3.05
Wyoming	28.94	2.13	-	-	-	4.15	-	28.21
Underground	6.72	-	-	-	-	-	-	6.72
Surface	30.09	2.13	-	-	-	4.15	-	29.29
Appalachia Total	3.36	2.30	2.40	2.04	1.75	1.54	0.96	2.44
Underground	3.27	1.91	2.07	1.49	1.30	1.10	0.62	2.36
Surface	3.89	3.62	2.99	2.52	2.28	1.89	1.10	2.65
Appalachia Central	3.12	2.28	2.27	1.93	1.70	1.34	0.76	2.06
Underground	2.64	1.93	1.86	1.45	1.40	1.11	0.60	1.70
Surface	3.86	3.77	3.12	2.63	2.35	1.64	0.87	2.80
Appalachia Northern	3.91	2.35	3.03	2.49	1.89	1.94	1.22	3.18
Underground	3.90	1.86	2.86	2.64	0.66	1.06	0.72	3.37
Surface	4.28	3.58	3.43	2.47	2.26	2.16	1.32	2.43
Appalachia Southern	1.96	2.50	2.00	1.83	1.72	2.24	4.27	1.90
Underground	1.96	-	-	1.00	0.90	-	-	1.85
Surface	-	2.50	2.00	2.20	2.00	2.24	4.27	2.04
Interior Region Total	5.33	4.54	3.91	1.94	0.96	1.40	1.49	4.95
Underground	4.69	3.00	3.52	0.65	0.47	0.36	0.14	4.29
Surface	6.49	6.21	4.04	3.26	2.45	2.40	4.02	6.03
Illinois Basin	4.87	4.54	7.33	1.86	-	1.25	14.48	4.57
Underground	4.69	3.00	7.47	0.65	-	0.36	-	4.33
Surface	5.77	6.21	7.30	3.51	-	2.63	14.48	5.44
Other Interior	6.91	-	2.22	2.48	0.96	2.04	0.49	6.31
Underground	-	-	2.22	-	0.47	-	0.14	1.52
Surface	6.91	-	2.22	2.48	2.45	2.04	1.32	6.51
Western Region Total	18.63	3.59	2.71	-	-	0.73	0.46	17.61
Underground	6.92	3.78	1.44	-	-	-	0.46	6.26
Surface	22.88	3.36	8.09	-	-	0.73	-	22.26
Powder River Basin	30.05	-	-	-	-	-	-	30.05
Surface	30.05	-	-	-	-	-	-	30.05
Uinta Basin	6.25	4.30	2.01	-	-	-	0.46	5.66
Underground	6.44	4.30	1.44	-	-	-	0.46	5.76
Surface	5.09	-	9.81	-	-	-	-	5.00
Other Western	9.24	3.25	7.31	-	-	0.73	-	8.70
Underground	7.93	3.05	-	-	-	-	-	7.39
Surface	9.75	3.36	7.31	-	-	0.73	-	9.21
East of Mississippi River	3.92	2.61	2.46	2.03	1.75	1.52	0.98	2.89
Underground	3.76	2.02	2.09	1.43	1.30	1.06	0.62	2.80
Surface	4.77	4.26	3.09	2.57	2.28	1.91	1.13	3.16
West of Mississippi River	16.39	3.59	2.65	2.48	0.96	1.26	0.48	15.39

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)							Total ²
	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	
Underground	6.92	3.78	1.66	-	0.47	-	0.26	6.09
Surface	18.99	3.36	4.24	2.48	2.45	1.26	1.32	18.35
U.S. Subtotal	8.12	2.66	2.47	2.03	1.72	1.51	0.97	5.53
Underground	4.12	2.09	2.08	1.43	1.26	1.06	0.60	3.07
Surface	14.98	4.17	3.14	2.56	2.28	1.88	1.14	9.69
Refuse Recovery	-	47.20	3.72	-	6.72	2.92	2.36	5.94
U.S. Total	8.12	2.70	2.48	2.03	1.77	1.54	1.01	5.54

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

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

- = No data reported.

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.

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

Table 24. Coal Mining Productivity by State, Mine Type, and Union Status, 2013

(short tons produced per employee hour)

Coal-Producing State and Region ¹	Union		Nonunion	
	Underground	Surface	Underground	Surface
Alabama	1.92	2.11	0.84	2.04
Alaska	-	5.70	-	-
Arizona	-	7.49	-	-
Arkansas	-	-	0.47	-
Colorado	5.73	5.39	5.55	5.10
Illinois	2.06	-	5.79	5.26
Indiana	-	-	3.57	5.62
Kentucky Total	2.54	-	2.70	3.11
Kentucky (East)	-	-	1.82	2.75
Kentucky (West)	2.65	-	3.81	5.55
Louisiana	-	-	-	4.56
Maryland	-	-	1.86	2.73
Mississippi	-	-	-	5.57
Missouri	-	-	-	6.57
Montana	-	12.83	11.83	31.72
New Mexico	5.89	8.24	-	10.99
North Dakota	-	11.33	-	11.35
Ohio	3.75	-	3.62	3.16
Oklahoma	-	-	2.22	1.95
Pennsylvania Total	3.39	0.97	3.45	2.11
Pennsylvania (Anthracite)	-	0.90	0.43	1.18
Pennsylvania (Bituminous)	3.39	1.26	3.50	2.56
Tennessee	-	-	2.11	1.54
Texas	-	7.52	-	6.30
Utah	4.73	-	5.98	6.56
Virginia	1.02	-	1.77	2.28
West Virginia Total	3.26	2.92	1.82	3.18
West Virginia (Northern)	3.76	-	2.50	4.04
West Virginia (Southern)	1.72	2.92	1.67	3.14
Wyoming	6.72	6.01	-	31.01
Appalachian Total	2.83	2.37	2.20	2.74
Appalachia Central	1.52	2.84	1.73	2.87
Appalachia Northern	3.65	0.97	3.20	2.63
Appalachia Southern	1.92	2.11	0.84	2.04
Interior Region Total	2.48	7.39	4.45	5.54
Illinois Basin	2.48	-	4.50	5.54
Other Interior	-	7.52	1.57	5.52
Western Region Total	5.82	8.76	6.45	26.73
Powder River Basin	-	12.82	-	31.74
Uinta Basin	5.08	5.56	5.89	4.85
Other Western	6.22	7.73	9.34	10.93
East of Mississippi River	2.81	2.31	2.83	3.31
West of Mississippi River	5.82	8.23	6.22	23.20
U.S. Total	3.09	6.76	3.09	10.60

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

- = No data reported.

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.

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

Domestic Markets

Table 25. Coal Consumers in the Manufacturing and Coke Sectors, 2013

Company Name	Plant Location
Top Ten Manufacturers	
American Crystal Sugar Co	MN, ND
Archer Daniels Midland	IA, IL, MN, NE
Carmeuse Lime Stone Inc	AL, IN, KY, MI, OH, PA, TN, WI
Cemex Inc	AL, CA, CO, FL, GA, KY, OH, TN, TX
Dakota Gasification Company	ND
Eastman Chemical Company	TN
Georgia-Pacific Consumer Products LP	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	
Amalgamated Sugar Co LLC	ID
Ash Grove Cement Co	AR, KS, MT, NE, OR, UT
Axiall Corporation	WV
Blue Ridge Paper Prod Inc	NC
Buzzi Unicem USA	IN, MO, OK, PA, TN, TX
Cargill Incorporated	GA, IA, MI, NY, OH, TN
Celanese Acetate/Celco Plant	VA
Cliffs Natural Resources Silver Bay Pwr Co	MN
Doyon Utilities	AK
FMC Corporation	WY
GCC America	CO, NM, SD
Glatfelter Corp	PA
Graymont Western US Inc	MT, NV, UT, WA, WI
Ingredion Incorporated	IL, NC
International Paper Co	AL, GA, SC
Kennecott Utah Copper	UT
Lafarge North America	IA, IL, MI, NY, 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, OH
Mittal Steel USA	IN
RED-Rochester LLC	NY
RockTenn CP LLC	FL, VA
Searles Valley Minerals	CA
Solvay Chemicals Inc	WY
TATA Chemicals Ltd	WY
TXI Operations LP	TX
Tate and Lyle Ingredients Americas Inc	IL, IN, TN
Western Sugar Cooperative	CO, MT, NE, WY
Top Ten Coke Producers	
AK Steel Corp	OH
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 manufacturers are the top 40 coal consumers in the manufacturing sector. Major coke producers are the top 10 coal consumers in the coke plant sector. Manufacturers and coke producers are listed in alphabetical order.

Source: U.S. Energy Information Administration, Manufacturers: 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, 2013 and 2012

(thousand short tons)

Census Division and State	2013				2012				Total		Percent Change
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	2013	2012	
New England	2,791	87	-	-	1,920	81	-	-	2,878	2,001	43.8
Connecticut	419	-	-	-	415	-	-	-	419	415	0.9
Maine	38	27	-	-	32	19	-	-	66	51	28.4
Massachusetts	1,718	59	-	-	954	61	-	-	1,778	1,015	75.1
New Hampshire	616	-	-	-	520	-	-	-	616	520	18.5
Middle Atlantic	45,234	2,323	6,401	119	44,838	2,440	5,341	131	54,077	52,750	2.5
New Jersey	1,017	-	-	-	1,007	-	-	-	1,017	1,007	1.0
New York	2,225	664	152	-	2,228	748	161	-	3,041	3,137	-3.1
Pennsylvania	41,992	1,659	6,249	119	41,602	1,692	5,180	131	50,019	48,606	2.9
East North Central	194,616	9,220	11,948	517	181,275	8,906	12,125	578	216,301	202,884	6.6
Illinois	51,996	3,118	1,566	132	48,509	3,165	1,588	129	56,812	53,390	6.4
Indiana	46,671	2,156	5,364	133	46,696	1,974	5,704	197	54,324	54,571	-0.5
Michigan	31,653	1,256	1,333	73	29,669	1,051	1,240	90	34,315	32,050	7.1
Ohio	40,623	1,288	3,685	146	37,119	1,327	3,593	131	45,742	42,170	8.5
Wisconsin	23,674	1,403	-	32	19,283	1,388	-	30	25,109	20,701	21.3
West North Central	136,626	13,337	-	403	133,859	13,373	-	382	150,366	147,615	1.9
Iowa	19,517	3,433	-	210	20,747	3,345	-	213	23,160	24,305	-4.7
Kansas	18,915	85	-	-	17,759	88	-	-	19,000	17,847	6.5
Minnesota	13,765	1,270	-	6	13,384	1,131	-	3	15,041	14,518	3.6
Missouri	44,463	1,085	-	99	42,340	1,014	-	90	45,647	43,444	5.1
Nebraska	15,829	1,124	-	-	14,884	1,038	-	-	16,953	15,922	6.5
North Dakota	22,289	6,133	-	88	22,795	6,555	-	73	28,510	29,423	-3.1
South Dakota	1,847	206	-	-	1,950	202	-	2	2,053	2,155	-4.7
South Atlantic	118,142	5,516	1,790	199	116,981	5,862	1,934	203	125,647	124,979	0.5
Delaware	708	-	-	-	682	-	-	-	708	682	3.9
District of Columbia	-	-	-	-	-	-	-	3	-	3	-95.0
Florida	20,905	575	-	-	19,932	502	-	-	21,480	20,433	5.1
Georgia	20,633	731	-	5	20,836	853	-	7	21,370	21,696	-1.5
Maryland	6,789	705	-	9	6,930	906	-	19	7,503	7,855	-4.5
North Carolina	19,170	663	-	134	20,876	661	-	125	19,967	21,662	-7.8
South Carolina	9,973	504	-	-	11,658	506	-	-	10,477	12,164	-13.9
Virginia	9,869	1,333	1,039	51	6,497	1,437	1,038	49	12,292	9,020	36.3
West Virginia	30,093	1,006	752	-	29,571	998	896	-	31,851	31,464	1.2
East South Central	86,428	5,180	1,334	80	84,705	5,007	1,352	94	93,022	91,158	2.0
Alabama	24,400	1,500	1,334	-	23,020	1,322	1,352	-	27,235	25,695	6.0
Kentucky	39,475	1,073	-	15	38,978	1,118	-	31	40,563	40,128	1.1
Mississippi	5,867	123	-	-	5,240	113	-	-	5,989	5,354	11.9
Tennessee	16,686	2,484	-	65	17,466	2,453	-	63	19,235	19,982	-3.7
West South Central	153,834	1,997	-	9	147,392	1,917	-	10	155,840	149,319	4.4
Arkansas	18,766	215	-	-	17,023	217	-	-	18,980	17,240	10.1
Louisiana	13,787	146	-	-	14,746	147	-	-	13,934	14,893	-6.4
Oklahoma	18,794	634	-	-	18,317	606	-	-	19,428	18,923	2.7
Texas	102,487	1,002	-	9	97,305	947	-	10	103,498	98,263	5.3
Mountain	112,329	3,759	-	38	106,776	3,694	-	44	116,126	110,513	5.1
Arizona	23,298	181	-	-	21,461	418	-	-	23,479	21,879	7.3
Colorado	18,822	339	-	5	19,199	281	-	10	19,166	19,490	-1.7
Idaho	-	360	-	4	-	248	-	5	364	253	43.5
Montana	9,562	262	-	2	9,057	238	-	5	9,826	9,300	5.7
Nevada	2,933	334	-	-	2,258	299	-	-	3,267	2,556	27.8
New Mexico	14,270	51	-	-	14,452	42	-	-	14,321	14,494	-1.2
Utah	15,529	645	-	-	14,084	588	-	-	16,173	14,671	10.2
Wyoming	27,916	1,588	-	27	26,265	1,581	-	24	29,531	27,870	6.0
Pacific	7,963	1,636	-	585	5,805	1,558	-	603	10,184	7,966	27.8
Alaska	400	1	-	585	427	1	-	603	986	1,031	-4.4
California	259	1,383	-	-	539	1,323	-	-	1,643	1,863	-11.8
Hawaii	692	61	-	-	753	50	-	-	753	803	-6.3
Oregon	2,183	85	-	-	1,583	75	-	-	2,268	1,658	36.8

Census Division and State	2013				2012				Total		Percent Change
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	2013	2012	
Washington	4,429	106	-	-	2,502	109	-	-	4,534	2,612	73.6
U.S. Total	857,962	43,055	21,474	1,951	823,551	42,838	20,751	2,045	924,442	889,185	4.0

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).

- = No data reported.

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.'

Table 27. Year-End Coal Stocks by Sector, Census Division, and State, 2013 and 2012

(thousand short tons)

Census Division and State	2013					2012					Total		
	Electric Power ¹	Other Industrial	Commercial and Institutional	Producer and Distributor	Electric Power ¹	Other Industrial	Commercial and Institutional	Producer and Distributor	2013	2012	Percent Change		
New England	1,129	13	-	-	481	1,030	13	-	-	-	1,623	1,042	55.7
Connecticut	w	-	-	-	-	w	-	-	-	-	w	w	-48.1
Maine	-	5	-	-	-	-	5	-	-	-	5	5	4.1
Massachusetts	582	8	-	-	481	w	8	-	-	-	1,071	w	w
New Hampshire	w	-	-	-	-	w	-	-	-	-	w	w	34.5
Middle Atlantic	6,052	279	539	58	2,090	7,553	251	708	56	2,747	9,017	11,315	-20.3
New Jersey	1,045	-	-	-	-	926	-	-	-	-	1,045	926	12.8
New York	429	125	17	-	-	556	81	21	-	-	571	658	-13.1
Pennsylvania	4,578	154	521	58	2,090	6,070	171	687	56	2,747	7,401	9,731	-24.0
East North Central	28,279	880	1,375	141	6,167	36,139	926	1,496	191	7,827	36,842	46,579	-20.9
Illinois	6,273	158	201	26	2,793	8,931	179	257	44	3,707	9,451	13,117	-28.0
Indiana	8,034	187	352	58	1,963	9,127	152	490	66	2,174	10,595	12,009	-11.8
Michigan	6,032	224	449	32	164	6,729	320	428	47	261	6,902	7,785	-11.4
Ohio	4,536	80	372	19	633	6,340	86	321	30	873	5,641	7,650	-26.3
Wisconsin	3,403	231	-	5	615	5,012	189	-	5	812	4,254	6,018	-29.3
West North Central	22,930	944	-	57	1,813	30,554	1,168	-	86	1,905	25,744	33,712	-23.6
Iowa	6,734	397	-	41	113	8,580	448	-	63	131	7,285	9,221	-21.0
Kansas	3,155	33	-	-	-	3,741	20	-	-	-	3,188	3,761	-15.3
Minnesota	1,971	240	-	7	97	2,691	295	-	10	130	2,316	3,126	-25.9
Missouri	7,195	59	-	4	1	10,230	60	-	3	1	7,259	10,294	-29.5
Nebraska	2,522	51	-	-	-	3,321	146	-	-	-	2,573	3,467	-25.8
North Dakota	w	148	-	5	1,602	w	166	-	10	1,643	w	w	-18.2
South Dakota	w	16	-	-	-	w	33	-	-	-	w	w	-24.3
South Atlantic	32,377	438	63	96	12,713	38,859	528	82	101	13,653	45,687	53,222	-14.2
Delaware	w	-	-	-	-	w	-	-	-	-	w	w	-31.0
District of Columbia	-	-	-	2	-	-	-	-	4	-	2	4	-57.8
Florida	w	58	-	-	-	w	72	-	-	25	w	w	-9.2
Georgia	7,992	98	-	1	-	9,970	127	-	1	-	8,091	10,098	-19.9
Maryland	1,327	20	-	14	580	1,544	17	-	20	537	1,941	2,118	-8.4
North Carolina	5,541	17	-	49	-	7,164	28	-	39	-	5,607	7,232	-22.5
South Carolina	5,107	113	-	-	-	w	108	-	-	23	5,220	w	w
Virginia	1,428	73	-	31	2,703	2,118	99	-	36	2,903	4,234	5,155	-17.9
West Virginia	5,406	59	63	-	9,430	5,643	77	82	-	10,164	14,958	15,966	-6.3
East South Central	16,840	309	224	22	7,482	19,657	315	237	15	6,440	24,877	26,665	-6.7
Alabama	4,285	113	224	-	2,443	6,123	115	237	-	1,180	7,065	7,654	-7.7
Kentucky	7,925	63	-	15	3,938	8,417	54	-	9	4,583	11,942	13,062	-8.6
Mississippi	1,427	2	-	-	1,029	1,964	7	-	-	656	2,458	2,627	-6.5
Tennessee	3,203	131	-	6	73	3,153	140	-	6	22	3,413	3,321	2.8
West South Central	23,375	464	-	4	1,679	28,807	380	-	9	1,674	25,522	30,870	-17.3
Arkansas	3,253	24	-	-	2	4,181	16	-	-	10	3,278	4,207	-22.1
Louisiana	3,790	4	-	-	722	3,342	5	-	-	327	4,516	3,675	22.9
Oklahoma	3,072	160	-	-	-	4,739	181	-	-	-	3,232	4,920	-34.3
Texas	13,261	275	-	4	955	16,545	177	-	9	1,338	14,495	18,068	-19.8
Mountain	15,732	568	-	7	13,051	20,385	678	-	9	11,741	29,357	32,813	-10.5
Arizona	2,645	57	-	-	709	4,235	32	-	-	1,367	3,412	5,634	-39.4
Colorado	3,701	27	-	-	2,362	4,131	63	-	-	1,742	6,090	5,937	2.6
Idaho	-	250	-	-	-	-	311	-	1	-	250	312	-19.7
Montana	w	32	-	6	1,578	w	41	-	8	312	w	w	90.1
Nevada	639	32	-	-	-	w	28	-	-	-	671	w	w
New Mexico	w	2	-	-	4,523	w	2	-	-	3,783	w	w	13.3
Utah	4,099	17	-	-	2,034	4,737	62	-	-	2,284	6,150	7,083	-13.2
Wyoming	2,742	150	-	-	1,845	3,962	138	-	-	2,253	4,737	6,353	-25.4
Pacific	1,253	202	-	110	177	2,132	217	-	117	169	1,742	2,635	-33.9
Alaska	w	-	-	110	177	w	-	-	117	169	w	w	7.3
California	w	146	-	-	-	w	136	-	-	-	w	w	-9.7
Hawaii	w	39	-	-	-	w	68	-	-	-	w	w	-17.4
Oregon	w	3	-	-	-	w	6	-	-	-	w	w	-59.6

Census Division and State	2013					2012					Total		Percent Change
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Producer and Distributor	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Producer and Distributor	2013	2012	
Washington	w	14	-	-	-	w	7	-	-	-	w	w	-56.7
U.S. Total	147,967	4,097	2,200	495	45,652	185,116	4,475	2,522	583	46,157	200,411	238,854	-16.1

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).

- = No data reported.

w = Data withheld to avoid disclosure.

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.'

Average Mine Sales Price

Table 28. Average Sales Price of Coal by State and Mine Type, 2013 and 2012

(dollars per short ton)

Coal-Producing State	2013			2012			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	88.19	88.24	88.20	107.73	104.51	106.57	-18.1	-15.6	-17.2
Alaska	-	w	w	-	w	w	-	w	w
Arizona	-	w	w	-	w	w	-	w	w
Arkansas	w	-	w	w	-	w	w	-	w
Colorado	36.62	41.89	37.58	w	w	37.54	w	w	0.1
Illinois	48.08	45.65	47.82	54.18	45.12	53.08	-11.3	1.2	-9.9
Indiana	49.40	51.23	50.44	52.94	51.33	52.01	-6.7	-0.2	-3.0
Kentucky Total	59.41	59.95	59.58	62.24	64.70	63.12	-4.6	-7.3	-5.6
Kentucky (East)	76.40	66.37	71.41	79.23	72.04	75.62	-3.6	-7.9	-5.6
Kentucky (West)	49.88	38.41	48.25	50.18	42.14	48.67	-0.6	-8.9	-0.9
Louisiana	-	w	w	-	w	w	-	w	w
Maryland	w	w	51.75	w	w	55.67	w	w	-7.0
Mississippi	-	w	w	-	w	w	-	w	w
Missouri	-	w	w	-	w	w	-	w	w
Montana	w	w	17.26	w	w	18.11	w	w	-4.7
New Mexico	w	w	37.32	w	w	36.74	w	w	1.6
North Dakota	-	17.93	17.93	-	17.40	17.40	-	3.1	3.1
Ohio	49.47	46.77	48.64	49.39	44.28	47.80	0.2	5.6	1.8
Oklahoma	w	w	58.74	w	w	59.63	w	w	-1.5
Pennsylvania Total	68.04	68.65	68.13	72.69	74.04	72.92	-6.4	-7.3	-6.6
Pennsylvania (Anthracite)	71.17	88.55	87.82	82.71	80.10	80.21	-14.0	10.6	9.5
Pennsylvania (Bituminous)	68.03	62.63	67.37	72.67	71.88	72.57	-6.4	-12.9	-7.2
Tennessee	w	w	73.29	w	w	73.51	w	w	-0.3
Texas	-	19.31	19.31	-	19.09	19.09	-	1.2	1.2
Utah	w	w	35.52	w	w	34.92	w	w	1.7
Virginia	98.53	81.86	93.40	114.91	98.84	109.40	-14.3	-17.2	-14.6
West Virginia Total	76.92	72.27	75.56	86.02	73.60	81.80	-10.6	-1.8	-7.6
West Virginia (Northern)	59.60	61.69	59.68	63.39	62.42	63.34	-6.0	-1.2	-5.8
West Virginia (Southern)	95.30	72.76	85.18	107.76	74.25	91.40	-11.6	-2.0	-6.8
Wyoming	w	w	14.02	w	w	14.24	w	w	-1.5
U.S. Total	60.98	24.50	37.24	66.56	26.43	39.95	-8.4	-7.3	-6.8

- = No data reported.

w = Data withheld to avoid disclosure.

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.

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

Table 29. Average Sales Price of Coal by State and Underground Mining Method, 2013

(dollars per short ton)

Coal-Producing State	Continuous ¹	Conventional and Other ²	Longwall ³	Total
Alabama	w	-	w	88.19
Arkansas	w	-	-	w
Colorado	w	-	w	36.62
Illinois	45.53	-	49.73	48.08
Indiana	49.40	-	-	49.40
Kentucky Total	59.35	60.18	-	59.41
Kentucky (East)	w	w	-	76.40
Kentucky (West)	w	w	-	49.88
Maryland	w	-	-	w
Montana	-	-	w	w
New Mexico	-	-	w	w
Ohio	w	-	w	49.47
Oklahoma	w	-	-	w
Pennsylvania Total	75.41	w	65.57	w
Pennsylvania (Anthracite)	w	w	-	71.17
Pennsylvania (Bituminous)	75.44	-	65.57	68.03
Tennessee	w	-	-	w
Utah	w	-	36.27	w
Virginia	w	-	w	98.53
West Virginia Total	93.47	-	63.46	76.92
West Virginia (Northern)	81.23	-	56.72	59.60
West Virginia (Southern)	95.39	-	94.95	95.30
Wyoming	-	-	w	w
U.S. Total	67.91	60.21	55.55	60.98

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

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.

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.

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

Table 30. Average Sales Price of Coal by State, County, and Number of Mines, 2013

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Alabama	36	17,833	88.20
Bibb	1	w	w
Blount	1	w	w
Fayette	1	w	w
Franklin	2	w	w
Jackson	1	w	w
Jefferson	8	4,954	128.66
Shelby	2	w	w
Tuscaloosa	7	8,272	73.98
Walker	11	2,183	83.18
Winston	2	w	w
Alaska	1	w	w
Fairbanks North Star	1	w	w
Arizona	1	w	w
Navajo	1	w	w
Arkansas	1	w	w
Sebastian	1	w	w
Colorado	10	23,524	37.58
Delta	1	w	w
Gunnison	2	w	w
La Plata	1	w	w
Moffat	2	w	w
Montrose	1	w	w
Rio Blanco	2	w	w
Routt	1	w	w
Illinois	23	52,765	47.82
Franklin	1	w	w
Gallatin	1	w	w
Hamilton	1	w	w
Jackson	1	w	w
Macoupin	2	w	w
Montgomery	1	w	w
Perry	4	3,447	39.73
Randolph	3	w	w
Saline	4	12,413	50.66
Sangamon	1	w	w
Wabash	1	w	w
Washington	1	w	w
White	1	w	w
Williamson	1	w	w
Indiana	26	38,746	50.44
Clay	1	w	w
Daviess	2	w	w
Dubois	1	w	w
Gibson	5	10,350	52.09
Knox	5	5,348	46.29
Pike	4	3,947	43.80
Sullivan	3	w	w
Vigo	1	w	w
Warrick	4	w	w
Kentucky	197	79,440	59.58
Bell	11	1,077	71.42
Breathitt	4	580	61.57
Clay	2	w	w
Daviess	2	w	w
Elliott	1	w	w
Floyd	14	2,565	65.05
Harlan	20	4,575	67.32
Hopkins	4	12,354	52.15
Johnson	4	w	w

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Knott	7	1,786	74.36
Knox	5	410	125.46
Lawrence	3	w	w
Leslie	8	2,040	74.68
Letcher	16	2,399	78.86
Magoffin	4	1,656	69.09
Martin	7	2,950	74.14
Muhlenberg	3	w	w
Ohio	7	8,154	39.83
Perry	18	7,694	65.96
Pike	45	9,580	73.19
Union	3	w	w
Webster	2	w	w
Whitley	7	441	120.39
Louisiana	2	w	w
De Soto	1	w	w
Natchitoches	1	w	w
Maryland	13	1,959	51.75
Allegany	9	1,480	43.07
Garrett	4	479	78.57
Mississippi	2	w	w
Choctaw	1	w	w
Missouri	1	w	w
Bates	1	w	w
Montana	6	40,961	17.26
Big Horn	3	w	w
Musselshell	1	w	w
Richland	1	w	w
Rosebud	1	w	w
New Mexico	4	21,882	37.32
Mckinley	2	w	w
San Juan	2	w	w
North Dakota	4	27,680	17.93
McLean	1	w	w
Mercer	2	w	w
Oliver	1	w	w
Ohio	27	25,057	48.64
Belmont	2	w	w
Carroll	1	w	w
Columbiana	1	w	w
Guernsey	1	w	w
Harrison	5	3,319	52.61
Jackson	1	w	w
Jefferson	4	1,748	51.06
Monroe	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	1,167	58.74
Craig	1	w	w
Haskell	1	w	w
Le Flore	2	w	w
Nowata	1	w	w
Pennsylvania	134	53,295	68.13
Armstrong	9	2,321	61.71
Beaver	1	w	w
Bedford	1	w	w
Blair	1	w	w
Butler	1	w	w
Cambria	8	1,485	83.16
Carbon	1	w	w
Centre	1	w	w
Clarion	1	w	w

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Clearfield	19	3,226	74.44
Columbia	2	w	w
Elk	2	w	w
Fayette	1	w	w
Greene	6	25,534	65.58
Indiana	17	2,938	79.18
Jefferson	4	660	48.24
Luzerne	5	431	119.27
Lycoming	1	w	w
Mercer	1	w	w
Northumberland	6	301	63.80
Schuylkill	22	1,159	80.74
Somerset	18	3,205	83.66
Venango	1	w	w
Washington	4	w	w
Westmoreland	1	w	w
Tennessee	8	1,026	73.29
Anderson	1	w	w
Campbell	4	164	70.92
Claiborne	3	w	w
Texas	11	40,210	19.31
Atascosa	1	w	w
Freestone	1	w	w
Harrison	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	8	17,399	35.52
Carbon	4	6,582	37.56
Emery	2	w	w
Kane	1	w	w
Sevier	1	w	w
Virginia	64	17,309	93.40
Buchanan	23	7,792	89.26
Dickenson	13	4,016	111.98
Lee	1	w	w
Russell	3	w	w
Tazewell	4	w	w
Wise	20	3,660	82.04
West Virginia	174	112,360	75.56
Barbour	1	w	w
Boone	21	14,207	81.63
Fayette	7	4,451	89.23
Greenbrier	6	855	130.66
Harrison	1	w	w
Kanawha	13	9,564	67.68
Lincoln	1	w	w
Logan	19	13,346	75.15
Marion	3	w	w
Marshall	2	w	w
Mcdowell	27	4,011	99.67
Mercer	1	w	w
Mineral	1	w	w
Mingo	20	5,313	79.40
Monongalia	5	5,006	62.12
Nicholas	5	1,185	111.35
Ohio	1	w	w
Raleigh	16	7,171	115.23
Taylor	1	w	w
Tucker	1	w	w
Upshur	2	w	w

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Wayne	5	3,359	68.45
Webster	4	2,299	87.47
Wyoming	11	5,738	99.45
Wyoming	17	388,142	14.02
Campbell	11	343,088	12.98
Converse	1	w	w
Hot Springs	1	w	w
Lincoln	1	w	w
Sweetwater	3	w	w
U.S. Total	775	976,718	37.24

- = No data reported.

w = Data withheld to avoid disclosure.

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.

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

Table 31. Average Sales Price of Coal by State and Coal Rank, 2013

(dollars per short ton)

Coal-Producing State	Bituminous	Subbituminous	Lignite	Anthracite	Total
Alabama	88.20	-	-	-	88.20
Alaska	-	w	-	-	w
Arizona	w	-	-	-	w
Arkansas	w	-	-	-	w
Colorado	w	w	-	-	37.58
Illinois	47.82	-	-	-	47.82
Indiana	50.44	-	-	-	50.44
Kentucky Total	59.58	-	-	-	59.58
Kentucky (East)	71.41	-	-	-	71.41
Kentucky (West)	48.25	-	-	-	48.25
Louisiana	-	-	w	-	w
Maryland	51.75	-	-	-	51.75
Mississippi	-	-	w	-	w
Missouri	w	-	-	-	w
Montana	w	16.26	w	-	17.26
New Mexico	w	w	-	-	37.32
North Dakota	-	-	17.93	-	17.93
Ohio	48.64	-	-	-	48.64
Oklahoma	58.74	-	-	-	58.74
Pennsylvania Total	67.37	-	-	87.82	68.13
Pennsylvania (Anthracite)	-	-	-	87.82	87.82
Pennsylvania (Bituminous)	67.37	-	-	-	67.37
Tennessee	73.29	-	-	-	73.29
Texas	-	-	19.31	-	19.31
Utah	35.52	-	-	-	35.52
Virginia	93.40	-	-	-	93.40
West Virginia Total	75.56	-	-	-	75.56
West Virginia (Northern)	59.68	-	-	-	59.68
West Virginia (Southern)	85.18	-	-	-	85.18
Wyoming	-	14.02	-	-	14.02
U.S. Total	60.61	14.86	19.96	87.82	37.24

- = No data reported.

w = Data withheld to avoid disclosure.

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.

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

Table 32. Average Sales Price of Coal by Mine Production Range and Mine Type, 2013

(dollars per short ton)

Mine Production Range (thousand short tons)	Underground	Surface	Total
Over 1,000	54.99	19.57	30.97
Over 500 to 1,000	80.60	55.73	70.06
Over 200 to 500	83.51	67.52	76.18
Over 100 to 200	90.28	69.34	76.41
Over 50 to 100	88.36	71.74	78.35
50 or Under	78.74	64.55	68.82
U.S. Total	60.98	24.50	37.24

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.

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

Table 33. Average Sales Price of U.S. Coal by State and Disposition, 2013

(dollars per short ton)

Coal-Producing State	Open Market ¹	Captive ²	Total ³
Alabama	83.43	-	88.20
Alaska	w	-	w
Arizona	w	-	w
Arkansas	w	-	w
Colorado	36.82	43.98	37.58
Illinois	w	w	47.82
Indiana	49.30	51.70	50.44
Kentucky Total	59.24	62.04	59.58
Kentucky (East)	71.61	62.04	71.41
Kentucky (West)	48.32	-	48.25
Louisiana	w	-	w
Maryland	48.67	-	51.75
Mississippi	w	-	w
Missouri	w	-	w
Montana	w	w	17.26
New Mexico	w	w	37.32
North Dakota	w	w	17.93
Ohio	w	w	48.64
Oklahoma	58.74	-	58.74
Pennsylvania Total	w	w	68.13
Pennsylvania (Anthracite)	w	w	87.82
Pennsylvania (Bituminous)	w	w	67.37
Tennessee	73.29	-	73.29
Texas	w	w	19.31
Utah	w	w	35.52
Virginia	w	w	93.40
West Virginia Total	w	w	75.56
West Virginia (Northern)	w	w	59.68
West Virginia (Southern)	w	w	85.18
Wyoming	13.90	14.25	14.02
U.S. Total	37.29	22.72	37.24

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

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.

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.

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

Average Consumer Prices

Table 34. Average Price of Coal Delivered to End Use Sector by Census Division and State, 2013 and 2012

(dollars per short ton)

Census Division and State	2013				2012				Annual Percent Change			
	Electric Power ¹	Other Industrial	Commercial and Institutional	Coke	Electric Power ¹	Other Industrial	Commercial and Institutional	Coke	Electric Power ¹	Other Industrial	Commercial and Institutional	Coke
New England	86.43	w	-	-	88.32	165.17	-	-	-2.14	w	-	-
Connecticut	w	-	-	-	w	-	-	-	-13.42	-	-	-
Maine	w	w	-	-	w	w	-	-	-34.82	-16.34	-	-
Massachusetts	w	w	-	-	w	w	-	-	5.46	-9.45	-	-
New Hampshire	108.33	-	-	-	105.97	-	-	-	2.23	-	-	-
Middle Atlantic	57.25	88.18	w	132.00	w	94.12	w	152.82	w	-6.31	-11.06	-13.62
New Jersey	w	-	-	-	w	-	-	-	-4.67	-	-	-
New York	w	105.99	w	-	w	114.32	w	-	-2.85	-7.29	-16.62	-
Pennsylvania	55.60	79.96	w	132.00	w	84.85	w	152.82	w	-5.76	-10.79	-13.62
East North Central	45.79	79.00	157.52	91.59	47.54	80.89	198.78	91.96	-3.68	-2.34	-20.76	s
Illinois	33.20	50.22	w	58.50	34.27	51.39	w	62.38	-3.12	-2.28	-18.22	-6.22
Indiana	w	101.54	w	72.51	w	104.16	w	w	s	-2.52	-19.68	w
Michigan	w	92.45	w	w	w	98.28	w	w	-5.59	-5.93	-29.29	-2.22
Ohio	w	87.47	150.65	125.01	w	92.32	188.05	132.81	-8.32	-5.25	-19.89	-5.87
Wisconsin	41.68	87.42	-	151.34	42.20	90.49	-	160.91	-1.23	-3.39	-	-5.95
West North Central	29.31	35.74	-	80.11	28.75	36.16	-	81.32	1.95	-1.16	-	-1.49
Iowa	28.65	48.19	-	w	25.26	49.57	-	w	13.42	-2.78	-	1.59
Kansas	30.59	w	-	-	31.72	w	-	-	-3.56	6.67	-	-
Minnesota	35.67	61.26	-	w	35.18	62.17	-	w	1.39	-1.46	-	12.94
Missouri	33.50	59.53	-	w	32.65	64.79	-	w	2.60	-8.12	-	0.5
Nebraska	24.43	32.44	-	-	26.34	34.14	-	-	-7.25	-4.98	-	-
North Dakota	20.45	w	-	51.12	19.69	w	-	50.05	3.86	-3.23	-	2.14
South Dakota	33.46	w	-	-	36.27	w	-	-	-7.75	3.77	-	-
South Atlantic	74.85	98.56	w	119.71	78.89	102.15	w	126.75	-5.12	-3.51	-15.30	-5.55
Delaware	w	-	-	-	w	-	-	-	-17.96	-	-	-
District of Columbia	-	-	-	-	-	-	-	w	-	-	-	w
Florida	w	114.73	-	-	w	115.33	-	-	-3.05	-0.52	-	-
Georgia	62.50	106.98	-	w	71.30	108.85	-	w	-12.34	-1.72	-	-11.66
Maryland	85.04	w	-	w	90.02	65.01	-	w	-5.53	w	-	-7.39
North Carolina	93.76	104.46	-	w	92.79	106.71	-	w	1.05	-2.11	-	-3.48
South Carolina	94.02	106.28	-	-	w	110.86	-	w	w	-4.13	-	w
Virginia	w	103.60	w	96.65	w	107.89	w	100.13	-12.77	-3.98	-9.21	-3.48
West Virginia	60.20	105.16	w	-	61.22	109.58	w	-	-1.67	-4.03	-23.18	-
East South Central	w	100.09	w	111.49	w	105.38	w	121.22	-6.80	-5.02	-18.21	-8.03
Alabama	56.67	103.53	w	-	62.33	107.13	w	-	-9.08	-3.36	-18.21	-
Kentucky	53.30	99.70	-	w	54.83	101.96	-	114.63	-2.79	-2.22	-	w
Mississippi	w	w	-	-	w	w	-	-	-13.83	-4.32	-	-
Tennessee	49.09	98.67	-	w	53.92	106.55	-	w	-8.96	-7.40	-	-10.23
West South Central	33.31	78.70	-	w	31.88	75.54	-	w	4.49	4.18	-	-0.68
Arkansas	w	w	-	-	w	w	-	-	6.46	6.36	-	-
Louisiana	w	w	-	-	w	w	-	-	4.94	-2.64	-	-
Oklahoma	w	w	-	-	w	w	-	-	1.87	10.43	-	-
Texas	30.30	83.45	-	w	28.92	82.82	-	w	4.77	0.76	-	-0.68
Mountain	36.06	53.26	-	w	34.55	51.35	-	102.80	4.37	3.72	-	w
Arizona	40.49	w	-	-	39.85	65.42	-	-	1.61	w	-	-
Colorado	36.20	64.76	-	w	35.00	64.45	-	w	3.43	s	-	-2.39
Idaho	-	59.68	-	w	-	61.80	-	w	-	-3.43	-	0.66
Montana	w	41.31	-	-	w	37.92	-	w	13.66	8.94	-	w
Nevada	w	72.14	-	-	w	76.26	-	-	-1.34	-5.40	-	-
New Mexico	41.30	w	-	-	39.62	w	-	-	4.24	s	-	-
Utah	45.17	52.46	-	-	42.60	61.38	-	-	6.03	-14.53	-	-
Wyoming	w	42.26	-	w	w	37.33	-	w	5.77	13.21	-	3.48
Pacific	41.42	85.21	-	74.61	42.72	82.83	-	61.63	-3.04	2.87	-	21.06
Alaska	-	-	-	74.61	-	-	-	61.63	-	-	-	21.06
California	w	84.81	-	-	w	82.15	-	-	-6.69	3.24	-	-
Hawaii	w	w	-	-	w	w	-	-	1.26	-2.20	-	-
Oregon	32.98	w	-	-	31.67	w	-	-	4.14	-0.66	-	-

Census Division and State	2013				2012				Annual Percent Change			
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional
Washington	w	w	-	-	w	w	-	-	-1.18	6.05	-	-
U.S. Total	45.03	69.16	156.99	90.51	45.77	70.33	190.55	90.76	-1.62	-1.66	-17.61	s

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).

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.

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.'