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Preface

The *Annual Coal Report* (ACR) provides information about U.S. coal production, number of mines, prices, productivity, employment, productive capacity, and recoverable reserves to a wide audience, including Congress, Federal, and State agencies, the coal industry, and the general public. This report is published by the U.S. Energy Information Administration (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 coal production, prices, recoverable reserves, employment, productivity, productive capacity, consumption, and stocks. U.S. coal production, employment, and productivity are based on the U.S. Department of Labor's Mine Safety and Health Administration's Form 7000-2, "Quarterly Mine

Employment and Coal Production Report." Prices, recoverable reserves, and productive capacity are based on EIA's annual survey form, EIA-7A, "Coal Production and Preparation Report."

This report is the 36th annual report on coal production published by EIA and continues the series formerly included in the *Minerals Yearbook* published by the Bureau of Mines. All data for 2011 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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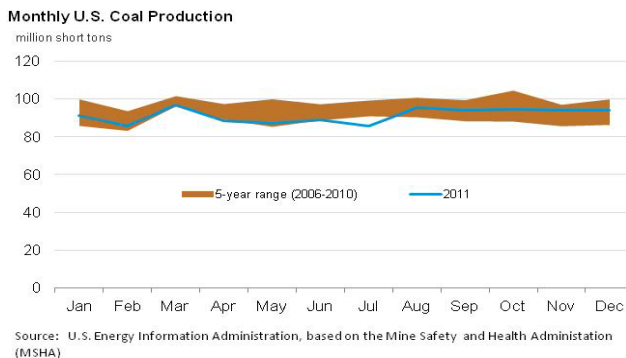
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Executive Summary

Production

Coal production in 2011 increased slightly from 2010, driven by export demand, to roughly 1.1 billion short tons. Underground and surface production increased 2.5 and 0.4 percent, respectively. Also, the total number of mines in the United States increased 3.1 percent in 2011.



Regional production varied. Production in the Western Region of the United States (587.6 million short tons) declined 0.7 percent from 2010. The region, which includes Wyoming, was affected by the decrease in coal-fired electricity generation and limited access to foreign markets. Western production during 2011 was also affected by flooding in Montana.

Appalachian production (336.0 million short tons) increased 0.2 percent from 2010. The increase was largely due to increased production and exports of bituminous coal from the region.

Coal production in the Interior region (170.3 million short tons) increased 9.4 percent from 2010. Texas, Illinois, and Indiana increased production 12.0, 13.6, and 7.1 percent, respectively. While demand for coal from several new power plants in Texas drove the State's production in 2011, export demand led to production increases in the latter two States.

Productive Capacity

In 2011, productive capacity of coal mines increased by 2.5 million short tons to 1.3 billion short tons. Capacity utilization increased 2.83 percentage points to 79.3 percent at underground mines, while utilization at

surface mines (83.3 percent) remained similar to the 2010 level.

Employment

In 2011, the average number of employees in U.S. coal mines increased 6.3 percent to 91,611 (including refuse recovery). In addition, average employment at surface and underground mines increased 4.3 and 7.7 percent, respectively. Arizona, Kansas, Louisiana, Mississippi, Oklahoma, Tennessee, and Utah, however, experienced decreases in mine employment.

Consumption

In 2011, domestic consumption of metallurgical coal by the coking industry rose 1.6 percent to 21.4 million short tons. In contrast, consumption of steam coal by the electric power, industrial, and commercial and institutional sectors decreased 4.4, 6.2, and 9.3 percent, respectively. Mild winter weather led to a decline in total electricity generation, leaving high stock levels. Natural gas prices also declined during 2011, allowing facilities that can use both coal and natural gas to alternate between fuels and company that have portfolios of coal and natural gas plants to utilize their gas plants more.

Sales

The average sales price of coal increased 15.2 percent to \$41.01 per short ton. However, the change in average sales price of coal from underground mines was greater (16.0 percent) than the change in average sales price of coal from surface mines (11.9 percent). Significant changes in 2011 include:

- average sales price of coal from Virginia (\$135.14 per short ton) rose 37.3 percent from 2010 level to the highest price in the Nation;
- change in average sales price of coal from Pennsylvania (\$79.47 per short ton) and West Virginia (\$84.81 per short ton) was 27.1 and 21.0 percent, respectively; and
- average sales price of metallurgical coal from underground mines in Alabama and Southern West Virginia increased to more than \$100 per short ton.

Coal Production

Table 1. Coal production and number of mines by State and mine type, 2011, 2010

(thousand short tons)

Coal-Producing State and Region ¹	2011		2010		Percent Change	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	52	19,071	50	19,915	4.0	-4.2
Underground	9	10,879	8	12,513	12.5	-13.1
Surface	43	8,192	42	7,402	2.4	10.7
Alaska	1	2,149	1	2,151	-	-0.1
Surface	1	2,149	1	2,151	-	-0.1
Arizona	1	8,111	1	7,752	-	4.6
Surface	1	8,111	1	7,752	-	4.6
Arkansas	2	133	2	32	-	312.8
Underground	1	127	1	31	-	306.6
Surface	1	7	1	1	-	480.7
Colorado	10	26,890	10	25,163	-	6.9
Underground	7	21,508	7	20,085	-	7.1
Surface	3	5,382	3	5,078	-	6.0
Illinois	24	37,770	22	33,241	9.1	13.6
Underground	15	32,717	14	28,286	7.1	15.7
Surface	9	5,053	8	4,955	12.5	2.0
Indiana	28	37,426	29	34,950	-3.5	7.1
Underground	8	16,469	8	14,287	-	15.3
Surface	20	20,957	21	20,663	-4.8	1.4
Kansas	1	37	1	133	-	-71.9
Surface	1	37	1	133	-	-71.9
Kentucky Total	400	108,766	392	104,960	2.0	3.6
Underground	169	65,248	171	63,993	-1.2	2.0
Surface	231	43,518	221	40,967	4.5	6.2
Eastern (Kentucky)	375	67,930	367	68,063	2.2	-0.2
Underground	156	33,345	159	34,388	-1.9	-3.0
Surface	219	34,585	208	33,675	5.3	2.7
Western (Kentucky)	25	40,836	25	36,897	-	10.7
Underground	13	31,903	12	29,605	8.3	7.8
Surface	12	8,933	13	7,293	-7.7	22.5
Louisiana	1	3,865	2	3,945	-50.0	-2.0
Surface	1	3,865	2	3,945	-50.0	-2.0
Maryland	22	2,937	22	2,585	-	13.6
Underground	3	873	3	677	-	28.9
Surface	19	2,064	19	1,908	-	8.2
Mississippi	1	2,747	1	4,004	-	-31.4
Surface	1	2,747	1	4,004	-	-31.4
Missouri	2	465	2	458	-	1.4
Surface	2	465	2	458	-	1.4
Montana	6	42,008	6	44,732	-	-6.1
Underground	1	5,136	1	4,389	-	17.0
Surface	5	36,873	5	40,343	-	-8.6
New Mexico	4	21,922	4	20,991	-	4.4
Underground	1	3,983	1	4,932	-	-19.2
Surface	3	17,939	3	16,059	-	11.7
North Dakota	4	28,231	4	28,949	-	-2.5
Surface	4	28,231	4	28,949	-	-2.5
Ohio	46	28,166	42	26,707	9.5	5.5
Underground	10	18,972	10	17,463	-	8.6
Surface	36	9,194	32	9,244	12.5	-0.5
Oklahoma	6	1,145	10	1,010	-40.0	13.3
Underground	1	408	2	394	-50.0	3.7
Surface	5	736	8	617	-37.5	19.4
Pennsylvania Total	242	59,182	240	58,593	0.8	1.0
Underground	48	47,317	44	47,667	9.1	-0.7
Surface	194	11,865	196	10,926	-1.0	8.6
Anthracite (Pennsylvania)	60	2,131	59	1,705	1.7	25.0
Underground	10	166	9	139	11.1	20.0

Coal-Producing State and Region ¹	2011		2010		Percent Change	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Surface	50	1,965	50	1,566	-	25.4
Bituminous (Pennsylvania)	182	57,051	181	56,888	0.6	0.3
Underground	38	47,151	35	47,529	8.6	-0.8
Surface	144	9,900	146	9,359	-1.4	5.8
Tennessee	21	1,547	19	1,780	10.5	-13.1
Underground	6	423	5	555	20.0	-23.8
Surface	15	1,124	14	1,225	7.1	-8.3
Texas	13	45,904	12	40,982	8.3	12.0
Surface	13	45,904	12	40,982	8.3	12.0
Utah	8	19,648	8	19,351	-	1.5
Underground	8	19,648	8	19,351	-	1.5
Virginia	110	22,523	106	22,385	3.8	0.6
Underground	61	15,461	61	14,169	-	9.1
Surface	49	7,061	45	8,217	8.9	-14.1
West Virginia Total	273	134,662	252	135,220	8.3	-0.4
Underground	159	83,395	152	84,544	4.6	-1.4
Surface	114	51,267	100	50,676	14.0	1.2
Northern (West Virginia)	38	41,849	34	41,306	11.8	1.3
Underground	21	38,590	19	37,302	10.5	3.5
Surface	17	3,259	15	4,004	13.3	-18.6
Southern (West Virginia)	235	92,813	218	93,914	7.8	-1.2
Underground	138	44,805	133	47,242	3.8	-5.2
Surface	97	48,008	85	46,671	14.1	2.9
Wyoming	18	438,673	19	442,522	-5.3	-0.9
Underground	1	3,043	1	3,819	-	-20.3
Surface	17	435,630	18	438,703	-5.6	-0.7
Appalachian Total	1,141	336,017	1,098	335,248	3.9	0.2
Underground	452	210,664	442	211,976	2.3	-0.6
Surface	689	125,353	656	123,271	5.0	1.7
Northern Appalachian	348	132,133	338	129,191	3.0	2.3
Underground	82	105,751	76	103,109	7.9	2.6
Surface	266	26,382	262	26,082	1.5	1.2
Central Appalachian	741	184,813	710	186,142	4.4	-0.7
Underground	361	94,034	358	96,354	0.8	-2.4
Surface	380	90,779	352	89,788	8.0	1.1
Southern Appalachian	52	19,071	50	19,915	4.0	-4.2
Underground	9	10,879	8	12,513	12.5	-13.1
Surface	43	8,192	42	7,402	2.4	10.7
Interior Total	103	170,327	106	155,653	-2.8	9.4
Underground	38	81,624	37	72,603	2.7	12.4
Surface	65	88,703	69	83,050	-5.8	6.8
Illinois Basin	77	116,032	76	105,089	1.3	10.4
Underground	36	81,089	34	72,178	5.9	12.4
Surface	41	34,943	42	32,911	-2.4	6.2
Western Total	52	587,633	53	591,611	-1.9	-0.7
Underground	18	53,317	18	52,576	-	1.4
Surface	34	534,316	35	539,035	-2.9	-0.9
Powder River Basin	16	462,600	16	468,428	-	-1.2
Surface	16	462,600	16	468,428	-	-1.2
Uinta	15	45,542	16	43,699	-6.3	4.2
Underground	13	40,520	14	38,914	-7.1	4.1
Surface	2	5,022	2	4,785	-	5.0
East of Mississippi River	1,219	454,796	1,175	444,340	3.7	2.4
West of Mississippi River	77	639,181	82	638,171	-6.1	0.2
U.S. Subtotal	1,296	1,093,977	1,257	1,082,511	3.1	1.1
Refuse Recovery	29	1,650	28	1,857	3.6	-11.1
U.S. Total	1,325	1,095,628	1,285	1,084,368	3.1	1.0

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

- = No data are reported.

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

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

Table 2. Coal production and number of mines by State, County, and mine type, 2011

(thousand short tons)

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	9	10,879	43	8,192	52	19,071
Bibb	-	-	2	175	2	175
Blount	-	-	3	288	3	288
Fayette	1	2,707	-	-	1	2,707
Franklin	-	-	2	198	2	198
Jackson	-	-	2	29	2	29
Jefferson	3	2,339	9	1,101	12	3,439
Marion	-	-	1	119	1	119
Shelby	1	66	1	257	2	323
Tuscaloosa	2	5,733	7	2,555	9	8,288
Walker	2	33	14	2,774	16	2,808
Winston	-	-	2	697	2	697
Alaska	-	-	1	2,149	1	2,149
Yukon-Koyukuk Division	-	-	1	2,149	1	2,149
Arizona	-	-	1	8,111	1	8,111
Navajo	-	-	1	8,111	1	8,111
Arkansas	1	127	1	7	2	133
Sebastian	1	127	1	7	2	133
Colorado	7	21,508	3	5,382	10	26,890
Delta	1	2,235	-	-	1	2,235
Gunnison	2	8,904	-	-	2	8,904
La Plata	1	618	-	-	1	618
Las Animas	1	18	-	-	1	18
Moffat	-	-	2	5,022	2	5,022
Montrose	-	-	1	360	1	360
Rio Blanco	1	1,984	-	-	1	1,984
Routt	1	7,749	-	-	1	7,749
Illinois	15	32,717	9	5,053	24	37,770
Franklin	1	893	-	-	1	893
Gallatin	-	-	2	1,950	2	1,950
Jackson	-	-	1	381	1	381
Macoupin	2	2,764	-	-	2	2,764
Mcdonough	-	-	1	166	1	166
Montgomery	1	491	-	-	1	491
Perry	2	2,710	2	840	4	3,549
Randolph	1	3,335	1	140	2	3,475
Saline	4	9,999	1	301	5	10,300
Sangamon	1	2,098	-	-	1	2,098
Wabash	-	-	1	1,275	1	1,275
Washington	1	1,002	-	-	1	1,002
White	1	2,199	-	-	1	2,199
Williamson	1	7,227	-	-	1	7,227
Indiana	8	16,469	20	20,957	28	37,426
Daviess	-	-	3	2,743	3	2,743
Dubois	-	-	1	1,152	1	1,152
Gibson	2	6,344	2	4,339	4	10,683
Knox	4	4,370	2	510	6	4,880
Pike	1	2,458	5	1,580	6	4,038
Sullivan	1	3,297	1	6,616	2	9,913
Vigo	-	-	1	426	1	426
Warrick	-	-	5	3,590	5	3,590
Kansas	-	-	1	37	1	37
Bourbon	-	-	1	37	1	37
Kentucky	169	65,248	231	43,518	400	108,766
Bell	5	575	14	1,020	19	1,594
Boyd	-	-	1	406	1	406
Breathitt	1	744	4	91	5	835
Clay	1	3	8	377	9	380

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Daviess	-	-	1	405	1	405
Elliott	-	-	1	47	1	47
Floyd	13	965	20	2,194	33	3,159
Harlan	30	7,017	26	2,857	56	9,873
Henderson	1	1,240	1	1,206	2	2,446
Hopkins	4	12,386	-	-	4	12,386
Johnson	-	-	5	236	5	236
Knott	11	2,749	10	1,793	21	4,542
Knox	2	13	8	303	10	316
Lawrence	-	-	5	63	5	63
Leslie	6	1,862	10	2,356	16	4,218
Letcher	20	3,324	13	1,064	33	4,388
Magoffin	1	105	5	2,893	6	2,998
Martin	8	3,837	9	1,696	17	5,532
Muhlenberg	2	3,204	5	2,390	7	5,593
Ohio	2	610	5	4,932	7	5,542
Owsley	-	-	4	69	4	69
Perry	7	3,944	21	9,539	28	13,483
Pike	50	8,106	45	7,125	95	15,230
Union	3	12,333	-	-	3	12,333
Webster	1	2,130	-	-	1	2,130
Whitley	1	103	10	456	11	560
Louisiana	-	-	1	3,865	1	3,865
De Soto	-	-	1	3,865	1	3,865
Maryland	3	873	19	2,064	22	2,937
Allegany	1	618	12	1,448	13	2,066
Garrett	2	255	7	617	9	871
Mississippi	-	-	1	2,747	1	2,747
Choctaw	-	-	1	2,747	1	2,747
Missouri	-	-	2	465	2	465
Bates	-	-	2	465	2	465
Montana	1	5,136	5	36,873	6	42,008
Big Horn	-	-	3	27,733	3	27,733
Musselshell	1	5,136	-	-	1	5,136
Richland	-	-	1	355	1	355
Rosebud	-	-	1	8,785	1	8,785
New Mexico	1	3,983	3	17,939	4	21,922
Mckinley	-	-	2	10,073	2	10,073
San Juan	1	3,983	1	7,867	2	11,850
North Dakota	-	-	4	28,231	4	28,231
Mclean	-	-	1	7,477	1	7,477
Mercer	-	-	2	16,563	2	16,563
Oliver	-	-	1	4,191	1	4,191
Ohio	10	18,972	36	9,194	46	28,166
Belmont	1	6,416	2	1,008	3	7,424
Carroll	1	189	1	10	2	200
Columbiana	-	-	2	130	2	130
Coshocton	-	-	1	165	1	165
Guernsey	-	-	1	213	1	213
Harrison	1	1,345	7	2,594	8	3,939
Jackson	-	-	1	391	1	391
Jefferson	2	423	5	952	7	1,375
Mahoning	-	-	1	5	1	5
Meigs	1	444	-	-	1	444
Monroe	1	7,081	-	-	1	7,081
Muskingum	-	-	1	36	1	36
Noble	-	-	2	740	2	740
Perry	2	2,502	1	777	3	3,278
Stark	-	-	2	226	2	226
Tuscarawas	1	573	7	1,027	8	1,599
Vinton	-	-	2	921	2	921
Oklahoma	1	408	5	736	6	1,145
Craig	-	-	1	75	1	75
Haskell	-	-	1	204	1	204

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Le Flore	1	408	1	201	2	609
Nowata	-	-	1	254	1	254
Okmulgee	-	-	1	3	1	3
Pennsylvania	48	47,317	194	11,865	242	59,182
Allegheny	-	-	3	65	3	65
Armstrong	7	2,543	8	290	15	2,833
Beaver	1	189	-	-	1	189
Bedford	-	-	2	60	2	60
Blair	-	-	1	30	1	30
Butler	-	-	3	353	3	353
Cambria	2	849	9	527	11	1,375
Cameron	-	-	2	70	2	70
Centre	-	-	1	101	1	101
Clarion	-	-	3	202	3	202
Clearfield	3	1,602	41	2,287	44	3,889
Columbia	-	-	3	197	3	197
Dauphin	1	4	-	-	1	4
Elk	1	154	5	171	6	325
Fayette	-	-	10	230	10	230
Greene	5	26,298	1	54	6	26,352
Indiana	10	2,539	13	374	23	2,913
Jefferson	1	129	11	969	12	1,098
Lackawanna	-	-	1	15	1	15
Luzerne	-	-	6	302	6	302
Lycoming	-	-	1	223	1	223
Mercer	-	-	1	55	1	55
Northumberland	4	116	5	141	9	256
Schuylkill	5	47	35	1,310	40	1,356
Somerset	7	2,658	16	2,901	23	5,559
Venango	-	-	3	32	3	32
Washington	1	10,190	3	701	4	10,891
Westmoreland	-	-	7	205	7	205
Tennessee	6	423	15	1,124	21	1,547
Anderson	1	51	3	199	4	250
Campbell	3	123	8	712	11	836
Claiborne	2	248	3	213	5	461
Fentress	-	-	1	-	1	-
Texas	-	-	13	45,904	13	45,904
Atascosa	-	-	1	3,204	1	3,204
Freestone	-	-	2	3,653	2	3,653
Harrison	-	-	1	4,041	1	4,041
Hopkins	-	-	1	1,267	1	1,267
Lee	-	-	1	7,192	1	7,192
Leon	-	-	1	4,222	1	4,222
Limestone	-	-	1	8,631	1	8,631
Panola	-	-	2	7,055	2	7,055
Robertson	-	-	1	1,826	1	1,826
Rusk	-	-	1	3,228	1	3,228
Titus	-	-	1	1,584	1	1,584
Utah	8	19,648	-	-	8	19,648
Carbon	5	9,435	-	-	5	9,435
Emery	2	3,715	-	-	2	3,715
Sevier	1	6,498	-	-	1	6,498
Virginia	61	15,461	49	7,061	110	22,523
Buchanan	23	7,521	12	1,794	35	9,316
Dickenson	8	938	5	393	13	1,332
Giles	-	-	1	151	1	151
Lee	3	277	3	233	6	510
Russell	4	697	3	184	7	881
Tazewell	1	456	3	662	4	1,119
Wise	22	5,571	22	3,643	44	9,214
West Virginia	159	83,395	114	51,267	273	134,662
Barbour	1	1,243	2	49	3	1,292
Boone	27	10,040	12	12,187	39	22,227

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Brooke	-	-	1	124	1	124
Clay	1	339	1	2,165	2	2,504
Fayette	6	2,147	5	4,067	11	6,214
Grant	1	120	-	-	1	120
Greenbrier	4	770	3	735	7	1,505
Harrison	2	503	2	32	4	536
Kanawha	11	6,492	14	2,826	25	9,318
Lincoln	2	959	1	362	3	1,321
Logan	13	6,747	13	10,247	26	16,994
Marion	3	11,615	1	19	4	11,634
Marshall	2	14,402	-	-	2	14,402
Mcdowell	24	2,490	15	2,223	39	4,712
Mercer	-	-	1	82	1	82
Mineral	-	-	2	76	2	76
Mingo	16	3,378	11	4,589	27	7,967
Monongalia	3	5,427	4	784	7	6,211
Nicholas	5	850	8	2,760	13	3,611
Ohio	1	275	-	-	1	275
Preston	1	30	-	-	1	30
Raleigh	12	3,974	7	3,458	19	7,433
Randolph	1	606	-	-	1	606
Taylor	1	10	1	4	2	13
Tucker	1	2,318	1	67	2	2,385
Upshur	1	648	1	52	2	700
Wayne	3	3,627	3	824	6	4,451
Webster	3	1,393	2	2,051	5	3,444
Wyoming	14	2,992	3	1,483	17	4,475
Wyoming	1	3,043	17	435,630	18	438,673
Campbell	-	-	11	389,022	11	389,022
Converse	-	-	1	37,060	1	37,060
Hot Springs	-	-	1	29	1	29
Lincoln	-	-	1	4,567	1	4,567
Sweetwater	1	3,043	3	4,952	4	7,995
U.S. Subtotal	508	345,606	788	748,372	1,296	1,093,977
Refuse Recovery	-	-	-	-	29	1,650
U.S. Total	508	345,606	788	748,372	1,325	1,095,628

-- No data are 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, 2011

(thousand short tons)

Coal-Producing State and Region ¹	Continuous ²	Conventional and Other ³	Longwall ⁴	Total
Alabama	144	7	10,728	10,879
Arkansas	127	-	-	127
Colorado	618	18	20,872	21,508
Illinois	18,744	-	13,973	32,717
Indiana	16,469	-	-	16,469
Kentucky Total	62,598	2,650	-	65,248
Eastern (Kentucky)	30,696	2,650	-	33,345
Western (Kentucky)	31,903	-	-	31,903
Maryland	843	30	-	873
Montana	-	-	5,136	5,136
New Mexico	-	-	3,983	3,983
Ohio	5,475	-	13,496	18,972
Oklahoma	408	-	-	408
Pennsylvania Total	12,004	50	35,264	47,317
Anthracite (Pennsylvania)	126	40	-	166
Bituminous (Pennsylvania)	11,877	10	35,264	47,151
Tennessee	421	2	-	423
Utah	1,098	-	18,550	19,648
Virginia	9,683	124	5,654	15,461
West Virginia Total	44,488	181	38,727	83,395
Northern (West Virginia)	6,501	27	32,062	38,590
Southern (West Virginia)	37,986	154	6,665	44,805
Wyoming	-	-	3,043	3,043
Appalachian Total	103,752	3,044	103,869	210,664
Northern Appalachian	24,823	107	80,822	105,751
Central Appalachian	78,785	2,930	12,320	94,034
Southern Appalachian	144	7	10,728	10,879
Interior Total	67,651	-	13,973	81,624
Illinois Basin	67,116	-	13,973	81,089
Western Total	1,716	18	51,583	53,317
Uinta	1,098	-	39,421	40,520
East of Mississippi River	170,868	3,044	117,841	291,753
West of Mississippi River	2,251	18	51,583	53,852
U.S. Total	173,119	3,061	169,425	345,606

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 methods, or mines that 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 are reported.

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

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

Table 4. Coal production by coalbed thickness and mine type, 2011

(thousand short tons)

Coal Thickness (inches)	Underground	Surface	Total
<7	-	54	54
7-12	-	3,246	3,246
13-18	440	7,431	7,871
19-24	858	17,127	17,985
25-30	4,231	15,383	19,614
31-36	19,105	46,722	65,827
37-42	24,538	20,039	44,576
43-48	28,906	16,593	45,499
49-54	20,032	19,594	39,626
55-60	30,283	13,620	43,903
61-66	48,942	17,309	66,251
67-72	63,789	13,398	77,187
73-78	18,850	1,636	20,486
79-84	9,733	5,110	14,843
85-90	14,638	688	15,326
91-96	8,046	6,158	14,204
97-102	16,853	15,874	32,727
103-108	6,860	9,421	16,281
109-114	156	4,772	4,929
115-120	6,951	5,879	12,831
>120	21,715	505,715	527,430
Unknown *	679	2,602	4,932
U.S. Total	345,606	748,372	1,095,628

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

- = No data are reported.

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

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

Table 5. Coal production and coalbed thickness by major coalbeds and mine type, 2011

Coalbed ID Number ¹ Coalbed Name	Production (thousand short tons)			Thickness (inches)			
	Underground	Surface	Total	Average ²	Low	High	
1699	Wyodak	-	394,726	394,726	772	160	900
0212	Pittsburgh	56,078	590	56,667	73	15	150
0489	No. 9	41,355	9,686	51,042	63	24	78
0484	Herrin (Illinois No. 6)	37,228	2,670	39,898	69	34	85
0036	Pittsburgh	23,648	3,728	27,377	69	18	96
0111	Coalburg	5,399	16,005	21,404	75	8	134
1696	Anderson-Dietz 1-Dietz 2	-	21,093	21,093	931	660	960
0084	Lower Kittanning	9,987	8,344	18,331	63	12	210
1787	Roland	-	17,889	17,889	442	276	660
1569	Beulah-Zap	-	16,270	16,270	194	114	210
1701	Smith	-	13,467	13,467	821	360	912
0151	Upper Elkhorn No. 3	9,915	3,200	13,116	44	7	115
0103	Stockton-Lewiston	3,516	8,702	12,219	58	12	132
1570	Hagel	-	10,411	10,411	138	135	144
0168	Lower Elkhorn	7,163	2,560	9,723	43	16	80
0344	Pocahontas No. 3	9,516	94	9,610	58	28	68
0121	Winifrede	4,246	5,058	9,304	55	10	110
1808	Rosebud	-	8,785	8,785	276	276	276
0280	Blue Creek	7,580	723	8,303	52	10	71
0071	Upper Freeport	6,325	1,942	8,268	56	11	124
0176	Eagle	6,251	1,559	7,810	43	8	52
1750	Wadge	7,749	-	7,749	100	100	100
0480	Danville No. 7	1,139	6,596	7,734	53	16	92
0157	Alma	5,899	1,773	7,672	44	12	79
0135	Hazard No. 4	3,556	3,774	7,329	45	8	108
Major Coalbeds Total	246,551	559,647	806,198	460	7	960	
Other Coalbeds	98,375	186,123	284,498	78	6	540	
Unknown *	679	2,602	4,932	NA	NA	NA	
U.S. Total	345,606	748,372	1,095,628	359	-	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 are reported.

NA = Not Available.

Note: Major coalbeds for this table are the top 25 producing coalbeds. The category 'Other Coalbeds' includes all coalbeds from which less than 8.0 million short tons were produced during the year. In some regions, coalbeds are characteristically discontinuous or uncorrelatable from one location to another, and production is identified by the geological formations, coal groups, or coal zones of the native rock where the coalbeds occur. These types of coalbeds are found primarily in the Rocky Mountain States and even in the Gulf Coast lignite belt. Coalbeds of these types are also included in 'Other Coalbeds,' even though production may exceed 8.0 million short tons. Totals may not equal sum of components due to independent rounding. The coalbed name given is the name most commonly used in the State having the greatest production from that coalbed. The States having greatest production for each coalbed are Alabama (coalbed 0280); Colorado (1750); Illinois (0484); Indiana (0483); Eastern Kentucky (0100, 0135, 0142, 0151, and 0168); Western Kentucky (0489); Montana (1699 and 1808); New Mexico (1488); North Dakota (1569); Pennsylvania (0036 and 0071); West Virginia (0084, 00103, 0111, 0121, 0157, and 0176); and Wyoming (1697, 1699, and 1787). In some other States where these are major producing beds, the following alternative coalbed names are also used: 0084, No.5 (Ohio); 0111, Peach Orchard (Eastern Kentucky); 0121, Quakertown (Pennsylvania); 0157, Windrock (Tennessee); Phillips (Virginia); Chilton (West Virginia); 0142, Lower Splint (Virginia); 0151, Jellico (Tennessee); Taggart (Virginia); Cedar Grove (West Virginia); 0157, Elkhorn No. 1 (East Kentucky); Rich Mountain (Tennessee); 0168, Imboden (Virginia); No. 2 Gas (West Virginia); 0176, Middle Eagle (West Virginia); 0484, No. 11 (Western Kentucky); 0489, No. 5 (Illinois and Indiana).

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

Table 6. Coal production and number of mines by State and coal rank, 2011

(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	52	19,071	-	-	-	-	-	-	52	19,071
Alaska	-	-	1	2,149	-	-	-	-	1	2,149
Arizona	1	8,111	-	-	-	-	-	-	1	8,111
Arkansas	2	133	-	-	-	-	-	-	2	133
Colorado	8	21,868	2	5,022	-	-	-	-	10	26,890
Illinois	24	37,770	-	-	-	-	-	-	24	37,770
Indiana	28	37,426	-	-	-	-	-	-	28	37,426
Kansas	1	37	-	-	-	-	-	-	1	37
Kentucky Total	400	108,766	-	-	-	-	-	-	400	108,766
Eastern (Kentucky)	375	67,930	-	-	-	-	-	-	375	67,930
Western (Kentucky)	25	40,836	-	-	-	-	-	-	25	40,836
Louisiana	-	-	-	-	1	3,865	-	-	1	3,865
Maryland	22	2,937	-	-	-	-	-	-	22	2,937
Mississippi	-	-	-	-	1	2,747	-	-	1	2,747
Missouri	2	465	-	-	-	-	-	-	2	465
Montana	1	5,136	4	36,518	1	355	-	-	6	42,008
New Mexico *	4	17,989	1	3,933	-	-	-	-	5	21,922
North Dakota	-	-	-	-	4	28,231	-	-	4	28,231
Ohio	46	28,166	-	-	-	-	-	-	46	28,166
Oklahoma	6	1,145	-	-	-	-	-	-	6	1,145
Pennsylvania Total	182	57,051	-	-	-	-	60	2,131	242	59,182
Anthracite (Pennsylvania)	-	-	-	-	-	-	60	2,131	60	2,131
Bituminous (Pennsylvania)	182	57,051	-	-	-	-	-	-	182	57,051
Tennessee	21	1,547	-	-	-	-	-	-	21	1,547
Texas	-	-	-	-	13	45,904	-	-	13	45,904
Utah	8	19,648	-	-	-	-	-	-	8	19,648
Virginia	110	22,523	-	-	-	-	-	-	110	22,523
West Virginia Total	273	134,662	-	-	-	-	-	-	273	134,662
Northern (West Virginia)	38	41,849	-	-	-	-	-	-	38	41,849
Southern (West Virginia)	235	92,813	-	-	-	-	-	-	235	92,813
Wyoming	-	-	18	438,673	-	-	-	-	18	438,673
Appalachian Total	1,081	333,886	-	-	-	-	60	2,131	1,141	336,017
Northern Appalachian	288	130,002	-	-	-	-	60	2,131	348	132,133
Central Appalachian	741	184,813	-	-	-	-	-	-	741	184,813
Southern Appalachian	52	19,071	-	-	-	-	-	-	52	19,071
Interior Total	88	117,812	-	-	15	52,515	-	-	103	170,327
Illinois Basin	77	116,032	-	-	-	-	-	-	77	116,032
Western Total	22	72,751	26	486,296	5	28,586	-	-	53	587,633
Powder River Basin	-	-	16	462,600	-	-	-	-	16	462,600
Uinta	13	40,520	2	5,022	-	-	-	-	15	45,542
East of Mississippi River	1,158	449,918	-	-	1	2,747	60	2,131	1,219	454,796
West of Mississippi River	33	74,531	26	486,296	19	78,354	-	-	78	639,181
U.S. Subtotal	1,191	524,449	26	486,296	20	81,101	60	2,131	1,297	1,093,977
Refuse Recovery	25	1,547	-	-	-	-	4	104	29	1,650
U.S. Total	1,216	525,996	26	486,296	20	81,101	64	2,235	1,326	1,095,628

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

* One mine in New Mexico periodically produces both bituminous and subbituminous coal. When this occurs, it is double counted as a subbituminous and bituminous mine, but is not double counted in the total.

- = No data are reported.

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

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

Table 7. Coal production by State, mine type, and union status, 2011

(thousand short tons)

Coal-Producing State and Region ¹	Union		Nonunion		Total	
	Underground	Surface	Underground	Surface	Underground	Surface
Alabama	10,728	-	144	8,101	10,872	8,101
Alaska	-	2,149	-	-	-	2,149
Arizona	-	8,111	-	-	-	8,111
Arkansas	-	-	127	-	127	-
Colorado	1,984	2,844	19,506	2,538	21,490	5,382
Illinois	935	-	31,782	5,053	32,717	5,053
Indiana	-	-	16,469	20,957	16,469	20,957
Kansas	-	-	-	37	-	37
Kentucky Total	4,166	938	60,751	41,744	64,917	42,683
Eastern (Kentucky)	280	938	32,734	32,825	33,014	33,763
Western (Kentucky)	3,886	-	28,017	8,919	31,903	8,919
Louisiana	-	-	-	3,865	-	3,865
Maryland	-	-	873	1,991	873	1,991
Mississippi	-	-	-	2,747	-	2,747
Missouri	-	-	-	465	-	465
Montana	-	17,792	5,136	19,081	5,136	36,873
New Mexico	3,983	7,867	-	10,073	3,983	17,939
North Dakota	-	7,115	-	21,116	-	28,231
Ohio	6,416	-	12,556	9,114	18,972	9,114
Oklahoma	-	-	408	733	408	733
Pennsylvania Total	14,240	691	33,008	10,166	47,248	10,857
Anthracite (Pennsylvania)	-	518	107	1,122	107	1,640
Bituminous (Pennsylvania)	14,240	172	32,901	9,044	47,141	9,216
Tennessee	-	-	421	1,083	421	1,083
Texas	-	32,610	-	13,293	-	45,904
Utah	3,143	-	16,505	-	19,648	-
Virginia	850	-	14,539	6,908	15,389	6,908
West Virginia Total	34,513	8,856	48,701	42,101	83,214	50,957
Northern (West Virginia)	29,744	-	8,819	3,150	38,563	3,150
Southern (West Virginia)	4,769	8,856	39,882	38,951	44,651	47,807
Wyoming	3,043	5,989	-	429,641	3,043	435,630
Appalachian Total	67,027	10,485	142,976	112,289	210,003	122,774
Northern Appalachian	50,400	691	55,255	24,420	105,655	25,111
Central Appalachian	5,899	9,794	87,576	79,768	93,476	89,562
Southern Appalachian	10,728	-	144	8,101	10,872	8,101
Interior Total	4,821	32,610	76,803	56,069	81,624	88,680
Illinois Basin	4,821	-	76,268	34,929	81,089	34,929
Western Total	12,152	51,867	41,147	482,449	53,300	534,316
Powder River Basin	-	17,437	-	445,163	-	462,600
Uinta	5,126	2,484	35,394	2,538	40,520	5,022
East of Mississippi River	71,848	10,485	219,244	149,965	291,092	160,450
West of Mississippi River	12,152	84,477	41,682	500,842	53,835	585,319
U.S. Subtotal	84,000	94,962	260,926	650,807	344,926	745,770
Unknown *	-	-	-	-	679	2,602
U.S. Total	84,000	94,962	260,926	650,807	345,606	748,372

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 are reported.

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

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

Table 8. Coal disposition by State, 2011

(thousand short tons)

Coal-Producing State	Open Market Sales ¹	Captive Sales / Transactions ²	Total
Alabama	17,342	-	17,342
Alaska	w	-	w
Arizona	w	-	w
Arkansas	w	w	w
Colorado	20,774	3,846	24,620
Illinois	w	w	33,518
Indiana	19,194	17,993	37,187
Kansas	w	-	w
Kentucky Total	100,165	3,729	103,893
Eastern (Kentucky)	w	w	63,806
Western (Kentucky)	40,087	-	40,087
Louisiana	w	w	w
Maryland	2,542	-	2,542
Mississippi	w	-	w
Missouri	w	-	w
Montana	w	w	37,206
New Mexico	24,414	-	24,414
North Dakota	w	w	28,174
Ohio	w	w	27,088
Oklahoma	1,082	-	1,082
Pennsylvania Total	41,354	4,182	45,535
Anthracite (Pennsylvania)	1,669	393	2,062
Bituminous (Pennsylvania)	39,685	3,789	43,473
Tennessee	w	w	1,527
Texas	15,279	29,138	44,417
Utah	w	w	18,447
Virginia	8,595	2,653	11,248
West Virginia Total	98,799	6,390	105,189
Northern (West Virginia)	w	w	35,996
Southern (West Virginia)	w	w	69,193
Wyoming	303,695	131,553	435,248
U.S. Total *	789,102	225,661	1,014,763

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.

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

- = No data are reported.

w = Data withheld to avoid disclosure.

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

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

Table 9. Major U.S. coal mines, 2011

Rank	Mine Name / Company	Mine Type	State	Production (short tons)
1	North Antelope Rochelle Mine / Peabody Powder River Mining L	Surface	Wyoming	109,064,323
2	Black Thunder / Thunder Basin Coal Company Llc	Surface	Wyoming	104,958,277
3	Cordero Mine / Cordero Mining Llc	Surface	Wyoming	39,455,590
4	Antelope Coal Mine / Antelope Coal Llc	Surface	Wyoming	37,060,246
5	Eagle Butte Mine / Alpha Coal West, Inc.	Surface	Wyoming	25,365,054
6	Buckskin Mine / Kiewit Mining Group	Surface	Wyoming	24,967,006
7	Belle Ayr Mine / Alpha Coal West, Inc.	Surface	Wyoming	24,582,007
8	Caballo Mine / Peabody Caballo Mining, Llc	Surface	Wyoming	24,137,594
9	Spring Creek Coal Company / Spring Creek Coal Llc	Surface	Montana	19,080,552
10	Rawhide Mine / Peabody Caballo Mining, Llc	Surface	Wyoming	15,011,017
11	Freedom Mine / The Coteau Properties Company	Surface	North Dakota	13,639,122
12	Bailey Mine / Consol Pennsylvania Coal Compa	Underground	Pennsylvania	10,833,141
13	Enlow Fork Mine / Consol Pennsylvania Coal Compa	Underground	Pennsylvania	10,190,255
14	Coal Creek Mine / Thunder Basin Coal Company Llc	Surface	Wyoming	10,013,251
15	Mcelroy Mine / Mcelroy Coal Company	Underground	West Virginia	9,253,481
16	Rosebud Mine&crusher/Conveyor / Western Energy Company	Surface	Montana	8,784,828
17	Kosse Strip / Luminant Mining Company Llc	Surface	Texas	8,630,793
18	Kayenta Mine / Peabody Western Coal Company	Surface	Arizona	8,110,942
19	El Segundo / Peabody New Mexico Services Di	Surface	New Mexico	8,040,725
20	Navajo Mine / Bhp Navajo Coal Company	Surface	New Mexico	7,866,832
21	Foidel Creek Mine / Peabody Twentymile Mining Llc	Underground	Colorado	7,748,909
22	River View Mine / River View Coal Llc	Underground	Kentucky	7,582,894
23	Falkirk Mine / Falkirk Mining Company	Surface	North Dakota	7,477,211
24	Mach #1 Mine / Mach Mining Llc	Underground	Illinois	7,226,500
25	Three Oaks / Luminant Mining Company Llc	Surface	Texas	7,192,404
26	Century Mine / American Energy Corporation	Underground	Ohio	7,080,629
27	Bear Run Mine / Peabody Bear Run Mining Llc	Surface	Indiana	6,615,982
28	Sufco / Canyon Fuel Company Llc	Underground	Utah	6,498,011
29	Powhatan No. 6 Mine / The Ohio Valley Coal Company	Underground	Ohio	6,415,744
30	Cumberland Mine / Cumberland Coal Resources Lp	Underground	Pennsylvania	6,185,076
31	Robinson Run No 95 / Consolidation Coal Company	Underground	West Virginia	5,958,158
32	West Elk Mine / Mountain Coal Company, L.L.C.	Underground	Colorado	5,896,402
33	Dry Fork Mine / Western Fuels-Wyoming Inc	Surface	Wyoming	5,776,092
34	Wyodak Mine / Wyodak Resources Development C	Surface	Wyoming	5,691,756
35	Buchanan Mine #1 / Consolidation Coal Company	Underground	Virginia	5,654,353
36	Loveridge #22 / Consolidation Coal Company	Underground	West Virginia	5,638,973
37	Absaloka Mine / Westmoreland Resources Inc.	Surface	Montana	5,556,872
38	Cardinal / Warrior Coal Llc	Underground	Kentucky	5,405,577
39	Shoemaker Mine / Consolidation Coal Company	Underground	West Virginia	5,148,574
40	Bull Mountains Mine No 1 / Signal Peak Energy Llc	Underground	Montana	5,135,570
41	The American Coal Company New / The American Coal Company	Underground	Illinois	4,963,211
42	Kemmerer Mine / Westmoreland Kemmerer Inc	Surface	Wyoming	4,567,225
43	Beckville Strip / Luminant Mining Company Llc	Surface	Texas	4,517,856
44	Blacksville No 2 / Consolidation Coal Company	Underground	Pennsylvania	4,341,984
45	Jewett Mine / Texas Westmoreland Coal Co.	Surface	Texas	4,221,546
46	Center Mine / Bni Coal Ltd	Surface	North Dakota	4,191,399
47	South Hallsville No 1 Mine / The Sabine Mining Company	Surface	Texas	4,041,305
Subtotal				675,775,249
All Other Mines				419,852,287
U.S. Total				1,095,627,536

Note: Major mines are mines that produced more than 4 million short tons in 2011. The company is the firm operating the mine.

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

Table 10. Major U.S. coal producers, 2011

Rank	Controlling Company Name	Production (thousand short tons)	Percent of Total Production
1	Peabody Energy Corp	202,237	18.5
2	Arch Coal Inc	160,279	14.6
3	Alpha Natural Resources LLC	116,394	10.6
4	Cloud Peak Energy	95,596	8.7
5	CONSOL Energy Inc	62,089	5.7
6	Cerrejon Coal Co	33,300	3.0
7	Alliance Resource Operating Partners LP	32,949	3.0
8	Energy Future Holdings Corp	32,610	3.0
9	Peter Kiewit Sons Inc	29,998	2.7
10	NACCO Industries Inc	27,904	2.5
11	Patriot Coal Corp	27,790	2.5
12	Murray Energy Corp	26,841	2.4
13	Westmoreland Coal Co	26,409	2.4
14	BHP Billiton Ltd	11,850	1.1
15	Walter Energy Inc	11,793	1.1
16	James River Coal Co	10,010	0.9
17	Cline Group (The)	9,056	0.8
18	Rosebud Mining Co	8,353	0.8
19	Western Fuels Association Inc	8,314	0.8
20	PacifiCorp	7,608	0.7
21	Oxford Resource Partners LP	7,273	0.7
22	Armstrong Energy Inc	6,973	0.6
23	Level 3 Communications	6,371	0.6
24	Black Hills Corp	5,692	0.5
25	TECO Energy Inc	5,421	0.5
26	Booth Energy Group	5,373	0.5
27	Essar Group	5,242	0.5
28	Boich Group LLC	5,136	0.5
29	Vectren Corp	5,126	0.5
	Subtotal	993,985	90.7
	All Other Coal Producers	101,643	9.3
	U.S. Total	1,095,628	100.0

Note: Major coal producers are companies that produced more than 5 million short tons in 2011. A controlling company of a mine is defined as the company 'controlling the coal, particularly the sale of the coal.' Most often, but not always, this is the owner of the mine.

Source: Velocity Suite, Ventyx 2012 and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Productive Capacity

Table 11. Productive capacity of coal mines by State, 2011, 2010

(thousand short tons)

Coal-Producing State	2011			2010			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	16,102	8,911	25,013	16,373	8,692	25,064	-1.7	2.5	-0.2
Alaska	-	w	w	-	w	w	-	w	w
Arizona	-	w	w	-	w	w	-	w	w
Arkansas	w	-	w	w	-	w	w	-	w
Colorado	w	w	36,009	w	w	39,326	w	w	-8.4
Illinois	45,613	9,495	55,108	39,876	7,990	47,866	14.4	18.8	15.1
Indiana	19,388	27,185	46,573	16,577	28,690	45,267	17.0	-5.2	2.9
Kansas	-	w	w	-	w	w	-	w	w
Kentucky Total	83,553	61,539	145,092	84,183	56,936	141,120	-0.7	8.1	2.8
Eastern (Kentucky)	41,203	45,084	86,287	44,805	43,903	88,708	-8.0	2.7	-2.7
Western (Kentucky)	42,350	16,455	58,805	39,379	13,033	52,412	7.5	26.3	12.2
Louisiana	-	w	w	-	w	w	-	w	w
Maryland	w	w	3,682	w	w	2,981	w	w	23.5
Mississippi	-	w	w	-	w	w	-	w	w
Missouri	-	w	w	-	w	w	-	w	w
Montana	w	w	57,615	w	w	57,879	w	w	-0.5
New Mexico	w	w	26,950	w	w	27,300	w	w	-1.3
North Dakota	-	32,900	32,900	-	32,900	32,900	-	-	-
Ohio	19,924	22,342	42,266	20,316	21,289	41,605	-1.9	4.9	1.6
Oklahoma	w	w	1,355	w	w	1,657	w	w	-18.2
Pennsylvania Total	53,582	14,936	68,518	53,566	15,487	69,053	s	-3.6	-0.8
Anthracite (Pennsylvania)	w	w	3,571	w	w	2,493	w	w	43.2
Bituminous (Pennsylvania)	w	w	64,948	w	w	66,559	w	w	-2.4
Tennessee	495	1,513	2,009	521	1,622	2,143	-5.0	-6.7	-6.3
Texas	-	49,676	49,676	-	42,631	42,631	-	16.5	16.5
Utah	23,000	-	23,000	23,332	-	23,332	-1.4	-	-1.4
Virginia	16,409	9,158	25,567	15,861	12,661	28,522	3.5	-27.7	-10.4
West Virginia Total	104,421	60,246	164,667	113,765	64,376	178,142	-8.2	-6.4	-7.6
Northern (West Virginia)	42,628	5,153	47,782	43,016	5,090	48,106	-0.9	1.2	-0.7
Southern (West Virginia)	61,793	55,093	116,886	70,750	59,286	130,036	-12.7	-7.1	-10.1
Wyoming	w	w	504,435	w	w	501,125	w	w	0.7
U.S. Total	435,160	895,408	1,330,567	440,850	887,232	1,328,083	-1.3	0.9	0.2

s = Absolute percentage less than 0.05.

- = No data are reported.

w = Data withheld to avoid disclosure.

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

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

Table 12. Capacity utilization of coal mines by State, 2011, 2010

(percent)

Coal-Producing State	2011			2010		
	Underground	Surface	Total	Underground	Surface	Total
Alabama	67.52	90.91	75.85	76.43	85.14	79.45
Alaska	-	w	w	-	w	w
Arizona	-	w	w	-	w	w
Arkansas	w	-	w	w	-	w
Colorado	w	w	74.63	w	w	63.98
Illinois	71.73	53.22	68.54	70.93	61.96	69.44
Indiana	84.94	77.09	80.36	86.19	72.02	77.21
Kansas	-	w	w	-	w	w
Kentucky Total	77.70	69.36	74.16	75.94	71.61	74.20
Eastern (Kentucky)	80.12	74.89	77.39	76.61	76.26	76.44
Western (Kentucky)	75.33	54.20	69.42	75.18	55.96	70.40
Louisiana	-	w	w	-	w	w
Maryland	w	w	77.78	w	w	86.27
Mississippi	-	w	w	-	w	w
Missouri	-	w	w	-	w	w
Montana	w	w	72.91	w	w	77.29
New Mexico	w	w	81.34	w	w	76.89
North Dakota	-	85.81	85.81	-	87.99	87.99
Ohio	95.22	40.79	66.45	85.96	43.27	64.12
Oklahoma	w	w	84.25	w	w	60.22
Pennsylvania Total	88.24	74.47	85.23	88.91	68.58	84.35
Anthracite (Pennsylvania)	w	w	57.22	w	w	63.90
Bituminous (Pennsylvania)	w	w	86.77	w	w	85.12
Tennessee	84.93	71.56	74.86	104.75	74.75	82.04
Texas	-	92.41	92.41	-	96.13	96.13
Utah	85.43	-	85.43	82.94	-	82.94
Virginia	93.79	75.43	87.21	89.16	64.70	78.30
West Virginia Total	79.69	84.58	81.48	74.29	78.58	75.84
Northern (West Virginia)	90.46	61.12	87.30	86.70	78.35	85.82
Southern (West Virginia)	72.26	86.78	79.10	66.75	78.60	72.15
Wyoming	w	w	86.96	w	w	88.31
U.S. Total	79.27	83.32	81.99	76.44	83.93	81.45

- = No data are reported.

w = Data withheld to avoid disclosure.

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

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

Table 13. Productive capacity and capacity utilization of underground coal mines by state and mining method, 2011

(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	w	w	-	-	w	w	16,102	67.52
Arkansas	w	w	-	-	-	-	w	w
Colorado	w	w	-	-	w	w	28,049	76.62
Illinois	w	w	-	-	w	w	45,613	71.73
Indiana	19,388	84.94	-	-	-	-	19,388	84.94
Kentucky Total	81,135	77.15	2,418	95.90	-	-	83,553	77.70
Eastern (Kentucky)	38,786	79.14	2,418	95.90	-	-	41,203	80.12
Western (Kentucky)	42,350	75.33	-	-	-	-	42,350	75.33
Maryland	w	w	w	w	-	-	w	w
Montana	-	-	-	-	w	w	w	w
New Mexico	-	-	-	-	w	w	w	w
Ohio	w	w	-	-	w	w	19,924	95.22
Oklahoma	w	w	-	-	-	-	w	w
Pennsylvania Total	16,456	72.94	w	w	37,115	95.01	w	w
Anthracite (Pennsylvania)	w	w	w	w	-	-	w	w
Bituminous (Pennsylvania)	w	w	-	-	w	w	w	w
Tennessee	495	84.93	-	-	-	-	495	84.93
Utah	w	w	-	-	w	w	23,000	85.43
Virginia	10,701	90.48	w	w	w	w	16,409	93.79
West Virginia Total	59,439	74.85	-	-	44,983	86.09	104,421	79.69
Northern (West Virginia)	9,077	71.62	-	-	33,552	95.56	42,628	90.46
Southern (West Virginia)	50,362	75.43	-	-	11,431	58.31	61,793	72.26
Wyoming	-	-	-	-	w	w	w	w
U.S. Total	222,915	77.66	2,782	86.71	209,463	80.89	435,160	79.27

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 are reported.

w = Data withheld to avoid disclosure.

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

Source: U.S. Energy Information Administration Form EIA-7A, 'Coal Production and Preparation Report,' 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, 2011, 2010

(million short tons)

Coal-Producing State	2011		2010		Percent Change Recoverable Coal Reserves
	Recoverable Coal Reserves	Average Recovery Percentage	Recoverable Coal Reserves	Average Recovery Percentage	
Alabama	306	55.39	305	55.64	0.2
Alaska	w	w	w	w	w
Arizona	w	w	w	w	w
Arkansas	w	w	-	-	w
Colorado	225	68.47	253	68.51	-11.2
Illinois	2,311	61.23	1,559	60.38	48.3
Indiana	654	66.42	672	67.45	-2.6
Kansas	w	w	w	w	w
Kentucky Total	1,419	54.84	1,370	56.46	3.6
Eastern (Kentucky)	734	52.90	786	52.73	-6.7
Western (Kentucky)	686	56.91	584	61.47	17.5
Louisiana	w	w	w	w	w
Maryland	36	71.17	16	71.82	120.4
Mississippi	w	w	w	w	w
Missouri	w	w	w	w	w
Montana	846	88.15	894	88.24	-5.5
New Mexico	518	88.14	340	92.12	52.6
North Dakota	1,183	90.42	1,229	90.34	-3.7
Ohio	258	64.02	268	64.66	-4.0
Oklahoma	11	64.54	24	65.49	-56.0
Pennsylvania Total	615	63.22	571	70.51	7.6
Anthracite (Pennsylvania)	128	38.84	39	72.41	227.9
Bituminous (Pennsylvania)	487	69.62	532	70.38	-8.5
Tennessee	8	59.63	6	65.47	49.7
Texas	736	93.37	738	92.93	-0.3
Utah	201	55.40	210	55.39	-4.3
Virginia	348	54.07	337	54.56	3.4
West Virginia Total	2,076	55.36	1,972	54.45	5.3
Northern (West Virginia)	483	62.45	355	59.68	36.0
Southern (West Virginia)	1,593	53.21	1,617	53.30	-1.5
Wyoming	6,898	91.23	6,610	91.68	4.3
U.S. Total	19,223	76.73	17,937	77.80	7.2

-- No data are reported.

w = Data withheld to avoid disclosure.

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

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

Table 15. Recoverable coal reserves at producing mines, estimated recoverable reserves, and demonstrated reserve by mining method, 2011

(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	249	438	869	56	2,236	3,139	306	2,674	4,007
Alaska	-	2,335	5,423	w	489	674	w	2,823	6,097
Arizona	-	-	-	w	-	-	w	-	-
Arkansas	w	127	272	-	101	144	w	228	416
Colorado	w	5,839	11,126	w	3,744	4,759	225	9,583	15,885
Georgia	-	1	2	-	1	2	-	2	4
Idaho	-	2	4	-	-	-	-	2	4
Illinois	w	27,819	87,578	w	10,048	16,510	2,311	37,867	104,088
Indiana	310	3,556	8,587	343	334	570	654	3,890	9,158
Iowa	-	807	1,732	-	320	457	-	1,127	2,189
Kansas	-	-	-	w	680	971	w	680	971
Kentucky Total	1,193	7,003	16,246	226	7,289	12,624	1,419	14,292	28,870
Eastern (Kentucky)	w	387	692	w	5,048	9,039	734	5,434	9,731
Western (Kentucky)	w	6,616	15,554	w	2,242	3,584	686	8,858	19,139
Louisiana	-	-	-	w	291	393	w	291	393
Maryland	w	310	565	w	34	50	36	344	615
Michigan	-	55	123	-	3	5	-	58	128
Mississippi	-	-	-	w	-	-	w	-	-
Missouri	-	689	1,479	w	3,155	4,507	w	3,845	5,986
Montana	w	35,911	70,936	w	38,770	47,965	846	74,681	118,901
New Mexico	w	2,768	6,083	w	4,092	5,840	518	6,860	11,923
North Carolina	-	5	11	-	-	-	-	5	11
North Dakota	-	-	-	1,183	6,737	8,832	1,183	6,737	8,832
Ohio	197	7,630	17,342	61	3,724	5,689	258	11,354	23,031
Oklahoma	w	571	1,226	w	221	316	11	792	1,542
Oregon	-	6	15	-	2	3	-	9	17
Pennsylvania Total	413	10,385	22,612	202	992	4,167	615	11,377	26,780
Anthracite (Pennsylvania)	w	340	3,841	w	418	3,344	128	758	7,186
Bituminous (Pennsylvania)	w	10,045	18,771	w	573	823	487	10,618	19,594
South Dakota	-	-	-	-	277	366	-	277	366
Tennessee	w	275	501	w	172	253	8	446	754
Texas	-	-	-	736	9,294	12,074	736	9,294	12,074
Utah	201	2,381	4,857	-	212	268	201	2,593	5,125
Virginia	299	531	945	49	318	496	348	848	1,441
Washington	-	674	1,332	-	6	8	-	681	1,340
West Virginia Total	1,546	15,035	28,171	530	2,095	3,321	2,076	17,130	31,492
Northern (West Virginia)	w	NA	NA	w	NA	NA	483	NA	NA
Southern (West Virginia)	w	NA	NA	w	NA	NA	1,593	NA	NA
Wyoming	w	22,931	42,466	w	14,898	17,991	6,898	37,829	60,456
U.S. Total	7,263	148,084	330,504	11,960	110,535	152,393	19,223	258,619	482,898

- = No data are reported.

w = Data withheld to avoid disclosure.

NA = Not Available.

Notes: Recoverable coal reserves at producing mines represent the quantity of coal that can be recovered (i.e. mined) from existing coal reserves at reporting mines. EIA's estimated recoverable reserves include the coal in the demonstrated reserve base considered recoverable after excluding coal estimated to be unavailable due to land use restrictions or currently economically unattractive for mining, and after applying assumed mining recovery rates; see Glossary for criteria. The effective date for the demonstrated reserve base, as customarily worded, is 'Remaining as of January 1, 2012.' 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, 2011. The demonstrated reserve base includes publicly available data on coal mapped to measured and indicated degrees of accuracy and found at depths and in coalbed thicknesses considered technologically minable at the time of determinations; see Glossary for criteria. All reserve expressions exclude silt, culm, refuse bank, slurry dam, and dredge operations. Reserves at Producing Mines exclude mines producing less than 25,000 short tons, which are not required to provide reserves data.

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

Table 16. Recoverable coal reserves and average recovery percentage at producing underground coal mines by State and mining method, 2011

(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	w	w	-	-	w	w	249	48.82
Arkansas	w	w	-	-	-	-	w	w
Colorado	w	w	-	-	w	w	187	64.09
Illinois	w	w	-	-	w	w	2,271	60.90
Indiana	310	53.77	-	-	-	-	310	53.77
Kentucky Total	1,161	49.14	32	47.78	-	-	1,193	49.11
Eastern (Kentucky)	537	43.90	32	47.78	-	-	569	44.12
Western (Kentucky)	624	53.65	-	-	-	-	624	53.65
Maryland	w	w	w	w	-	-	25	60.79
Montana	-	-	-	-	w	w	w	w
New Mexico	-	-	-	-	w	w	w	w
Ohio	w	w	-	-	w	w	197	57.94
Oklahoma	w	w	-	-	-	-	w	w
Pennsylvania Total	143	59.36	-	-	270	70.39	413	66.57
Anthracite (Pennsylvania)	w	w	-	-	-	-	w	w
Bituminous (Pennsylvania)	w	w	-	-	w	w	413	66.56
Tennessee	w	w	-	-	-	-	w	w
Utah	w	w	-	-	w	w	201	55.40
Virginia	240	49.49	w	w	w	w	299	49.58
West Virginia Total	1,073	47.80	-	-	473	57.94	1,546	50.90
Northern (West Virginia)	183	53.47	-	-	287	67.54	470	62.07
Southern (West Virginia)	890	46.64	-	-	186	43.07	1,076	46.02
Wyoming	-	-	-	-	w	w	w	w
U.S. Total	4,290	52.37	49	53.50	2,924	62.32	7,263	56.38

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 are reported.

w = Data withheld to avoid disclosure.

Note: Recoverable coal reserves at producing mines represent the quantity of coal that can be recovered (i.e. mined) from existing coal reserves at reporting mines. Average recovery percentage represents the percentage of coal that can be recovered from coal reserves at reporting mines, weighted for all mines in the reported geographic area. Excludes mines producing less than 25,000 short tons, which are not required to provide data and refuse recovery.

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

Table 17. Recoverable coal reserves and average recovery percentage at producing U.S. mines by mine production range and mine type, 2011

(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	4,509	59.01	11,195	90.10	15,704	81.17
Over 500 to 1,000	1,185	53.63	261	80.56	1,446	58.50
Over 200 to 500	1,080	52.31	183	72.66	1,263	55.27
Over 100 to 200	330	46.63	207	68.40	537	55.01
Over 50 to 100	100	46.08	64	70.97	163	55.80
Over 10 to 50	60	57.58	50	76.51	110	66.26
U.S. Total	7,263	56.38	11,960	89.09	19,223	76.73

Note: Recoverable coal reserves at producing mines represent the quantity of coal that can be recovered (i.e. mined) from existing coal reserves at reporting mines. Average recovery percentage represents the percentage of coal that can be recovered from coal reserves at reporting mines, weighted for all mines in the reported geographic area.

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

Employment

Table 18. Average number of employees by State and mine type, 2011, 2010

Coal-Producing State and Region ¹	2011			2010			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	3,138	1,618	4,756	2,970	1,371	4,341	5.7	18.0	9.6
Alaska	-	136	136	-	127	127	-	7.1	7.1
Arizona	-	419	419	-	422	422	-	-0.7	-0.7
Arkansas	67	3	70	27	2	29	148.1	50.0	141.4
Colorado	1,927	478	2,405	1,758	489	2,247	9.6	-2.2	7.0
Illinois	3,563	542	4,105	3,183	466	3,649	11.9	16.3	12.5
Indiana	1,880	1,660	3,540	1,713	1,629	3,342	9.7	1.9	5.9
Kansas	-	8	8	-	36	36	-	-77.8	-77.8
Kentucky Total	12,071	6,563	18,634	11,734	6,232	17,966	2.9	5.3	3.7
Eastern (Kentucky)	8,455	5,826	14,281	8,394	5,480	13,874	0.7	6.3	2.9
Western (Kentucky)	3,616	737	4,353	3,340	752	4,092	8.3	-2.0	6.4
Louisiana	-	259	259	-	261	261	-	-0.8	-0.8
Maryland	188	300	488	149	273	422	26.2	9.9	15.6
Mississippi	-	224	224	-	232	232	-	-3.4	-3.4
Missouri	-	26	26	-	23	23	-	13.0	13.0
Montana	296	955	1,251	242	964	1,206	22.3	-0.9	3.7
New Mexico	464	828	1,292	463	806	1,269	0.2	2.7	1.8
North Dakota	-	1,169	1,169	-	1,114	1,114	-	4.9	4.9
Ohio	1,909	1,097	3,006	1,738	1,088	2,826	9.8	0.8	6.4
Oklahoma	49	135	184	72	145	217	-31.9	-6.9	-15.2
Pennsylvania Total	5,892	2,773	8,665	5,574	2,694	8,268	5.7	2.9	4.8
Anthracite (Pennsylvania)	150	802	952	133	795	928	12.8	0.9	2.6
Bituminous (Pennsylvania)	5,742	1,971	7,713	5,441	1,899	7,340	5.5	3.8	5.1
Tennessee	179	326	505	202	344	546	-11.4	-5.2	-7.5
Texas	-	2,936	2,936	-	2,787	2,787	-	5.3	5.3
Utah	1,779	18	1,797	1,814	8	1,822	-1.9	125.0	-1.4
Virginia	3,796	1,465	5,261	3,527	1,430	4,957	7.6	2.4	6.1
West Virginia Total	16,963	6,344	23,307	15,136	5,955	21,091	12.1	6.5	10.5
Northern (West Virginia)	5,238	408	5,646	4,570	490	5,060	14.6	-16.7	11.6
Southern (West Virginia)	11,725	5,936	17,661	10,566	5,465	16,031	11.0	8.6	10.2
Wyoming	234	6,805	7,039	213	6,644	6,857	9.9	2.4	2.7
Appalachian Total	40,520	19,749	60,269	37,690	18,635	56,325	7.5	6.0	7.0
Northern Appalachian	13,227	4,578	17,805	12,031	4,545	16,576	9.9	0.7	7.4
Central Appalachian	24,154	13,552	37,706	22,689	12,719	35,408	6.5	6.5	6.5
Southern Appalachian	3,139	1,619	4,758	2,970	1,371	4,341	5.7	18.1	9.6
Interior Total	9,175	6,530	15,705	8,335	6,333	14,668	10.1	3.1	7.1
Illinois Basin	9,059	2,939	11,998	8,236	2,847	11,083	10.0	3.2	8.3
Western Total	4,700	10,808	15,508	4,490	10,574	15,064	4.7	2.2	2.9
Powder River Basin	-	7,041	7,041	-	6,896	6,896	-	2.1	2.1
Uinta	3,429	469	3,898	3,505	471	3,976	-2.2	-0.4	-2.0
East of Mississippi River	49,579	22,912	72,491	45,926	21,714	67,640	8.0	5.5	7.2
West of Mississippi River	4,816	14,175	18,991	4,589	13,828	18,417	4.9	2.5	3.1
U.S. Subtotal	54,395	37,087	91,482	50,515	35,542	86,057	7.7	4.3	6.3
Refuse Recovery	-	-	129	-	-	138	-	-	-6.5
U.S. Total	54,395	37,087	91,611	50,515	35,542	86,195	7.7	4.3	6.3

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

- = No data are 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, 2011

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)							Zero ²	Total Number of Employees
	Above 1,000	Above 500 to 1,000	Above 200 to 500	Above 100 to 200	Above 50 to 100	Above 10 to 50	Above 0 to 10		
Alabama	2,717	644	560	376	214	114	51	80	4,756
Underground	2,498	484	-	-	73	18	17	48	3,138
Surface	219	160	560	376	141	96	34	32	1,618
Alaska	136	-	-	-	-	-	-	-	136
Surface	136	-	-	-	-	-	-	-	136
Arizona	419	-	-	-	-	-	-	-	419
Surface	419	-	-	-	-	-	-	-	419
Arkansas	-	-	-	67	-	-	3	-	70
Underground	-	-	-	67	-	-	-	-	67
Surface	-	-	-	-	-	-	3	-	3
Colorado	2,094	70	27	-	-	188	-	26	2,405
Underground	1,643	70	-	-	-	188	-	26	1,927
Surface	451	-	27	-	-	-	-	-	478
Illinois	3,229	427	203	37	25	-	-	184	4,105
Underground	2,954	391	100	-	4	-	-	114	3,563
Surface	275	36	103	37	21	-	-	70	542
Indiana	2,886	121	270	94	60	-	-	109	3,540
Underground	1,709	-	64	35	-	-	-	72	1,880
Surface	1,177	121	206	59	60	-	-	37	1,660
Kansas	-	-	-	-	-	8	-	-	8
Surface	-	-	-	-	-	8	-	-	8
Kentucky Total	4,632	3,232	4,061	1,867	1,168	1,104	432	2,138	18,634
Underground	3,723	2,194	2,479	1,053	567	523	212	1,320	12,071
Surface	909	1,038	1,582	814	601	581	220	818	6,563
Eastern (Kentucky)	1,230	2,948	3,865	1,789	1,168	1,066	432	1,783	14,281
Underground	704	2,019	2,379	998	567	492	212	1,084	8,455
Surface	526	929	1,486	791	601	574	220	699	5,826
Western (Kentucky)	3,402	284	196	78	-	38	-	355	4,353
Underground	3,019	175	100	55	-	31	-	236	3,616
Surface	383	109	96	23	-	7	-	119	737
Louisiana	259	-	-	-	-	-	-	-	259
Surface	259	-	-	-	-	-	-	-	259
Maryland	-	58	229	31	34	73	18	45	488
Underground	-	58	63	-	-	25	-	42	188
Surface	-	-	166	31	34	48	18	3	300
Mississippi	224	-	-	-	-	-	-	-	224
Surface	224	-	-	-	-	-	-	-	224
Missouri	-	-	26	-	-	-	-	-	26
Surface	-	-	26	-	-	-	-	-	26
Montana	1,238	-	13	-	-	-	-	-	1,251
Underground	296	-	-	-	-	-	-	-	296
Surface	942	-	13	-	-	-	-	-	955
New Mexico	1,292	-	-	-	-	-	-	-	1,292
Underground	464	-	-	-	-	-	-	-	464
Surface	828	-	-	-	-	-	-	-	828
North Dakota	1,164	-	-	-	-	-	-	5	1,169
Surface	1,164	-	-	-	-	-	-	5	1,169
Ohio	1,548	726	226	180	66	70	40	150	3,006
Underground	1,433	208	106	83	-	-	-	79	1,909
Surface	115	518	120	97	66	70	40	71	1,097
Oklahoma	-	-	165	-	18	-	1	-	184
Underground	-	-	49	-	-	-	-	-	49
Surface	-	-	116	-	18	-	1	-	135
Pennsylvania Total	4,021	490	1,379	862	399	460	208	846	8,665
Underground	3,803	490	919	194	80	35	40	331	5,892
Surface	218	-	460	668	319	425	168	515	2,773
Anthracite (Pennsylvania)	-	-	36	160	135	138	71	412	952
Underground	-	-	-	34	-	23	30	63	150
Surface	-	-	36	126	135	115	41	349	802

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		
Bituminous (Pennsylvania)	4,021	490	1,343	702	264	322	137	434	7,713
Underground	3,803	490	919	160	80	12	10	268	5,742
Surface	218	-	424	542	184	310	127	166	1,971
Tennessee	-	-	46	183	85	121	22	48	505
Underground	-	-	46	-	57	50	10	16	179
Surface	-	-	-	183	28	71	12	32	326
Texas	2,936	-	-	-	-	-	-	-	2,936
Surface	2,936	-	-	-	-	-	-	-	2,936
Utah	1,481	54	133	22	-	-	-	107	1,797
Underground	1,481	54	133	22	-	-	-	89	1,779
Surface	-	-	-	-	-	-	-	18	18
Virginia	993	157	1,785	865	324	428	72	637	5,261
Underground	993	-	1,273	544	217	278	29	462	3,796
Surface	-	157	512	321	107	150	43	175	1,465
West Virginia Total	9,283	4,075	4,305	1,921	742	588	213	2,180	23,307
Underground	6,635	2,523	3,655	1,686	470	395	136	1,463	16,963
Surface	2,648	1,552	650	235	272	193	77	717	6,344
Northern (West Virginia)	4,333	362	415	67	61	139	20	249	5,646
Underground	4,254	229	394	50	31	90	16	174	5,238
Surface	79	133	21	17	30	49	4	75	408
Southern (West Virginia)	4,950	3,713	3,890	1,854	681	449	193	1,931	17,661
Underground	2,381	2,294	3,261	1,636	439	305	120	1,289	11,725
Surface	2,569	1,419	629	218	242	144	73	642	5,936
Wyoming	7,012	-	23	-	-	4	-	-	7,039
Underground	234	-	-	-	-	-	-	-	234
Surface	6,778	-	23	-	-	4	-	-	6,805
Appalachian Total	19,792	9,098	12,395	6,207	3,032	2,920	1,056	5,769	60,269
Underground	16,066	5,782	8,441	3,505	1,464	1,293	444	3,525	40,520
Surface	3,726	3,316	3,954	2,702	1,568	1,627	612	2,244	19,749
Northern Appalachian	9,902	1,636	2,249	1,140	560	742	286	1,290	17,805
Underground	9,490	985	1,482	327	111	150	56	626	13,227
Surface	412	651	767	813	449	592	230	664	4,578
Central Appalachian	7,173	6,818	9,586	4,691	2,258	2,064	719	4,397	37,706
Underground	4,078	4,313	6,959	3,178	1,280	1,125	371	2,850	24,154
Surface	3,095	2,505	2,627	1,513	978	939	348	1,547	13,552
Southern Appalachian	2,717	644	560	376	214	114	51	82	4,758
Underground	2,498	484	-	-	73	18	17	49	3,139
Surface	219	160	560	376	141	96	34	33	1,619
Interior Total	12,936	832	860	276	103	46	4	648	15,705
Underground	7,682	566	313	157	4	31	-	422	9,175
Surface	5,254	266	547	119	99	15	4	226	6,530
Illinois Basin	9,517	832	669	209	85	38	-	648	11,998
Underground	7,682	566	264	90	4	31	-	422	9,059
Surface	1,835	266	405	119	81	7	-	226	2,939
Western Total	14,836	124	196	22	-	192	-	138	15,508
Underground	4,118	124	133	22	-	188	-	115	4,700
Surface	10,718	-	63	-	-	4	-	23	10,808
Powder River Basin	7,041	-	-	-	-	-	-	-	7,041
Surface	7,041	-	-	-	-	-	-	-	7,041
Uinta	3,575	54	133	22	-	-	-	114	3,898
Underground	3,124	54	133	22	-	-	-	96	3,429
Surface	451	-	-	-	-	-	-	18	469
East of Mississippi River	29,533	9,930	13,064	6,416	3,117	2,958	1,056	6,417	72,491
Underground	23,748	6,348	8,705	3,595	1,468	1,324	444	3,947	49,579
Surface	5,785	3,582	4,359	2,821	1,649	1,634	612	2,470	22,912
West of Mississippi River	18,031	124	387	89	18	200	4	138	18,991
Underground	4,118	124	182	89	-	188	-	115	4,816
Surface	13,913	-	205	-	18	12	4	23	14,175
U.S. Subtotal	47,564	10,054	13,451	6,505	3,135	3,158	1,060	6,555	91,482
Underground	27,866	6,472	8,887	3,684	1,468	1,512	444	4,062	54,395
Surface	19,698	3,582	4,564	2,821	1,667	1,646	616	2,493	37,087
Refuse Recovery	-	7	-	24	43	23	32	-	129
U.S. Total	47,564	10,061	13,451	6,529	3,178	3,181	1,092	6,555	91,611

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

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

- = No data are 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, 2011

Coal-Producing State and Region ¹	Union		Nonunion	
	Underground	Surface	Underground	Surface
Alabama	3,013	13	108	1,539
Alaska	-	136	-	-
Arizona	-	419	-	-
Arkansas	-	-	67	-
Colorado	169	216	1,570	262
Illinois	239	25	3,324	528
Indiana	-	-	1,880	1,664
Kansas	-	-	-	8
Kentucky Total	655	157	11,000	5,876
Eastern (Kentucky)	156	157	7,883	5,129
Western (Kentucky)	499	-	3,117	747
Louisiana	-	-	-	259
Maryland	-	-	188	264
Mississippi	-	-	-	224
Missouri	-	-	-	26
Montana	-	709	296	246
New Mexico	453	436	11	392
North Dakota	-	290	-	879
Ohio	613	1	1,296	1,046
Oklahoma	-	-	49	134
Pennsylvania Total	2,029	305	3,823	2,176
Anthracite (Pennsylvania)	-	239	120	523
Bituminous (Pennsylvania)	2,029	66	3,703	1,653
Tennessee	-	-	169	273
Texas	-	1,954	-	982
Utah	339	-	1,440	18
Virginia	351	17	3,374	1,362
West Virginia Total	5,042	1,144	11,670	5,055
Northern (West Virginia)	3,470	-	1,736	370
Southern (West Virginia)	1,572	1,144	9,934	4,685
Wyoming	234	487	-	6,318
Appalachian Total	11,204	1,637	28,511	16,844
Northern Appalachian	6,112	306	7,043	3,856
Central Appalachian	2,079	1,318	21,359	11,448
Southern Appalachian	3,013	13	109	1,540
Interior Total	738	1,979	8,437	4,572
Illinois Basin	738	25	8,321	2,939
Western Total	1,195	2,693	3,317	8,115
Powder River Basin	-	696	-	6,345
Uinta	508	189	2,921	280
East of Mississippi River	11,942	1,662	36,832	20,007
West of Mississippi River	1,195	4,647	3,433	9,524
U.S. Total	13,137	6,309	40,265	29,531

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

-- No data are reported.

Note: Includes all employees at preparation plants and tipplers not co-located with a mine. Includes all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes mines producing less than 25,000 short tons and preparation plants with less than 5,000 employee hours per year, which are not required to provide data.

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

Productivity

Table 21. Coal Productivity by State and Mine Type, 2011, 2010

Coal-Producing State, Region ¹ and Mine Type	Number of Mining Operations ²			Number of Employees ³			Average Production per Employee per Hour (short tons) ⁴		
	2011	2010	Percent Change	2011	2010	Percent Change	2011	2010	Percent Change
Alabama	63	62	1.6	4,756	4,341	9.6	1.66	1.93	-13.6
Underground	12	12	-	3,138	2,970	5.7	1.45	1.78	-19.0
Surface	51	50	2.0	1,618	1,371	18.0	2.08	2.23	-6.5
Alaska	1	1	-	136	127	7.1	6.48	6.96	-6.9
Surface	1	1	-	136	127	7.1	6.48	6.96	-6.9
Arizona	1	1	-	419	422	-0.7	8.44	7.84	7.6
Surface	1	1	-	419	422	-0.7	8.44	7.84	7.6
Arkansas	2	2	-	70	29	141.4	0.70	0.49	43.6
Underground	1	1	-	67	27	148.1	0.68	0.48	41.0
Surface	1	1	-	3	2	50.0	1.32	0.59	124.9
Colorado	12	12	-	2,405	2,247	7.0	5.48	5.60	-2.2
Underground	9	9	-	1,927	1,758	9.6	5.42	5.76	-5.8
Surface	3	3	-	478	489	-2.2	5.69	5.05	12.7
Illinois	35	34	2.9	4,105	3,649	12.5	4.03	4.22	-4.4
Underground	22	21	4.8	3,563	3,183	11.9	4.03	4.16	-3.0
Surface	13	13	-	542	466	16.3	4.03	4.59	-12.4
Indiana	38	41	-7.3	3,540	3,342	5.9	4.25	4.21	0.8
Underground	12	13	-7.7	1,880	1,713	9.7	3.43	3.40	0.9
Surface	26	28	-7.1	1,660	1,629	1.9	5.22	5.04	3.4
Kansas	1	1	-	8	36	-77.8	1.98	1.39	42.3
Surface	1	1	-	8	36	-77.8	1.98	1.39	42.3
Kentucky Total	540	527	2.5	18,634	17,966	3.7	2.48	2.55	-2.8
Underground	237	235	0.9	12,071	11,734	2.9	2.27	2.32	-2.3
Surface	303	292	3.8	6,563	6,232	5.3	2.86	3.00	-4.4
Eastern (Kentucky)	500	487	2.7	14,281	13,874	2.9	2.05	2.18	-5.8
Underground	216	214	0.9	8,455	8,394	0.7	1.69	1.80	-5.8
Surface	284	273	4.0	5,826	5,480	6.3	2.58	2.78	-7.1
Western (Kentucky)	40	40	-	4,353	4,092	6.4	3.77	3.71	1.6
Underground	21	21	-	3,616	3,340	8.3	3.53	3.53	0.1
Surface	19	19	-	737	752	-2.0	4.96	4.70	5.5
Louisiana	1	2	-50.0	259	261	-0.8	7.06	7.23	-2.4
Surface	1	2	-50.0	259	261	-0.8	7.06	7.23	-2.4
Maryland	24	25	-4.0	488	422	15.6	2.66	2.73	-2.7
Underground	4	4	-	188	149	26.2	2.11	2.00	5.5
Surface	20	21	-4.8	300	273	9.9	2.99	3.14	-4.9
Mississippi	1	1	-	224	232	-3.4	6.14	8.27	-25.7
Surface	1	1	-	224	232	-3.4	6.14	8.27	-25.7
Missouri	2	2	-	26	23	13.0	6.86	7.12	-3.7
Surface	2	2	-	26	23	13.0	6.86	7.12	-3.7
Montana	6	6	-	1,251	1,206	3.7	16.37	17.12	-4.4
Underground	1	1	-	296	242	22.3	7.23	6.88	5.0
Surface	5	5	-	955	964	-0.9	19.87	20.42	-2.7
New Mexico	6	4	50.0	1,292	1,269	1.8	8.38	8.55	-2.1
Underground	3	1	200.0	464	463	0.2	4.43	5.66	-21.6
Surface	3	3	-	828	806	2.7	10.44	10.15	2.8
North Dakota	5	5	-	1,169	1,114	4.9	12.10	13.39	-9.6
Surface	5	5	-	1,169	1,114	4.9	12.10	13.39	-9.6
Ohio	59	59	-	3,006	2,826	6.4	3.90	3.96	-1.5
Underground	16	19	-15.8	1,909	1,738	9.8	4.25	4.32	-1.5
Surface	43	40	7.5	1,097	1,088	0.8	3.33	3.42	-2.6
Oklahoma	6	10	-40.0	184	217	-15.2	2.44	2.27	7.5
Underground	1	2	-50.0	49	72	-31.9	3.07	2.75	11.8
Surface	5	8	-37.5	135	145	-6.9	2.19	2.04	7.2
Pennsylvania Total	335	324	3.4	8,665	8,268	4.8	3.01	3.19	-5.5
Underground	81	74	9.5	5,892	5,574	5.7	3.44	3.65	-5.7
Surface	254	250	1.6	2,773	2,694	2.9	2.01	2.05	-2.2
Anthracite (Pennsylvania)	105	103	1.9	952	928	2.6	1.11	0.98	12.6
Underground	22	20	10.0	150	133	12.8	0.63	0.60	3.6
Surface	83	83	-	802	795	0.9	1.18	1.04	13.7

Coal-Producing State, Region ¹ and Mine Type	Number of Mining Operations ²			Number of Employees ³			Average Production per Employee per Hour (short tons) ⁴		
	2011	2010	Percent Change	2011	2010	Percent Change	2011	2010	Percent Change
Bituminous (Pennsylvania)	230	221	4.1	7,713	7,340	5.1	3.22	3.42	-5.8
Underground	59	54	9.3	5,742	5,441	5.5	3.50	3.70	-5.6
Surface	171	167	2.4	1,971	1,899	3.8	2.33	2.45	-5.0
Tennessee	30	27	11.1	505	546	-7.5	1.44	1.47	-1.6
Underground	10	8	25.0	179	202	-11.4	1.16	1.25	-7.6
Surface	20	19	5.3	326	344	-5.2	1.59	1.59	0.1
Texas	13	12	8.3	2,936	2,787	5.3	7.25	6.81	6.4
Surface	13	12	8.3	2,936	2,787	5.3	7.25	6.81	6.4
Utah	15	15	-	1,797	1,822	-1.4	5.12	5.04	1.5
Underground	13	14	-7.1	1,779	1,814	-1.9	5.17	5.07	2.1
Surface	2	1	100.0	18	8	125.0	-	-	-
Virginia	152	149	2.0	5,261	4,957	6.1	1.81	2.01	-10.0
Underground	83	85	-2.4	3,796	3,527	7.6	1.71	1.77	-3.6
Surface	69	64	7.8	1,465	1,430	2.4	2.08	2.61	-20.5
West Virginia Total	402	381	5.5	23,307	21,091	10.5	2.45	2.70	-9.3
Underground	229	221	3.6	16,963	15,136	12.1	2.10	2.38	-11.9
Surface	173	160	8.1	6,344	5,955	6.5	3.36	3.46	-3.0
Northern (West Virginia)	52	47	10.6	5,646	5,060	11.6	3.23	3.52	-8.3
Underground	29	25	16.0	5,238	4,570	14.6	3.20	3.50	-8.4
Surface	23	22	4.5	408	490	-16.7	3.52	3.69	-4.6
Southern (West Virginia)	350	334	4.8	17,661	16,031	10.2	2.21	2.45	-9.8
Underground	200	196	2.0	11,725	10,566	11.0	1.62	1.90	-15.0
Surface	150	138	8.7	5,936	5,465	8.6	3.35	3.44	-2.8
Wyoming	18	19	-5.3	7,039	6,857	2.7	29.34	30.81	-4.8
Underground	1	1	-	234	213	9.9	5.36	7.14	-24.9
Surface	17	18	-5.6	6,805	6,644	2.4	30.29	31.72	-4.5
Appalachian Total	1,565	1,514	3.4	60,269	56,325	7.0	2.38	2.58	-7.5
Underground	651	637	2.2	40,520	37,690	7.5	2.22	2.42	-8.5
Surface	914	877	4.2	19,749	18,635	6.0	2.72	2.89	-5.9
Northern Appalachian	470	455	3.3	17,805	16,576	7.4	3.23	3.42	-5.5
Underground	130	122	6.6	13,227	12,031	9.9	3.45	3.67	-6.0
Surface	340	333	2.1	4,578	4,545	0.7	2.57	2.68	-4.4
Central Appalachian	1,030	997	3.3	37,706	35,408	6.5	2.08	2.27	-8.2
Underground	508	503	1.0	24,154	22,689	6.5	1.65	1.84	-10.0
Surface	522	494	5.7	13,552	12,719	6.5	2.85	3.03	-6.1
Southern Appalachian	65	62	4.8	4,758	4,341	9.6	1.66	1.93	-13.7
Underground	13	12	8.3	3,139	2,970	5.7	1.45	1.78	-19.0
Surface	52	50	4.0	1,619	1,371	18.1	2.08	2.23	-6.6
Interior Total	139	145	-4.1	15,705	14,668	7.1	4.59	4.60	-0.2
Underground	57	58	-1.7	9,175	8,335	10.1	3.67	3.70	-1.0
Surface	82	87	-5.7	6,530	6,333	3.1	5.98	5.83	2.5
Illinois Basin	113	115	-1.7	11,998	11,083	8.3	4.00	4.02	-0.6
Underground	55	55	-	9,059	8,236	10.0	3.70	3.72	-0.7
Surface	58	60	-3.3	2,939	2,847	3.2	4.94	4.89	1.0
Western Total	64	63	1.6	15,508	15,064	2.9	18.07	18.95	-4.6
Underground	27	26	3.8	4,700	4,490	4.7	5.36	5.62	-4.6
Surface	37	37	-	10,808	10,574	2.2	23.67	24.65	-3.9
Powder River Basin	16	16	-	7,041	6,896	2.1	31.33	32.59	-3.9
Surface	16	16	-	7,041	6,896	2.1	31.33	32.59	-3.9
Uinta	23	24	-4.2	3,898	3,976	-2.0	5.61	5.36	4.6
Underground	19	21	-9.5	3,429	3,505	-2.2	5.64	5.43	3.9
Surface	4	3	33.3	469	471	-0.4	5.37	4.89	9.8
East of Mississippi River	1,679	1,630	3.0	72,491	67,640	7.2	2.67	2.83	-5.9
Underground	706	692	2.0	49,579	45,926	8.0	2.49	2.66	-6.1
Surface	973	938	3.7	22,912	21,714	5.5	3.04	3.21	-5.3
West of Mississippi River	89	92	-3.3	18,991	18,417	3.1	15.93	16.60	-4.0
Underground	29	29	-	4,816	4,589	4.9	5.25	5.54	-5.3
Surface	60	63	-4.8	14,175	13,828	2.5	19.59	20.25	-3.3
U.S. Subtotal	1,768	1,722	2.7	91,482	86,057	6.3	5.19	5.55	-6.4
Underground	735	721	1.9	54,395	50,515	7.7	2.72	2.89	-6.2
Surface	1,033	1,001	3.2	37,087	35,542	4.3	8.97	9.47	-5.3
Refuse Recovery	29	28	3.6	129	138	-6.5	7.35	8.15	-9.8
U.S. Total	1,797	1,750	2.7	91,611	86,195	6.3	5.19	5.55	-6.4

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 only processing both underground and surface coal are reported as two operations.

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

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

* Absolute percentage less than 0.05.

- = No data are reported.

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

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

Table 22. Underground coal mining productivity by State and mining method, 2011

(short tons produced per employee per hour)

Coal-Producing State, Region ¹ and Mine Type	Continuous ²	Conventional and Other ³	Longwall ⁴	Total
Alabama	0.59	-	1.48	1.45
Arkansas	0.68	-	-	0.68
Colorado	3.62	-	6.13	6.01
Illinois	3.38	-	5.59	4.06
Indiana	3.45	-	-	3.45
Kentucky Total	2.30	2.10	-	2.29
Eastern (Kentucky)	1.69	2.10	-	1.71
Western (Kentucky)	3.53	-	-	3.53
Maryland	2.29	0.66	-	2.11
Montana	-	-	7.23	7.23
New Mexico	-	-	4.55	4.55
Ohio	3.09	-	5.08	4.25
Oklahoma	3.07	-	-	3.07
Pennsylvania Total	2.43	0.37	4.04	3.45
Anthracite (Pennsylvania)	0.61	0.37	-	0.58
Bituminous (Pennsylvania)	2.51	-	4.04	3.50
Tennessee	1.20	-	-	1.20
Utah	2.21	-	5.62	5.17
Virginia	1.35	0.99	3.26	1.72
West Virginia Total	1.65	-	3.13	2.12
Northern (West Virginia)	2.03	-	3.64	3.21
Southern (West Virginia)	1.60	-	1.86	1.63
Wyoming	-	-	5.36	5.36
Appalachian Total	1.73	1.95	3.17	2.23
Northern Appalachian	2.41	0.54	4.00	3.45
Central Appalachian	1.59	2.04	2.31	1.67
Southern Appalachian	0.58	-	1.48	1.45
Interior Total	3.44	-	5.59	3.68
Illinois Basin	3.47	-	5.59	3.71
Western Total	2.57	-	5.82	5.59
Uinta	2.20	-	5.90	5.64
East of Mississippi River	2.15	1.95	3.34	2.51
West of Mississippi River	2.28	-	5.82	5.47
U.S. Total	2.16	1.95	3.84	2.74

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 are reported.

Note: For each State, stand alone preparation plant hours are distributed across mining methods by the proportion of underground hours for all stand alone mines. Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes mines producing less than 25,000 short tons of coal and preparation plants with less than 5,000 employee hours during the year, which are not required to provide data.

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

Table 23. Coal mining productivity by State, mine type, and mine production range, 2011

(short tons produced per employee per 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	1.79	1.07	2.12	1.98	1.10	0.95	1.19	1.66
Underground	1.70	0.45	-	-	0.66	0.61	1.03	1.45
Surface	2.70	2.73	2.12	1.98	1.35	1.03	1.23	2.08
Alaska	6.48	-	-	-	-	-	-	6.48
Surface	6.48	-	-	-	-	-	-	6.48
Arizona	8.44	-	-	-	-	-	-	8.44
Surface	8.44	-	-	-	-	-	-	8.44
Arkansas	-	-	-	0.68	-	-	1.32	0.70
Underground	-	-	-	0.68	-	-	-	0.68
Surface	-	-	-	-	-	-	1.32	1.32
Colorado	6.07	3.83	7.12	-	-	0.5	-	5.48
Underground	6.20	3.83	-	-	-	0.5	-	5.42
Surface	5.61	-	7.12	-	-	-	-	5.69
Illinois	4.43	3.19	3.17	4.16	1.14	-	-	4.03
Underground	4.41	2.89	2.03	-	-	-	-	4.03
Surface	4.53	6.82	4.40	4.16	1.28	-	-	4.03
Indiana	4.44	4.44	4.07	2.75	3.40	-	-	4.25
Underground	3.62	-	2.55	2.24	-	-	-	3.43
Surface	5.67	4.44	4.57	3.13	3.40	-	-	5.22
Kansas	-	-	-	-	-	1.98	-	1.98
Surface	-	-	-	-	-	1.98	-	1.98
Kentucky Total	3.96	2.53	2.47	2.09	1.77	1.55	0.72	2.48
Underground	3.69	2.03	2.01	1.65	1.74	1.21	0.39	2.27
Surface	5.03	3.61	3.16	2.64	1.79	1.87	1.16	2.86
Eastern (Kentucky)	3.13	2.47	2.43	2.11	1.77	1.56	0.72	2.05
Underground	2.36	2.04	2.02	1.66	1.74	1.26	0.39	1.69
Surface	4.12	3.42	3.05	2.64	1.79	1.83	1.16	2.58
Western (Kentucky)	4.27	3.25	3.32	1.74	-	1.35	-	3.77
Underground	4.00	2.00	1.75	1.49	-	0.72	-	3.53
Surface	6.31	5.23	5.10	2.32	-	9.00	-	4.96
Louisiana	7.06	-	-	-	-	-	-	7.06
Surface	7.06	-	-	-	-	-	-	7.06
Maryland	-	4.27	2.89	4.04	2.38	1.90	0.99	2.66
Underground	-	4.27	1.64	-	-	0.86	-	2.11
Surface	-	-	3.29	4.04	2.38	2.28	0.99	2.99
Mississippi	6.14	-	-	-	-	-	-	6.14
Surface	6.14	-	-	-	-	-	-	6.14
Missouri	-	-	6.86	-	-	-	-	6.86
Surface	-	-	6.86	-	-	-	-	6.86
Montana	16.41	-	12.31	-	-	-	-	16.37
Underground	7.23	-	-	-	-	-	-	7.23
Surface	19.99	-	12.31	-	-	-	-	19.87
New Mexico	8.38	-	-	-	-	-	-	8.38
Underground	4.43	-	-	-	-	-	-	4.43
Surface	10.44	-	-	-	-	-	-	10.44
North Dakota	12.14	-	-	-	-	-	-	12.10
Surface	12.14	-	-	-	-	-	-	12.10
Ohio	4.96	3.60	2.65	2.19	3.05	2.21	1.15	3.90
Underground	4.98	2.66	2.73	1.76	-	-	-	4.25
Surface	4.77	3.91	2.58	2.53	3.05	2.21	1.15	3.33
Oklahoma	-	-	2.49	-	1.88	-	1.69	2.44
Underground	-	-	3.07	-	-	-	-	3.07
Surface	-	-	2.23	-	1.88	-	1.69	2.19
Pennsylvania Total	3.97	3.42	2.80	2.42	1.86	1.98	1.27	3.01
Underground	4.04	3.42	2.71	2.03	0.95	1.00	0.93	3.44
Surface	2.76	-	2.98	2.54	2.08	2.05	1.35	2.01
Anthracite (Pennsylvania)	-	-	4.50	1.70	1.65	2.03	1.02	1.11
Underground	-	-	-	1.44	-	0.79	1.00	0.63

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)							Total ²
	Above 1,000	Above 500 to 1,000	Above 200 to 500	Above 100 to 200	Above 50 to 100	Above 10 to 50	10 or Under	
Surface	-	-	4.50	1.77	1.65	2.23	1.04	1.18
Bituminous (Pennsylvania)	3.97	3.42	2.75	2.58	1.96	1.96	1.42	3.22
Underground	4.04	3.42	2.71	2.14	0.95	1.35	0.76	3.50
Surface	2.76	-	2.82	2.71	2.35	1.98	1.48	2.33
Tennessee	-	-	2.00	1.80	1.76	0.98	0.21	1.44
Underground	-	-	2.00	-	0.96	1.08	0.13	1.16
Surface	-	-	-	1.80	4.22	0.91	0.26	1.59
Texas	7.25	-	-	-	-	-	-	7.25
Surface	7.25	-	-	-	-	-	-	7.25
Utah	5.85	5.34	1.19	2.97	-	-	-	5.12
Underground	5.85	5.34	1.19	2.97	-	-	-	5.17
Virginia	2.95	2.48	2.05	1.59	1.35	1.29	1.49	1.81
Underground	2.95	-	1.77	1.22	1.25	1.24	0.79	1.71
Surface	-	2.48	2.75	2.31	1.55	1.40	2.01	2.08
West Virginia Total	3.37	2.81	1.97	1.51	1.59	1.20	0.43	2.45
Underground	3.05	2.16	1.70	1.31	1.33	0.92	0.20	2.10
Surface	4.15	3.79	3.36	2.84	2.08	1.74	1.14	3.36
Northern (West Virginia)	3.62	3.01	1.73	1.48	2.34	1.37	0.74	3.23
Underground	3.58	2.21	1.55	0.94	1.37	1.04	0.60	3.20
Surface	5.50	4.37	5.79	3.29	3.40	1.66	2.14	3.52
Southern (West Virginia)	3.17	2.79	1.99	1.51	1.53	1.15	0.41	2.21
Underground	2.16	2.16	1.72	1.33	1.33	0.90	0.16	1.62
Surface	4.11	3.74	3.31	2.80	1.92	1.78	1.12	3.35
Wyoming	29.41	-	7.04	-	-	3.91	-	29.34
Underground	5.36	-	-	-	-	-	-	5.36
Surface	30.36	-	7.04	-	-	3.91	-	30.29
Appalachian Total	3.36	2.67	2.25	1.89	1.67	1.50	0.81	2.38
Underground	3.20	2.11	1.92	1.45	1.38	1.12	0.37	2.22
Surface	4.00	3.58	2.92	2.46	1.93	1.79	1.21	2.72
Northern Appalachian	3.97	3.44	2.62	2.36	2.06	1.90	1.20	3.23
Underground	3.98	3.02	2.39	1.78	1.06	0.99	0.83	3.45
Surface	3.91	4.00	3.03	2.61	2.30	2.05	1.28	2.57
Central Appalachian	3.14	2.64	2.18	1.77	1.63	1.37	0.62	2.08
Underground	2.38	2.10	1.83	1.41	1.46	1.15	0.29	1.65
Surface	4.11	3.53	3.06	2.49	1.85	1.66	1.14	2.85
Southern Appalachian	1.79	1.07	2.12	1.98	1.10	0.95	1.19	1.66
Underground	1.70	0.45	-	-	0.66	0.61	1.03	1.45
Surface	2.70	2.73	2.12	1.98	1.35	1.03	1.23	2.08
Interior Total	5.04	3.43	3.46	2.00	2.36	1.49	1.42	4.59
Underground	4.06	2.62	2.22	1.24	-	0.72	-	3.67
Surface	6.58	5.01	4.21	3.28	2.44	3.51	1.42	5.98
Illinois Basin	4.37	3.43	3.57	2.58	2.52	1.35	-	4.00
Underground	4.06	2.62	2.04	1.77	-	0.72	-	3.70
Surface	5.63	5.01	4.65	3.28	2.64	9.00	-	4.94
Western Total	18.80	4.43	3.14	2.97	-	0.12	-	18.07
Underground	5.92	4.43	1.19	2.97	-	0.5	-	5.36
Surface	23.81	-	8.39	-	-	3.91	-	23.67
Powder River Basin	31.33	-	-	-	-	-	-	31.33
Surface	31.33	-	-	-	-	-	-	31.33
Uinta	5.98	5.34	1.19	2.97	-	-	-	5.61
Underground	6.03	5.34	1.19	2.97	-	-	-	5.64
Surface	5.61	-	-	-	-	-	-	5.37
East of Mississippi River	3.71	2.73	2.32	1.91	1.68	1.50	0.81	2.67
Underground	3.48	2.16	1.93	1.46	1.38	1.11	0.37	2.49
Surface	4.59	3.69	3.06	2.48	1.96	1.80	1.21	3.04
West of Mississippi River	16.71	4.43	3.12	1.18	1.88	0.20	1.42	15.93
Underground	5.92	4.43	1.76	1.18	-	0.5	-	5.25
Surface	19.92	-	4.38	-	1.88	2.52	1.42	19.59
U.S. Subtotal	8.22	2.75	2.34	1.90	1.68	1.40	0.81	5.19
Underground	3.81	2.20	1.92	1.45	1.38	0.94	0.37	2.72
Surface	14.85	3.69	3.11	2.48	1.96	1.81	1.21	8.97
Refuse Recovery	-	36.98	-	7.19	6.01	3.75	1.27	7.35
U.S. Total	8.22	2.77	2.34	1.92	1.74	1.41	0.83	5.19

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

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

- = No data are reported.

Note: Productivity is calculated by dividing total coal production by the total labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes preparation plants with less than 5,000 employee hours during the year, which are not required to provide data.

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

Table 24. Coal mining productivity by State, mine type, and union status, 2011

(short tons produced per employee per hour)

Coal-Producing State and Region ¹	Union		Nonunion	
	Underground	Surface	Underground	Surface
Alabama	1.48	-	0.54	2.14
Alaska	-	6.48	-	-
Arizona	-	8.44	-	-
Arkansas	-	-	0.68	-
Colorado	6.60	6.36	5.95	5.09
Illinois	1.70	-	4.20	4.19
Indiana	-	-	3.43	5.22
Kansas	-	-	-	1.98
Kentucky Total	2.88	2.42	2.27	2.92
Eastern (Kentucky)	0.89	2.42	1.73	2.63
Western (Kentucky)	3.43	-	3.55	4.95
Louisiana	-	-	-	7.06
Maryland	-	-	2.11	3.20
Mississippi	-	-	-	6.14
Missouri	-	-	-	6.86
Montana	-	13.25	7.23	37.20
New Mexico	4.55	8.90	-	12.07
North Dakota	-	13.25	-	11.76
Ohio	4.47	-	4.15	3.35
Oklahoma	-	-	3.07	2.19
Pennsylvania Total	3.04	1.09	3.66	2.15
Anthracite (Pennsylvania)	-	1.06	0.58	1.20
Bituminous (Pennsylvania)	3.04	1.20	3.74	2.42
Tennessee	-	-	1.20	1.65
Texas	-	7.83	-	6.14
Utah	4.83	-	5.24	-
Virginia	1.09	-	1.77	2.11
West Virginia Total	2.89	3.20	1.78	3.41
Northern (West Virginia)	3.60	-	2.35	3.67
Southern (West Virginia)	1.30	3.20	1.69	3.39
Wyoming	5.36	6.05	-	32.08
Appalachian Total	2.54	2.71	2.12	2.76
Northern Appalachian	3.51	1.09	3.41	2.73
Central Appalachian	1.24	3.07	1.71	2.86
Southern Appalachian	1.48	-	0.53	2.14
Interior Total	2.87	7.74	3.73	5.29
Illinois Basin	2.87	-	3.76	4.97
Western Total	5.08	9.44	5.75	28.26
Powder River Basin	-	13.27	-	33.10
Uinta	5.39	6.26	5.68	4.71
East of Mississippi River	2.56	2.68	2.50	3.12
West of Mississippi River	5.08	8.74	5.57	24.79
U.S. Total	2.76	6.99	2.74	9.52

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

- = No data are reported.

Note: Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes mines producing less than 25,000 short tons of coal and preparation plants with less than 5,000 employee hours during the year, which are not required to provide data.

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

Domestic Markets

Table 25. Coal consumers in the manufacturing and coke sectors, 2011

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

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

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

Table 26. U.S. coal consumption by end use sector, by census division and State, 2011, 2010

(thousand short tons)

Census Division and State	2011				2010				Total		Percent Change
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	2011	2010	
New England	3,025	w	-	-	6,164	w	-	-	w	w	-50.3
Connecticut	325	-	-	-	1,366	-	-	-	325	1,366	-76.2
Maine	38	w	-	-	54	w	-	-	w	w	-30.7
Massachusetts	1,763	w	-	-	3,497	w	-	-	w	w	-48.8
New Hampshire	898	-	-	-	1,247	-	-	-	898	1,247	-28.0
Middle Atlantic	53,970	2,926	w	w	60,355	3,102	w	w	62,401	69,032	-9.6
New Jersey	1,976	-	-	-	3,082	-	-	-	1,976	3,082	-35.9
New York	4,591	809	w	w	6,384	792	w	w	5,605	7,367	-23.9
Pennsylvania	47,403	2,117	w	170	50,888	2,310	w	185	w	w	-6.4
East North Central	209,673	10,950	11,673	907	224,252	12,807	10,952	1,029	233,203	249,040	-6.4
Illinois	53,682	3,437	w	151	55,382	3,392	w	171	w	w	-2.6
Indiana	52,704	3,298	w	301	56,348	5,060	w	341	w	w	-7.7
Michigan	32,335	1,141	w	w	34,976	1,139	w	w	35,143	37,779	-7.0
Ohio	48,140	1,532	2,925	193	53,712	1,644	w	226	52,790	w	w
Wisconsin	22,812	1,541	-	99	23,833	1,572	-	112	24,453	25,517	-4.2
West North Central	145,208	13,169	-	493	146,462	13,050	-	563	158,870	160,076	-0.8
Iowa	22,677	3,542	-	w	24,780	3,348	-	w	w	w	-6.8
Kansas	20,129	w	-	-	20,965	w	-	-	w	w	-4.0
Minnesota	16,515	w	-	w	16,582	w	-	w	17,846	17,929	-0.5
Missouri	46,353	554	-	w	44,692	768	-	w	w	w	3.1
Nebraska	15,711	1,039	-	-	14,167	698	-	-	16,750	14,865	12.7
North Dakota	22,056	w	-	89	23,113	w	-	91	w	w	-4.2
South Dakota	1,768	w	-	w	2,164	w	-	w	1,956	2,333	-16.2
South Atlantic	140,609	6,620	w	286	159,617	7,380	w	305	w	w	-11.6
Delaware	717	-	-	-	1,230	-	-	-	717	1,230	-41.7
District of Columbia	-	-	-	w	-	-	-	w	w	w	53.3
Florida	22,805	489	-	-	25,698	846	-	-	23,294	26,543	-12.2
Georgia	28,894	1,160	-	w	34,269	1,246	-	w	w	w	-15.4
Maryland	8,917	951	-	w	9,846	945	-	w	w	w	-8.5
North Carolina	24,591	764	-	163	29,455	883	-	192	25,518	30,530	-16.4
South Carolina	13,970	911	-	-	15,411	924	-	w	14,881	w	w
Virginia	8,799	1,443	w	90	10,958	1,605	w	84	w	w	-16.9
West Virginia	31,917	902	w	-	32,752	930	w	-	w	w	-2.4
East South Central	96,864	5,300	w	115	102,087	5,340	w	130	w	w	-5.1
Alabama	28,151	1,268	w	-	30,985	1,376	w	-	w	w	-8.5
Kentucky	42,543	1,336	w	45	41,891	1,181	w	44	w	w	0.9
Mississippi	6,203	w	-	-	8,589	w	-	-	w	w	-27.5
Tennessee	19,967	2,578	-	70	20,622	2,658	-	87	22,615	23,367	-3.2
West South Central	165,584	1,893	-	w	152,399	1,912	-	w	w	w	8.5
Arkansas	17,465	w	-	-	16,537	w	-	-	w	w	5.2
Louisiana	16,713	w	-	-	16,218	w	-	-	w	w	3.4
Oklahoma	21,307	w	-	-	19,363	w	-	-	w	w	9.6
Texas	110,098	956	-	w	100,281	952	-	w	w	w	9.7
Mountain	110,197	3,522	-	w	113,528	3,899	-	w	w	w	-3.3
Arizona	23,217	503	-	-	23,084	536	-	-	23,719	23,620	0.4
Colorado	18,744	w	-	w	18,979	w	-	w	19,032	19,585	-2.8
Idaho	-	382	-	w	-	416	-	w	w	w	-8.0
Montana	9,758	w	-	w	12,005	w	-	w	9,848	12,087	-18.5
Nevada	2,863	w	-	-	3,588	w	-	-	w	w	-21.3
New Mexico	15,496	w	-	-	14,536	w	-	-	w	w	6.5
Utah	15,005	w	-	-	15,233	717	-	-	w	15,950	w
Wyoming	25,114	1,675	-	w	26,102	w	-	w	w	27,707	w
Pacific	7,355	1,773	-	w	10,188	1,701	-	w	w	w	-21.6
Alaska	409	5	-	w	410	4	-	w	w	w	8.3
California	812	1,536	-	-	892	1,419	-	-	2,347	2,311	1.6
Hawaii	724	w	-	-	742	w	-	-	w	w	-2.6
Oregon	1,985	w	-	-	2,417	w	-	-	w	w	-17.2

Census Division and State	2011				2010				Total		Percent Change
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	2011	2010	
Washington	3,425	w	-	-	5,727	w	-	-	w	w	-40.0
U.S. Total	932,484	46,238	21,434	2,793	975,052	49,289	21,092	3,081	1,002,948	1,048,514	-4.4

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 are reported.

w = Data withheld to avoid disclosure.

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

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

Table 27. Year-end coal stocks by sector, by census division and State, 2011, 2010

(thousand short tons)

Census Division and State	2011					2010					Total		
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Producer and Distributor	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Producer and Distributor	2011	2010	Percent Change
New England	1,389	w	-	-	-	873	w	-	-	-	w	w	52.9
Connecticut	205	-	-	-	-	86	-	-	-	-	205	86	139.6
Maine	-	w	-	-	-	-	w	-	-	-	w	w	-68.7
Massachusetts	675	w	-	-	-	425	w	-	-	-	w	w	55.8
New Hampshire	509	-	-	-	-	363	-	-	-	-	509	363	40.2
Middle Atlantic	7,800	256	w	w	2,156	6,833	263	w	w	2,237	10,898	9,833	10.8
New Jersey	871	-	-	-	-	460	-	-	-	-	871	460	89.2
New York	898	102	w	-	-	473	108	w	w	-	w	589	w
Pennsylvania	6,031	154	w	46	2,156	5,900	155	w	44	2,237	w	w	2.5
East North Central	37,262	873	1,681	229	5,954	41,068	1,152	1,115	225	5,829	46,000	49,388	-6.9
Illinois	8,905	166	w	42	2,802	7,865	175	w	41	2,318	w	w	15.3
Indiana	9,094	257	w	79	1,429	10,535	454	w	77	1,519	w	w	-11.7
Michigan	6,512	203	w	w	293	6,852	252	w	w	414	7,564	7,969	-5.1
Ohio	7,331	104	423	36	690	9,127	68	w	31	684	8,584	w	w
Wisconsin	5,420	143	-	5	739	6,690	204	-	9	894	6,307	7,796	-19.1
West North Central	28,544	975	-	97	2,129	28,034	1,069	-	95	1,971	31,745	31,169	1.9
Iowa	7,199	349	-	w	134	6,150	479	-	w	140	w	w	13.4
Kansas	3,669	w	-	-	-	3,639	w	-	-	-	w	w	0.8
Minnesota	3,247	w	-	w	147	2,659	w	-	w	116	3,652	3,016	21.1
Missouri	8,210	62	-	w	1	9,342	80	-	w	1	w	w	-12.2
Nebraska	3,607	97	-	-	-	4,114	77	-	-	-	3,703	4,191	-11.6
North Dakota	2,270	w	-	10	1,847	1,816	w	-	3	1,714	w	w	16.6
South Dakota	343	w	-	w	-	315	w	-	w	-	373	344	8.3
South Atlantic	36,920	693	w	91	17,182	32,123	667	w	71	16,562	w	w	10.9
Delaware	168	-	-	-	-	284	-	-	-	-	168	284	-41.0
District of Columbia	-	-	-	w	-	-	-	-	w	-	w	w	-36.6
Florida	6,374	91	-	-	-	6,126	138	-	-	2	6,465	6,266	3.2
Georgia	7,885	133	-	w	-	5,959	135	-	w	-	w	w	31.6
Maryland	1,860	47	-	w	1,015	1,640	30	-	w	1,479	w	w	-7.2
North Carolina	6,642	42	-	37	-	3,882	35	-	25	10	6,721	3,952	70.1
South Carolina	6,527	167	-	-	-	6,401	139	-	-	6	6,694	6,546	2.3
Virginia	2,480	161	-	35	4,329	1,564	125	-	25	1,733	7,004	3,448	103.2
West Virginia	4,985	52	w	-	11,838	6,266	65	w	-	13,332	w	w	-14.5
East South Central	17,185	432	w	25	9,198	19,233	276	w	22	6,059	w	w	4.9
Alabama	4,499	255	w	-	1,414	5,574	113	w	-	1,952	w	w	-18.3
Kentucky	7,357	58	-	19	6,994	8,546	50	w	15	3,377	14,428	w	w
Mississippi	1,450	w	-	-	768	1,376	w	-	-	730	w	w	5.3
Tennessee	3,879	115	-	6	22	3,737	108	-	8	-	4,022	3,853	4.4
West South Central	22,910	348	-	w	1,715	28,070	373	-	w	2,347	w	w	-18.9
Arkansas	3,590	w	-	-	1	3,445	w	-	-	-	w	w	3.8
Louisiana	2,331	w	-	-	812	1,909	w	-	-	1,478	w	w	-6.7
Oklahoma	3,872	w	-	-	-	5,707	w	-	-	-	w	w	-31.4
Texas	13,117	112	-	w	902	17,009	131	-	w	869	w	w	-21.5
Mountain	18,543	609	-	w	13,401	17,620	497	-	w	14,584	w	w	-0.5
Arizona	2,750	98	-	-	1,332	3,047	69	-	-	1,097	4,181	4,213	-0.8
Colorado	4,342	w	-	-	2,339	3,419	w	-	w	1,785	w	5,221	w
Idaho	-	253	-	-	-	-	248	-	w	-	254	w	w
Montana	1,005	w	-	w	421	717	w	-	w	840	1,442	1,568	-8.1
Nevada	1,360	w	-	-	-	1,137	w	-	-	-	w	w	27.7
New Mexico	864	w	-	-	4,022	947	w	-	-	6,338	w	w	-32.9
Utah	4,947	w	-	-	3,126	4,866	24	-	-	2,586	w	7,477	w
Wyoming	3,275	53	-	-	2,161	3,487	w	-	-	1,937	5,490	w	w
Pacific	1,833	248	-	w	160	1,063	180	-	w	232	w	w	50.7
Alaska	344	-	-	w	160	189	-	-	w	232	w	w	21.2
California	96	152	-	-	-	75	128	-	-	-	248	204	21.9
Hawaii	146	w	-	-	-	66	w	-	-	-	w	w	112.1
Oregon	686	w	-	-	-	361	w	-	-	-	w	w	89.7

Census Division and State	2011					2010					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	2011	2010	
Washington	560	w	-	-	-	372	w	-	-	-	w	w	50.2
U.S. Total	172,387	4,455	2,610	603	51,897	174,917	4,525	1,925	552	49,820	231,951	231,741	0.1

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

- = No data are reported.

w = Data withheld to avoid disclosure.

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

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

Average Mine Sales Price

Table 28. Average sales price of coal by State and mine type, 2011, 2010

(dollars per short ton)

Coal-Producing State	2011			2010			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	100.17	108.71	102.69	88.55	82.09	86.15	13.1	32.4	19.2
Alaska	-	w	w	-	w	w	-	w	w
Arizona	-	w	w	-	w	w	-	w	w
Arkansas	w	-	w	-	-	-	w	-	w
Colorado	w	w	39.88	w	w	40.00	w	w	-0.3
Illinois	51.43	46.60	50.80	50.19	45.24	49.46	2.5	3.0	2.7
Indiana	51.77	44.91	47.96	49.00	38.91	43.03	5.7	15.4	11.5
Kansas	-	w	w	-	w	w	-	w	w
Kentucky Total	63.38	64.01	63.63	60.69	61.07	60.84	4.4	4.8	4.6
Eastern (Kentucky)	78.63	70.86	74.70	74.25	66.91	70.67	5.9	5.9	5.7
Western (Kentucky)	47.87	38.93	45.89	45.34	35.36	43.38	5.6	10.1	5.8
Louisiana	-	w	w	-	w	w	-	w	w
Maryland	w	w	49.37	w	w	47.54	w	w	3.9
Mississippi	-	w	w	-	w	w	-	w	w
Missouri	-	w	w	-	w	w	-	w	w
Montana	w	w	16.02	w	w	15.12	w	w	6.0
New Mexico	w	w	34.22	w	w	30.67	w	w	11.6
North Dakota	-	15.72	15.72	-	14.57	14.57	-	7.9	7.9
Ohio	47.86	43.41	46.39	44.35	41.02	43.24	7.9	5.8	7.3
Oklahoma	w	w	70.39	w	w	56.95	w	w	23.6
Pennsylvania Total	78.67	82.89	79.47	62.58	62.17	62.51	25.7	33.3	27.1
Anthracite (Pennsylvania)	w	w	75.70	w	w	59.51	w	w	27.2
Bituminous (Pennsylvania)	w	w	79.61	w	w	62.59	w	w	27.2
Tennessee	66.27	77.27	74.24	65.57	66.83	66.45	1.1	15.6	11.7
Texas	-	19.32	19.32	-	20.32	20.32	-	-4.9	-4.9
Utah	33.80	-	33.80	29.15	-	29.15	16.0	-	16.0
Virginia	145.87	111.15	135.14	108.09	81.80	98.46	35.0	35.9	37.3
West Virginia Total	89.40	77.39	84.81	72.38	66.24	70.07	23.5	16.8	21.0
Northern (West Virginia)	60.91	65.74	61.27	53.60	63.43	54.59	13.6	3.6	12.2
Southern (West Virginia)	114.25	78.15	95.44	87.54	66.49	77.03	30.5	17.5	23.9
Wyoming	w	w	13.56	w	w	12.75	w	w	6.4
U.S. Total	70.47	27.00	41.01	60.73	24.13	35.61	16.0	11.9	15.2

- = No data are reported.

w = Data withheld to avoid disclosure.

Note: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

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

Table 29. Average sales price of coal by State and underground mining method, 2011

(dollars per short ton)

Coal-Producing State	Continuous ¹	Conventional and Other ²	Longwall ³	Total
Alabama	w	-	w	100.17
Arkansas	w	-	-	w
Colorado	w	-	w	41.83
Illinois	w	-	w	51.43
Indiana	51.77	-	-	51.77
Kentucky Total	63.13	69.98	-	63.38
Eastern (Kentucky)	79.30	69.98	-	78.63
Western (Kentucky)	47.87	-	-	47.87
Maryland	w	w	-	w
Montana	-	-	w	w
New Mexico	-	-	w	w
Ohio	w	-	w	47.86
Oklahoma	w	-	-	w
Pennsylvania Total	112.45	w	66.52	w
Anthracite (Pennsylvania)	w	w	-	w
Bituminous (Pennsylvania)	w	-	66.52	w
Tennessee	66.27	-	-	66.27
Utah	w	-	w	33.80
Virginia	119.56	w	w	145.87
West Virginia Total	107.43	-	68.74	89.40
Northern (West Virginia)	86.64	-	55.84	60.91
Southern (West Virginia)	110.91	-	134.20	114.25
Wyoming	-	-	w	w
U.S. Total	78.02	70.15	63.18	70.47

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 are reported.

w = Data withheld to avoid disclosure.

Note: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

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

Table 30. Average sales price of coal by State, County, and number of mines, 2011

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Alabama	43	26,372	102.69
Bibb	1	w	w
Blount	2	w	w
Fayette	1	w	w
Franklin	2	w	w
Jefferson	11	5,434	171.82
Marion	1	w	w
Shelby	2	w	w
Tuscaloosa	8	13,547	93.00
Walker	13	2,859	73.30
Winston	2	w	w
Alaska	1	w	w
Yukon-Koyukuk Division	1	w	w
Arizona	1	w	w
Navajo	1	w	w
Arkansas	1	w	w
Sebastian	1	w	w
Colorado	9	26,334	39.88
Delta	1	w	w
Gunnison	2	w	w
La Plata	1	w	w
Moffat	2	w	w
Montrose	1	w	w
Rio Blanco	1	w	w
Routt	1	w	w
Illinois	24	38,160	50.80
Franklin	1	w	w
Gallatin	2	w	w
Jackson	1	w	w
Macoupin	2	w	w
Mcdonough	1	w	w
Montgomery	1	w	w
Perry	4	3,577	41.91
Randolph	2	w	w
Saline	5	10,811	55.31
Sangamon	1	w	w
Wabash	1	w	w
Washington	1	w	w
White	1	w	w
Williamson	1	w	w
Indiana	28	37,307	47.96
Daviess	3	w	w
Dubois	1	w	w
Gibson	4	10,484	47.14
Knox	6	5,042	57.45
Pike	6	4,042	46.45
Sullivan	2	w	w
Vigo	1	w	w
Warrick	5	3,579	43.87
Kansas	1	w	w
Bourbon	1	w	w
Kentucky	283	107,427	63.63
Bell	11	1,371	77.39
Boyd	1	w	w
Breathitt	2	w	w
Clay	4	342	73.46
Daviess	1	w	w
Elliott	1	w	w
Floyd	19	2,921	66.63
Harlan	45	9,952	74.05

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Henderson	2	w	w
Hopkins	4	12,421	48.28
Johnson	2	w	w
Knott	15	4,462	67.44
Knox	2	w	w
Lawrence	1	w	w
Leslie	12	3,998	83.02
Letcher	21	4,130	79.10
Magoffin	6	3,034	70.47
Martin	16	5,606	70.77
Muhlenberg	7	5,594	46.45
Ohio	6	5,781	38.94
Perry	25	13,573	74.03
Pike	70	14,578	78.73
Union	3	w	w
Webster	1	w	w
Whitley	6	456	82.61
Louisiana	1	w	w
De Soto	1	w	w
Maryland	16	2,713	49.37
Allegany	8	1,979	44.91
Garrett	8	734	61.41
Mississippi	1	w	w
Choctaw	1	w	w
Missouri	2	w	w
Bates	2	w	w
Montana	6	42,200	16.02
Big Horn	3	w	w
Musselshell	1	w	w
Richland	1	w	w
Rosebud	1	w	w
New Mexico	4	24,414	34.22
Mckinley	2	w	w
San Juan	2	w	w
North Dakota	4	28,174	15.72
Mclean	1	w	w
Mercer	2	w	w
Oliver	1	w	w
Ohio	35	27,088	46.39
Belmont	3	w	w
Carroll	1	w	w
Columbiana	2	w	w
Coshocton	1	w	w
Guernsey	1	w	w
Harrison	7	3,975	47.85
Jackson	1	w	w
Jefferson	4	1,348	47.62
Meigs	1	w	w
Monroe	1	w	w
Muskingum	1	w	w
Noble	2	w	w
Perry	3	w	w
Stark	2	w	w
Tuscarawas	3	w	w
Vinton	2	w	w
Oklahoma	5	1,082	70.39
Craig	1	w	w
Haskell	1	w	w
Le Flore	2	w	w
Nowata	1	w	w
Pennsylvania	145	58,975	79.47
Allegheny	1	w	w
Armstrong	11	3,455	78.02
Beaver	1	w	w
Bedford	2	w	w

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Blair	1	w	w
Butler	2	w	w
Cambria	6	1,394	113.51
Cameron	2	w	w
Centre	1	w	w
Clarion	1	w	w
Clearfield	20	3,680	119.98
Columbia	3	w	w
Elk	4	305	118.61
Fayette	1	w	w
Greene	6	26,269	64.24
Indiana	14	2,737	121.11
Jefferson	7	1,030	74.19
Lackawanna	1	w	w
Luzerne	4	499	92.45
Lycoming	1	w	w
Mercer	1	w	w
Northumberland	4	248	59.06
Schuylkill	26	1,293	62.88
Somerset	18	5,423	129.02
Washington	4	w	w
Westmoreland	3	w	w
Tennessee	16	1,527	74.24
Anderson	3	w	w
Campbell	9	830	81.94
Claiborne	4	439	71.20
Texas	13	44,417	19.32
Atascosa	1	w	w
Freestone	2	w	w
Harrison	1	w	w
Hopkins	1	w	w
Lee	1	w	w
Leon	1	w	w
Limestone	1	w	w
Panola	2	w	w
Robertson	1	w	w
Rusk	1	w	w
Titus	1	w	w
Utah	8	19,528	33.80
Carbon	5	9,791	37.24
Emery	2	w	w
Sevier	1	w	w
Virginia	91	22,093	135.14
Buchanan	28	9,145	161.27
Dickenson	11	1,250	141.98
Giles	1	w	w
Lee	5	513	110.71
Russell	6	808	130.88
Tazewell	3	w	w
Wise	37	9,097	116.59
West Virginia	230	133,822	84.81
Barbour	2	w	w
Boone	34	21,853	83.57
Brooke	1	w	w
Clay	2	w	w
Fayette	10	6,031	127.48
Grant	1	w	w
Greenbrier	7	1,462	182.97
Harrison	2	w	w
Kanawha	20	9,218	85.04
Lincoln	3	w	w
Logan	22	17,096	82.36
Marion	2	w	w
Marshall	2	w	w
Mcdowell	33	4,805	119.48

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Mercer	1	w	w
Mineral	1	w	w
Mingo	24	8,169	87.49
Monongalia	6	6,450	52.88
Nicholas	7	3,649	79.16
Ohio	1	w	w
Preston	1	w	w
Raleigh	17	7,112	123.63
Randolph	1	w	w
Tucker	2	w	w
Upshur	2	w	w
Wayne	6	4,456	69.41
Webster	5	3,400	78.15
Wyoming	15	4,293	162.50
Wyoming	18	438,250	13.56
Campbell	11	388,979	12.78
Converse	1	w	w
Hot Springs	1	w	w
Lincoln	1	w	w
Sweetwater	4	7,637	40.05
U.S. Total	986	1,097,172	41.01

- = No data are reported.

w = Data withheld to avoid disclosure.

Note: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

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

Table 31. Average sales price of coal by State and coal rank, 2011

(dollars per short ton)

Coal-Producing State	Bituminous	Subbituminous	Lignite	Anthracite	Total
Alabama	102.69	-	-	-	102.69
Alaska	-	w	-	-	w
Arizona	w	-	-	-	w
Arkansas	w	-	-	-	w
Colorado	w	w	-	-	39.88
Illinois	50.80	-	-	-	50.80
Indiana	47.96	-	-	-	47.96
Kansas	w	-	-	-	w
Kentucky Total	63.63	-	-	-	63.63
Eastern (Kentucky)	74.70	-	-	-	74.70
Western (Kentucky)	45.89	-	-	-	45.89
Louisiana	-	-	w	-	w
Maryland	49.37	-	-	-	49.37
Mississippi	-	-	w	-	w
Missouri	w	-	-	-	w
Montana	w	15.43	w	-	16.02
New Mexico	34.22	-	-	-	34.22
North Dakota	-	-	15.72	-	15.72
Ohio	46.39	-	-	-	46.39
Oklahoma	70.39	-	-	-	70.39
Pennsylvania Total	79.61	-	-	75.70	79.47
Anthracite (Pennsylvania)	-	-	-	75.70	75.70
Bituminous (Pennsylvania)	79.61	-	-	-	79.61
Tennessee	74.24	-	-	-	74.24
Texas	-	-	19.32	-	19.32
Utah	33.80	-	-	-	33.80
Virginia	135.14	-	-	-	135.14
West Virginia Total	84.81	-	-	-	84.81
Northern (West Virginia)	61.27	-	-	-	61.27
Southern (West Virginia)	95.44	-	-	-	95.44
Wyoming	-	13.56	-	-	13.56
U.S. Total	68.50	14.07	18.77	75.70	41.01

- = No data are reported.

w = Data withheld to avoid disclosure.

Note: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

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

Table 32. Average sales price of coal by mine production range and mine type, 2011

(dollars per short ton)

Mine Production Range (thousand short tons)	Underground	Surface	Total
Over 1,000	61.27	20.39	32.09
Over 500 to 1,000	92.57	64.61	78.58
Over 200 to 500	96.36	75.70	86.86
Over 100 to 200	106.05	75.42	88.51
Over 50 to 100	97.43	79.67	86.51
50 or Under	82.11	68.32	73.25
U.S. Total	70.47	27.00	41.01

Note: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

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

Table 33. Average sales price of U.S. coal by State and disposition, 2011

(dollars per short ton)

Coal-Producing State	Open Market¹	Captive²
Alabama	77.51	-
Alaska	w	-
Arizona	w	-
Arkansas	w	w
Colorado	39.74	41.57
Illinois	46.81	w
Indiana	44.62	51.44
Kansas	w	-
Kentucky Total	63.23	59.56
Eastern (Kentucky)	74.92	w
Western (Kentucky)	45.72	w
Louisiana	w	w
Maryland	43.00	-
Mississippi	w	-
Missouri	w	-
Montana	15.88	w
New Mexico	34.22	-
North Dakota	16.21	w
Ohio	46.58	w
Oklahoma	70.39	-
Pennsylvania Total	65.89	w
Anthracite (Pennsylvania)	61.43	w
Bituminous (Pennsylvania)	66.08	w
Tennessee	76.50	w
Texas	25.88	15.88
Utah	33.07	w
Virginia	98.63	w
West Virginia Total	73.73	w
Northern (West Virginia)	55.11	w
Southern (West Virginia)	83.64	w
Wyoming	13.17	14.42
U.S. Total	38.23	24.73

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.

- = No data are reported.

w = Data withheld to avoid disclosure.

Note: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 25,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

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

Average Consumer Prices

Table 34. Average price of coal delivered to end use sector by census division and State, 2011, 2010

(dollars per short ton)

Census Division and State	2011				2010				Annual Percent Change			
	Electric Power ¹	Other Industrial	Commercial and Institutional		Electric Power ¹	Other Industrial	Commercial and Institutional		Electric Power ¹	Other Industrial	Commercial and Institutional	
New England	87.62	w	-	-	81.98	w	-	-	6.88	-2.11	-	-
Connecticut	69.29	-	-	-	80.37	-	-	-	-13.79	-	-	-
Maine	162.19	w	-	-	142.59	w	-	-	13.75	-27.07	-	-
Massachusetts	87.17	w	-	-	76.36	w	-	-	14.16	12.82	-	-
New Hampshire	91.80	-	-	-	98.20	-	-	-	-6.52	-	-	-
Middle Atlantic	59.55	88.98	w	w	56.19	79.49	w	w	5.98	11.94	13.80	15.39
New Jersey	105.77	-	-	-	97.79	-	-	-	8.16	-	-	-
New York	70.84	109.37	w	w	65.59	109.18	w	w	8.00	s	25.25	16.49
Pennsylvania	56.37	80.81	w	132.44	53.18	69.79	w	114.91	6.00	15.79	13.28	15.26
East North Central	46.22	79.95	195.13	99.39	41.13	70.26	164.08	94.22	12.38	13.79	18.92	5.49
Illinois	30.30	51.04	w	60.58	29.76	50.05	w	64.39	1.81	1.98	15.84	-5.92
Indiana	52.67	99.12	w	84.63	44.76	71.69	w	71.76	17.67	38.26	28.48	17.93
Michigan	55.25	96.52	w	w	40.78	95.50	w	w	35.48	1.07	47.25	-7.98
Ohio	57.89	87.44	172.35	122.88	51.70	80.59	w	116.00	11.97	8.50	w	5.93
Wisconsin	45.45	82.30	-	154.49	37.29	79.79	-	134.59	21.88	3.15	-	14.79
West North Central	27.33	36.94	-	79.68	24.87	31.09	-	75.74	9.89	18.82	-	5.20
Iowa	24.42	50.92	-	w	22.72	49.76	-	w	7.48	2.33	-	3.48
Kansas	30.09	w	-	-	25.88	w	-	-	16.27	-9.57	-	-
Minnesota	34.08	56.05	-	w	30.73	49.06	-	w	10.90	14.25	-	9.59
Missouri	30.26	58.51	-	w	27.66	62.14	-	w	9.40	-5.84	-	17.14
Nebraska	25.65	33.87	-	-	24.20	34.09	-	-	5.99	-0.65	-	-
North Dakota	17.72	w	-	47.88	16.60	w	-	45.47	6.75	56.93	-	5.30
South Dakota	34.41	w	-	-	32.49	w	-	w	5.91	11.75	-	w
South Atlantic	80.53	99.50	w	125.14	79.86	90.30	w	121.10	0.84	10.19	22.87	3.34
Delaware	101.41	-	-	-	89.04	-	-	-	13.89	-	-	-
District of Columbia	-	-	-	-	-	-	-	w	-	-	-	w
Florida	84.85	111.28	-	-	83.33	98.63	-	-	1.82	12.83	-	-
Georgia	79.44	110.26	-	w	84.82	92.63	-	w	-6.34	19.03	-	36.03
Maryland	91.46	69.22	-	w	85.61	53.03	-	w	6.83	30.53	-	-18.46
North Carolina	88.51	109.26	-	127.82	86.25	104.10	-	122.98	2.62	4.96	-	3.94
South Carolina	95.21	104.33	-	-	92.91	94.17	-	w	2.48	10.79	-	w
Virginia	88.12	99.80	w	118.23	82.66	92.95	w	105.40	6.61	7.37	48.79	12.17
West Virginia	59.21	97.34	w	-	57.00	94.95	w	-	3.88	2.52	11.75	-
East South Central	56.77	95.23	w	112.61	55.01	88.70	w	108.63	3.20	7.36	37.24	3.66
Alabama	59.78	89.20	w	-	59.65	88.77	w	-	s	s	27.51	-
Kentucky	53.01	95.47	w	108.72	51.88	86.47	w	98.92	2.18	10.41	57.26	9.91
Mississippi	59.87	w	-	-	49.23	w	-	-	21.61	-1.72	-	-
Tennessee	59.41	98.46	-	w	56.96	89.35	-	113.67	4.30	10.20	-	w
West South Central	30.47	74.37	-	w	29.35	69.81	-	w	3.82	6.53	-	-15.25
Arkansas	33.41	w	-	-	29.87	w	-	-	11.85	9.86	-	-
Louisiana	39.19	w	-	-	35.12	w	-	-	11.59	4.57	-	-
Oklahoma	30.81	w	-	-	29.43	w	-	-	4.69	6.62	-	-
Texas	28.68	77.60	-	w	28.44	73.29	-	w	0.84	5.88	-	-15.25
Mountain	33.69	46.20	-	93.48	30.53	45.13	-	w	10.35	2.37	-	w
Arizona	38.33	54.78	-	-	34.67	54.91	-	-	10.56	s	-	-
Colorado	33.37	w	-	w	30.66	w	-	w	8.84	14.02	-	2.83
Idaho	-	50.76	-	w	-	46.93	-	w	-	8.16	-	17.00
Montana	22.37	w	-	w	18.60	w	-	w	20.27	5.69	-	-1.09
Nevada	53.91	w	-	-	51.75	w	-	-	4.17	-27.11	-	-
New Mexico	38.02	w	-	-	36.86	w	-	-	3.15	-0.79	-	-
Utah	39.04	58.03	-	-	37.22	49.50	-	-	4.89	17.23	-	-
Wyoming	25.64	35.17	-	w	22.28	32.86	-	w	15.08	7.03	-	12.29
Pacific	41.39	85.58	-	57.98	39.38	80.56	-	56.36	5.10	6.23	-	2.87
Alaska	27.10	-	-	57.98	22.25	-	-	56.36	21.80	-	-	2.87
California	74.28	84.36	-	-	72.54	79.69	-	-	2.40	5.86	-	-
Hawaii	68.93	w	-	-	58.34	w	-	-	18.15	-5.61	-	-
Oregon	30.00	w	-	-	28.08	w	-	-	6.84	7.88	-	-

Census Division and State	2011				2010				Annual Percent Change			
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional
Washington	36.91	w	-	-	37.38	w	-	-	-1.26	17.63	-	-
U.S. Total	46.29	70.66	184.44	91.94	44.27	64.38	153.59	88.42	4.56	9.75	20.09	3.98

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

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

- = No data are reported.

w = Data withheld to avoid disclosure.

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