



Independent Statistics & Analysis
U.S. Energy Information
Administration

Annual Coal Report 2014

March 2016



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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, "Annual Survey of Coal Production and Preparation." Consumption and stocks are based on various other EIA survey forms.

This report is the 39th 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 2014 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

In 2014, U.S. coal production marked an increase of 1.5% year over year to surpass 1.0 billion short tons, reversing a trend shown in 2013, when domestic coal production fell below one billion short tons for the first time since 1993. The number of producing mines in the United States continued its declining trend, falling to 985 mines, representing a decline of 7.2% from 2013.

Regional coal production patterns in 2014 changed moderately when compared 2013. Only the Appalachian region showed a decline in coal production, while both the Interior and Western regions increased their production in 2014.

In 2014, coal production in the Appalachian region declined by a modest 2.7 million short tons (1.0%), despite a large decrease of 22.3 million short tons in 2013. Coal production in West Virginia, the largest coal producing state in the Appalachian region, stayed approximately flat at 112.2 million short tons in 2014, with production in northern West Virginia (increase of 6.5 million short tons) and southern West Virginia (decrease of 7.0 million short tons) heading in opposite directions. The largest statewide production decline in the Appalachian region in 2014 occurred in Kentucky, which decreased by 3.0 million short tons.

Coal production in the Interior region increased for the fifth year in a row to 188.6 million short tons in 2014, an increase of 5.6 million short tons (3.1%) over the prior year. Illinois, the largest coal-producing state in the Interior region, increased production by 5.8 million short tons (11.2%) to 58.0 million short tons, its largest production total since 1992.

Coal production in the total Western region increased in 2014 by 12.6 million short tons to 542.8 million short tons, after declining by 13.0 million short tons in 2013. Wyoming, the largest coal producing state in the region, as well as the United States, increased production by 7.7 million short tons in 2014 to 395.7 million short tons. Montana continued its upward trend by producing 44.6 million tons, 5.5% more than the prior year.

Productive Capacity

Productive capacity is the maximum amount of coal that can be produced annually, as reported by mining companies. In 2014, the productive capacity of U.S. coal mines decreased for the third year in a row, reaching 1,243.7 million short tons, a decline of 0.7% from the prior year. Some of the notable declines in productive capacity occurred in several states: Tennessee (38.9%), Alabama (14.5%), and Missouri (14.9%). Alternatively, Illinois had the largest improvement in productive capacity, increasing by 8.9%.

Capacity utilization at underground mines and surface mines in 2014 increased by 0.45 and 2.37 percentage points, respectively. The overall capacity utilization across all mines increased by 1.79 percentage points to a level of 80.1%.

Employment and Productivity

The total number of employees at U.S. coal mines in 2014 continued to decline, reaching 74,931 employees, a decrease of 6.8% from the prior year. This is the lowest average number of mine employees since 2004. The average total number of employees at underground mines and surface mines declined by 6.4% and 7.3%, respectively. West Virginia had the largest decline in the average number of employees this year, declining by 1,951 employees (9.6%), despite only a small reduction (0.5%) in statewide total coal production.

While there were fewer coal mine employees in the United States in 2014, the average production per employee hour increased by 7.6% to 5.96 short tons per employee hour.

Consumption

Coal consumption in 2014 declined slightly from the 2013 level. A total of 917.7 million short tons of coal was consumed in 2014, a decline of 0.7%, or 6.7 million short tons, from the prior year. Electric power sector coal consumption decreased by 6.4 million short tons to 851.6 million short tons. Coal consumption in the other industrial, coke, and commercial and institutional sectors was 66.1 million short tons in 2014, almost the same as the prior year.

Stocks

U.S. coal stocks ended 2014 at 198.0 million short tons, a decrease of 1.2% from the prior year. Stocks in the electric power sector increased by 3.8 million short tons to 151.8 million short tons at the end of 2014. In contrast, coal stocks held by the other industrial, coke, and commercial and institutional sectors declined by 6.2 million short tons to 46.2 million short tons at the end of 2014.

Sales Price

The total average sales price of coal from U.S. mines in 2014 was \$34.83 per short ton, a decrease of 6.5%, marking the third consecutive year since 2011 of declining average prices. The average sales price of coal from surface mines and underground mines declined by 6.8% and 6.6%, respectively, to \$22.82 and \$56.97 per short ton. Overall, many of the largest price declines in 2014 occurred in the Appalachian region, with noteworthy declines listed below:

- Average sales price in Virginia (\$78.44 per short ton) decreased by 16.0%, a cumulative decline of 42% from the 2011 average sales price.
- Average sales price in West Virginia (\$65.67 per short ton) decreased by 13.1%.
- Average sales price in Oklahoma (\$44.98 per short ton) decreased by 23.4%.
- Average sales price in Pennsylvania (\$61.82 per short ton) decreased by 9.3%.

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Coal Production

Table 1. Coal Production and Number of Mines by State and Mine Type, 2014 and 2013

(thousand short tons)

Coal-Producing State and Region ¹	2014		2013		Percent Change	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	36	16,363	39	18,620	-7.7	-12.1
Underground	7	12,516	8	13,515	-12.5	-7.4
Surface	29	3,847	31	5,105	-6.5	-24.7
Alaska	1	1,502	1	1,632	-	-8.0
Surface	1	1,502	1	1,632	-	-8.0
Arizona	1	8,051	1	7,603	-	5.9
Surface	1	8,051	1	7,603	-	5.9
Arkansas	2	94	2	59	-	60.5
Underground	1	87	1	55	-	59.3
Surface	1	7	1	4	-	76.2
Colorado	10	24,007	10	24,236	-	-0.9
Underground	6	18,123	6	19,416	-	-6.7
Surface	4	5,884	4	4,820	-	22.1
Illinois	22	57,969	24	52,147	-8.3	11.2
Underground	13	52,713	15	46,447	-13.3	13.5
Surface	9	5,256	9	5,701	-	-7.8
Indiana	29	39,267	27	39,102	7.4	0.4
Underground	9	18,105	9	16,837	-	7.5
Surface	20	21,162	18	22,265	11.1	-5.0
Kansas	2	66	1	22	100.0	199.6
Surface	2	66	1	22	100.0	199.6
Kentucky Total	252	77,335	270	80,380	-6.7	-3.8
Underground	93	52,807	98	54,620	-5.1	-3.3
Surface	159	24,527	172	25,759	-7.6	-4.8
Kentucky (East)	231	37,390	246	39,501	-6.1	-5.3
Underground	80	18,414	86	19,573	-7.0	-5.9
Surface	151	18,976	160	19,928	-5.6	-4.8
Kentucky (West)	21	39,945	24	40,879	-12.5	-2.3
Underground	13	34,393	12	35,047	8.3	-1.9
Surface	8	5,551	12	5,832	-33.3	-4.8
Louisiana	2	2,605	2	2,810	-	-7.3
Surface	2	2,605	2	2,810	-	-7.3
Maryland	20	1,978	21	1,925	-4.8	2.7
Underground	2	718	3	670	-33.3	7.1
Surface	18	1,260	18	1,255	-	0.4
Mississippi	2	3,737	2	3,575	-	4.5
Surface	2	3,737	2	3,575	-	4.5
Missouri	1	363	1	414	-	-12.3
Surface	1	363	1	414	-	-12.3
Montana	6	44,562	6	42,231	-	5.5
Underground	1	7,902	1	8,683	-	-9.0
Surface	5	36,660	5	33,549	-	9.3
New Mexico	3	21,963	4	21,969	-25.0	s
Underground	1	8,800	1	5,989	-	46.9
Surface	2	13,164	3	15,979	-33.3	-17.6
North Dakota	4	29,157	4	27,639	-	5.5
Surface	4	29,157	4	27,639	-	5.5
Ohio	28	22,252	31	25,113	-9.7	-11.4
Underground	11	15,550	10	17,426	10.0	-10.8
Surface	17	6,703	21	7,687	-19.1	-12.8
Oklahoma	6	904	9	1,136	-33.3	-20.4
Underground	1	398	2	443	-50.0	-10.2
Surface	5	506	7	692	-28.6	-26.9
Pennsylvania Total	222	60,910	229	54,009	-3.1	12.8
Underground	51	52,912	52	45,164	-1.9	17.2
Surface	171	7,998	177	8,844	-3.4	-9.6

Coal-Producing State and Region ¹	2014		2013		Percent Change	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Pennsylvania (Anthracite)	61	1,833	65	2,060	-6.2	-11.0
Underground	8	93	11	95	-27.3	-2.2
Surface	53	1,740	54	1,965	-1.9	-11.4
Pennsylvania (Bituminous)	161	59,076	164	51,949	-1.8	13.7
Underground	43	52,819	41	45,069	4.9	17.2
Surface	118	6,258	123	6,880	-4.1	-9.0
Tennessee	7	839	11	1,098	-36.4	-23.6
Underground	3	622	4	731	-25.0	-15.0
Surface	4	218	7	368	-42.9	-40.8
Texas	16	43,654	11	42,851	45.5	1.9
Surface	16	43,654	11	42,851	45.5	1.9
Utah	8	17,934	9	16,977	-11.1	5.6
Underground	7	17,379	8	16,236	-12.5	7.0
Surface	1	555	1	741	-	-25.1
Virginia	69	15,059	82	16,619	-15.9	-9.4
Underground	38	11,067	48	12,190	-20.8	-9.2
Surface	31	3,992	34	4,429	-8.8	-9.9
West Virginia Total	191	112,187	218	112,786	-12.4	-0.5
Underground	100	81,636	128	78,819	-21.9	3.6
Surface	91	30,551	90	33,967	1.1	-10.1
West Virginia (Northern)	32	48,858	32	42,390	-	15.3
Underground	17	47,520	18	40,871	-5.6	16.3
Surface	15	1,339	14	1,519	7.1	-11.9
West Virginia (Southern)	159	63,329	186	70,396	-14.5	-10.0
Underground	83	34,116	110	37,949	-24.6	-10.1
Surface	76	29,213	76	32,448	-	-10.0
Wyoming	18	395,665	17	387,924	5.9	2.0
Underground	1	3,370	1	4,443	-	-24.2
Surface	17	392,295	16	383,481	6.3	2.3
Appalachia Total	804	266,979	877	269,672	-8.3	-1.0
Underground	292	193,434	339	188,090	-13.9	2.8
Surface	512	73,545	538	81,582	-4.8	-9.9
Appalachia Central	466	116,617	525	127,615	-11.2	-8.6
Underground	204	64,219	248	70,443	-17.7	-8.8
Surface	262	52,399	277	57,172	-5.4	-8.4
Appalachia Northern	302	133,998	313	123,437	-3.5	8.6
Underground	81	116,699	83	104,131	-2.4	12.1
Surface	221	17,299	230	19,305	-3.9	-10.4
Appalachia Southern	36	16,363	39	18,620	-7.7	-12.1
Underground	7	12,516	8	13,515	-12.5	-7.4
Surface	29	3,847	31	5,105	-6.5	-24.7
Interior Region Total	103	188,604	103	182,994	-	3.1
Underground	37	105,697	39	98,829	-5.1	7.0
Surface	66	82,908	64	84,165	3.1	-1.5
Illinois Basin	72	137,181	75	132,128	-4.0	3.8
Underground	35	105,212	36	98,331	-2.8	7.0
Surface	37	31,969	39	33,797	-5.1	-5.4
Other Interior	31	51,423	28	50,866	10.7	1.1
Underground	2	485	3	498	-33.3	-2.6
Surface	29	50,938	25	50,368	16.0	1.1
Western Region Total	51	542,842	52	530,210	-1.9	2.4
Underground	16	55,573	17	54,766	-5.9	1.5
Surface	35	487,269	35	475,444	-	2.5
Powder River Basin	16	418,156	16	407,567	-	2.6
Surface	16	418,156	16	407,567	-	2.6
Uinta Basin	14	40,122	16	39,520	-12.5	1.5
Underground	11	34,522	13	34,917	-15.4	-1.1
Surface	3	5,601	3	4,604	-	21.7
Other Western	21	84,563	20	83,123	5.0	1.7
Underground	5	21,052	4	19,850	25.0	6.1
Surface	16	63,512	16	63,273	-	0.4

Coal-Producing State and Region ¹	2014		2013		Percent Change	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
East of Mississippi River	878	407,897	954	405,375	-8.0	0.6
West of Mississippi River	80	590,528	78	577,501	2.6	2.3
U.S. Subtotal	958	998,425	1,032	982,876	-7.2	1.6
Refuse Recovery	27	1,624	29	1,966	-6.9	-17.4
U.S. Total	985	1,000,049	1,061	984,842	-7.2	1.5

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

-- No data reported.

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

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, 2014

(thousand short tons)

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	7	12,516	29	3,847	36	16,363
Bibb	-	-	1	72	1	72
Franklin	-	-	2	141	2	141
Jefferson	3	4,315	7	1,154	10	5,469
Shelby	1	165	2	122	3	286
Tuscaloosa	2	7,947	4	366	6	8,313
Walker	1	90	11	1,559	12	1,650
Winston	-	-	2	432	2	432
Alaska	-	-	1	1,502	1	1,502
Denali	-	-	1	1,502	1	1,502
Arizona	-	-	1	8,051	1	8,051
Navajo	-	-	1	8,051	1	8,051
Arkansas	1	87	1	7	2	94
Sebastian	1	87	1	7	2	94
Colorado	6	18,123	4	5,884	10	24,007
Delta	1	2,408	-	-	1	2,408
Gunnison	1	6,193	-	-	1	6,193
La Plata	1	971	-	-	1	971
Las Animas	1	10	-	-	1	10
Moffat	-	-	2	4,425	2	4,425
Montrose	-	-	1	284	1	284
Rio Blanco	1	1,883	1	1,175	2	3,058
Routt	1	6,659	-	-	1	6,659
Illinois	13	52,713	9	5,256	22	57,969
Franklin	1	9,098	-	-	1	9,098
Gallatin	-	-	1	1,919	1	1,919
Hamilton	1	1,737	-	-	1	1,737
Jackson	-	-	1	15	1	15
Macoupin	1	1,634	-	-	1	1,634
Montgomery	1	5,565	-	-	1	5,565
Perry	1	3,176	3	495	4	3,671
Randolph	1	2,479	2	1,183	3	3,661
Saline	3	13,272	1	794	4	14,066
Sangamon	1	2,141	-	-	1	2,141
Wabash	-	-	1	849	1	849
Washington	1	4,557	-	-	1	4,557
White	1	2,573	-	-	1	2,573
Williamson	1	6,482	-	-	1	6,482
Indiana	9	18,105	20	21,162	29	39,267
Clay	-	-	1	335	1	335
Daviess	-	-	2	1,128	2	1,128
Dubois	-	-	2	1,402	2	1,402
Gibson	3	7,610	3	2,641	6	10,252
Greene	1	96	-	-	1	96
Knox	3	6,028	2	246	5	6,273
Pike	1	1,321	4	1,785	5	3,107
Sullivan	1	3,050	1	8,446	2	11,496
Vigo	-	-	1	4	1	4
Warrick	-	-	4	5,174	4	5,174
Kansas	-	-	2	66	2	66
Bourbon	-	-	1	17	1	17
Linn	-	-	1	50	1	50
Kentucky	93	52,807	159	24,527	252	77,335
Bell	5	678	9	740	14	1,418
Breathitt	-	-	5	759	5	759
Clay	-	-	2	149	2	149

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Daviess	-	-	2	324	2	324
Elliott	-	-	1	9	1	9
Floyd	11	1,507	9	1,009	20	2,517
Harlan	12	3,184	8	1,562	20	4,746
Hopkins	4	11,995	-	-	4	11,995
Johnson	-	-	4	203	4	203
Knott	4	1,958	6	597	10	2,554
Knox	3	47	6	518	9	565
Laurel	-	-	3	19	3	19
Lawrence	1	358	7	422	8	780
Lee	-	-	1	2	1	2
Leslie	3	610	4	659	7	1,269
Letcher	6	964	12	785	18	1,749
Magoffin	-	-	4	1,204	4	1,204
Martin	3	1,729	5	491	8	2,220
McLean	1	221	-	-	1	221
Muhlenberg	2	3,626	-	-	2	3,626
Ohio	2	3,153	5	5,188	7	8,341
Perry	5	2,294	16	4,722	21	7,016
Pike	26	4,961	37	4,579	63	9,539
Rockcastle	-	-	1	44	1	44
Union	3	12,978	-	-	3	12,978
Webster	1	2,421	1	39	2	2,460
Whitley	1	125	10	488	11	612
Wolfe	-	-	1	16	1	16
Louisiana	-	-	2	2,605	2	2,605
De Soto	-	-	1	2,456	1	2,456
Natchitoches	-	-	1	148	1	148
Maryland	2	718	18	1,260	20	1,978
Allegany	1	426	9	980	10	1,405
Garrett	1	292	9	281	10	572
Mississippi	-	-	2	3,737	2	3,737
Choctaw	-	-	1	2,891	1	2,891
Kemper	-	-	1	846	1	846
Missouri	-	-	1	363	1	363
Bates	-	-	1	363	1	363
Montana	1	7,902	5	36,660	6	44,562
Big Horn	-	-	3	27,308	3	27,308
Musselshell	1	7,902	-	-	1	7,902
Richland	-	-	1	334	1	334
Rosebud	-	-	1	9,018	1	9,018
New Mexico	1	8,800	2	13,164	3	21,963
Mckinley	-	-	1	8,441	1	8,441
San Juan	1	8,800	1	4,723	2	13,522
North Dakota	-	-	4	29,157	4	29,157
McLean	-	-	1	7,986	1	7,986
Mercer	-	-	2	17,196	2	17,196
Oliver	-	-	1	3,976	1	3,976
Ohio	11	15,550	17	6,703	28	22,252
Belmont	1	4,696	1	336	2	5,032
Carroll	2	385	-	-	2	385
Guernsey	-	-	1	253	1	253
Harrison	2	1,235	3	2,032	5	3,267
Jackson	-	-	2	81	2	81
Jefferson	2	582	3	1,140	5	1,722
Monroe	1	6,685	-	-	1	6,685
Noble	-	-	1	423	1	423
Perry	2	1,757	1	642	3	2,399
Stark	-	-	1	415	1	415
Tuscarawas	1	210	2	1,097	3	1,307
Vinton	-	-	2	284	2	284

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Oklahoma	1	398	5	506	6	904
Haskell	-	-	2	73	2	73
Le Flore	1	398	1	182	2	580
Nowata	-	-	1	249	1	249
Okmulgee	-	-	1	2	1	2
Pennsylvania	51	52,912	171	7,998	222	60,910
Allegheny	-	-	2	10	2	10
Armstrong	8	1,998	3	96	11	2,093
Beaver	1	286	-	-	1	286
Bedford	-	-	1	156	1	156
Blair	-	-	1	19	1	19
Butler	-	-	1	60	1	60
Cambria	2	630	7	474	9	1,104
Carbon	-	-	1	41	1	41
Centre	-	-	1	98	1	98
Clarion	-	-	3	95	3	95
Clearfield	3	1,165	36	1,802	39	2,967
Columbia	-	-	3	46	3	46
Dauphin	1	10	-	-	1	10
Elk	-	-	4	88	4	88
Fayette	-	-	5	116	5	116
Greene	5	29,862	1	142	6	30,004
Huntingdon	-	-	1	4	1	4
Indiana	11	2,856	16	313	27	3,168
Jefferson	1	112	7	856	8	968
Lackawanna	-	-	2	6	2	6
Luzerne	-	-	5	400	5	400
Lycoming	-	-	1	191	1	191
Mercer	-	-	1	56	1	56
Northumberland	2	13	10	217	12	229
Schuylkill	5	71	32	1,031	37	1,101
Somerset	9	2,057	17	833	26	2,890
Venango	-	-	1	8	1	8
Washington	2	13,727	3	658	5	14,385
Westmoreland	1	126	6	184	7	310
Tennessee	3	622	4	218	7	839
Campbell	-	-	3	98	3	98
Claiborne	3	622	1	120	4	742
Texas	-	-	16	43,654	16	43,654
Atascosa	-	-	1	2,256	1	2,256
Freestone	-	-	1	3,270	1	3,270
Harrison	-	-	2	4,465	2	4,465
Hopkins	-	-	1	15	1	15
Lee	-	-	1	7,527	1	7,527
Leon	-	-	1	5,258	1	5,258
Limestone	-	-	1	9,460	1	9,460
Maverick	-	-	1	1	1	1
Panola	-	-	2	4,977	2	4,977
Robertson	-	-	1	1,959	1	1,959
Rusk	-	-	2	3,887	2	3,887
Titus	-	-	2	579	2	579
Utah	7	17,379	1	555	8	17,934
Carbon	4	7,695	-	-	4	7,695
Emery	2	3,145	-	-	2	3,145
Kane	-	-	1	555	1	555
Sevier	1	6,539	-	-	1	6,539
Virginia	38	11,067	31	3,992	69	15,059
Buchanan	20	5,747	11	1,476	31	7,224
Dickenson	8	2,820	6	645	14	3,466
Russell	-	-	1	280	1	280
Tazewell	2	562	4	762	6	1,325

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Wise	8	1,937	9	828	17	2,765
West Virginia	100	81,636	91	30,551	191	112,187
Barbour	1	1,017	1	10	2	1,026
Boone	13	5,862	12	7,974	25	13,836
Fayette	3	1,379	4	2,570	7	3,950
Greenbrier	4	465	5	742	9	1,207
Harrison	1	412	3	22	4	434
Kanawha	5	6,193	9	3,961	14	10,155
Logan	9	4,924	12	7,308	21	12,232
Marion	2	13,271	3	170	5	13,441
Marshall	2	16,964	-	-	2	16,964
Mcdowell	22	2,161	17	1,169	39	3,330
Mercer	-	-	1	224	1	224
Mineral	-	-	2	6	2	6
Mingo	7	1,510	5	3,134	12	4,645
Monongalia	3	4,197	2	56	5	4,253
Nicholas	3	619	1	33	4	652
Ohio	1	5,627	-	-	1	5,627
Raleigh	9	4,133	6	2,017	15	6,150
Taylor	1	2,713	1	-	2	2,714
Tucker	1	1,921	1	5	2	1,926
Upshur	1	378	1	27	2	405
Wayne	1	2,308	1	21	2	2,329
Webster	4	1,020	1	1,043	5	2,062
Wyoming	7	4,561	3	58	10	4,620
Wyoming	1	3,370	17	392,295	18	395,665
Campbell	-	-	11	348,183	11	348,183
Converse	-	-	1	33,647	1	33,647
Hot Springs	-	-	1	13	1	13
Lincoln	-	-	1	4,399	1	4,399
Sweetwater	1	3,370	2	6,008	3	9,378
Uinta	-	-	1	45	1	45
U.S. Subtotal	345	354,704	613	643,721	958	998,425
Refuse Recovery	-	-	-	-	27	1,624
U.S. Total	345	354,704	613	643,721	985	1,000,049

- = 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 3. Underground Coal Production by State and Mining Method, 2014

(thousand short tons)

Coal-Producing State and Region ¹	Continuous ²	Conventional and Other ³	Longwall ⁴	Total
Alabama	435	-	12,081	12,516
Arkansas	87	-	-	87
Colorado	971	10	17,142	18,123
Illinois	16,944	1,634	34,136	52,713
Indiana	18,105	-	-	18,105
Kentucky Total	49,882	2,926	-	52,807
Kentucky (East)	17,989	425	-	18,414
Kentucky (West)	31,893	2,501	-	34,393
Maryland	718	-	-	718
Montana	-	-	7,902	7,902
New Mexico	-	-	8,800	8,800
Ohio	4,157	11	11,381	15,550
Oklahoma	398	-	-	398
Pennsylvania Total	10,857	83	41,971	52,912
Pennsylvania (Anthracite)	47	46	-	93
Pennsylvania (Bituminous)	10,810	37	41,971	52,819
Tennessee	622	-	-	622
Utah	2,067	-	15,312	17,379
Virginia	6,961	64	4,042	11,067
West Virginia Total	30,371	450	50,816	81,636
West Virginia (Northern)	3,744	412	43,364	47,520
West Virginia (Southern)	26,626	38	7,452	34,116
Wyoming	-	-	3,370	3,370
Appalachia Total	72,110	1,034	120,291	193,434
Appalachia Central	52,197	527	11,494	64,219
Appalachia Northern	19,477	507	96,715	116,699
Appalachia Southern	435	-	12,081	12,516
Interior Region Total	67,426	4,135	34,136	105,697
Illinois Basin	66,941	4,135	34,136	105,212
Other Interior	485	-	-	485
Western Region Total	3,038	10	52,526	55,573
Uinta Basin	2,067	-	32,455	34,522
Other Western	971	10	20,071	21,052
East of Mississippi River	139,051	5,168	154,426	298,646
West of Mississippi River	3,523	10	52,526	56,058
U.S. Total	142,574	5,178	206,952	354,704

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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

(thousand short tons)

Coal Thickness (inches)	Underground	Surface	Total
Under 7	-	922	922
7 - Under 13	-	2,518	2,518
13 - Under 19	343	6,236	6,579
19 - Under 25	197	11,075	11,273
25 - Under 31	2,693	10,632	13,324
31 - Under 37	15,604	14,557	30,161
37 - Under 43	20,075	13,504	33,580
43 - Under 49	21,795	12,769	34,563
49 - Under 55	16,584	18,910	35,494
55 - Under 61	39,080	8,742	47,822
61 - Under 67	41,196	11,101	52,297
67 - Under 73	24,385	13,841	38,225
73 - Under 79	54,655	5,569	60,224
79 - Under 85	25,525	2,693	28,218
85 - Under 91	20,734	5,431	26,166
91 - Under 97	18,995	3,095	22,090
97 - Under 103	2,514	1,470	3,984
103 - Under 109	10,074	7,392	17,466
109 - Under 115	335	11,886	12,220
115 - 120	18,318	11,495	29,813
Over 120	21,236	467,992	489,229
Unknown *	367	1,890	3,880
U.S. Total	354,704	643,721	1,000,049

* 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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

Coalbed ID Number ¹ Coalbed Name	Production (thousand short tons)			Thickness (inches)			
	Underground	Surface	Total	Average ²	Low	High	
1699	Wyodak	-	357,667	357,667	774	160	900
0212	Pittsburgh	57,806	561	58,368	81	11	108
0489	No. 9	45,919	11,551	57,470	63	24	81
0484	Herrin (Illinois No. 6)	52,726	3,238	55,964	72	46	85
0036	Pittsburgh	34,687	3,073	37,760	72	18	84
1696	Anderson-Dietz 1-Dietz 2	-	19,556	19,556	926	660	960
1569	Beulah-Zap	-	17,085	17,085	195	114	210
0084	Lower Kittanning	8,096	5,140	13,236	56	10	95
1808	Rosebud	-	12,756	12,756	250	186	276
1787	Roland	-	12,094	12,094	464	384	495
1701	Smith	-	12,069	12,069	912	912	912
0280	Blue Creek	11,738	190	11,928	50	12	52
1570	Hagel	-	10,769	10,769	137	135	144
1488	Fruitland No. 8	8,800	1,322	10,122	156	64	162
0344	Pocahontas No. 3	9,840	-	9,840	61	35	84
0103	Stockton-Lewiston	3,082	6,293	9,375	73	10	125
0111	Coalburg	510	8,648	9,158	71	5	124
0204	Mammoth	7,902	25	7,927	108	50	108
0168	Lower Elkhorn	6,233	985	7,218	45	16	76
1003	Menefee Formation	971	6,246	7,217	103	17	113
0506	No. 6	6,470	381	6,851	81	45	89
0176	Eagle	5,940	780	6,719	40	19	50
1750	Wadge	6,659	-	6,659	121	121	121
1847	Upper Hiawatha	6,539	-	6,539	120	120	120
1756	E	6,193	-	6,193	120	120	120
Major Coalbeds Total		280,111	490,428	770,539	447	5	960
Other Coalbeds		74,227	151,403	225,630	81	4	540
Unknown *		367	1,890	3,880	NA	NA	NA
U.S. Total		354,704	643,721	1,000,049	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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

(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	36	16,363	-	-	-	-	-	-	36	16,363
Alaska	-	-	1	1,502	-	-	-	-	1	1,502
Arizona	1	8,051	-	-	-	-	-	-	1	8,051
Arkansas	2	94	-	-	-	-	-	-	2	94
Colorado	8	19,582	2	4,425	-	-	-	-	10	24,007
Illinois	22	57,969	-	-	-	-	-	-	22	57,969
Indiana	29	39,267	-	-	-	-	-	-	29	39,267
Kansas	2	66	-	-	-	-	-	-	2	66
Kentucky Total	252	77,335	-	-	-	-	-	-	252	77,335
Kentucky (East)	231	37,390	-	-	-	-	-	-	231	37,390
Kentucky (West)	21	39,945	-	-	-	-	-	-	21	39,945
Louisiana	-	-	-	-	2	2,605	-	-	2	2,605
Maryland	20	1,978	-	-	-	-	-	-	20	1,978
Mississippi	-	-	-	-	2	3,737	-	-	2	3,737
Missouri	1	363	-	-	-	-	-	-	1	363
Montana	1	7,902	4	36,326	1	334	-	-	6	44,562
New Mexico	2	17,240	1	4,723	-	-	-	-	3	21,963
North Dakota	-	-	-	-	4	29,157	-	-	4	29,157
Ohio	28	22,252	-	-	-	-	-	-	28	22,252
Oklahoma	6	904	-	-	-	-	-	-	6	904
Pennsylvania Total	161	59,076	-	-	-	-	61	1,833	222	60,910
Pennsylvania (Anthracite)	-	-	-	-	-	-	61	1,833	61	1,833
Pennsylvania (Bituminous)	161	59,076	-	-	-	-	-	-	161	59,076
Tennessee	7	839	-	-	-	-	-	-	7	839
Texas	-	-	-	-	16	43,654	-	-	16	43,654
Utah	8	17,934	-	-	-	-	-	-	8	17,934
Virginia	69	15,059	-	-	-	-	-	-	69	15,059
West Virginia Total	191	112,187	-	-	-	-	-	-	191	112,187
West Virginia (Northern)	32	48,858	-	-	-	-	-	-	32	48,858
West Virginia (Southern)	159	63,329	-	-	-	-	-	-	159	63,329
Wyoming	1	4,018	17	391,647	-	-	-	-	18	395,665
Appalachia Total	743	265,146	-	-	-	-	61	1,833	804	266,979
Appalachia Central	466	116,617	-	-	-	-	-	-	466	116,617
Appalachia Northern	241	132,165	-	-	-	-	61	1,833	302	133,998
Appalachia Southern	36	16,363	-	-	-	-	-	-	36	16,363
Interior Region Total	83	138,608	-	-	20	49,996	-	-	103	188,604
Illinois Basin	72	137,181	-	-	-	-	-	-	72	137,181
Other Interior	11	1,427	-	-	20	49,996	-	-	31	51,423
Western Region Total	21	74,727	25	438,624	5	29,491	-	-	51	542,842
Powder River Basin	-	-	16	418,156	-	-	-	-	16	418,156
Uinta Basin	12	35,697	2	4,425	-	-	-	-	14	40,122
Other Western	9	39,030	7	16,042	5	29,491	-	-	21	84,563
East of Mississippi River	815	402,327	-	-	2	3,737	61	1,833	878	407,897
West of Mississippi River	32	76,155	25	438,624	23	75,750	-	-	80	590,528
U.S. Subtotal	847	478,481	25	438,624	25	79,487	61	1,833	958	998,425
Refuse Recovery	20	1,510	-	-	-	-	7	114	27	1,624
U.S. Total	867	479,991	25	438,624	25	79,487	68	1,947	985	1,000,049

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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

(thousand short tons)

Coal-Producing State and Region ¹	Union		Nonunion		Total	
	Underground	Surface	Underground	Surface	Underground	Surface
Alabama	12,081	327	435	3,486	12,516	3,813
Alaska	-	1,502	-	-	-	1,502
Arizona	-	8,051	-	-	-	8,051
Arkansas	-	-	87	-	87	-
Colorado	1,883	2,227	16,231	3,657	18,113	5,884
Illinois	-	-	52,713	5,241	52,713	5,241
Indiana	-	-	18,105	21,149	18,105	21,149
Kansas	-	-	-	50	-	50
Kentucky Total	2,919	-	49,788	23,967	52,707	23,967
Kentucky (East)	187	-	18,127	18,430	18,314	18,430
Kentucky (West)	2,732	-	31,661	5,537	34,393	5,537
Louisiana	-	-	-	2,605	-	2,605
Maryland	-	-	718	1,205	718	1,205
Mississippi	-	-	-	3,737	-	3,737
Missouri	-	-	-	363	-	363
Montana	-	19,322	7,902	17,338	7,902	36,660
New Mexico	8,800	4,723	-	8,441	8,800	13,164
North Dakota	-	6,739	-	22,418	-	29,157
Ohio	4,696	-	10,842	6,671	15,538	6,671
Oklahoma	-	-	398	495	398	495
Pennsylvania Total	15,919	565	36,862	6,701	52,782	7,266
Pennsylvania (Anthracite)	-	489	-	984	-	1,474
Pennsylvania (Bituminous)	15,919	76	36,862	5,717	52,782	5,792
Tennessee	-	-	622	217	622	217
Texas	-	29,700	-	13,934	-	43,634
Utah	2,089	-	15,290	555	17,379	555
Virginia	376	-	10,626	3,908	11,002	3,908
West Virginia Total	37,469	3,061	44,117	27,192	81,586	30,253
West Virginia (Northern)	33,102	-	14,418	1,264	47,520	1,264
West Virginia (Southern)	4,367	3,061	29,699	25,928	34,066	28,989
Wyoming	3,370	6,390	-	385,893	3,370	392,282
Appalachia Total	70,728	3,953	122,349	67,812	193,077	71,765
Appalachia Central	4,930	3,061	59,073	48,484	64,004	51,545
Appalachia Northern	53,717	565	62,840	15,842	116,557	16,407
Appalachia Southern	12,081	327	435	3,486	12,516	3,813
Interior Region Total	2,732	29,700	102,965	53,110	105,697	82,811
Illinois Basin	2,732	-	102,480	31,927	105,212	31,927
Other Interior	-	29,700	485	21,184	485	50,884
Western Region Total	16,141	48,953	39,422	438,302	55,563	487,256
Powder River Basin	-	18,988	-	399,168	-	418,156
Uinta Basin	3,972	1,944	30,550	3,657	34,522	5,601
Other Western	12,169	28,022	8,873	35,477	21,042	63,499
East of Mississippi River	73,461	3,953	224,828	103,475	298,289	107,429
West of Mississippi River	16,141	78,654	39,907	455,749	56,048	534,403
U.S. Subtotal	89,602	82,607	264,736	559,225	354,337	641,831
Unknown *	-	-	-	-	367	1,890
U.S. Total	89,602	82,607	264,736	559,225	354,704	643,721

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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

(thousand short tons)

Coal-Producing State	Open Market Sales ¹	Captive Sales / Transactions ²	Exports ³	Total
Alabama	5,310	-	12,049	17,359
Alaska	954	-	554	1,508
Arizona	8,182	-	-	8,182
Arkansas	1	104	9	114
Colorado	10,602	11,844	2,089	24,536
Illinois	39,533	6,139	10,170	55,842
Indiana	22,946	15,470	85	38,501
Kansas	50	-	-	50
Kentucky Total	71,027	206	3,293	74,525
Kentucky (East)	31,077	206	3,201	34,483
Kentucky (West)	39,950	-	92	40,043
Louisiana	2,605	-	-	2,605
Maryland	1,877	-	101	1,979
Mississippi	2,628	-	-	2,628
Missouri	363	-	-	363
Montana	32,345	12,343	-	44,688
New Mexico	11,831	7,499	-	19,329
North Dakota	24,788	3,876	-	28,664
Ohio	20,078	2,090	-	22,168
Oklahoma	924	-	-	924
Pennsylvania Total	51,783	2,706	5,323	59,812
Pennsylvania (Anthracite)	1,476	220	70	1,766
Pennsylvania (Bituminous)	50,307	2,486	5,253	58,046
Tennessee	836	-	-	836
Texas	12,015	32,281	-	44,296
Utah	12,679	2,357	2,788	17,824
Virginia	8,190	156	6,748	15,094
West Virginia Total	74,315	7,463	29,250	111,028
West Virginia (Northern)	34,974	6,357	6,817	48,148
West Virginia (Southern)	39,341	1,106	22,433	62,880
Wyoming	259,054	135,499	824	395,377
U.S. Subtotal	674,915	240,032	73,283	988,230
Other Exports *	-	-	23,973	23,973
U.S. Total **	674,915	240,032	97,257	1,012,204

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, 'Annual Survey of Coal Production and Preparation.'

Table 9. Major U.S. Coal Mines, 2014

Rank	Mine Name / Operating Company	Mine Type	State	Production (short tons)
1	North Antelope Rochelle Mine / Peabody Powder River Mining LLC	Surface	Wyoming	117,965,515
2	Black Thunder / Thunder Basin Coal Company LLC	Surface	Wyoming	101,016,860
3	Cordero Mine / Cordero Mining LLC	Surface	Wyoming	34,809,101
4	Antelope Coal Mine / Antelope Coal LLC	Surface	Wyoming	33,646,960
5	Eagle Butte Mine / Alpha Coal West, Inc.	Surface	Wyoming	20,690,237
6	Spring Creek Coal Company / Spring Creek Coal LLC	Surface	Montana	17,338,424
7	Belle Ayr Mine / Alpha Coal West, Inc.	Surface	Wyoming	15,796,556
8	Rawhide Mine / Peabody Caballo Mining, LLC	Surface	Wyoming	15,473,474
9	Buckskin Mine / Buckskin Mining Company	Surface	Wyoming	15,334,726
10	Freedom Mine / The Coteau Properties Company	Surface	North Dakota	14,432,335
11	Bailey Mine / Consol Pennsylvania Coal Company	Underground	Pennsylvania	12,324,680
12	Enlow Fork Mine / Consol Pennsylvania Coal Company	Underground	Pennsylvania	10,556,826
13	McElroy Mine / McElroy Coal Company	Underground	West Virginia	10,378,940
14	Kosse Strip / Luminant Mining Company LLC	Surface	Texas	9,460,227
15	Coal Creek Mine / Thunder Basin Coal Company LLC	Surface	Wyoming	9,414,483
16	River View Mine / River View Coal LLC	Underground	Kentucky	9,340,286
17	Mc#1 Mine / M-Class Mining LLC	Underground	Illinois	9,097,628
18	Rosebud Mine&crusher/Conveyor / Western Energy Company	Surface	Montana	9,018,465
19	San Juan Mine 1 / San Juan Coal Company	Underground	New Mexico	8,799,554
20	Bear Run Mine / Peabody Bear Run Mining LLC	Surface	Indiana	8,446,135
21	El Segundo / Peabody New Mexico Services	Surface	New Mexico	8,440,886
22	Kayenta Mine / Peabody Western Coal Company	Surface	Arizona	8,050,607
23	Caballo Mine / Peabody Caballo Mining, LLC	Surface	Wyoming	7,990,986
24	Falkirk Mine / Falkirk Mining Company	Surface	North Dakota	7,985,648
25	Bull Mountains Mine No 1 / Signal Peak Energy LLC	Underground	Montana	7,901,784
26	Three Oaks / Luminant Mining Company LLC	Surface	Texas	7,527,358
27	Cumberland Mine / Cumberland Coal Resources LP	Underground	Pennsylvania	7,388,082
28	Robinson Run No 95 / Consolidation Coal Company	Underground	West Virginia	6,703,392
29	Century Mine / American Energy Corporation	Underground	Ohio	6,684,695
30	Foidel Creek Mine / Peabody Twentymile Mining LLC	Underground	Colorado	6,659,492
31	Shoemaker Mine / Consolidation Coal Company	Underground	West Virginia	6,584,921
32	Loveridge #22 / Consolidation Coal Company	Underground	West Virginia	6,567,666
33	Absaloka Mine / Westmoreland Resources Inc.	Surface	Montana	6,557,844
34	Sufco / Canyon Fuel Company LLC	Underground	Utah	6,539,322
35	Mach #1 Mine / Mach Mining LLC	Underground	Illinois	6,482,276
36	West Elk Mine / Mountain Coal Company, L.L.C.	Underground	Colorado	6,192,656
37	New Future Mine / The American Coal Company	Underground	Illinois	5,744,296
38	Tunnel Ridge Mine / Tunnel Ridge, LLC	Underground	West Virginia	5,627,411
39	Deer Run Mine / Patton Mining LLC	Underground	Illinois	5,564,836
40	The American Coal Company New / The American Coal Company	Underground	Illinois	5,509,709
41	Dry Fork Mine / Western Fuels-Wyoming Inc	Surface	Wyoming	5,373,973
42	Jewett Mine / Texas Westmoreland Coal Co.	Surface	Texas	5,257,740
43	No 7 Mine / Jim Walter Resources Inc	Underground	Alabama	5,226,007
44	Navajo Mine / BHP Billiton Mine Management	Surface	New Mexico	4,722,871
45	Powhatan No. 6 Mine / The Ohio Valley Coal Company	Underground	Ohio	4,696,014
46	Blacksville No 2 / Consolidation Coal Company	Underground	Pennsylvania	4,579,784
47	Lively Grove Mine / Prairie State Generating Company	Underground	Illinois	4,556,865
48	Cardinal / Warrior Coal LLC	Underground	Kentucky	4,503,914
49	South Hallsville No 1 Mine / The Sabine Mining Company	Surface	Texas	4,461,433
50	Kemmerer Mine / Westmoreland Kemmerer Inc	Surface	Wyoming	4,399,253
51	Wyodak Mine / Wyodak Resources Development Corp	Surface	Wyoming	4,317,023
52	Skyline Mine #3 / Canyon Fuel Company LLC	Underground	Utah	4,170,162
53	Buchanan Mine #1 / Consol Buchanan Mining Company	Underground	Virginia	4,041,701
54	Black Butte And Leucite Hills / Black Butte Coal Company	Surface	Wyoming	4,017,845
Subtotal				684,369,864
All Other Mines				315,678,894
U.S. Total				1,000,048,758

Note: Major mines are mines that produced more than 4 million short tons in 2014. Company listed indicates the firm operating the mine.

Table 10. Major U.S. Coal Producers, 2014

Rank	Controlling Company Name	Production (thousand short tons)	Percent of Total Production
1	Peabody Energy Corp	189,531	19.0
2	Arch Coal Inc	135,801	13.6
3	Cloud Peak Energy	85,794	8.6
4	Alpha Natural Resources	80,153	8.0
5	Murray Energy Corp	62,815	6.3
6	Alliance Resource Partners LP	40,964	4.1
7	Westmoreland Coal Company	35,580	3.6
8	CONSOL Energy Inc	32,191	3.2
9	NACCO Industries Inc	31,618	3.2
10	Energy Future Holdings Corporation	29,715	3.0
11	Coalfield Transport Inc	22,779	2.3
12	Patriot Coal Corporation	19,743	2.0
13	Kiewit Peter Sons' Inc	17,591	1.8
14	Bowie Resources Partners LLC	13,793	1.4
15	Brent K Bilisland	10,138	1.0
16	Armstrong Energy Inc	9,323	0.9
17	Walter Energy Incorporated	9,194	0.9
18	J Clifford Forrest	9,183	0.9
19	RWE Trading Americas Inc	9,074	0.9
20	BHP Billiton	8,800	0.9
21	Western Fuels Assoc Inc	8,139	0.8
22	Global Mining Group LLC	7,902	0.8
23	MidAmerican Energy Holdings Co	7,449	0.7
24	Cliffs Natural Resources Inc	5,078	0.5
	Subtotal	882,350	88.2
	All Other Coal Producers	117,699	11.8
	U.S. Total	1,000,049	100.0

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

(thousand short tons)

Coal-Producing State	2014			2013			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	13,915	5,530	19,445	15,121	7,633	22,754	-8.0	-27.6	-14.5
Alaska	-	3,000	3,000	-	3,000	3,000	-	-	-
Arizona	-	8,500	8,500	-	8,500	8,500	-	-	-
Arkansas	240	-	240	240	-	240	-	-	-
Colorado	23,200	6,642	29,842	24,544	6,410	30,954	-5.5	3.6	-3.6
Illinois	68,336	8,008	76,344	61,346	8,786	70,132	11.4	-8.9	8.9
Indiana	21,130	28,274	49,404	18,822	28,613	47,436	12.3	-1.2	4.1
Kansas	-	65	65	-	-	-	-	-	-
Kentucky Total	64,940	32,921	97,861	65,540	37,074	102,614	-0.9	-11.2	-4.6
Kentucky (East)	23,700	25,651	49,351	24,985	27,561	52,545	-5.1	-6.9	-6.1
Kentucky (West)	41,240	7,270	48,510	40,556	9,513	50,069	1.7	-23.6	-3.1
Louisiana	-	3,274	3,274	-	3,263	3,263	-	0.3	0.3
Maryland	837	1,874	2,711	1,033	1,806	2,839	-19.0	3.8	-4.5
Mississippi	-	8,700	8,700	-	8,700	8,700	-	-	-
Missouri	-	378	378	-	444	444	-	-14.9	-14.9
Montana	10,000	41,900	51,900	10,000	46,070	56,070	-	-9.1	-7.4
New Mexico	9,000	18,400	27,400	7,200	20,500	27,700	25.0	-10.2	-1.1
North Dakota	-	32,828	32,828	-	32,600	32,600	-	0.7	0.7
Ohio	22,293	23,037	45,330	22,012	23,089	45,100	1.3	-0.2	0.5
Oklahoma	500	700	1,200	500	808	1,308	-	-13.4	-8.3
Pennsylvania Total	56,699	10,914	67,613	53,491	12,149	65,640	6.0	-10.2	3.0
Pennsylvania (Anthracite)	101	3,339	3,440	160	3,535	3,695	-36.9	-5.5	-6.9
Pennsylvania (Bituminous)	56,598	7,575	64,173	53,330	8,615	61,945	6.1	-12.1	3.6
Tennessee	641	311	952	759	798	1,557	-15.5	-61.0	-38.9
Texas	-	45,824	45,824	-	44,790	44,790	-	2.3	2.3
Utah	22,313	2,000	24,313	22,289	753	23,041	0.1	165.6	5.5
Virginia	12,413	6,096	18,509	13,282	6,924	20,205	-6.5	-12.0	-8.4
West Virginia Total	98,157	40,665	138,822	95,036	39,650	134,686	3.3	2.6	3.1
West Virginia (Northern)	53,574	1,474	55,049	45,589	1,611	47,201	17.5	-8.5	16.6
West Virginia (Southern)	44,583	39,190	83,773	49,447	38,038	87,485	-9.8	3.0	-4.2
Wyoming	5,000	484,262	489,262	4,700	493,701	498,401	6.4	-1.9	-1.8
U.S. Total	429,614	814,102	1,243,716	415,914	836,060	1,251,974	3.3	-2.6	-0.7

- = 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, 'Annual Survey of Coal Production and Preparation.' 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, 'Annual Survey of Coal Production and Preparation.'

Table 12. Capacity Utilization of Coal Mines by State, 2014 and 2013

(percent)

Coal-Producing State	2014			2013		
	Underground	Surface	Total	Underground	Surface	Total
Alabama	89.95	68.96	83.98	89.38	66.73	81.78
Alaska	-	50.06	50.06	-	54.39	54.39
Arizona	-	94.71	94.71	-	89.44	89.44
Arkansas	36.25	-	36.25	22.75	-	22.75
Colorado	78.07	88.60	80.42	79.11	75.20	78.30
Illinois	77.14	65.64	75.93	75.71	64.62	74.32
Indiana	85.68	74.83	79.47	89.37	77.81	82.40
Kansas	-	76.77	76.77	-	-	-
Kentucky Total	81.16	72.80	78.35	83.16	68.13	77.73
Kentucky (East)	77.27	71.85	74.46	77.87	70.61	74.06
Kentucky (West)	83.40	76.15	82.31	86.42	60.97	81.58
Louisiana	-	79.56	79.56	-	86.10	86.10
Maryland	85.82	64.31	70.95	64.92	66.66	66.03
Mississippi	-	42.96	42.96	-	41.09	41.09
Missouri	-	96.02	96.02	-	93.26	93.26
Montana	79.02	87.49	85.86	86.83	72.82	75.32
New Mexico	97.77	71.54	80.16	83.19	77.95	79.31
North Dakota	-	88.82	88.82	-	84.78	84.78
Ohio	69.70	28.99	49.01	79.17	33.20	55.63
Oklahoma	79.61	70.79	74.46	88.38	80.85	83.73
Pennsylvania Total	93.21	68.20	89.17	84.34	67.27	81.18
Pennsylvania (Anthracite)	65.02	48.74	49.22	42.03	52.51	52.06
Pennsylvania (Bituminous)	93.26	76.77	91.31	84.47	73.33	82.92
Tennessee	97.02	69.89	88.15	96.12	40.91	67.83
Texas	-	95.22	95.22	-	95.67	95.67
Utah	77.89	27.76	73.76	72.83	98.45	73.66
Virginia	88.64	64.11	80.56	90.99	63.19	81.46
West Virginia Total	83.13	74.40	80.57	82.80	84.96	83.43
West Virginia (Northern)	88.70	85.74	88.62	89.65	88.58	89.61
West Virginia (Southern)	76.44	73.97	75.28	76.48	84.80	80.10
Wyoming	67.39	81.01	80.87	94.52	77.67	77.83
U.S. Total	82.50	78.86	80.12	82.05	76.49	78.33

- = 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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

(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	510	85.35	-	-	13,405	90.12	13,915	89.95
Arkansas	240	36.25	-	-	-	-	240	36.25
Colorado	1,000	97.08	-	-	22,200	77.22	23,200	78.07
Illinois	20,226	83.77	3,000	54.46	45,110	75.67	68,336	77.14
Indiana	21,130	85.68	-	-	-	-	21,130	85.68
Kentucky Total	61,697	80.85	3,243	87.13	-	-	64,940	81.16
Kentucky (East)	23,207	77.51	493	65.90	-	-	23,700	77.27
Kentucky (West)	38,490	82.86	2,750	90.93	-	-	41,240	83.40
Maryland	837	85.82	-	-	-	-	837	85.82
Montana	-	-	-	-	10,000	79.02	10,000	79.02
New Mexico	-	-	-	-	9,000	97.77	9,000	97.77
Ohio	5,593	74.33	-	-	16,700	68.15	22,293	69.70
Oklahoma	500	79.61	-	-	-	-	500	79.61
Pennsylvania Total	13,608	79.78	25	75.33	43,066	97.46	56,699	93.21
Pennsylvania (Anthracite)	76	61.62	25	75.33	-	-	101	65.02
Pennsylvania (Bituminous)	13,532	79.89	-	-	43,066	97.46	56,598	93.26
Tennessee	641	97.02	-	-	-	-	641	97.02
Utah	2,213	93.38	-	-	20,100	76.18	22,313	77.89
Virginia	8,365	83.21	-	-	4,048	99.85	12,413	88.64
West Virginia Total	41,465	73.24	460	89.53	56,232	90.37	98,157	83.13
West Virginia (Northern)	5,014	74.68	460	89.53	48,100	90.15	53,574	88.70
West Virginia (Southern)	36,451	73.05	-	-	8,132	91.64	44,583	76.44
Wyoming	-	-	-	-	5,000	67.39	5,000	67.39
U.S. Total	178,024	80.09	6,728	72.68	244,862	84.52	429,614	82.50

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, 'Annual Survey of Coal Production and Preparation,' 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, 2014 and 2013

(million short tons)

Coal-Producing State	2014		2013		Percent Change Recoverable Coal Reserves
	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	
Alabama	228	46.00	383	33.45	-40.4
Alaska	53	85.00	54	85.00	-3.0
Arizona	216	90.00	224	90.00	-3.6
Arkansas	25	60.00	25	60.00	-1.8
Colorado	333	76.35	371	76.01	-10.3
Illinois	2,463	59.16	2,552	61.44	-3.5
Indiana	646	67.05	656	67.63	-1.4
Kansas	s	90.00	-	-	-
Kentucky Total	889	57.71	1,055	58.66	-15.7
Kentucky (East)	360	51.23	452	53.09	-20.5
Kentucky (West)	529	62.12	603	62.85	-12.2
Louisiana	92	92.16	115	90.38	-19.3
Maryland	22	79.28	21	71.02	1.4
Mississippi	698	90.35	701	90.00	-0.5
Missouri	1	100.00	1	100.00	-6.4
Montana	858	90.75	851	90.15	0.8
New Mexico	186	87.18	342	87.53	-45.6
North Dakota	1,003	90.17	1,087	90.42	-7.7
Ohio	379	59.49	401	60.02	-5.6
Oklahoma	9	63.10	9	63.82	-7.7
Pennsylvania Total	1,256	73.95	577	62.79	117.5
Pennsylvania (Anthracite)	122	39.82	127	40.89	-4.2
Pennsylvania (Bituminous)	1,133	77.62	450	68.99	152.0
Tennessee	1	46.08	3	55.89	-58.6
Texas	703	93.34	704	93.50	-0.2
Utah	97	73.38	157	64.64	-38.4
Virginia	253	59.16	261	58.22	-2.8
West Virginia Total	2,028	64.17	1,714	57.31	18.3
West Virginia (Northern)	943	67.43	473	59.43	99.4
West Virginia (Southern)	1,085	61.34	1,241	56.50	-12.6
Wyoming	6,913	92.02	7,481	92.15	-7.6
U.S. Total	19,351	79.04	19,746	78.51	-2.0

- = No data reported.

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

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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

(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	213	399	791	16	2,222	3,119	228	2,621	3,911
Alaska	-	2,335	5,423	53	483	668	53	2,818	6,091
Arizona	-	-	-	216	-	-	216	-	-
Arkansas	25	126	271	-	101	144	25	228	416
Colorado	207	5,766	10,987	126	3,742	4,756	333	9,508	15,743
Georgia	-	1	2	-	1	2	-	2	4
Idaho	-	2	4	-	-	-	-	2	4
Illinois	2,426	27,729	87,294	37	10,035	16,489	2,463	37,764	103,783
Indiana	295	3,515	8,486	351	286	490	646	3,801	8,976
Iowa	-	807	1,732	-	320	457	-	1,127	2,189
Kansas	-	-	-	s	679	970	-	679	970
Kentucky Total	767	6,845	15,915	122	7,230	12,520	889	14,075	28,435
Kentucky (East)	293	317	568	66	5,003	8,960	360	5,320	9,528
Kentucky (West)	474	6,528	15,347	55	2,227	3,560	529	8,755	18,907
Louisiana	-	-	-	92	283	382	92	283	382
Maryland	8	307	561	14	31	45	22	338	606
Michigan	-	55	123	-	3	5	-	58	128
Mississippi	-	-	-	698	-	-	698	-	-
Missouri	-	689	1,479	1	3,154	4,506	1	3,843	5,985
Montana	240	35,889	70,891	618	38,666	47,839	858	74,555	118,730
New Mexico	16	2,749	6,043	169	4,048	5,782	186	6,797	11,826
North Carolina	-	5	11	-	-	-	-	5	11
North Dakota	-	-	-	1,003	6,657	8,726	1,003	6,657	8,726
Ohio	332	7,585	17,240	47	3,705	5,661	379	11,290	22,901
Oklahoma	8	570	1,223	1	220	314	9	790	1,537
Oregon	-	6	15	-	2	3	-	9	17
Pennsylvania Total	1,088	10,232	22,326	167	973	4,134	1,256	11,205	26,460
Pennsylvania (Anthracite)	1	340	3,841	121	418	3,337	122	757	7,178
Pennsylvania (Bituminous)	1,087	9,892	18,485	46	555	797	1,133	10,448	19,283
South Dakota	-	-	-	-	277	366	-	277	366
Tennessee	1	273	497	s	171	252	1	443	749
Texas	-	-	-	703	9,169	11,911	703	9,169	11,911
Utah	95	2,332	4,757	2	210	265	97	2,542	5,023
Virginia	230	491	874	23	306	477	253	796	1,351
Washington	-	674	1,332	-	6	8	-	681	1,340
West Virginia Total	1,554	14,778	27,689	475	2,013	3,190	2,028	16,790	30,879
West Virginia (Northern)	937	NA	NA	7	NA	NA	943	NA	NA
West Virginia (Southern)	617	NA	NA	468	NA	NA	1,085	NA	NA
Wyoming	35	22,918	42,441	6,878	13,683	16,525	6,913	36,601	58,966
U.S. Total	7,542	147,079	328,410	11,810	108,676	150,005	19,351	255,755	478,415

-- No data reported.

NA = Not Available.

s = Value is less than 0.5 of the table metric.

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, 2015.' 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, 2014. 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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

(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	47.90	-	-	203	43.35	213	43.56
Arkansas	25	60.00	-	-	-	-	25	60.00
Colorado	9	60.00	-	-	199	71.41	207	70.94
Illinois	382	50.55	69	59.00	1,976	60.44	2,426	58.84
Indiana	295	55.84	-	-	-	-	295	55.84
Kentucky Total	705	52.57	63	61.93	-	-	767	53.34
Kentucky (East)	292	44.35	1	59.04	-	-	293	44.42
Kentucky (West)	413	58.40	61	62.00	-	-	474	58.86
Maryland	8	52.31	-	-	-	-	8	52.31
Montana	-	-	-	-	240	80.00	240	80.00
New Mexico	-	-	-	-	16	48.00	16	48.00
Ohio	222	51.95	-	-	110	64.88	332	56.23
Oklahoma	8	60.00	-	-	-	-	8	60.00
Pennsylvania Total	158	59.36	1	60.00	930	80.10	1,088	77.08
Pennsylvania (Anthracite)	s	70.00	1	60.00	-	-	1	62.23
Pennsylvania (Bituminous)	157	59.34	-	-	930	80.10	1,087	77.09
Tennessee	1	42.00	-	-	-	-	1	42.00
Utah	44	87.21	-	-	51	60.75	95	72.99
Virginia	136	50.74	-	-	95	66.00	230	57.00
West Virginia Total	583	46.47	8	38.00	963	67.96	1,554	59.75
West Virginia (Northern)	47	47.09	8	38.00	882	68.66	937	67.33
West Virginia (Southern)	536	46.41	-	-	81	60.37	617	48.24
Wyoming	-	-	-	-	35	55.00	35	55.00
U.S. Total	2,585	52.22	140	59.19	4,817	66.58	7,542	61.52

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.

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. 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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

(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	6,295	63.56	10,599	91.28	16,894	80.95
Over 500 to 1,000	504	47.03	692	88.31	1,197	70.91
Over 200 to 500	535	54.76	235	74.17	770	60.68
Over 100 to 200	66	57.17	184	66.42	249	63.98
Over 50 to 100	113	50.47	60	71.28	173	57.69
Over 10 to 50	29	48.39	29	73.83	58	61.27
10 or Under	-	-	10	77.88	10	77.88
U.S. Total	7,542	61.52	11,810	90.23	19,351	79.04

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, 'Annual Survey of Coal Production and Preparation,' 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, 2014 and 2013

Coal-Producing State and Region ¹	2014			2013			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	2,852	842	3,694	3,077	1,135	4,212	-7.3	-25.8	-12.3
Alaska	-	120	120	-	125	125	-	-4.0	-4.0
Arizona	-	387	387	-	405	405	-	-4.4	-4.4
Arkansas	82	2	84	52	2	54	57.7	-	55.6
Colorado	1,372	450	1,822	1,705	470	2,175	-19.5	-4.3	-16.2
Illinois	3,772	446	4,218	3,660	504	4,164	3.1	-11.5	1.3
Indiana	2,201	1,609	3,810	1,986	1,626	3,612	10.8	-1.0	5.5
Kansas	-	10	10	-	7	7	-	42.9	42.9
Kentucky Total	8,191	3,643	11,834	8,938	3,967	12,905	-8.4	-8.2	-8.3
Kentucky (East)	4,349	3,217	7,566	5,144	3,470	8,614	-15.5	-7.3	-12.2
Kentucky (West)	3,842	426	4,268	3,794	497	4,291	1.3	-14.3	-0.5
Louisiana	-	299	299	-	280	280	-	6.8	6.8
Maryland	167	219	386	184	221	405	-9.2	-0.9	-4.7
Mississippi	-	324	324	-	309	309	-	4.9	4.9
Missouri	-	20	20	-	24	24	-	-16.7	-16.7
Montana	324	996	1,320	333	914	1,247	-2.7	9.0	5.9
New Mexico	488	661	1,149	492	794	1,286	-0.8	-16.8	-10.7
North Dakota	-	1,285	1,285	-	1,242	1,242	-	3.5	3.5
Ohio	1,997	926	2,923	2,063	1,080	3,143	-3.2	-14.3	-7.0
Oklahoma	77	102	179	79	125	204	-2.5	-18.4	-12.3
Pennsylvania Total	5,821	2,117	7,938	5,988	2,394	8,382	-2.8	-11.6	-5.3
Pennsylvania (Anthracite)	85	871	956	129	966	1,095	-34.1	-9.8	-12.7
Pennsylvania (Bituminous)	5,736	1,246	6,982	5,859	1,428	7,287	-2.1	-12.7	-4.2
Tennessee	158	64	222	162	135	297	-2.5	-52.6	-25.3
Texas	-	2,806	2,806	-	2,819	2,819	-	-0.5	-0.5
Utah	1,330	63	1,393	1,385	52	1,437	-4.0	21.2	-3.1
Virginia	2,863	764	3,627	3,428	1,093	4,521	-16.5	-30.1	-19.8
West Virginia Total	14,338	3,992	18,330	15,694	4,587	20,281	-8.6	-13.0	-9.6
West Virginia (Northern)	5,677	211	5,888	5,575	196	5,771	1.8	7.7	2.0
West Virginia (Southern)	8,661	3,781	12,442	10,119	4,391	14,510	-14.4	-13.9	-14.3
Wyoming	315	6,309	6,624	278	6,395	6,673	13.3	-1.3	-0.7
Appalachia Total	32,545	12,141	44,686	35,740	14,115	49,855	-8.9	-14.0	-10.4
Appalachia Central	16,031	7,826	23,857	18,853	9,089	27,942	-15.0	-13.9	-14.6
Appalachia Northern	13,662	3,473	17,135	13,810	3,891	17,701	-1.1	-10.7	-3.2
Appalachia Southern	2,852	842	3,694	3,077	1,135	4,212	-7.3	-25.8	-12.3
Interior Region Total	9,974	6,044	16,018	9,571	6,193	15,764	4.2	-2.4	1.6
Illinois Basin	9,815	2,481	12,296	9,440	2,627	12,067	4.0	-5.6	1.9
Other Interior	159	3,563	3,722	131	3,566	3,697	21.4	-0.1	0.7
Western Region Total	3,829	10,271	14,100	4,193	10,397	14,590	-8.7	-1.2	-3.4
Powder River Basin	-	6,592	6,592	-	6,635	6,635	-	-0.6	-0.6
Uinta Basin	2,559	457	3,016	2,968	468	3,436	-13.8	-2.4	-12.2
Other Western	1,270	3,222	4,492	1,225	3,294	4,519	3.7	-2.2	-0.6
East of Mississippi River	42,360	14,946	57,306	45,180	17,051	62,231	-6.2	-12.3	-7.9
West of Mississippi River	3,988	13,510	17,498	4,324	13,654	17,978	-7.8	-1.1	-2.7
U.S. Subtotal	46,348	28,456	74,804	49,504	30,705	80,209	-6.4	-7.3	-6.7
Refuse Recovery	-	-	127	-	-	187	-	-	-32.1
U.S. Total	46,348	28,456	74,931	49,504	30,705	80,396	-6.4	-7.3	-6.8

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, 2014

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)								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	Zero ²	
Alabama	2,585	-	447	312	141	50	25	134	3,694
Underground	2,585	-	-	113	41	-	-	113	2,852
Surface	-	-	447	199	100	50	25	21	842
Alaska	120	-	-	-	-	-	-	-	120
Surface	120	-	-	-	-	-	-	-	120
Arizona	387	-	-	-	-	-	-	-	387
Surface	387	-	-	-	-	-	-	-	387
Arkansas	-	-	-	-	82	-	2	-	84
Underground	-	-	-	-	82	-	-	-	82
Surface	-	-	-	-	-	-	2	-	2
Colorado	1,650	128	29	-	-	-	15	-	1,822
Underground	1,229	128	-	-	-	-	15	-	1,372
Surface	421	-	29	-	-	-	-	-	450
Illinois	3,850	137	57	-	38	9	-	127	4,218
Underground	3,661	-	-	-	18	-	-	93	3,772
Surface	189	137	57	-	20	9	-	34	446
Indiana	3,054	364	63	62	63	7	22	146	3,810
Underground	1,747	243	-	-	63	-	13	106	2,201
Surface	1,307	121	63	62	-	7	9	40	1,609
Kansas	-	-	-	-	-	10	-	-	10
Surface	-	-	-	-	-	10	-	-	10
Kentucky Total	4,153	1,217	2,253	1,112	759	637	197	1,484	11,834
Underground	3,742	978	1,368	411	469	241	41	930	8,191
Surface	411	239	885	701	290	396	156	554	3,643
Kentucky (East)	742	811	2,172	1,098	759	631	193	1,138	7,566
Underground	562	637	1,314	411	469	241	41	663	4,349
Surface	180	174	858	687	290	390	152	475	3,217
Kentucky (West)	3,411	406	81	14	-	6	4	346	4,268
Underground	3,180	341	54	-	-	-	-	267	3,842
Surface	231	65	27	14	-	6	4	79	426
Louisiana	278	-	-	21	-	-	-	-	299
Surface	278	-	-	21	-	-	-	-	299
Maryland	-	-	223	-	68	26	31	38	386
Underground	-	-	129	-	-	-	-	38	167
Surface	-	-	94	-	68	26	31	-	219
Mississippi	206	118	-	-	-	-	-	-	324
Surface	206	118	-	-	-	-	-	-	324
Missouri	-	-	20	-	-	-	-	-	20
Surface	-	-	20	-	-	-	-	-	20
Montana	1,308	-	12	-	-	-	-	-	1,320
Underground	324	-	-	-	-	-	-	-	324
Surface	984	-	12	-	-	-	-	-	996
New Mexico	1,149	-	-	-	-	-	-	-	1,149
Underground	488	-	-	-	-	-	-	-	488
Surface	661	-	-	-	-	-	-	-	661
North Dakota	1,280	-	-	-	-	-	-	5	1,285
Surface	1,280	-	-	-	-	-	-	5	1,285
Ohio	1,683	402	552	62	32	35	24	116	2,923
Underground	1,454	152	336	-	-	14	-	25	1,997
Surface	229	250	216	62	32	21	24	91	926
Oklahoma	-	-	126	32	18	-	3	-	179
Underground	-	-	77	-	-	-	-	-	77
Surface	-	-	49	32	18	-	3	-	102
Pennsylvania Total	3,832	119	1,539	530	478	451	240	694	7,938
Underground	3,832	119	1,282	110	49	97	47	242	5,821
Surface	-	-	257	420	429	354	193	452	2,117
Pennsylvania (Anthracite)	-	-	35	117	122	193	95	384	956

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		
Underground	-	-	-	-	-	38	19	28	85
Surface	-	-	35	117	122	155	76	356	871
Pennsylvania (Bituminous)	3,832	119	1,504	413	356	258	145	310	6,982
Underground	3,832	119	1,282	110	49	59	28	214	5,736
Surface	-	-	222	303	307	199	117	96	1,246
Tennessee	-	89	-	22	4	52	19	36	222
Underground	-	89	-	-	-	45	-	24	158
Surface	-	-	-	22	4	7	19	12	64
Texas	2,492	-	121	130	-	28	35	-	2,806
Surface	2,492	-	121	130	-	28	35	-	2,806
Utah	1,124	126	34	-	-	-	-	98	1,393
Underground	1,124	99	34	-	-	-	-	73	1,330
Surface	-	27	-	-	-	-	-	25	63
Virginia	464	704	990	375	240	343	61	450	3,627
Underground	464	550	784	324	143	246	13	339	2,863
Surface	-	154	206	51	97	97	48	111	764
West Virginia Total	8,895	3,067	2,852	700	437	503	125	1,751	18,330
Underground	7,363	2,306	2,291	530	315	270	34	1,229	14,338
Surface	1,532	761	561	170	122	233	91	522	3,992
West Virginia (Northern)	4,962	173	418	8	30	68	29	200	5,888
Underground	4,876	173	418	-	30	41	-	139	5,677
Surface	86	-	-	8	-	27	29	61	211
West Virginia (Southern)	3,933	2,894	2,434	692	407	435	96	1,551	12,442
Underground	2,487	2,133	1,873	530	285	229	34	1,090	8,661
Surface	1,446	761	561	162	122	206	62	461	3,781
Wyoming	6,617	-	-	-	-	7	-	-	6,624
Underground	315	-	-	-	-	-	-	-	315
Surface	6,302	-	-	-	-	7	-	-	6,309
Appalachia Total	18,201	5,192	8,775	3,099	2,159	2,091	718	4,357	44,686
Underground	16,260	3,853	6,136	1,488	1,017	913	135	2,673	32,545
Surface	1,941	1,339	2,639	1,611	1,142	1,178	583	1,684	12,141
Appalachia Central	5,139	4,498	5,596	2,187	1,410	1,461	369	3,175	23,857
Underground	3,513	3,409	3,971	1,265	897	761	88	2,116	16,031
Surface	1,626	1,089	1,625	922	513	700	281	1,059	7,826
Appalachia Northern	10,477	694	2,732	600	608	580	324	1,048	17,135
Underground	10,162	444	2,165	110	79	152	47	444	13,662
Surface	315	250	567	490	529	428	277	604	3,473
Appalachia Southern	2,585	-	447	312	141	50	25	134	3,694
Underground	2,585	-	-	113	41	-	-	113	2,852
Surface	-	-	447	199	100	50	25	21	842
Interior Region Total	13,291	1,025	468	259	201	60	66	619	16,018
Underground	8,588	584	131	-	163	-	13	466	9,974
Surface	4,703	441	337	259	38	60	53	153	6,044
Illinois Basin	10,315	907	201	76	101	22	26	619	12,296
Underground	8,588	584	54	-	81	-	13	466	9,815
Surface	1,727	323	147	76	20	22	13	153	2,481
Other Interior	2,976	118	267	183	100	38	40	-	3,722
Underground	-	-	77	-	82	-	-	-	159
Surface	2,976	118	190	183	18	38	40	-	3,563
Western Region Total	13,635	254	75	-	-	7	15	103	14,100
Underground	3,480	227	34	-	-	-	15	73	3,829
Surface	10,155	27	41	-	-	7	-	30	10,271
Powder River Basin	6,592	-	-	-	-	-	-	-	6,592
Surface	6,592	-	-	-	-	-	-	-	6,592
Uinta Basin	2,774	99	34	-	-	-	-	98	3,016
Underground	2,353	99	34	-	-	-	-	73	2,559
Surface	421	-	-	-	-	-	-	25	457
Other Western	4,269	155	41	-	-	7	15	5	4,492
Underground	1,127	128	-	-	-	-	15	-	1,270
Surface	3,142	27	41	-	-	7	-	5	3,222
East of Mississippi River	28,722	6,217	8,976	3,175	2,260	2,113	744	4,976	57,306

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		
Underground	24,848	4,437	6,190	1,488	1,098	913	148	3,139	42,360
Surface	3,874	1,780	2,786	1,687	1,162	1,200	596	1,837	14,946
West of Mississippi River	16,405	254	342	183	100	45	55	103	17,498
Underground	3,480	227	111	-	82	-	15	73	3,988
Surface	12,925	27	231	183	18	45	40	30	13,510
U.S. Subtotal	45,127	6,471	9,318	3,358	2,360	2,158	799	5,079	74,804
Underground	28,328	4,664	6,301	1,488	1,180	913	163	3,212	46,348
Surface	16,799	1,807	3,017	1,870	1,180	1,245	636	1,867	28,456
Refuse Recovery	-	7	12	-	31	46	31	-	127
U.S. Total	45,127	6,478	9,330	3,358	2,391	2,204	830	5,079	74,931

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.'

Table 20. Average Number of Employees at Underground and Surface Mines by State and Union Status, 2014

Coal-Producing State and Region ¹	Union		Nonunion	
	Underground	Surface	Underground	Surface
Alabama	2,653	57	199	743
Alaska	-	120	-	-
Arizona	-	387	-	-
Arkansas	-	-	82	-
Colorado	163	206	1,194	244
Illinois	17	7	3,755	444
Indiana	-	-	2,172	1,604
Kansas	-	-	-	4
Kentucky Total	514	20	7,562	3,265
Kentucky (East)	73	20	4,161	2,846
Kentucky (West)	441	-	3,401	419
Louisiana	-	-	-	299
Maryland	-	-	167	183
Mississippi	-	-	-	324
Missouri	-	-	-	20
Montana	-	717	324	279
New Mexico	488	357	-	304
North Dakota	-	316	-	969
Ohio	659	-	1,308	901
Oklahoma	-	-	77	99
Pennsylvania Total	1,740	292	3,984	1,518
Pennsylvania (Anthracite)	-	253	66	537
Pennsylvania (Bituminous)	1,740	39	3,918	981
Tennessee	-	-	158	45
Texas	-	1,679	-	1,064
Utah	178	3	1,152	49
Virginia	199	6	2,524	719
West Virginia Total	4,520	409	9,758	3,393
West Virginia (Northern)	3,479	13	2,198	158
West Virginia (Southern)	1,041	396	7,560	3,235
Wyoming	315	505	-	5,801
Appalachia Total	9,844	784	22,259	10,348
Appalachia Central	1,313	422	14,403	6,845
Appalachia Northern	5,878	305	7,657	2,760
Appalachia Southern	2,653	57	199	743
Interior Region Total	458	1,686	9,487	4,277
Illinois Basin	458	7	9,328	2,467
Other Interior	-	1,679	159	1,810
Western Region Total	1,144	2,611	2,670	7,646
Powder River Basin	-	705	-	5,887
Uinta Basin	341	180	2,218	266
Other Western	803	1,726	452	1,493
East of Mississippi River	10,302	791	31,587	13,139
West of Mississippi River	1,144	4,290	2,829	9,132
U.S. Total	11,446	5,081	34,416	22,271

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, 'Annual Survey of Coal Production and Preparation,' 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, 2014 and 2013

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		
	2014	2013	Percent Change	2014	2013	Percent Change	2014	2013	Percent Change
Alabama	46	47	-2.1	3,694	4,212	-12.3	1.88	1.90	-1.1
Underground	13	13	-	2,852	3,077	-7.3	1.84	1.85	-0.6
Surface	33	34	-2.9	842	1,135	-25.8	2.02	2.04	-1.1
Alaska	1	1	-	120	125	-4.0	5.43	5.70	-4.8
Surface	1	1	-	120	125	-4.0	5.43	5.70	-4.8
Arizona	1	1	-	387	405	-4.4	8.06	7.49	7.7
Surface	1	1	-	387	405	-4.4	8.06	7.49	7.7
Arkansas	2	2	-	84	54	55.6	0.53	0.49	7.1
Underground	1	1	-	82	52	57.7	0.49	0.47	4.5
Surface	1	1	-	2	2	-	6.39	1.42	349.0
Colorado	10	11	-9.1	1,822	2,175	-16.2	6.23	5.49	13.4
Underground	6	7	-14.3	1,372	1,705	-19.5	6.15	5.56	10.5
Surface	4	4	-	450	470	-4.3	6.50	5.23	24.3
Illinois	32	33	-3.0	4,218	4,164	1.3	5.99	5.51	8.8
Underground	19	20	-5.0	3,772	3,660	3.1	6.13	5.59	9.7
Surface	13	13	-	446	504	-11.5	4.92	4.93	-0.3
Indiana	37	36	2.8	3,810	3,612	5.5	4.21	4.43	-4.9
Underground	13	12	8.3	2,201	1,986	10.8	3.36	3.48	-3.3
Surface	24	24	-	1,609	1,626	-1.0	5.36	5.58	-3.9
Kansas	2	1	100.0	10	7	42.9	3.86	1.58	143.9
Surface	2	1	100.0	10	7	42.9	3.86	1.58	143.9
Kentucky Total	356	370	-3.8	11,834	12,905	-8.3	2.80	2.76	1.4
Underground	144	151	-4.6	8,191	8,938	-8.4	2.70	2.66	1.3
Surface	212	219	-3.2	3,643	3,967	-8.2	3.06	3.01	1.7
Kentucky (East)	323	333	-3.0	7,566	8,614	-12.2	2.23	2.14	4.1
Underground	123	131	-6.1	4,349	5,144	-15.5	1.89	1.78	5.9
Surface	200	202	-1.0	3,217	3,470	-7.3	2.69	2.66	1.3
Kentucky (West)	33	37	-10.8	4,268	4,291	-0.5	3.70	3.86	-4.0
Underground	21	20	5.0	3,842	3,794	1.3	3.50	3.68	-4.8
Surface	12	17	-29.4	426	497	-14.3	5.73	5.46	4.8
Louisiana	2	2	-	299	280	6.8	3.96	4.56	-13.2
Surface	2	2	-	299	280	6.8	3.96	4.56	-13.2
Maryland	21	22	-4.5	386	405	-4.7	2.36	2.33	1.4
Underground	3	4	-25.0	167	184	-9.2	1.83	1.86	-1.2
Surface	18	18	-	219	221	-0.9	2.82	2.69	4.7
Mississippi	2	2	-	324	309	4.9	5.71	5.57	2.5
Surface	2	2	-	324	309	4.9	5.71	5.57	2.5
Missouri	1	1	-	20	24	-16.7	7.11	6.57	8.3
Surface	1	1	-	20	24	-16.7	7.11	6.57	8.3
Montana	6	6	-	1,320	1,247	5.9	16.57	16.70	-0.8
Underground	1	1	-	324	333	-2.7	10.66	11.83	-9.9
Surface	5	5	-	996	914	9.0	18.81	18.69	0.6
New Mexico	3	4	-25.0	1,149	1,286	-10.7	9.21	8.16	12.8
Underground	1	1	-	488	492	-0.8	8.89	5.89	50.9
Surface	2	3	-33.3	661	794	-16.8	9.43	9.54	-1.2
North Dakota	5	5	-	1,285	1,242	3.5	11.48	11.34	1.2
Surface	5	5	-	1,285	1,242	3.5	11.48	11.34	1.2
Ohio	38	40	-5.0	2,923	3,143	-7.0	3.38	3.48	-3.1
Underground	14	14	-	1,997	2,063	-3.2	3.43	3.66	-6.2
Surface	24	26	-7.7	926	1,080	-14.3	3.25	3.14	3.7
Oklahoma	6	9	-33.3	179	204	-12.3	1.87	2.05	-8.8
Underground	1	2	-50.0	77	79	-2.5	1.91	2.11	-9.3
Surface	5	7	-28.6	102	125	-18.4	1.83	2.01	-8.8
Pennsylvania Total	300	315	-4.8	7,938	8,382	-5.3	3.52	3.01	17.2
Underground	78	82	-4.9	5,821	5,988	-2.8	4.02	3.39	18.8
Surface	222	233	-4.7	2,117	2,394	-11.6	1.93	1.91	1.4

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		
	2014	2013	Percent Change	2014	2013	Percent Change	2014	2013	Percent Change
Pennsylvania (Anthracite)	99	107	-7.5	956	1,095	-12.7	0.98	1.01	-3.2
Underground	17	22	-22.7	85	129	-34.1	0.60	0.48	25.0
Surface	82	85	-3.5	871	966	-9.8	1.01	1.07	-5.2
Pennsylvania (Bituminous)	201	208	-3.4	6,982	7,287	-4.2	3.83	3.26	17.6
Underground	61	60	1.7	5,736	5,859	-2.1	4.07	3.43	18.4
Surface	140	148	-5.4	1,246	1,428	-12.7	2.58	2.45	5.3
Tennessee	10	14	-28.6	222	297	-25.3	1.85	1.88	-1.7
Underground	4	5	-20.0	158	162	-2.5	1.73	2.06	-16.0
Surface	6	9	-33.3	64	135	-52.6	2.30	1.60	43.3
Texas	16	11	45.5	2,806	2,819	-0.5	7.22	7.08	2.0
Surface	16	11	45.5	2,806	2,819	-0.5	7.22	7.08	2.0
Utah	17	17	-	1,393	1,437	-3.1	5.97	5.69	4.9
Underground	13	14	-7.1	1,330	1,385	-4.0	6.13	5.70	7.5
Surface	4	3	33.3	63	52	21.2	3.32	5.43	-38.8
Virginia	101	118	-14.4	3,627	4,521	-19.8	1.92	1.76	9.2
Underground	56	68	-17.6	2,863	3,428	-16.5	1.79	1.64	8.6
Surface	45	50	-10.0	764	1,093	-30.1	2.43	2.18	11.5
West Virginia Total	288	325	-11.4	18,330	20,281	-9.6	2.69	2.44	10.0
Underground	155	188	-17.6	14,338	15,694	-8.6	2.53	2.24	12.7
Surface	133	137	-2.9	3,992	4,587	-13.0	3.24	3.08	5.1
West Virginia (Northern)	46	46	-	5,888	5,771	2.0	3.70	3.31	11.7
Underground	26	27	-3.7	5,677	5,575	1.8	3.71	3.29	12.7
Surface	20	19	5.3	211	196	7.7	3.30	3.90	-15.4
West Virginia (Southern)	242	279	-13.3	12,442	14,510	-14.3	2.22	2.11	5.2
Underground	129	161	-19.9	8,661	10,119	-14.4	1.75	1.67	4.8
Surface	113	118	-4.2	3,781	4,391	-13.9	3.24	3.05	6.0
Wyoming	18	17	5.9	6,624	6,673	-0.7	28.62	28.21	1.5
Underground	1	1	-	315	278	13.3	4.39	6.72	-34.7
Surface	17	16	6.3	6,309	6,395	-1.3	30.05	29.29	2.6
Appalachia Total	1,127	1,214	-7.2	44,686	49,855	-10.4	2.66	2.44	9.1
Underground	446	505	-11.7	32,545	35,740	-8.9	2.63	2.36	11.5
Surface	681	709	-3.9	12,141	14,115	-14.0	2.75	2.65	3.8
Appalachia Central	676	744	-9.1	23,857	27,942	-14.6	2.17	2.06	5.4
Underground	312	365	-14.5	16,031	18,853	-15.0	1.79	1.70	5.6
Surface	364	379	-4.0	7,826	9,089	-13.9	2.94	2.80	4.9
Appalachia Northern	405	423	-4.3	17,135	17,701	-3.2	3.53	3.18	11.1
Underground	121	127	-4.7	13,662	13,810	-1.1	3.78	3.37	12.1
Surface	284	296	-4.1	3,473	3,891	-10.7	2.45	2.43	1.0
Appalachia Southern	46	47	-2.1	3,694	4,212	-12.3	1.88	1.90	-1.1
Underground	13	13	-	2,852	3,077	-7.3	1.84	1.85	-0.6
Surface	33	34	-2.9	842	1,135	-25.8	2.02	2.04	-1.1
Interior Region Total	133	134	-0.7	16,018	15,764	1.6	4.98	4.95	0.6
Underground	55	55	-	9,974	9,571	4.2	4.37	4.29	1.7
Surface	78	79	-1.3	6,044	6,193	-2.4	6.05	6.03	0.4
Illinois Basin	102	106	-3.8	12,296	12,067	1.9	4.60	4.57	0.7
Underground	53	52	1.9	9,815	9,440	4.0	4.42	4.33	2.0
Surface	49	54	-9.3	2,481	2,627	-5.6	5.34	5.44	-1.8
Other Interior	31	28	10.7	3,722	3,697	0.7	6.35	6.31	0.7
Underground	2	3	-33.3	159	131	21.4	1.26	1.52	-17.5
Surface	29	25	16.0	3,563	3,566	-0.1	6.61	6.51	1.5
Western Region Total	61	62	-1.6	14,100	14,590	-3.4	18.36	17.61	4.2
Underground	22	24	-8.3	3,829	4,193	-8.7	6.71	6.26	7.2
Surface	39	38	2.6	10,271	10,397	-1.2	22.89	22.26	2.8
Powder River Basin	16	16	-	6,592	6,635	-0.6	30.55	30.05	1.7
Surface	16	16	-	6,592	6,635	-0.6	30.55	30.05	1.7
Uinta Basin	23	24	-4.2	3,016	3,436	-12.2	6.27	5.66	10.8
Underground	17	19	-10.5	2,559	2,968	-13.8	6.30	5.76	9.4
Surface	6	5	20.0	457	468	-2.4	6.09	5.00	21.8
Other Western	22	22	-	4,492	4,519	-0.6	8.91	8.70	2.5
Underground	5	5	-	1,270	1,225	3.7	7.50	7.39	1.5

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		
	2014	2013	Percent Change	2014	2013	Percent Change	2014	2013	Percent Change
Surface	17	17	-	3,222	3,294	-2.2	9.51	9.21	3.3
East of Mississippi River	1,231	1,322	-6.9	57,306	62,231	-7.9	3.12	2.89	7.8
Underground	499	557	-10.4	42,360	45,180	-6.2	3.07	2.80	9.7
Surface	732	765	-4.3	14,946	17,051	-12.3	3.27	3.16	3.6
West of Mississippi River	90	88	2.3	17,498	17,978	-2.7	15.96	15.39	3.7
Underground	24	27	-11.1	3,988	4,324	-7.8	6.47	6.09	6.2
Surface	66	61	8.2	13,510	13,654	-1.1	18.86	18.35	2.7
U.S. Subtotal	1,321	1,410	-6.3	74,804	80,209	-6.7	5.95	5.53	7.5
Underground	523	584	-10.4	46,348	49,504	-6.4	3.35	3.07	9.2
Surface	798	826	-3.4	28,456	30,705	-7.3	10.42	9.69	7.5
Refuse Recovery	33	51	-35.3	127	187	-32.1	13.21	5.94	122.5
U.S. Total	1,354	1,461	-7.3	74,931	80,396	-6.8	5.96	5.54	7.6

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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

(short tons produced per employee hour)

Coal-Producing State, Region ¹ and Mine Type	Continuous ²	Conventional and Other ³	Longwall ⁴	Total
Alabama	0.92	-	1.92	1.84
Arkansas	0.49	-	-	0.49
Colorado	3.44	-	6.49	6.19
Illinois	4.43	6.73	7.60	6.16
Indiana	3.38	-	-	3.38
Kentucky Total	2.69	2.93	-	2.70
Kentucky (East)	1.91	1.31	-	1.89
Kentucky (West)	3.50	3.49	-	3.50
Maryland	1.83	-	-	1.83
Montana	-	-	10.66	10.66
New Mexico	-	-	8.89	8.89
Ohio	2.50	-	3.99	3.44
Oklahoma	1.91	-	-	1.91
Pennsylvania Total	2.39	1.00	4.93	4.04
Pennsylvania (Anthracite)	0.46	1.00	-	0.54
Pennsylvania (Bituminous)	2.44	-	4.93	4.08
Tennessee	1.73	-	-	1.73
Utah	3.97	-	6.61	6.13
Virginia	1.38	-	3.80	1.80
West Virginia Total	1.68	2.14	3.66	2.54
West Virginia (Northern)	1.93	2.14	4.10	3.74
West Virginia (Southern)	1.65	-	2.26	1.75
Wyoming	-	-	4.39	4.39
Appalachia Total	1.80	1.64	3.69	2.64
Appalachia Central	1.68	1.31	2.64	1.80
Appalachia Northern	2.28	2.04	4.41	3.80
Appalachia Southern	0.92	-	1.92	1.84
Interior Region Total	3.61	4.31	7.60	4.38
Illinois Basin	3.66	4.31	7.60	4.43
Other Interior	1.26	-	-	1.26
Western Region Total	3.78	-	7.04	6.73
Uinta Basin	3.97	-	6.55	6.30
Other Western	3.44	-	8.03	7.57
East of Mississippi River	2.39	3.45	4.16	3.08
West of Mississippi River	2.96	-	7.04	6.48
U.S. Total	2.40	3.45	4.64	3.36

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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

(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	1.97	-	2.19	1.59	1.59	2.48	2.19	1.88
Underground	1.97	-	-	1.10	1.01	-	-	1.84
Surface	-	-	2.19	1.92	1.78	2.48	2.19	2.02
Alaska	5.43	-	-	-	-	-	-	5.43
Surface	5.43	-	-	-	-	-	-	5.43
Arizona	8.06	-	-	-	-	-	-	8.06
Surface	8.06	-	-	-	-	-	-	8.06
Arkansas	-	-	-	-	0.49	-	6.39	0.53
Underground	-	-	-	-	0.49	-	-	0.49
Surface	-	-	-	-	-	-	6.39	6.39
Colorado	6.51	3.44	5.12	-	-	-	0.40	6.23
Underground	6.49	3.44	-	-	-	-	0.40	6.15
Surface	6.59	-	5.12	-	-	-	-	6.50
Illinois	6.20	7.50	4.86	-	0.84	3.00	-	5.99
Underground	6.30	-	-	-	-	-	-	6.13
Surface	4.30	7.50	4.86	-	1.58	3.00	-	4.92
Indiana	4.50	3.95	6.92	4.58	0.57	4.08	0.32	4.21
Underground	3.85	2.41	-	-	0.57	-	-	3.36
Surface	5.36	6.60	6.92	4.58	-	4.08	0.79	5.36
Kansas	-	-	-	-	-	3.86	-	3.86
Surface	-	-	-	-	-	3.86	-	3.86
Kentucky Total	4.01	2.91	2.67	2.77	1.84	1.55	1.35	2.80
Underground	3.77	2.50	2.19	2.10	1.51	1.13	1.06	2.70
Surface	6.19	4.57	3.33	3.14	2.42	1.82	1.39	3.06
Kentucky (East)	3.48	2.83	2.67	2.75	1.84	1.51	1.32	2.23
Underground	2.93	2.54	2.21	2.10	1.51	1.13	1.06	1.89
Surface	4.96	3.81	3.30	3.13	2.42	1.77	1.36	2.69
Kentucky (West)	4.12	3.04	2.71	3.68	-	4.40	4.60	3.70
Underground	3.91	2.42	1.74	-	-	-	-	3.50
Surface	7.33	7.16	4.46	3.68	-	4.40	4.60	5.73
Louisiana	4.02	-	-	3.09	-	-	-	3.96
Surface	4.02	-	-	3.09	-	-	-	3.96
Maryland	-	-	2.73	-	2.91	2.62	0.46	2.36
Underground	-	-	2.29	-	-	-	-	1.83
Surface	-	-	3.40	-	2.91	2.62	0.46	2.82
Mississippi	6.68	3.81	-	-	-	-	-	5.71
Surface	6.68	3.81	-	-	-	-	-	5.71
Missouri	-	-	7.11	-	-	-	-	7.11
Surface	-	-	7.11	-	-	-	-	7.11
Montana	16.59	-	13.86	-	-	-	-	16.57
Underground	10.66	-	-	-	-	-	-	10.66
Surface	18.87	-	13.86	-	-	-	-	18.81
New Mexico	9.21	-	-	-	-	-	-	9.21
Underground	8.89	-	-	-	-	-	-	8.89
Surface	9.43	-	-	-	-	-	-	9.43
North Dakota	11.50	-	-	-	-	-	-	11.48
Surface	11.50	-	-	-	-	-	-	11.48
Ohio	3.93	3.20	3.07	2.26	2.08	0.45	0.35	3.38
Underground	3.83	2.34	2.70	-	-	0.89	-	3.43
Surface	4.62	3.71	3.66	2.26	2.08	0.33	0.35	3.25
Oklahoma	-	-	1.97	1.71	1.44	-	2.10	1.87
Underground	-	-	1.91	-	-	-	-	1.91
Surface	-	-	2.08	1.71	1.44	-	2.10	1.83
Pennsylvania Total	4.90	4.13	2.78	2.69	2.06	1.69	1.32	3.52
Underground	4.90	4.13	2.56	2.95	1.39	0.68	0.56	4.02
Surface	-	-	3.80	2.62	2.15	2.00	1.61	1.93

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	
Pennsylvania (Anthracite)	-	-	3.64	1.65	1.72	1.66	1.11	0.98
Underground	-	-	-	-	-	1.01	0.79	0.60
Surface	-	-	3.64	1.65	1.72	1.83	1.24	1.01
Pennsylvania (Bituminous)	4.90	4.13	2.75	2.99	2.17	1.71	1.51	3.83
Underground	4.90	4.13	2.56	2.95	1.39	0.49	0.37	4.07
Surface	-	-	3.83	3.00	2.30	2.13	1.95	2.58
Tennessee	-	2.48	-	2.80	7.29	1.19	0.5	1.85
Underground	-	2.48	-	-	-	1.04	-	1.73
Surface	-	-	-	2.80	7.29	2.35	0.5	2.30
Texas	7.91	-	3.15	0.66	-	0.26	0.6	7.22
Surface	7.91	-	3.15	0.66	-	0.26	0.6	7.22
Utah	6.82	4.28	3.85	-	-	-	-	5.97
Underground	6.82	3.55	3.85	-	-	-	-	6.13
Surface	-	5.72	-	-	-	-	-	3.32
Virginia	3.80	1.98	2.16	1.53	1.81	1.39	0.65	1.92
Underground	3.80	1.75	1.75	1.26	1.49	1.16	0.51	1.79
Surface	-	2.79	3.45	3.32	2.48	1.81	0.68	2.43
West Virginia Total	3.60	2.47	2.22	1.71	1.51	1.49	0.81	2.69
Underground	3.51	1.95	1.88	1.19	1.37	0.91	0.35	2.53
Surface	3.98	3.97	3.52	3.25	1.85	2.24	0.95	3.24
West Virginia (Northern)	4.05	2.38	2.30	5.85	1.00	1.06	1.31	3.70
Underground	4.03	2.38	2.30	-	1.00	-	-	3.71
Surface	5.30	-	-	5.85	-	3.08	1.31	3.30
West Virginia (Southern)	3.06	2.48	2.21	1.66	1.55	1.58	0.66	2.22
Underground	2.50	1.91	1.79	1.19	1.42	1.14	0.35	1.75
Surface	3.91	3.97	3.52	3.10	1.85	2.10	0.80	3.24
Wyoming	28.64	-	-	-	-	5.09	-	28.62
Underground	4.39	-	-	-	-	-	-	4.39
Surface	30.07	-	-	-	-	5.09	-	30.05
Appalachia Total	3.66	2.55	2.49	2.23	1.85	1.54	1.05	2.66
Underground	3.60	2.11	2.13	1.57	1.44	1.00	0.58	2.63
Surface	4.15	3.77	3.25	2.83	2.23	1.94	1.16	2.75
Appalachia Central	3.19	2.47	2.38	2.20	1.77	1.49	0.95	2.17
Underground	2.74	2.02	1.92	1.51	1.48	1.13	0.60	1.79
Surface	4.04	3.79	3.39	3.13	2.33	1.87	1.03	2.94
Appalachia Northern	4.35	3.14	2.76	2.70	2.10	1.58	1.10	3.53
Underground	4.33	2.81	2.52	2.95	1.24	0.48	0.56	3.78
Surface	4.81	3.71	3.68	2.65	2.24	1.99	1.22	2.45
Appalachia Southern	1.97	-	2.19	1.59	1.59	2.48	2.19	1.88
Underground	1.97	-	-	1.10	1.01	-	-	1.84
Surface	-	-	2.19	1.92	1.78	2.48	2.19	2.02
Interior Region Total	5.47	4.06	3.59	2.12	0.67	1.99	0.32	4.98
Underground	4.85	2.42	1.85	-	0.47	-	-	4.37
Surface	6.69	6.37	4.35	2.12	1.51	1.99	0.39	6.05
Illinois Basin	4.96	4.08	4.58	4.38	0.67	3.65	0.42	4.60
Underground	4.85	2.42	1.74	-	0.46	-	-	4.42
Surface	5.51	7.07	5.63	4.38	1.58	3.65	1.00	5.34
Other Interior	7.46	3.81	2.86	1.20	0.68	1.08	0.27	6.35
Underground	-	-	1.91	-	0.49	-	-	1.26
Surface	7.46	3.81	3.32	1.20	1.44	1.08	0.27	6.61
Western Region Total	18.89	3.86	5.72	-	-	5.09	0.40	18.36
Underground	7.11	3.48	3.85	-	-	-	0.40	6.71
Surface	23.12	5.72	7.77	-	-	5.09	-	22.89
Powder River Basin	30.55	-	-	-	-	-	-	30.55
Surface	30.55	-	-	-	-	-	-	30.55
Uinta Basin	6.64	3.55	3.85	-	-	-	-	6.27
Underground	6.65	3.55	3.85	-	-	-	-	6.30
Surface	6.59	-	-	-	-	-	-	6.09
Other Western	9.16	4.02	7.77	-	-	5.09	0.40	8.91
Underground	8.03	3.44	-	-	-	-	0.40	7.50
Surface	9.60	5.72	7.77	-	-	5.09	-	9.51

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	
East of Mississippi River	4.16	2.80	2.54	2.28	1.78	1.57	1.02	3.12
Underground	4.05	2.15	2.13	1.57	1.35	1.00	0.49	3.07
Surface	4.87	4.38	3.37	2.90	2.21	1.98	1.16	3.27
West of Mississippi River	16.92	3.86	3.45	1.20	0.68	1.60	0.30	15.96
Underground	7.11	3.48	2.48	-	0.49	-	0.40	6.47
Surface	19.65	5.72	4.02	1.20	1.44	1.60	0.27	18.86
U.S. Subtotal	8.46	2.84	2.57	2.22	1.73	1.57	0.92	5.95
Underground	4.40	2.21	2.14	1.57	1.29	1.00	0.47	3.35
Surface	15.78	4.41	3.42	2.73	2.20	1.96	1.04	10.42
Refuse Recovery	-	51.19	15.74	-	8.73	6.52	2.33	13.21
U.S. Total	8.46	2.89	2.58	2.22	1.77	1.63	0.96	5.96

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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

(short tons produced per employee hour)

Coal-Producing State and Region ¹	Union		Nonunion	
	Underground	Surface	Underground	Surface
Alabama	1.92	2.31	0.85	2.00
Alaska	-	5.43	-	-
Arizona	-	8.06	-	-
Arkansas	-	-	0.49	-
Colorado	5.72	5.38	6.26	7.44
Illinois	-	-	6.15	5.00
Indiana	-	-	3.39	5.36
Kansas	-	-	-	13.38
Kentucky Total	2.29	-	2.74	3.15
Kentucky (East)	1.10	-	1.91	2.77
Kentucky (West)	2.48	-	3.63	5.75
Louisiana	-	-	-	3.96
Maryland	-	-	1.83	3.11
Mississippi	-	-	-	5.71
Missouri	-	-	-	7.11
Montana	-	14.11	10.66	29.89
New Mexico	8.89	6.63	-	12.34
North Dakota	-	11.26	-	11.54
Ohio	3.13	-	3.64	3.34
Oklahoma	-	-	1.91	1.83
Pennsylvania Total	4.13	0.96	4.05	2.16
Pennsylvania (Anthracite)	-	0.96	0.54	0.98
Pennsylvania (Bituminous)	4.13	1.00	4.09	2.79
Tennessee	-	-	1.73	2.42
Texas	-	8.18	-	6.11
Utah	5.38	-	6.24	3.96
Virginia	0.86	-	1.87	2.58
West Virginia Total	3.66	2.76	2.00	3.35
West Virginia (Northern)	4.20	-	2.93	3.74
West Virginia (Southern)	1.85	2.83	1.74	3.33
Wyoming	4.39	7.11	-	31.75
Appalachian Total	3.14	2.09	2.42	2.87
Appalachia Central	1.66	2.70	1.81	3.02
Appalachia Northern	4.06	0.92	3.61	2.72
Appalachia Southern	1.92	2.31	0.85	2.00
Interior Region Total	2.39	8.14	4.48	5.38
Illinois Basin	2.39	-	4.53	5.36
Other Interior	-	8.18	1.26	5.41
Western Region Total	6.52	9.29	6.82	27.41
Powder River Basin	-	14.12	-	32.34
Uinta Basin	5.53	5.35	6.42	6.84
Other Western	6.92	7.86	8.67	11.40
East of Mississippi River	3.11	2.07	3.07	3.42
West of Mississippi River	6.52	8.83	6.47	23.67
U.S. Total	3.43	7.64	3.34	11.29

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, 'Annual Survey of Coal Production and Preparation,' 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, 2014

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
Argos Cement LLC	AL, SC
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
Cabot Norit Americas Inc	OK, TX
California Portland Cement Co	AZ, CA
Cargill Incorporated	GA, IA, MI, OH, TN
Celanese Acetate/Celco Plant	VA
Cliffs Natural Resources Silver Bay Pwr Co	MN
FMC Corporation	WY
GCC America	CO, NM, SD
Graymont Western US Inc	MT, NV, UT, WA, WI
Ingredion Incorporated	IL, NC
International Paper Co	AL, GA, SC
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
ArcelorMittal Monessen	PA
Ascend Performance Materials LLC	AL
DTE Energy Services	MI, PA
Drummond Company Inc	AL
Mittal Steel USA	IN, OH
Mountain State Carbon	WV
SunCoke Energy Inc	IL, IN, OH, VA
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, Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.' Prior to third quarter 2014, coke plant data was collected under 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, 2014 and 2013

(thousand short tons)

Census Division and State	2014				2013				Total		Percent Change
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	2014	2013	
New England	2,340	90	-	-	2,791	87	-	-	2,430	2,878	-15.6
Connecticut	499	-	-	-	419	-	-	-	499	419	19.3
Maine	53	33	-	-	38	27	-	-	85	66	30.3
Massachusetts	1,244	57	-	-	1,718	59	-	-	1,301	1,778	-26.8
New Hampshire	544	-	-	-	616	-	-	-	544	616	-11.7
Rhode Island	s	-	-	-	-	-	-	-	s	-	-
Middle Atlantic	41,675	2,175	6,595	117	45,234	2,323	6,401	119	50,562	54,077	-6.5
New Jersey	1,214	-	-	-	1,017	-	-	-	1,214	1,017	19.4
New York	2,154	594	120	-	2,225	664	152	-	2,867	3,041	-5.7
Pennsylvania	38,307	1,581	6,475	117	41,992	1,659	6,249	119	46,481	50,019	-7.1
East North Central	189,199	8,854	11,352	490	194,616	9,220	11,948	517	209,895	216,301	-3.0
Illinois	51,563	3,123	1,500	123	51,996	3,118	1,566	132	56,309	56,812	-0.9
Indiana	48,582	1,840	4,783	139	46,671	2,156	5,364	133	55,344	54,324	1.9
Michigan	29,401	1,114	1,360	68	31,653	1,256	1,333	73	31,944	34,315	-6.9
Ohio	38,417	1,326	3,709	133	40,623	1,288	3,685	146	43,585	45,742	-4.7
Wisconsin	21,235	1,452	-	27	23,674	1,403	-	32	22,713	25,109	-9.5
West North Central	136,585	13,430	-	388	136,626	13,337	-	403	150,404	150,366	s
Iowa	19,705	3,094	-	209	19,517	3,433	-	210	23,008	23,160	-0.7
Kansas	18,199	121	-	-	18,915	85	-	-	18,320	19,000	-3.6
Minnesota	16,534	1,236	-	10	13,765	1,270	-	6	17,781	15,041	18.2
Missouri	43,041	1,095	-	95	44,463	1,085	-	99	44,231	45,647	-3.1
Nebraska	15,036	1,217	-	-	15,829	1,124	-	-	16,253	16,953	-4.1
North Dakota	22,289	6,452	-	74	22,289	6,133	-	88	28,816	28,510	1.1
South Dakota	1,780	215	-	-	1,847	206	-	-	1,995	2,053	-2.8
South Atlantic	126,212	5,283	1,805	229	118,142	5,516	1,790	199	133,528	125,647	6.3
Delaware	397	-	-	-	708	-	-	-	397	708	-43.9
District of Columbia	-	-	-	2	-	-	-	s	2	s	NM
Florida	23,012	618	-	-	20,905	575	-	-	23,630	21,480	10.0
Georgia	22,660	817	-	4	20,633	731	-	5	23,481	21,370	9.9
Maryland	7,411	705	-	7	6,789	705	-	9	8,123	7,503	8.3
North Carolina	19,539	592	-	150	19,170	663	-	134	20,282	19,967	1.6
South Carolina	11,797	549	-	s	9,973	504	-	s	12,346	10,477	17.8
Virginia	9,513	1,087	1,041	66	9,869	1,333	1,039	51	11,706	12,292	-4.8
West Virginia	31,883	914	764	-	30,093	1,006	752	-	33,561	31,851	5.4
East South Central	87,569	5,137	1,546	79	86,428	5,180	1,334	80	94,331	93,022	1.4
Alabama	23,901	1,688	1,546	-	24,400	1,500	1,334	-	27,135	27,235	-0.4
Kentucky	39,214	1,030	-	19	39,475	1,073	-	15	40,262	40,563	-0.7
Mississippi	6,550	110	-	-	5,867	123	-	-	6,660	5,989	11.2
Tennessee	17,903	2,310	-	60	16,686	2,484	-	65	20,274	19,235	5.4
West South Central	152,314	2,402	-	8	153,834	1,997	-	9	154,724	155,840	-0.7
Arkansas	19,281	227	-	-	18,766	215	-	-	19,508	18,980	2.8
Louisiana	12,632	189	-	-	13,787	146	-	-	12,821	13,934	-8.0
Oklahoma	18,743	691	-	-	18,794	634	-	-	19,434	19,428	s
Texas	101,658	1,296	-	8	102,487	1,002	-	9	102,962	103,498	-0.5
Mountain	107,678	3,862	-	30	112,329	3,759	-	38	111,571	116,126	-3.9
Arizona	22,911	221	-	-	23,298	181	-	-	23,132	23,479	-1.5
Colorado	17,877	373	-	6	18,822	339	-	5	18,257	19,166	-4.7
Idaho	-	350	-	2	-	360	-	4	352	364	-3.1
Montana	10,180	281	-	1	9,562	262	-	2	10,462	9,826	6.5
Nevada	3,446	331	-	-	2,933	334	-	-	3,777	3,267	15.6
New Mexico	11,913	60	-	-	14,270	51	-	-	11,973	14,321	-16.4
Utah	15,062	614	-	-	15,529	645	-	-	15,676	16,173	-3.1
Wyoming	26,289	1,632	-	21	27,916	1,588	-	27	27,941	29,531	-5.4
Pacific	8,030	1,712	-	544	7,963	1,636	-	585	10,287	10,184	1.0
Alaska	655	1	-	544	400	1	-	585	1,200	986	21.7

Census Division and State	2014				2013				Total		Percent Change
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	2014	2013	
California	278	1,399	-	-	259	1,383	-	-	1,677	1,643	2.1
Hawaii	769	61	-	-	692	61	-	-	831	753	10.3
Oregon	1,853	109	-	-	2,183	85	-	-	1,963	2,268	-13.5
Washington	4,475	141	-	-	4,429	106	-	-	4,616	4,534	1.8
U.S. Total	851,602	42,946	21,297	1,887	857,962	43,055	21,474	1,951	917,732	924,442	-0.7

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.

NM = Not Meaningful.

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

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 Survey of Non-Electric Sector Coal Data,' and Form EIA-7A, 'Annual Survey of Coal Production and Preparation.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table 27. Year-End Coal Stocks by Sector, Census Division, and State, 2014 and 2013

(thousand short tons)

Census Division and State	2014					2013					Total		
	Electric Power ¹	Other Industrial	Commercial and Institutional	Commercial and Institutional	Producer and Distributor	Electric Power ¹	Other Industrial	Commercial and Institutional	Commercial and Institutional	Producer and Distributor	2014	2013	Percent Change
New England	1,611	9	-	-	281	1,129	13	-	-	481	1,900	1,623	17.1
Connecticut	w	-	-	-	-	w	-	-	-	-	w	w	82.5
Maine	s	1	-	-	-	s	5	-	-	-	1	5	-82.7
Massachusetts	w	8	-	-	281	582	8	-	-	481	w	1,071	w
New Hampshire	w	-	-	-	-	w	-	-	-	-	w	w	-2.5
Rhode Island	w	-	-	-	-	-	-	-	-	-	w	-	w
Middle Atlantic	8,320	297	684	46	1,272	6,052	279	539	58	2,090	10,619	9,017	17.8
New Jersey	893	-	-	-	-	1,045	-	-	-	-	893	1,045	-14.5
New York	894	106	7	-	-	429	125	17	-	-	1,007	571	76.2
Pennsylvania	6,533	191	678	46	1,272	4,578	154	521	58	2,090	8,720	7,401	17.8
East North Central	33,839	1,015	1,654	130	6,383	28,279	880	1,375	141	6,167	43,021	36,842	16.8
Illinois	7,461	224	209	27	4,066	6,273	158	201	26	2,793	11,986	9,451	26.8
Indiana	8,985	172	568	48	1,583	8,034	187	352	58	1,963	11,356	10,595	7.2
Michigan	6,982	316	457	34	157	6,032	224	449	32	164	7,945	6,902	15.1
Ohio	6,566	70	421	17	249	4,536	80	372	19	633	7,323	5,641	29.8
Wisconsin	3,846	233	-	4	328	3,403	231	-	5	615	4,411	4,254	3.7
West North Central	20,648	958	-	67	3,032	22,930	944	-	57	1,813	24,706	25,744	-4.0
Iowa	3,856	286	-	42	127	6,734	397	-	41	113	4,312	7,285	-40.8
Kansas	2,990	28	-	-	1	3,155	33	-	-	-	3,019	3,188	-5.3
Minnesota	2,337	281	-	11	245	1,971	240	-	7	97	2,874	2,316	24.1
Missouri	6,497	102	-	3	1	7,195	59	-	4	1	6,602	7,259	-9.0
Nebraska	2,970	80	-	-	-	2,522	51	-	-	-	3,050	2,573	18.5
North Dakota	w	164	-	11	2,660	w	148	-	5	1,602	w	w	59.8
South Dakota	w	17	-	-	-	w	16	-	-	-	w	w	-1.3
South Atlantic	29,373	501	97	76	7,557	32,377	438	63	96	12,713	37,605	45,687	-17.7
Delaware	w	-	-	-	-	w	-	-	-	-	w	w	134.5
District of Columbia	-	-	-	3	-	-	-	-	2	-	3	2	104.3
Florida	5,245	73	-	-	-	w	58	-	-	-	5,318	w	w
Georgia	5,605	131	-	2	-	7,992	98	-	1	-	5,738	8,091	-29.1
Maryland	1,857	15	-	14	407	1,327	20	-	14	580	2,293	1,941	18.1
North Carolina	6,125	25	-	26	-	5,541	17	-	49	-	6,175	5,607	10.1
South Carolina	4,102	99	-	s	-	5,107	113	-	s	-	4,201	5,220	-19.5
Virginia	1,603	63	s	31	1,812	1,428	73	s	31	2,703	3,509	4,234	-17.1
West Virginia	w	97	97	-	5,338	5,406	59	63	-	9,430	w	14,958	w
East South Central	17,780	288	204	14	4,737	16,840	309	224	22	7,482	23,023	24,877	-7.5
Alabama	4,131	109	204	-	1,167	4,285	113	224	-	2,443	5,610	7,065	-20.6
Kentucky	8,396	38	-	11	1,392	7,925	63	-	15	3,938	9,836	11,942	-17.6
Mississippi	1,818	2	-	-	2,172	1,427	2	-	-	1,029	3,993	2,458	62.5
Tennessee	3,436	138	-	3	6	3,203	131	-	6	73	3,584	3,413	5.0
West South Central	22,419	464	-	4	2,748	23,375	464	-	4	1,679	25,635	25,522	0.4
Arkansas	3,023	34	-	-	13	3,253	24	-	-	2	3,071	3,278	-6.3
Louisiana	3,361	10	-	-	1,419	3,790	4	-	-	722	4,789	4,516	6.1
Oklahoma	2,940	144	-	-	-	3,072	160	-	-	-	3,084	3,232	-4.6
Texas	13,095	276	-	4	1,316	13,261	275	-	4	955	14,691	14,495	1.4
Mountain	16,388	458	-	6	12,688	15,732	568	-	7	13,051	29,539	29,357	0.6
Arizona	2,688	46	-	-	501	2,645	57	-	-	709	3,236	3,412	-5.2
Colorado	4,595	33	-	1	1,224	3,701	27	-	s	2,362	5,852	6,090	-3.9
Idaho	-	140	-	-	-	-	250	-	s	-	140	250	-43.9
Montana	w	35	-	5	1,425	w	32	-	6	1,578	w	w	-5.0
Nevada	1,141	34	-	-	-	639	32	-	-	-	1,175	671	75.2
New Mexico	w	3	-	-	6,384	w	2	-	-	4,523	w	w	33.5
Utah	3,082	50	-	-	503	4,099	17	-	-	2,034	3,634	6,150	-40.9
Wyoming	2,999	116	-	s	2,651	2,742	150	-	s	1,845	5,766	4,737	21.7
Pacific	1,414	207	-	106	196	1,253	202	-	110	177	1,923	1,742	10.4
Alaska	w	-	-	106	196	w	-	-	110	177	w	w	-51.1

Census Division and State	2014					2013					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	2014	2013	
California	s	150	-	-	-	w	146	-	-	-	150	w	w
Hawaii	w	43	-	-	-	w	39	-	-	-	w	w	39.6
Oregon	w	5	-	-	-	w	3	-	-	-	w	w	71.2
Washington	w	9	-	-	-	w	14	-	-	-	w	w	110.7
U.S. Total	151,792	4,196	2,640	449	38,894	147,967	4,097	2,200	495	45,652	197,971	200,411	-1.2

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.

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

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 Survey of Non-Electric Sector Coal Data,' Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and Form EIA-8A, 'Annual Survey of Coal Stocks and Coal Exports.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Average Mine Sales Price

Table 28. Average Sales Price of Coal by State and Mine Type, 2014 and 2013

(dollars per short ton)

Coal-Producing State	2014			2013			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	89.68	79.42	87.17	88.19	88.24	88.20	1.7	-10.0	-1.2
Alaska	-	w	w	-	w	w	-	w	w
Arizona	-	w	w	-	w	w	-	w	w
Arkansas	w	-	w	w	-	w	w	-	w
Colorado	37.28	43.01	38.64	36.62	41.89	37.58	1.8	2.7	2.8
Illinois	47.29	45.29	47.11	48.08	45.65	47.82	-1.6	-0.8	-1.5
Indiana	49.52	47.47	48.41	49.40	51.23	50.44	0.2	-7.3	-4.0
Kansas	-	w	w	-	-	-	-	w	w
Kentucky Total	57.12	58.74	57.62	59.41	59.95	59.58	-3.9	-2.0	-3.3
Kentucky (East)	70.93	63.10	66.97	76.40	66.37	71.41	-7.2	-4.9	-6.2
Kentucky (West)	50.29	45.21	49.58	49.88	38.41	48.25	0.8	17.7	2.8
Louisiana	-	w	w	-	w	w	-	w	w
Maryland	w	w	50.62	w	w	51.75	w	w	-2.2
Mississippi	-	w	w	-	w	w	-	w	w
Missouri	-	w	w	-	w	w	-	w	w
Montana	w	w	17.22	w	w	17.26	w	w	-0.2
New Mexico	w	w	40.28	w	w	37.32	w	w	7.9
North Dakota	-	17.99	17.99	-	17.93	17.93	-	0.3	0.3
Ohio	50.61	47.10	49.54	49.47	46.77	48.64	2.3	0.7	1.9
Oklahoma	w	w	44.98	w	w	58.74	w	w	-23.4
Pennsylvania Total	61.60	63.36	61.82	68.04	68.65	68.13	-9.5	-7.7	-9.3
Pennsylvania (Anthracite)	70.00	91.79	90.98	71.17	88.55	87.82	-1.6	3.7	3.6
Pennsylvania (Bituminous)	61.59	55.08	60.93	68.03	62.63	67.37	-9.5	-12.1	-9.6
Tennessee	w	w	67.96	w	w	73.29	w	w	-7.3
Texas	-	18.20	18.20	-	19.31	19.31	-	-5.8	-5.8
Utah	w	w	35.59	w	w	35.52	w	w	0.2
Virginia	78.78	77.46	78.44	98.53	81.86	93.40	-20.0	-5.4	-16.0
West Virginia Total	67.55	60.69	65.67	76.92	72.27	75.56	-12.2	-16.0	-13.1
West Virginia (Northern)	w	w	59.31	59.60	61.69	59.68	w	w	-0.6
West Virginia (Southern)	w	w	70.54	95.30	72.76	85.18	w	w	-17.2
Wyoming	w	w	14.05	w	w	14.02	w	w	0.2
U.S. Total	56.97	22.83	34.83	60.98	24.50	37.24	-6.6	-6.8	-6.5

- = 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, 'Annual Survey of Coal Production and Preparation.'

Table 29. Average Sales Price of Coal by State and Underground Mining Method, 2014

(dollars per short ton)

Coal-Producing State	Continuous ¹	Conventional and Other ²	Longwall ³	Total
Alabama	w	-	w	89.68
Arkansas	w	-	-	w
Colorado	w	-	w	37.28
Illinois	44.23	w	49.05	w
Indiana	49.52	-	-	49.52
Kentucky Total	w	w	-	57.12
Kentucky (East)	w	w	-	70.93
Kentucky (West)	w	w	-	50.29
Maryland	w	-	-	w
Montana	-	-	w	w
New Mexico	-	-	w	w
Ohio	w	-	w	50.61
Oklahoma	w	-	-	w
Pennsylvania Total	69.41	w	59.51	w
Pennsylvania (Anthracite)	w	w	-	70.00
Pennsylvania (Bituminous)	w	-	w	61.59
Tennessee	w	-	-	w
Utah	w	-	35.56	w
Virginia	w	-	w	78.78
West Virginia Total	79.77	w	60.35	w
West Virginia (Northern)	80.07	w	w	w
West Virginia (Southern)	79.73	-	w	w
Wyoming	-	-	w	w
U.S. Total	61.87	47.19	53.75	56.97

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, 'Annual Survey of Coal Production and Preparation.'

Table 30. Average Sales Price of Coal by State, County, and Number of Mines, 2014

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Alabama	32	17,359	87.17
Bibb	1	w	w
Franklin	2	w	w
Jefferson	9	5,764	103.31
Shelby	2	w	w
Tuscaloosa	6	8,693	79.37
Walker	10	1,886	79.19
Winston	2	w	w
Alaska	1	w	w
Denali	1	w	w
Arizona	1	w	w
Navajo	1	w	w
Arkansas	1	w	w
Sebastian	1	w	w
Colorado	9	24,536	38.64
Delta	1	w	w
Gunnison	1	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	22	55,842	47.11
Franklin	1	w	w
Gallatin	1	w	w
Hamilton	1	w	w
Jackson	1	w	w
Macoupin	1	w	w
Montgomery	1	w	w
Perry	4	w	w
Randolph	3	w	w
Saline	4	13,289	49.09
Sangamon	1	w	w
Wabash	1	w	w
Washington	1	w	w
White	1	w	w
Williamson	1	w	w
Indiana	28	38,501	48.41
Clay	1	w	w
Daviess	2	w	w
Dubois	2	w	w
Gibson	6	9,911	53.56
Greene	1	w	w
Knox	5	5,831	45.80
Pike	5	2,756	46.42
Sullivan	2	w	w
Warrick	4	5,425	44.57
Kansas	1	w	w
Linn	1	w	w
Kentucky	186	74,525	57.62
Bell	11	1,308	62.14
Breathitt	4	910	52.81
Clay	1	w	w
Daviess	1	w	w
Floyd	13	2,374	66.64
Harlan	17	4,706	65.50
Hopkins	4	12,057	52.67
Johnson	3	w	w

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Knott	9	2,071	55.57
Knox	5	520	69.78
Lawrence	5	765	61.82
Leslie	7	1,014	68.65
Letcher	11	1,745	65.14
Magoffin	2	w	w
Martin	6	2,150	69.41
Mclean	1	w	w
Muhlenberg	2	w	w
Ohio	6	8,437	46.20
Perry	17	5,706	65.53
Pike	50	9,218	72.14
Rockcastle	1	w	w
Union	3	w	w
Webster	2	w	w
Whitley	5	522	104.04
Louisiana	2	w	w
De Soto	1	w	w
Natchitoches	1	w	w
Maryland	13	1,979	50.62
Allegany	8	1,438	42.17
Garrett	5	541	73.09
Mississippi	2	w	w
Choctaw	1	w	w
Missouri	1	w	w
Bates	1	w	w
Montana	6	44,688	17.22
Big Horn	3	w	w
Musselshell	1	w	w
Richland	1	w	w
Rosebud	1	w	w
New Mexico	3	w	w
Mckinley	1	w	w
San Juan	2	w	w
North Dakota	4	28,664	17.99
Mclean	1	w	w
Mercer	2	w	w
Oliver	1	w	w
Ohio	25	22,168	49.54
Belmont	2	w	w
Carrroll	1	w	w
Guernsey	1	w	w
Harrison	5	3,350	48.59
Jackson	2	w	w
Jefferson	3	w	w
Monroe	1	w	w
Noble	1	w	w
Perry	3	w	w
Stark	1	w	w
Tuscarawas	3	w	w
Vinton	2	w	w
Oklahoma	4	924	44.98
Haskell	1	w	w
Le Flore	2	w	w
Nowata	1	w	w
Pennsylvania	123	59,812	61.82
Armstrong	9	2,066	60.81
Beaver	1	w	w
Bedford	1	w	w
Butler	1	w	w
Cambria	6	1,095	74.39
Carbon	1	w	w

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Centre	1	w	w
Clarion	1	w	w
Clearfield	17	2,937	67.77
Columbia	2	w	w
Elk	2	w	w
Fayette	1	w	w
Greene	6	29,272	58.24
Indiana	15	3,159	65.04
Jefferson	5	957	53.36
Luzerne	4	365	124.53
Lycoming	1	w	w
Mercer	1	w	w
Northumberland	5	183	48.02
Schuylkill	18	1,130	86.91
Somerset	17	2,803	78.64
Washington	5	14,426	61.08
Westmoreland	3	w	w
Tennessee	6	836	67.96
Campbell	2	w	w
Claiborne	4	745	67.96
Texas	13	44,296	18.20
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	2	w	w
Titus	2	w	w
Utah	8	17,824	35.59
Carbon	4	8,173	36.34
Emery	2	w	w
Kane	1	w	w
Sevier	1	w	w
Virginia	54	15,094	78.44
Buchanan	23	7,256	77.48
Dickenson	11	3,465	84.36
Russell	1	w	w
Tazewell	4	1,300	70.62
Wise	15	2,792	76.73
West Virginia	154	111,028	65.67
Barbour	1	w	w
Boone	22	14,057	67.32
Fayette	7	4,034	73.57
Greenbrier	7	999	92.20
Harrison	1	w	w
Kanawha	13	10,055	63.11
Logan	18	11,835	62.61
Marion	4	13,277	54.27
Marshall	2	w	w
Mcdowell	29	3,367	89.63
Mercer	1	w	w
Mingo	8	4,511	63.81
Monongalia	4	4,125	61.26
Nicholas	4	w	w
Ohio	1	w	w
Raleigh	15	6,276	90.61
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	1	w	w
Webster	5	2,100	68.12
Wyoming	7	4,493	79.22
Wyoming	17	395,377	14.05
Campbell	11	348,439	12.98
Converse	1	w	w
Lincoln	1	w	w
Sweetwater	3	w	w
Uinta	1	w	w
U.S. Total	716	988,230	34.83

- = 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, 'Annual Survey of Coal Production and Preparation.'

Table 31. Average Sales Price of Coal by State and Coal Rank, 2014

(dollars per short ton)

Coal-Producing State	Bituminous	Subbituminous	Lignite	Anthracite	Total
Alabama	87.17	-	-	-	87.17
Alaska	-	w	-	-	w
Arizona	w	-	-	-	w
Arkansas	w	-	-	-	w
Colorado	w	w	-	-	38.64
Illinois	47.11	-	-	-	47.11
Indiana	48.41	-	-	-	48.41
Kansas	w	-	-	-	w
Kentucky Total	57.62	-	-	-	57.62
Kentucky (East)	66.97	-	-	-	66.97
Kentucky (West)	49.58	-	-	-	49.58
Louisiana	-	-	w	-	w
Maryland	50.62	-	-	-	50.62
Mississippi	-	-	w	-	w
Missouri	w	-	-	-	w
Montana	w	16.06	w	-	17.22
New Mexico	w	w	-	-	40.28
North Dakota	-	-	17.99	-	17.99
Ohio	49.54	-	-	-	49.54
Oklahoma	44.98	-	-	-	44.98
Pennsylvania Total	60.93	-	-	90.98	61.82
Pennsylvania (Anthracite)	-	-	-	90.98	90.98
Pennsylvania (Bituminous)	60.93	-	-	-	60.93
Tennessee	67.96	-	-	-	67.96
Texas	-	-	18.20	-	18.20
Utah	35.59	-	-	-	35.59
Virginia	78.44	-	-	-	78.44
West Virginia Total	65.67	-	-	-	65.67
West Virginia (Northern)	59.31	-	-	-	59.31
West Virginia (Southern)	70.54	-	-	-	70.54
Wyoming	w	w	-	-	14.05
U.S. Total	55.99	14.72	19.44	90.98	34.83

-- 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, 'Annual Survey of Coal Production and Preparation.'

Table 32. Average Sales Price of Coal by Mine Production Range and Mine Type, 2014

(dollars per short ton)

Mine Production Range (thousand short tons)	Underground	Surface	Total
Over 1,000	53.25	18.86	30.21
Over 500 to 1,000	71.10	54.14	63.75
Over 200 to 500	73.62	59.55	67.15
Over 100 to 200	85.19	63.01	70.09
Over 50 to 100	72.47	63.97	67.16
50 or Under	76.44	61.34	65.70
U.S. Total	56.97	22.83	34.83

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, 'Annual Survey of Coal Production and Preparation.'

Table 33. Average Sales Price of U.S. Coal by State and Disposition, 2014

(dollars per short ton)

Coal-Producing State	Open Market ¹	Captive ²	Total ³
Alabama	84.48	-	87.17
Alaska	w	-	w
Arizona	w	-	w
Arkansas	w	w	w
Colorado	35.68	44.28	38.64
Illinois	w	w	47.11
Indiana	49.61	46.73	48.41
Kansas	w	-	w
Kentucky Total	57.07	65.50	57.62
Kentucky (East)	66.69	65.50	66.97
Kentucky (West)	49.58	-	49.58
Louisiana	w	-	w
Maryland	48.59	-	50.62
Mississippi	w	-	w
Missouri	w	-	w
Montana	w	w	17.22
New Mexico	w	w	w
North Dakota	w	w	17.99
Ohio	w	w	49.54
Oklahoma	44.98	-	44.98
Pennsylvania Total	w	w	61.82
Pennsylvania (Anthracite)	w	w	90.98
Pennsylvania (Bituminous)	w	w	60.93
Tennessee	67.96	-	67.96
Texas	26.36	15.17	18.20
Utah	w	w	35.59
Virginia	w	w	78.44
West Virginia Total	65.31	57.96	65.67
West Virginia (Northern)	w	w	59.31
West Virginia (Southern)	w	w	70.54
Wyoming	w	w	14.05
U.S. Total	35.72	22.45	34.83

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, 'Annual Survey of Coal Production and Preparation.'

Average Consumer Prices

Table 34. Average Price of Coal Delivered to End Use Sector by Census Division and State, 2014 and 2013

(dollars per short ton)

Census Division and State	2014				2013				Annual Percent Change			
	Electric Power ¹	Other Industrial	Commercial and Coke	Institutional	Electric Power ¹	Other Industrial	Commercial and Coke	Institutional	Electric Power ¹	Other Industrial	Commercial and Coke	Institutional
New England	80.10	w	-	-	86.43	w	-	-	-7.32	s	-	-
Connecticut	w	-	-	-	w	-	-	-	-2.48	-	-	-
Maine	w	w	-	-	w	w	-	-	8.65	2.66	-	-
Massachusetts	w	w	-	-	w	w	-	-	-7.40	s	-	-
New Hampshire	108.29	-	-	-	108.33	-	-	-	s	-	-	-
Rhode Island	w	-	-	-	-	-	-	-	w	-	-	-
Middle Atlantic	56.87	87.51	w	114.32	57.25	88.18	w	132.00	-0.66	-0.76	-18.27	-13.39
New Jersey	w	-	-	-	w	-	-	-	2.60	-	-	-
New York	w	107.79	w	-	w	105.99	w	-	0.96	1.70	-9.90	-
Pennsylvania	54.94	80.12	w	114.32	55.60	79.96	w	132.00	-1.19	s	-18.35	-13.39
East North Central	46.81	75.08	134.65	86.87	45.79	79.00	157.52	91.59	2.23	-4.96	-14.52	-5.15
Illinois	w	47.16	w	57.88	33.20	50.22	w	58.50	w	-6.09	-16.30	-1.06
Indiana	w	93.26	142.85	72.25	w	101.54	w	72.51	1.02	-8.15	w	s
Michigan	w	92.29	w	w	w	92.45	w	w	-0.72	s	-12.17	-2.60
Ohio	w	85.62	123.25	115.57	w	87.47	150.65	125.01	2.25	-2.12	-18.19	-7.55
Wisconsin	41.97	88.84	-	151.89	41.68	87.42	-	151.34	0.70	1.62	-	s
West North Central	29.78	36.67	-	80.64	29.31	35.74	-	80.11	1.60	2.60	-	0.66
Iowa	28.82	47.26	-	w	28.65	48.19	-	w	0.59	-1.93	-	-2.81
Kansas	31.01	w	-	-	30.59	w	-	-	1.37	8.89	-	-
Minnesota	34.71	61.49	-	w	35.67	61.26	-	w	-2.69	s	-	10.61
Missouri	35.19	60.07	-	w	33.50	59.53	-	w	5.04	0.91	-	-2.02
Nebraska	23.64	32.93	-	-	24.43	32.44	-	-	-3.23	1.51	-	-
North Dakota	20.26	w	-	53.93	20.45	w	-	51.12	-0.93	17.85	-	5.50
South Dakota	34.75	w	-	-	33.46	w	-	-	3.86	5.74	-	-
South Atlantic	72.56	97.26	w	116.46	74.85	98.56	w	119.71	-3.06	-1.32	-23.11	-2.71
Delaware	w	-	-	-	w	-	-	-	1.16	-	-	-
District of Columbia	-	-	-	w	-	-	-	-	-	-	-	w
Florida	w	111.06	-	-	w	114.73	-	-	-2.51	-3.20	-	-
Georgia	62.02	110.61	-	w	62.50	106.98	-	w	-0.77	3.39	-	-2.26
Maryland	74.28	w	-	w	85.04	w	-	w	-12.65	16.61	-	-3.09
North Carolina	88.73	103.52	-	w	93.76	104.46	-	w	-5.36	-0.90	-	0.85
South Carolina	90.77	107.72	-	-	94.02	106.28	-	-	-3.46	1.35	-	-
Virginia	w	99.73	w	89.84	w	103.60	w	96.65	s	-3.74	-30.31	-7.05
West Virginia	58.45	93.11	w	-	60.20	105.16	w	-	-2.91	-11.46	-11.98	-
East South Central	w	96.76	w	104.27	w	100.09	w	111.49	s	-3.33	-13.50	-6.48
Alabama	54.97	96.80	w	-	56.67	103.53	w	-	-3.00	-6.50	-13.50	-
Kentucky	53.18	95.05	-	w	53.30	99.70	-	w	s	-4.66	-	-10.42
Mississippi	w	w	-	-	w	w	-	-	-2.03	3.23	-	-
Tennessee	51.19	97.66	-	w	49.09	98.67	-	w	4.28	-1.02	-	-5.43
West South Central	33.26	76.67	-	w	33.31	78.70	-	w	s	-2.58	-	-4.55
Arkansas	w	w	-	-	w	w	-	-	1.29	s	-	-
Louisiana	w	w	-	-	w	w	-	-	-4.24	3.12	-	-
Oklahoma	w	66.44	-	-	w	w	-	-	-2.72	w	-	-
Texas	30.69	80.74	-	w	30.30	83.45	-	w	1.29	-3.25	-	-4.55
Mountain	39.42	55.58	-	w	36.06	53.26	-	w	9.32	4.36	-	4.96
Arizona	40.81	w	-	-	40.49	w	-	-	0.79	-0.53	-	-
Colorado	36.94	65.54	-	w	36.20	64.76	-	w	2.04	1.20	-	s
Idaho	-	69.10	-	w	-	59.68	-	w	-	15.78	-	2.21
Montana	w	40.55	-	-	w	41.31	-	-	-10.02	-1.84	-	-
Nevada	w	72.53	-	-	w	72.14	-	-	1.47	0.54	-	-
New Mexico	67.86	w	-	-	41.30	w	-	-	64.31	7.32	-	-
Utah	46.49	53.44	-	-	45.17	52.46	-	-	2.92	1.87	-	-
Wyoming	w	45.49	-	w	w	42.26	-	w	2.79	7.64	-	4.70
Pacific	43.52	85.75	-	73.75	41.42	85.21	-	74.61	5.07	0.63	-	-1.15
Alaska	-	-	-	73.75	-	-	-	74.61	-	-	-	-1.15

Census Division and State	2014				2013				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
California	w	84.52	-	-	w	84.81	-	-	0.65	s	-	-
Hawaii	w	w	-	-	w	w	-	-	1.83	0.9	-	-
Oregon	42.62	w	-	-	32.98	w	-	-	29.23	-6.43	-	-
Washington	w	w	-	-	w	w	-	-	-0.52	2.13	-	-
U.S. Total	45.66	68.20	131.41	87.87	45.03	69.16	156.99	90.51	1.40	-1.39	-16.29	-2.92

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.

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

Source: U.S. Energy Information Administration Form EIA-923, 'Power Plant Operations Report,' and Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'