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Quarterly Coal Report October – December 2016

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Contacts

This publication was prepared by the U.S. Energy Information Administration. General information about the data in this report can be obtained from InfoCoal@eia.gov.

Requests for additional information on other statistics available from the U.S. Energy Information Administration or questions concerning subscriptions and report distribution may be directed to the Office of Communications of the U.S. Energy Information Administration at infoctr@eia.gov.

Preface

Data presented in the *Quarterly Coal Report* (QCR) are collected and 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.

The *Quarterly Coal Report* (QCR) presents U.S. coal production, exports, imports, receipts, prices, consumption, quality, stocks, and refined coal data. In addition, the QCR offers U.S. coke production, consumption, stocks, imports, and exports data. The fourth quarter 2016 QCR includes detailed quarterly coal data for October – December 2016 and aggregated quarterly historical coal data for 2010 through fourth quarter 2016.

All data for 2015 and prior years are final. All data for 2016 are preliminary.

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Table ES-1. U.S. Coal Summary Statistics, 2010 - 2016

(thousand short tons)

Year and Quarter	Production ¹	Imports	Waste Coal Supplied	Producer and Distributor Stocks ²	Consumption	Exports	Consumer Stocks ²	Losses and Unaccounted For ³
2010								
January - March	265,702	4,803	3,288	50,936	264,939	17,807	183,970	-
April - June	264,982	5,058	3,428	51,497	247,344	21,965	188,244	-
July - September	277,505	4,680	3,636	49,913	286,361	21,074	170,674	-
October - December	276,180	4,811	3,300	49,820	249,870	20,870	181,920	-
Total	1,084,368	19,353	13,651		1,048,514	81,716		182
2011								
January - March	273,478	3,381	3,354	48,165	254,647	26,617	172,581	-
April - June	264,291	3,419	3,069	50,507	241,247	26,987	171,795	-
July - September	275,006	3,588	3,500	49,909	279,722	25,976	150,881	-
October - December	282,853	2,700	3,287	51,897	227,332	27,679	180,054	-
Total	1,095,628	13,088	13,209		1,002,948	107,259		11,506
2012								
January - March	266,865	2,022	2,893	51,141	207,833	28,642	202,166	-
April - June	241,047	2,329	2,500	50,374	201,555	37,534	205,023	-
July - September	258,956	2,415	2,982	46,231	253,984	31,563	189,530	-
October - December	249,591	2,394	2,821	46,157	225,813	28,006	192,696	-
Total	1,016,458	9,159	11,196		889,185	125,746		14,980
2013								
January - March	244,867	1,429	3,169	48,422	228,987	31,835	178,419	-
April - June	243,211	2,756	2,687	50,129	216,014	29,427	178,110	-
July - September	257,595	2,398	2,782	47,135	253,357	28,589	160,079	-
October - December	239,169	2,323	2,640	45,652	226,084	27,809	154,676	-
Total	984,842	8,906	11,279		924,442	117,659		1,451
2014								
January - March	245,271	2,450	3,277	44,728	248,329	27,584	123,990	-
April - June	245,844	3,574	2,896	42,682	211,881	24,674	139,471	-
July - September	255,377	3,151	3,256	38,828	247,453	22,723	131,386	-
October - December	253,557	2,174	2,662	38,894	210,068	22,276	158,833	-
Total	1,000,049	11,350	12,090		917,731	97,257		11,101
2015								
January - March	240,324	3,009	2,821	39,610	212,772	21,979	160,509	-
April - June	212,557	2,640	2,209	39,399	188,975	19,766	173,314	-
July - September	236,823	2,965	2,722	36,213	229,393	16,914	169,784	-
October - December	207,237	2,705	2,217	35,871	166,974	15,299	202,560	-
Total	896,941	11,318	9,969		798,115	73,958		5,452
2016								
January - March	173,028	2,698	2,478	37,304*	165,892	14,153	198,442	-
April - June	160,515	2,292	1,898	37,127*	159,897	14,223	189,206	-
July - September	195,140	2,733	2,397	33,574*	223,036	12,552	163,971	-
October - December	199,550	2,127	1,953	33,699*	180,632	19,343	169,614	-
Total	728,232	9,850	8,727		729,457	60,271		-7,801
2015 January - December	896,941	11,318	9,969		798,115	73,958		-
2014 January - December	1,000,049	11,350	12,090		917,731	97,257		-

1 Includes refuse recovery.

2 Reported as of the last day of the quarter.

3 'Losses and Unaccounted For' is calculated as production plus imports plus waste coal supplied minus the change in producer and distributor stocks minus consumption minus exports minus the change in consumer stocks.

* Estimated.

Note: Beginning with 1999, the first three quarters of Producer and Distributor Stocks data for each year are estimated. Total may not equal sum of components because of independent rounding.

Source: *Production: U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.' *Imports: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.' **Waste Coal Supplied: Form EIA-923, 'Power Plant Operations Report' and Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.' *Producer and Distributor Stocks: 'Short-Term Energy Outlook' estimates, Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and Form EIA-8A, 'Annual Survey of Coal Stocks and Coal Exports.' *Exports: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.' *Consumption: Form EIA-923, 'Power Plant Operations Report,' Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data,' and Form EIA-7A, 'Annual Survey of Coal Production and Preparation.' *Consumer Stocks: Form EIA-923, 'Power Plant Operations Report' and Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table ES-2. U.S. Coke Summary Statistics, 2010 - 2016

(thousand short tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks¹	Consumption²	Exports
2010					
January - March	3,433	365	702	3,588	285
April - June	3,810	448	629	4,029	300
July - September	3,971	330	721	3,920	290
October - December	3,808	71	702	3,310	587
Total	15,022	1,214		14,847	1,463
2011					
January - March	3,708	289	648	3,870	181
April - June	3,887	371	681	3,996	229
July - September	3,907	451	704	4,073	261
October - December	3,919	307	745	3,886	299
Total	15,420	1,418		15,825	970
2012					
January - March	3,857	365	636	4,160	172
April - June	3,863	462	594	4,165	203
July - September	3,726	145	532	3,722	210
October - December	3,726	162	606	3,425	389
Total	15,172	1,135		15,472	974
2013					
January - March	3,841	57	573	3,763	167
April - June	3,954	42	757	3,599	212
July - September	3,742	31	778	3,539	213
October - December	3,783	8	872	3,450	247
Total	15,320	138		14,351	840
2014					
January - March	3,483	2	718	3,515	124
April - June	3,718	38	751	3,531	192
July - September	4,036	12	786	3,697	316
October - December	3,917	25	797	3,616	315
Total	15,154	77		14,359	946
2015					
January - March	3,611	3	1,044	3,204	163
April - June	3,511	10	1,127	3,135	302
July - September	3,507	74	785	3,770	152
October - December	3,126	54	707	3,018	239
Total	13,755	140		13,128	857
2016					
January - March	2,950	4	831	2,757	72
April - June	2,927	95	765	2,919	169
July - September	2,987	73	656	2,877	291
October - December	2,992	57	579	2,659	467
Total	11,855	229		11,212	1,000
2015 January - December	13,755	140		13,128	857
2014 January - December	15,154	77		14,359	946

1 Reported as of the last day of the quarter.

2 Consumption is equal to production plus imports minus the change in producer and distributor stocks minus exports.

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

Source: *Production, Consumption, and Producer and Distributor Stocks: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.' *Imports: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.' *Exports: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table ES-3. Summary Statistics for Coal Refining Plants, 2012 - 2016

(thousand short tons)

Year and Quarter	Coal Receipts	Average Price of Coal Receipts (dollars per short ton)	Coal Used	Coal Stocks ¹
2012				
January - March	2,151	27.47	1,756	771
April - June	3,844	25.42	3,688	825
July - September	5,399	24.32	5,286	812
October - December	4,919	24.55	4,680	787
Total	16,313	25.06	15,410	
2013				
January - March	5,067	24.60	4,989	793
April - June	4,015	25.24	3,754	756
July - September	6,156	26.93	6,196	755
October - December	7,216	29.01	6,111	933
Total	22,454	26.77	21,051	
2014				
January - March	7,996	29.13	7,717	961
April - June	7,273	28.16	6,909	850
July - September	11,157	30.08	10,184	997
October - December	12,520	28.13	11,105	1,859
Total	38,946	28.90	35,915	
2015				
January - March	12,471	29.07	11,403	2,191
April - June	11,936	28.67	11,237	2,371
July - September	14,223	28.41	13,730	2,336
October - December	11,516	30.20	10,531	2,524
Total	50,147	29.05	46,902	
2016				
January - March	9,688	27.47	9,642	2,458
April - June	8,577	27.87	8,554	2,273
July - September	11,189	28.74	11,256	2,158
October - December	9,948	26.63	9,787	2,293
Total	39,402	27.71	39,239	

¹ Reported as of the last day of the quarter.

Note: Average price is based on the cost, insurance, and freight (c.i.f. value). Total may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'

Production

Table 1. U.S. Coal Production, 2010 - 2016

(thousand short tons)

Year	January - March	April - June	July - September	October - December	Total
2010	265,702	264,982	277,505	276,180	1,084,368
2011	273,478	264,291	275,006	282,853	1,095,628
2012	266,865	241,047	258,956	249,591	1,016,458
2013	244,867	243,211	257,595	239,169	984,842
2014	245,271	245,844	255,377	253,557	1,000,049
2015	240,324	212,557	236,823	207,237	896,941
2016	173,028	160,515	195,140	199,550	728,232

Note: Total 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 by State

(thousand short tons)

Coal-Producing Region and State	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Alabama	2,567	1,884	2,356	9,120	13,191	-30.9
Alaska	211	183	312	932	1,177	-20.8
Arizona	1,384	1,470	1,376	5,423	6,805	-20.3
Arkansas	1	3	18	31	91	-66.5
Colorado	4,012	3,054	3,258	12,630	18,879	-33.1
Illinois	10,971	10,102	11,894	43,509	56,101	-22.4
Indiana	7,296	7,284	7,264	28,767	34,295	-16.1
Kansas	-	-	55	27	199	-86.6
Kentucky Total	11,209	10,299	12,929	42,760	61,425	-30.4
Eastern (Kentucky)	4,487	3,839	5,758	16,882	28,101	-39.9
Western (Kentucky)	6,722	6,460	7,172	25,879	33,324	-22.3
Louisiana	805	641	766	2,798	3,439	-18.6
Maryland	491	431	428	1,575	1,922	-18.0
Mississippi	751	766	621	2,870	3,143	-8.7
Missouri	60	64	16	234	138	69.2
Montana	9,398	9,299	9,544	32,336	41,864	-22.8
New Mexico	3,691	2,895	4,914	13,341	19,679	-32.2
North Dakota	7,455	6,995	6,954	28,121	28,802	-2.4
Ohio	2,466	2,967	3,698	12,580	17,041	-26.2
Oklahoma	160	140	181	632	780	-18.9
Pennsylvania Total	12,869	11,425	10,776	45,851	50,031	-8.4
Anthracite (Pennsylvania)	421	360	477	1,610	1,953	-17.6
Bituminous (Pennsylvania)	12,447	11,065	10,299	44,241	48,077	-8.0
Tennessee	133	156	214	667	897	-25.7
Texas	10,284	10,194	9,441	39,213	35,918	9.2
Utah	3,673	3,225	3,424	13,747	14,419	-4.7
Virginia	3,328	3,213	3,229	12,786	13,914	-8.1
West Virginia Total	21,166	20,757	21,455	80,004	95,633	-16.3
Northern (West Virginia)	11,503	11,755	11,988	43,503	47,785	-9.0
Southern (West Virginia)	9,663	9,002	9,468	36,501	47,848	-23.7
Wyoming	84,943	87,480	91,697	297,493	375,773	-20.8
Appalachia Total	47,506	44,671	47,912	179,465	220,722	-18.7
Appalachia Central	17,611	16,209	18,667	66,836	90,752	-26.4
Appalachia Northern	27,329	26,578	26,889	103,509	116,779	-11.4
Appalachia Southern	2,567	1,884	2,356	9,120	13,191	-30.9
Interior Region Total	37,049	35,654	37,428	143,959	167,430	-14.0
Illinois Basin	24,988	23,846	26,330	98,155	123,720	-20.7
Interior	12,061	11,809	11,097	45,804	43,709	4.8
Western Region Total	114,768	114,601	121,478	404,023	507,397	-20.4
Powder River Basin	90,512	91,708	96,441	313,652	398,577	-21.3
Uinta Region	7,287	5,812	6,452	24,825	31,919	-22.2
Western	16,969	17,081	18,585	65,546	76,901	-14.8
East of Mississippi River	73,245	69,284	74,864	280,489	347,594	-19.3
West of Mississippi River	126,077	125,644	131,954	446,958	547,963	-18.4
U.S. Subtotal	199,322	194,927	206,819	727,447	895,557	-18.8
Refuse Recovery	227	212	418	785	1,384	-43.3
U.S. Total	199,550	195,140	207,237	728,232	896,941	-18.8

Note: Total 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. Coke and Breeze Production at Coke Plants

(thousand short tons)

Census Division	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Middle Atlantic	874	893	994	3,560	4,722	-24.6
East North Central	1,682	1,669	1,824	6,645	7,562	-12.1
South Atlantic	318	309	309	1,231	1,270	-3.1
East South Central	268	246	152	980	916	7.0
U.S. Total	3,142	3,117	3,279	12,416	14,470	-14.2
Coke Total	2,992	2,987	3,126	11,855	13,755	-13.8
Breeze Total	150	130	153	561	715	-21.6

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

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

Exports and Imports

Table 4. U.S. Coal Exports and Imports, 2010 - 2016

(thousand short tons)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
2010	17,807	4,803	21,965	5,058	21,074	4,680	20,870	4,811	81,716	19,353
2011	26,617	3,381	26,987	3,419	25,976	3,588	27,679	2,700	107,259	13,088
2012	28,642	2,022	37,534	2,329	31,563	2,415	28,006	2,394	125,746	9,159
2013	31,835	1,429	29,427	2,756	28,589	2,398	27,809	2,323	117,659	8,906
2014	27,584	2,450	24,674	3,574	22,723	3,151	22,276	2,174	97,257	11,350
2015	21,979	3,009	19,766	2,640	16,914	2,965	15,299	2,705	73,958	11,318
2016	14,153	2,698	14,223	2,292	12,552	2,733	19,343	2,127	60,271	9,850

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

Source: Exports: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545;' and Imports: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.'

Table 5. Average Price of U.S. Coal Exports and Imports, 2010 - 2016

(dollars per short ton)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
2010	106.52	62.02	121.36	71.91	125.45	77.12	126.16	76.18	120.41	71.77
2011	139.34	86.00	153.00	105.86	155.88	112.06	147.38	110.19	148.86	103.32
2012	134.88	103.82	118.95	100.89	115.12	93.25	104.64	90.39	118.43	96.78
2013	99.68	86.87	96.77	83.18	91.64	81.66	91.46	83.12	95.06	83.35
2014	90.72	78.15	86.24	80.46	85.69	80.60	84.94	85.48	87.08	80.96
2015	82.31	69.95	80.14	74.40	73.52	71.85	68.61	70.48	76.89	71.61
2016	61.41	63.97	65.79	66.30	67.24	62.70	92.57	71.21	73.66	65.72

Note: Exports: Average price is based on the free alongside ship (f.a.s.) value. Imports: Average price is based on the customs import value. Customs import value is the price paid for merchandise when sold for exportation to the United States, excluding U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States. Total may not equal sum of components because of independent rounding.

Source: Exports: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545;' and Imports: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.'

Table 6. Quantity and Average Price of U.S. Coal Imports by Origin, 2010 - 2016

(short tons and dollars per short ton)

Year and Quarter	Australia	Canada	Colombia	Indonesia	China	Venezuela	Other Countries	Total
2010	380,404	1,766,896	14,583,950	1,904,040	52,869	581,700	82,828	19,352,687
2011	61,745	1,680,490	9,500,387	856,038	22,128	778,887	187,931	13,087,606
2012	-	1,107,727	6,951,515	517,532	77,738	287,147	217,598	9,159,257
2013	22	1,116,076	6,575,927	886,920	51,944	42,428	233,108	8,906,425
2014	532	1,026,523	8,295,286	1,526,611	39,776	288,738	172,460	11,349,926
2015								
January - March	18	171,631	2,299,716	488,859	840	35,697	12,045	3,008,806
April - June	319	325,205	2,111,040	163,913	8,835	-	30,657	2,639,969
July - September	60,657	349,630	2,392,245	119,658	3,846	38,478	-	2,964,514
October - December	-	341,189	2,133,033	117,694	2,578	-	110,228	2,704,722
U.S. Total	60,994	1,187,655	8,936,034	890,124	16,099	74,175	152,930	11,318,011
2016								
January - March	59,398	239,440	2,190,869	200,846	837	-	6,154	2,697,544
April - June	62,569	240,878	1,987,017	-	469	-	875	2,291,808
July - September	-	323,436	2,176,901	168,154	5,070	-	59,515	2,733,076
October - December	-	274,726	1,536,013	244,944	579	-	71,045	2,127,307
U.S. Total	121,967	1,078,480	7,890,800	613,944	6,955	-	137,589	9,849,735
Average Price (dollars per short ton)								
2010	56.75	167.33	63.31	44.58	223.42	72.75	114.06	71.77
2011	52.72	253.79	82.89	47.13	267.33	83.22	127.37	103.32
2012	-	184.89	83.94	53.54	133.39	109.51	131.25	96.78
2013	182.64	145.52	75.11	59.45	107.55	91.81	101.89	83.35
2014	117.40	131.45	78.63	56.36	155.20	83.80	88.53	80.96
2015								
January - March	423.06	107.01	70.58	52.33	174.44	81.04	96.27	69.95
April - June	74.83	122.71	66.89	62.63	114.81	-	129.91	74.40
July - September	60.06	121.76	65.34	60.27	273.60	57.60	-	71.85
October - December	-	104.32	63.86	62.57	295.39	-	97.10	70.48
U.S. Total	60.25	114.88	66.70	56.65	184.78	68.88	103.61	71.61
2016								
January - March	49.49	71.93	64.73	50.45	70.24	-	63.72	63.97
April - June	45.92	73.61	66.00	-	285.66	-	76.90	66.30
July - September	-	80.09	61.74	42.64	117.58	-	55.30	62.70
October - December	-	82.33	69.20	60.12	162.95	-	109.01	71.21
U.S. Total	47.66	77.40	65.10	52.17	126.99	-	83.55	65.72

- = No data reported.

Note: Average price is based on the customs import value, including value for shipments of specialty coal not used as a fuel source (about 0.05 percent of all shipments). Customs import value is the price paid for merchandise when sold for exportation to the United States, excluding U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States. Coal imports include coal to Puerto Rico and the Virgin Islands. Total may not equal sum of components because of independent rounding.

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.'

Table 7. U.S. Coal Exports

(short tons)

Continent and Country of Destination	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	2,806,165	2,399,374	2,359,203	8,569,705	10,312,347	-16.9
Canada*	1,652,537	1,536,859	1,671,121	5,011,391	5,957,584	-15.9
Dominican Republic	2	44,103	-	44,138	107,531	-59.0
Guatemala	85,616	54,322	39,683	140,208	82,458	70.0
Honduras	70,535	35,827	34,337	178,076	178,182	-0.1
Jamaica	36,434	82	36,410	72,958	155,396	-53.1
Mexico	936,386	727,916	576,651	3,097,620	3,764,873	-17.7
Trinidad and Tobago	42	22	424	195	65,138	-99.7
Other**	24,613	243	577	25,119	1,185	NM
South America Total	2,090,501	1,626,526	1,760,556	7,413,062	7,451,330	-0.5
Argentina	-	46,043	-	104,650	248,079	-57.8
Brazil	1,968,055	1,449,373	1,530,256	6,938,957	6,339,173	9.5
Chile	66,528	129,964	229,838	197,254	860,304	-77.1
Other**	55,918	1,146	462	172,201	3,774	NM
Europe Total	8,074,005	6,145,099	8,184,871	27,381,425	37,893,521	-27.7
Austria	109,129	104,993	277	421,480	417,800	0.9
Belgium	295,620	432,496	187,352	1,253,639	1,196,003	4.8
Bosnia and Herzegovina	-	82,060	-	82,060	77,639	5.7
Croatia	302,348	310,462	246,117	1,292,785	1,554,843	-16.9
Finland	121,053	179,460	60,539	435,390	388,423	12.1
France	467,054	414,789	171,118	1,339,610	1,331,643	0.6
Germany, Federal Republic of	1,015,920	884,233	956,538	3,503,432	4,018,214	-12.8
Italy	577,058	368,652	857,415	1,910,323	3,430,999	-44.3
Netherlands	3,213,076	1,997,586	3,826,382	10,159,378	12,907,947	-21.3
Norway	16,097	15,448	18,947	72,835	71,206	2.3
Poland	60,465	93,077	116,569	241,762	565,403	-57.2
Portugal	93,720	-	-	93,720	138,480	-32.3
Romania	58,829	24,383	22,912	197,055	271,730	-27.5
Slovakia	-	-	73,304	23	231,503	-100.0
Slovenia	-	-	88,446	-	218,259	-
Spain	469,960	174,122	320,780	1,396,128	1,272,141	9.7
Sweden	105,470	114,237	146,984	289,311	644,561	-55.1
Turkey	349,042	154,930	267	1,487,163	2,054,513	-27.6
Ukraine	498,974	543,343	664,361	2,059,243	2,810,178	-26.7
United Kingdom	319,736	247,482	415,741	1,064,404	4,201,497	-74.7
Other**	454	3,346	10,822	81,684	90,539	-9.8
Asia Total	6,011,168	2,253,605	2,767,412	15,714,281	17,544,313	-10.4
China	790,945	80,004	291	995,901	229,891	333.2
India	1,405,564	481,589	945,602	5,528,222	6,388,014	-13.5
Japan	1,789,885	927,081	1,148,777	4,555,484	4,656,683	-2.2
Singapore	57,428	-	-	57,440	127,400	-54.9
South Korea (Republic of Korea)	1,867,917	762,028	669,512	4,471,084	6,132,522	-27.1
Other**	99,429	2,903	3,230	106,150	9,803	NM
Australia and Oceania Total	62	249	163	441	645	-31.6
Other**	62	249	163	441	645	-31.6
Africa Total	360,780	127,057	226,529	1,192,103	755,732	57.7
Egypt	22	397	76	768	163,544	-99.5
Morocco	360,514	126,608	142,658	1,037,661	212,611	388.1
South Africa	156	42	83,650	153,548	327,016	-53.0
Togo	-	-	-	-	52,085	-
Other**	88	10	145	126	476	-73.5
Total	19,342,681	12,551,910	15,298,734	60,271,017	73,957,888	-18.5

* Based on the U.S. - Canada Free Trade Agreement; as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

** Includes countries with coal exports less than or equal to 50,000 short tons in 2015.

-- No data reported.

NM = Not meaningful due to changes of 500 percent or more.

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

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'

Table 8. Average Price of U.S. Coal Exports

(dollars per short ton)

Continent and Country of Destination	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	67.55	65.24	81.09	64.53	81.44	-20.8
Canada*	80.81	72.22	97.37	76.00	90.80	-16.3
Dominican Republic	4,971.50	30.97	-	31.36	84.15	-62.7
Guatemala	60.21	54.59	66.22	58.64	55.34	6.0
Honduras	60.33	41.73	78.02	57.18	53.42	7.0
Jamaica	39.01	204.87	39.48	38.84	65.30	-40.5
Mexico	46.22	54.41	37.52	47.56	68.90	-31.0
Trinidad and Tobago	225.38	307.82	340.49	421.89	92.79	354.7
Other**	76.67	373.30	94.77	82.73	148.21	-44.2
South America Total	119.12	69.10	74.23	81.66	84.24	-3.1
Argentina	-	79.98	-	77.14	100.26	-23.1
Brazil	122.75	71.22	75.55	83.31	87.09	-4.3
Chile	40.38	36.69	64.95	39.46	57.18	-31.0
Other**	84.76	625.12	298.69	66.64	412.46	-83.8
Europe Total	91.78	65.93	65.67	74.32	78.02	-4.7
Austria	181.36	82.77	37.44	105.03	93.40	12.5
Belgium	139.82	62.49	88.57	85.76	94.95	-9.7
Bosnia and Herzegovina	-	73.03	-	73.03	91.51	-20.2
Croatia	115.39	88.39	74.04	87.26	95.51	-8.6
Finland	132.19	81.09	78.51	94.42	98.13	-3.8
France	114.32	69.44	78.48	85.54	86.72	-1.4
Germany, Federal Republic of	83.41	49.62	61.78	71.40	68.72	3.9
Italy	146.58	84.76	66.63	101.82	80.17	27.0
Netherlands	59.93	53.20	54.57	55.98	65.08	-14.0
Norway	140.97	132.53	124.47	137.37	149.76	-8.3
Poland	133.80	94.21	78.40	96.24	95.89	0.4
Portugal	32.84	-	-	32.84	46.70	-29.7
Romania	152.75	81.88	71.59	99.81	97.56	2.3
Slovakia	-	-	106.14	1,788.70	106.22	NM
Slovenia	-	-	83.91	-	92.16	-
Spain	63.68	61.77	86.72	69.61	94.60	-26.4
Sweden	77.42	82.47	94.69	77.06	97.04	-20.6
Turkey	112.34	87.65	618.24	80.71	86.45	-6.6
Ukraine	180.73	82.74	93.85	101.99	100.46	1.5
United Kingdom	74.43	78.23	60.90	79.84	73.51	8.6
Other**	87.28	116.89	141.92	59.21	100.92	-41.3
Asia Total	97.31	73.11	63.78	75.16	68.52	9.7
China	133.28	88.84	593.52	126.35	99.23	27.3
India	88.56	68.01	57.53	59.66	71.71	-16.8
Japan	105.66	80.37	68.17	86.69	78.26	10.8
Singapore	175.16	-	-	175.29	61.71	184.1
South Korea (Republic of Korea)	81.51	64.31	61.53	70.11	55.82	25.6
Other**	36.30	475.86	751.47	66.17	669.90	-90.1
Australia and Oceania Total	368.73	364.04	374.00	370.13	360.34	2.7
Other**	368.73	364.04	374.00	370.13	360.34	2.7
Africa Total	72.22	39.52	60.12	54.35	79.61	-31.7
Egypt	191.82	128.46	464.80	171.51	93.25	83.9
Morocco	71.96	39.03	49.60	50.89	59.89	-15.0
South Africa	546.45	582.86	77.38	76.96	91.20	-15.6
Togo	-	-	-	-	39.01	-
Other**	283.41	530.50	247.57	288.45	680.01	-57.6
Total	92.57	67.24	68.61	73.66	76.89	-4.2

* Based on the U.S. - Canada Free Trade Agreement; as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

** Includes countries with coal exports less than or equal to 50,000 short tons in 2015.

- = No data reported.

NM = Not meaningful due to changes of 500 percent or more.

Note: Average price is based on the free alongside ship (f.a.s.) value, including value for shipments of specialty coal not used as a fuel source (about 0.05 percent of all shipments). Total may not equal sum of components because of independent rounding.

Table 9. U.S. Steam Coal Exports

(short tons)

Continent and Country of Destination	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	1,287,816	1,090,507	881,183	4,256,556	5,334,406	-20.2
Canada*	243,660	401,945	330,053	1,236,481	1,673,904	-26.1
Dominican Republic	2	44,103	-	44,138	107,531	-59.0
Guatemala	85,616	54,322	-	140,208	42,775	227.8
Honduras	70,535	35,827	-	142,251	34,651	310.5
Jamaica	36,434	82	36,410	72,958	155,396	-53.1
Mexico	826,914	553,963	513,719	2,595,206	3,316,987	-21.8
Trinidad and Tobago	42	22	424	195	2,053	-90.5
Other**	24,613	243	577	25,119	1,109	NM
South America Total	222,247	142,010	230,734	489,727	990,256	-50.5
Argentina	-	864	-	888	408	117.6
Brazil	99,801	10,036	434	119,384	191,909	-37.8
Chile	66,528	129,964	229,838	197,254	794,165	-75.2
Other**	55,918	1,146	462	172,201	3,774	NM
Europe Total	3,433,064	1,860,590	3,749,146	9,262,847	14,589,679	-36.5
Austria	-	423	277	1,824	863	111.4
Belgium	59	117,406	34	117,465	20,593	470.4
Finland	-	94	-	59,619	111	NM
France	194,448	-	-	194,448	90,924	113.9
Germany, Federal Republic of	491,098	680,075	588,744	1,845,489	2,254,616	-18.1
Italy	71,714	23,901	389,535	347,069	1,402,402	-75.3
Netherlands	2,192,554	1,037,092	2,582,501	6,033,143	8,440,679	-28.5
Norway	-	108	8,839	8,417	17,379	-51.6
Portugal	-	-	-	-	138,480	-
Romania	-	-	-	-	19,073	-
Slovakia	-	-	-	23	-	-
Spain	204,906	964	926	249,778	21,003	NM
Turkey	137,085	65	267	189,853	92,341	105.6
Ukraine	19,990	-	-	32,211	-	-
United Kingdom	120,756	221	177,766	121,373	2,045,501	-94.1
Other**	454	241	257	62,135	45,714	35.9
Asia Total	2,622,577	340,450	989,964	5,005,633	6,911,060	-27.6
China	274,338	474	291	276,593	1,754	NM
India	978,861	140,552	458,943	2,680,845	2,434,565	10.1
Japan	290,520	142,318	362,845	622,560	1,128,085	-44.8
Singapore	23	-	-	35	127,400	-100.0
South Korea (Republic of Korea)	979,406	54,683	164,677	1,320,224	3,209,787	-58.9
Other**	99,429	2,423	3,208	105,376	9,469	NM
Australia and Oceania Total	62	249	163	420	645	-34.9
Other**	62	249	163	420	645	-34.9
Africa Total	137,233	42,187	229	325,599	124,983	160.5
Egypt	22	397	76	768	298	157.7
Morocco	136,967	41,738	-	324,034	69,953	363.2
South Africa	156	42	8	671	2,171	-69.1
Togo	-	-	-	-	52,085	-
Other**	88	10	145	126	476	-73.5
Total	7,702,999	3,475,993	5,851,419	19,340,782	27,951,029	-30.8

* Based on the U.S. - Canada Free Trade Agreement; as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

** Includes countries with coal exports less than or equal to 50,000 short tons in 2015.

- = No data reported.

NM = Not meaningful due to changes of 500 percent or more.

Note: Steam coal includes bituminous, sub-bituminous, lignite, and anthracite. Total may not equal sum of components because of independent rounding.

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'

Table 10. Average Price of U.S. Steam Coal Exports

(dollars per short ton)

Continent and Country of Destination	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	49.11	47.83	44.62	46.57	65.59	-29.0
Canada*	74.77	58.01	69.79	65.51	67.88	-3.5
Dominican Republic	4,971.50	30.97	-	31.36	84.15	-62.7
Guatemala	60.21	54.59	-	58.64	45.24	29.6
Honduras	60.33	41.73	-	51.93	54.43	-4.6
Jamaica	39.01	204.87	39.48	38.84	65.30	-40.5
Mexico	39.05	41.34	28.52	36.70	64.13	-42.8
Trinidad and Tobago	225.38	307.82	340.49	421.89	184.24	129.0
Other**	76.67	373.30	94.77	82.73	150.63	-45.1
South America Total	69.53	48.48	66.22	61.30	66.02	-7.1
Argentina	-	40.30	-	45.17	288.36	-84.3
Brazil	80.43	135.98	488.95	89.80	98.09	-8.5
Chile	40.38	36.69	64.95	39.46	56.51	-30.2
Other**	84.76	625.12	298.69	66.64	412.46	-83.8
Europe Total	55.03	39.51	50.74	51.78	57.08	-9.3
Austria	-	24.52	37.44	28.43	53.67	-47.0
Belgium	349.80	30.84	244.35	31.00	169.34	-81.7
Finland	-	399.44	-	76.03	277.23	-72.6
France	77.03	-	-	77.03	63.06	22.2
Germany, Federal Republic of	49.11	40.03	55.95	57.68	52.60	9.7
Italy	89.19	82.68	42.69	76.30	60.72	25.7
Netherlands	50.63	38.42	49.77	46.74	57.14	-18.2
Norway	-	2,463.53	160.89	157.18	186.95	-15.9
Portugal	-	-	-	-	46.70	-
Romania	-	-	-	-	57.08	-
Slovakia	-	-	-	1,788.70	-	-
Spain	51.25	338.37	310.37	51.64	115.41	-55.3
Turkey	108.71	399.09	618.24	89.48	63.60	40.7
Ukraine	158.50	-	-	122.46	-	-
United Kingdom	31.24	670.82	56.81	35.34	56.71	-37.7
Other**	87.28	126.53	605.63	32.76	51.31	-36.2
Asia Total	53.24	51.61	44.50	51.31	46.34	10.7
China	87.56	535.36	593.52	91.09	495.91	-81.6
India	54.27	50.68	51.93	48.99	63.55	-22.9
Japan	83.36	41.94	34.15	62.35	40.47	54.1
Singapore	361.74	-	-	508.57	61.71	NM
South Korea (Republic of Korea)	35.38	52.61	31.80	41.27	32.59	26.6
Other**	36.30	556.19	755.83	66.05	689.11	-90.4
Australia and Oceania Total	368.73	364.04	374.00	366.28	360.34	1.6
Other**	368.73	364.04	374.00	366.28	360.34	1.6
Africa Total	66.11	41.41	327.97	51.86	71.74	-27.7
Egypt	191.82	128.46	464.80	171.51	734.35	-76.6
Morocco	65.40	39.92	-	50.58	80.90	-37.5
South Africa	546.45	582.86	485.25	489.35	337.70	44.9
Togo	-	-	-	-	39.01	-
Other**	283.41	530.50	247.57	288.45	680.01	-57.6
Total	54.05	43.72	49.40	50.76	56.44	-10.1

* Based on the U.S. - Canada Free Trade Agreement; as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

** Includes countries with coal exports less than or equal to 50,000 short tons in 2015.

- = No data reported.

NM = Not meaningful due to changes of 500 percent or more.

Note: Average price is based on the free alongside ship (f.a.s) value, including value for shipments of specialty coal not used as a fuel source (about 0.05 percent of all shipments). Steam coal includes bituminous, sub-bituminous, lignite, and anthracite. Total may not equal sum of components because of independent rounding.

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'

Table 11. U.S. Metallurgical Coal Exports

(short tons)

Continent and Country of Destination	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	1,518,349	1,308,867	1,478,020	4,313,149	4,977,941	-13.4
Canada*	1,408,877	1,134,914	1,341,068	3,774,910	4,283,680	-11.9
Guatemala	-	-	39,683	-	39,683	-
Honduras	-	-	34,337	35,825	143,531	-75.0
Mexico	109,472	173,953	62,932	502,414	447,886	12.2
Trinidad and Tobago	-	-	-	-	63,085	-
Other**	-	-	-	-	76	-
South America Total	1,868,254	1,484,516	1,529,822	6,923,335	6,461,074	7.2
Argentina	-	45,179	-	103,762	247,671	-58.1
Brazil	1,868,254	1,439,337	1,529,822	6,819,573	6,147,264	10.9
Chile	-	-	-	-	66,139	-
Europe Total	4,640,941	4,284,509	4,435,725	18,118,578	23,303,842	-22.3
Austria	109,129	104,570	-	419,656	416,937	0.7
Belgium	295,561	315,090	187,318	1,136,174	1,175,410	-3.3
Bosnia and Herzegovina	-	82,060	-	82,060	77,639	5.7
Croatia	302,348	310,462	246,117	1,292,785	1,554,843	-16.9
Finland	121,053	179,366	60,539	375,771	388,312	-3.2
France	272,606	414,789	171,118	1,145,162	1,240,719	-7.7
Germany, Federal Republic of	524,822	204,158	367,794	1,657,943	1,763,598	-6.0
Italy	505,344	344,751	467,880	1,563,254	2,028,597	-22.9
Netherlands	1,020,522	960,494	1,243,881	4,126,235	4,467,268	-7.6
Norway	16,097	15,340	10,108	64,418	53,827	19.7
Poland	60,465	93,077	116,569	241,762	565,403	-57.2
Portugal	93,720	-	-	93,720	-	-
Romania	58,829	24,383	22,912	197,055	252,657	-22.0
Slovakia	-	-	73,304	-	231,503	-
Slovenia	-	-	88,446	-	218,259	-
Spain	265,054	173,158	319,854	1,146,350	1,251,138	-8.4
Sweden	105,470	114,237	146,984	289,311	644,561	-55.1
Turkey	211,957	154,865	-	1,297,310	1,962,172	-33.9
Ukraine	478,984	543,343	664,361	2,027,032	2,810,178	-27.9
United Kingdom	198,980	247,261	237,975	943,031	2,155,996	-56.3
Other**	-	3,105	10,565	19,549	44,825	-56.4
Asia Total	3,388,591	1,913,155	1,777,448	10,708,648	10,633,253	0.7
China	516,607	79,530	-	719,308	228,137	215.3
India	426,703	341,037	486,659	2,847,377	3,953,449	-28.0
Japan	1,499,365	784,763	785,932	3,932,924	3,528,598	11.5
Singapore	57,405	-	-	57,405	-	-
South Korea (Republic of Korea)	888,511	707,345	504,835	3,150,860	2,922,735	7.8
Other**	-	480	22	774	334	131.7
Australia and Oceania Total	-	-	-	21	-	-
Other**	-	-	-	21	-	-
Africa Total	223,547	84,870	226,300	866,504	630,749	37.4
Egypt	-	-	-	-	163,246	-
Morocco	223,547	84,870	142,658	713,627	142,658	400.2
South Africa	-	-	83,642	152,877	324,845	-52.9
Total	11,639,682	9,075,917	9,447,315	40,930,235	46,006,859	-11.0

* Based on the U.S. - Canada Free Trade Agreement; as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

** Includes countries with coal exports less than or equal to 50,000 short tons in 2015.

-- No data reported.

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

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'

Table 12. Average Price of U.S. Metallurgical Coal Exports

(dollars per short ton)

Continent and Country of Destination	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	83.19	79.75	102.82	82.25	98.43	-16.4
Canada*	81.86	77.25	104.16	79.44	99.76	-20.4
Guatemala	-	-	66.22	-	66.22	-
Honduras	-	-	78.02	78.02	53.17	46.7
Mexico	100.33	96.03	110.99	103.67	104.26	-0.6
Trinidad and Tobago	-	-	-	-	89.81	-
Other**	-	-	-	-	112.84	-
South America Total	125.02	71.08	75.44	83.10	87.03	-4.5
Argentina	-	80.74	-	77.41	99.95	-22.6
Brazil	125.02	70.77	75.44	83.19	86.74	-4.1
Chile	-	-	-	-	65.32	-
Europe Total	118.97	77.41	78.28	85.85	91.13	-5.8
Austria	181.36	83.01	-	105.36	93.48	12.7
Belgium	139.78	74.28	88.54	91.42	93.65	-2.4
Bosnia and Herzegovina	-	73.03	-	73.03	91.51	-20.2
Croatia	115.39	88.39	74.04	87.26	95.51	-8.6
Finland	132.19	80.93	78.51	97.34	98.08	-0.8
France	140.91	69.44	78.48	86.98	88.45	-1.7
Germany, Federal Republic of	115.50	81.56	71.12	86.67	89.32	-3.0
Italy	154.72	84.91	86.56	107.48	93.62	14.8
Netherlands	79.91	69.15	64.54	69.49	80.09	-13.2
Norway	140.97	116.12	92.63	134.78	137.75	-2.2
Poland	133.80	94.21	78.40	96.24	95.89	0.4
Portugal	32.84	-	-	32.84	-	-
Romania	152.75	81.88	71.59	99.81	100.62	-0.8
Slovakia	-	-	106.14	-	106.22	-
Slovenia	-	-	83.91	-	92.16	-
Spain	73.29	60.23	86.07	73.53	94.25	-22.0
Sweden	77.42	82.47	94.69	77.06	97.04	-20.6
Turkey	114.69	87.52	-	79.43	87.53	-9.3
Ukraine	181.66	82.74	93.85	101.67	100.46	1.2
United Kingdom	100.64	77.70	63.96	85.57	89.45	-4.3
Other**	-	116.14	130.64	143.30	151.51	-5.4
Asia Total	131.41	76.93	74.52	86.31	82.93	4.1
China	157.56	86.18	-	139.91	96.18	45.5
India	167.20	75.16	62.80	69.69	76.74	-9.2
Japan	109.99	87.34	83.88	90.54	90.34	0.2
Singapore	175.09	-	-	175.09	-	-
South Korea (Republic of Korea)	132.35	65.21	71.23	82.19	81.33	1.1
Other**	-	70.38	115.77	82.99	125.16	-33.7
Australia and Oceania Total	-	-	-	447.00	-	-
Other**	-	-	-	447.00	-	-
Africa Total	75.98	38.59	59.85	55.29	81.17	-31.9
Egypt	-	-	-	-	92.08	-
Morocco	75.98	38.59	49.60	51.03	49.60	2.9
South Africa	-	-	77.34	75.15	89.56	-16.1
Total	118.07	76.25	80.51	84.48	89.31	-5.4

* Based on the U.S. - Canada Free Trade Agreement; as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

** Includes countries with coal exports less than or equal to 50,000 short tons in 2015.

- = No data reported.

Note: Average price is based on the free alongside ship (f.a.s) value, including value for shipments of specialty coal not used as a fuel source (about 0.05 percent of all shipments). Total may not equal sum of components because of independent rounding.

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'

Table 13. U.S. Coal Exports by Customs District

(short tons)

Customs District	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Eastern Total	11,920,824	8,009,216	9,165,858	39,058,647	42,278,022	-7.6
Baltimore, MD	4,463,195	2,365,582	2,991,709	14,381,776	14,292,840	0.6
Boston, MA	-	-	-	-	28	-
Buffalo, NY	516,940	424,795	570,146	1,245,795	1,557,802	-20.0
New York City, NY	4,168	2,613	1,836	10,395	10,143	2.5
Norfolk, VA	6,784,774	5,091,201	5,520,913	23,066,906	26,187,296	-11.9
Ogdensburg, NY	64,712	19,786	72,067	143,726	176,897	-18.8
Philadelphia, PA	86,950	40,460	9,035	144,921	52,260	177.3
Portland, ME	-	64,696	37	64,696	118	NM
St. Albans, VT	85	83	115	363	638	-43.1
Washington, DC	-	-	-	69	-	-
Southern Total	4,703,640	3,180,668	4,588,391	15,099,315	20,730,482	-27.2
Charleston, SC	97	518	124	942	563	67.3
El Paso, TX	24,010	38,704	25,988	102,309	122,874	-16.7
Houston-Galveston, TX	52,314	1,680	113,426	56,878	535,260	-89.4
Laredo, TX	529,461	469,267	487,787	1,917,492	492,996	288.9
Miami, FL	46	1,182	51	1,753	44,461	-96.1
Mobile, AL	1,550,483	1,508,173	1,597,165	6,987,337	10,647,837	-34.4
New Orleans, LA	2,481,954	1,160,933	2,363,765	5,966,782	8,886,202	-32.9
Port Arthur, TX	63,934	-	-	63,934	-	-
Savannah, GA	223	-	10	499	81	NM
Tampa, FL	1,118	211	75	1,389	208	NM
Western Total	1,781,157	427,868	619,093	2,842,444	7,151,918	-60.3
Anchorage, AK	110	71,697	-	71,807	148,994	-51.8
Great Falls, MT	279	204	133	889	585	52.0
Los Angeles, CA	231,144	1,559	539	306,243	700,364	-56.3
Nogales, AZ	128	24	-	246	117	110.3
Portland, OR	-	-	-	-	126	-
San Diego, CA	14	11	45	84	184	-54.3
San Francisco, CA	518,453	353,983	39,683	1,353,624	2,264,824	-40.2
Seattle, WA	1,031,029	390	578,693	1,109,551	4,036,724	-72.5
Northern Total	927,953	930,401	914,960	3,249,686	3,675,643	-11.6
Chicago, IL	-	-	-	-	30,536	-
Cleveland, OH	835,934	688,235	791,151	2,425,169	2,646,216	-8.4
Detroit, MI	88,152	239,876	100,387	765,873	968,490	-20.9
Duluth, MN	2,910	1,674	1,750	5,188	7,228	-28.2
Minneapolis, MN	-	-	15,623	51,216	15,623	227.8
Pembina, ND	957	616	6,049	2,240	7,550	-70.3
Other Ports	9,107	3,757	10,432	20,925	121,823	-82.8
Total	19,342,681	12,551,910	15,298,734	60,271,017	73,957,888	-18.5

- = No data reported.

NM = Not meaningful due to changes of 500 percent or more.

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

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'

Table 14. Steam Coal Exports by Customs District

(short tons)

Customs District	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Eastern Total	3,238,929	1,177,859	2,121,801	7,813,233	8,960,203	-12.8
Baltimore, MD	2,220,349	879,106	1,179,772	5,224,123	4,403,245	18.6
Boston, MA	-	-	-	-	28	-
Buffalo, NY	3,108	2,523	3,147	12,124	9,436	28.5
New York City, NY	4,168	2,613	1,814	10,395	10,121	2.7
Norfolk, VA	892,246	169,110	856,438	2,247,194	4,314,710	-47.9
Ogdensburg, NY	32,023	19,268	71,443	109,348	169,647	-35.5
Philadelphia, PA	86,950	40,460	9,035	144,921	52,260	177.3
Portland, ME	-	64,696	37	64,696	118	NM
St. Albans, VT	85	83	115	363	638	-43.1
Washington, DC	-	-	-	69	-	-
Southern Total	2,608,209	1,691,915	2,998,261	8,037,680	10,875,372	-26.1
Charleston, SC	97	302	124	579	563	2.8
El Paso, TX	24,010	38,704	25,988	102,309	122,862	-16.7
Houston-Galveston, TX	52,314	1,680	113,426	56,878	535,251	-89.4
Laredo, TX	529,116	403,946	487,686	1,851,080	492,705	275.7
Miami, FL	46	1,182	51	1,753	44,385	-96.1
Mobile, AL	-	167,431	306,461	709,460	1,793,679	-60.4
New Orleans, LA	1,937,563	1,078,459	2,064,440	5,250,141	7,885,638	-33.4
Port Arthur, TX	63,934	-	-	63,934	-	-
Savannah, GA	11	-	10	157	81	93.8
Tampa, FL	1,118	211	75	1,389	208	NM
Western Total	1,781,157	384,185	579,410	2,726,119	7,046,052	-61.3
Anchorage, AK	110	71,650	-	71,760	148,950	-51.8
Great Falls, MT	279	204	133	889	585	52.0
Los Angeles, CA	231,144	1,288	539	233,330	700,364	-66.7
Nogales, AZ	128	24	-	246	117	110.3
Portland, OR	-	-	-	-	126	-
San Diego, CA	14	11	45	84	184	-54.3
San Francisco, CA	518,453	310,618	-	1,310,259	2,159,002	-39.3
Seattle, WA	1,031,029	390	578,693	1,109,551	4,036,724	-72.5
Northern Total	65,597	218,277	141,550	742,825	947,645	-21.6
Chicago, IL	-	-	-	-	30,536	-
Cleveland, OH	27,541	54,894	61,511	179,887	177,067	1.6
Detroit, MI	34,189	161,093	72,240	504,294	725,422	-30.5
Duluth, MN	2,910	1,674	1,750	5,188	7,228	-28.2
Minneapolis, MN	-	-	-	51,216	-	-
Pembina, ND	957	616	6,049	2,240	7,392	-69.7
Other Ports	9,107	3,757	10,397	20,925	121,757	-82.8
Total	7,702,999	3,475,993	5,851,419	19,340,782	27,951,029	-30.8

- = No data reported.

NM = Not meaningful due to changes of 500 percent or more.

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

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'

Table 15. Metallurgical Coal Exports by Customs District

(short tons)

Customs District	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Eastern Total	8,681,895	6,831,357	7,044,057	31,245,414	33,317,819	-6.2
Baltimore, MD	2,242,846	1,486,476	1,811,937	9,157,653	9,889,595	-7.4
Buffalo, NY	513,832	422,272	566,999	1,233,671	1,548,366	-20.3
New York City, NY	-	-	22	-	22	-
Norfolk, VA	5,892,528	4,922,091	4,664,475	20,819,712	21,872,586	-4.8
Ogdensburg, NY	32,689	518	624	34,378	7,250	374.2
Southern Total	2,095,431	1,488,753	1,590,130	7,061,635	9,855,110	-28.3
Charleston, SC	-	216	-	363	-	-
El Paso, TX	-	-	-	-	12	-
Houston-Galveston, TX	-	-	-	-	9	-
Laredo, TX	345	65,321	101	66,412	291	NM
Miami, FL	-	-	-	-	76	-
Mobile, AL	1,550,483	1,340,742	1,290,704	6,277,877	8,854,158	-29.1
New Orleans, LA	544,391	82,474	299,325	716,641	1,000,564	-28.4
Savannah, GA	212	-	-	342	-	-
Western Total	-	43,683	39,683	116,325	105,866	9.9
Anchorage, AK	-	47	-	47	44	6.8
Los Angeles, CA	-	271	-	72,913	-	-
San Francisco, CA	-	43,365	39,683	43,365	105,822	-59.0
Northern Total	862,356	712,124	773,410	2,506,861	2,727,998	-8.1
Cleveland, OH	808,393	633,341	729,640	2,245,282	2,469,149	-9.1
Detroit, MI	53,963	78,783	28,147	261,579	243,068	7.6
Minneapolis, MN	-	-	15,623	-	15,623	-
Pembina, ND	-	-	-	-	158	-
Other Ports	-	-	35	-	66	-
Total	11,639,682	9,075,917	9,447,315	40,930,235	46,006,859	-11.0

-- No data reported.

NM = Not meaningful due to changes of 500 percent or more.

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

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'

Table 16. U.S. Coke Exports

(short tons)

Continent and Country of Destination	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	466,796	268,543	239,165	976,131	792,185	23.2
Canada*	247,481	163,812	224,341	602,934	702,140	-14.1
Mexico	219,081	104,549	14,657	372,138	88,930	318.5
Other**	234	182	167	1,059	1,115	-5.0
South America Total	-	20	-	53	376	-85.9
Other**	-	20	-	53	376	-85.9
Europe Total	92	22,277	30	22,402	35,611	-37.1
Other**	92	22,277	30	22,402	35,611	-37.1
Asia Total	87	271	186	1,119	1,082	3.4
Other**	87	271	186	1,119	1,082	3.4
Australia and Oceania Total	268	200	63	613	128	378.9
Other**	268	200	63	613	128	378.9
Africa Total	-	-	-	-	27,496	-
Other**	-	-	-	-	27,496	-
Total	467,243	291,311	239,444	1,000,318	856,878	16.7

* Based on the U.S. - Canada Free Trade Agreement; as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

** Includes countries with coal exports less than or equal to 50,000 short tons in 2015.

- = No data reported.

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

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'

Table 17. Average Price of U.S. Coke Exports

(dollars per short ton)

Continent and Country of Destination	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	181.69	232.58	204.63	219.33	238.03	-7.9
Canada*	179.84	217.78	187.69	211.66	225.62	-6.2
Mexico	183.36	255.12	462.21	230.64	331.49	-30.4
Other**	568.95	614.84	355.59	611.64	597.94	2.3
South America Total	-	526.20	-	515.13	252.87	103.7
Other**	-	526.20	-	515.13	252.87	103.7
Europe Total	488.74	74.48	1,386.60	76.83	141.89	-45.9
Other**	488.74	74.48	1,386.60	76.83	141.89	-45.9
Asia Total	671.06	627.55	660.87	729.01	719.04	1.4
Other**	671.06	627.55	660.87	729.01	719.04	1.4
Australia and Oceania Total	498.19	460.41	364.35	460.74	426.16	8.1
Other**	498.19	460.41	364.35	460.74	426.16	8.1
Africa Total	-	-	-	-	93.56	-
Other**	-	-	-	-	93.56	-
Total	182.02	221.04	205.18	216.88	230.04	-5.7

* Based on the U.S. - Canada Free Trade Agreement; as of January 1990, the U.S. Department of Commerce began reporting statistics on U.S. exports to Canada based on information on imports provided monthly by the Canadian government.

** Includes countries with coal exports less than or equal to 50,000 short tons in 2015.

- = No data reported.

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

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'

Table 18. U.S. Coal Imports

(short tons)

Continent and Country of Origin	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	274,750	323,445	341,205	1,079,458	1,187,738	-9.1
Canada	274,726	323,436	341,189	1,078,480	1,187,655	-9.2
Mexico	24	9	16	978	83	NM
South America Total	1,536,043	2,176,960	2,163,485	7,896,315	9,052,412	-12.8
Colombia	1,536,013	2,176,901	2,133,033	7,890,800	8,936,034	-11.7
Peru	30	59	30,452	5,515	42,203	-86.9
Venezuela	-	-	-	-	74,175	-
Europe Total	36,552	59,447	28,996	96,657	59,465	62.5
Austria	-	-	-	3	-	-
Germany, Federal Republic of	166	174	61	340	73	365.8
Italy	-	-	-	314	-	-
Netherlands	-	-	20	-	20	-
Russia	-	59,273	-	59,273	-	-
Switzerland	36,386	-	-	36,386	-	-
Ukraine	-	-	28,488	-	58,802	-
United Kingdom	-	-	427	341	570	-40.2
Asia Total	251,474	173,224	120,272	626,850	906,629	-30.9
China	579	5,070	2,578	6,955	16,099	-56.8
India	-	-	-	-	406	-
Indonesia	244,944	168,154	117,694	613,944	890,124	-31.0
Vietnam	5,951	-	-	5,951	-	-
Australia and Oceania Total	-	-	-	121,967	60,994	100.0
Australia	-	-	-	121,967	60,994	100.0
Africa Total	28,488	-	50,764	28,488	50,773	-43.9
South Africa	28,488	-	50,764	28,488	50,773	-43.9
Total	2,127,307	2,733,076	2,704,722	9,849,735	11,318,011	-13.0

- = No data reported.

NM = Not meaningful due to changes of 500 percent or more.

Note: Coal imports include coal to Puerto Rico and the Virgin Islands. Total may not equal sum of components because of independent rounding.

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.'

Table 19. Average Price of U.S. Coal Imports

(dollars per short ton)

Continent and Country of Origin	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	82.35	80.11	104.33	77.40	114.88	-32.6
Canada	82.33	80.09	104.32	77.40	114.88	-32.6
Mexico	344.79	477.33	360.25	75.68	161.01	-53.0
South America Total	69.20	61.75	64.18	65.10	66.81	-2.6
Colombia	69.20	61.74	63.86	65.10	66.70	-2.4
Peru	255.87	261.37	86.76	66.48	86.62	-23.3
Venezuela	-	-	-	-	68.88	-
Europe Total	135.80	55.03	127.32	85.76	128.11	-33.1
Austria	-	-	-	864.00	-	-
Germany, Federal Republic of	75.10	88.30	75.05	81.86	196.15	-58.3
Italy	-	-	-	75.07	-	-
Netherlands	-	-	366.25	-	366.25	-
Russia	-	54.93	-	54.93	-	-
Switzerland	136.08	-	-	136.08	-	-
Ukraine	-	-	126.45	-	127.44	-
United Kingdom	-	-	181.48	82.99	180.42	-54.0
Asia Total	61.43	44.83	67.56	53.50	59.11	-9.5
China	162.95	117.58	295.39	126.99	184.78	-31.3
India	-	-	-	-	472.33	-
Indonesia	60.12	42.64	62.57	52.17	56.65	-7.9
Vietnam	105.24	-	-	105.24	-	-
Australia and Oceania Total	-	-	-	47.66	60.25	-20.9
Australia	-	-	-	47.66	60.25	-20.9
Africa Total	75.07	-	85.96	75.07	86.00	-12.7
South Africa	75.07	-	85.96	75.07	86.00	-12.7
U.S. Total*	71.21	62.70	70.48	65.72	71.61	-8.2

* U.S. Total is the average price of all coal imports.

- = No data reported.

Note: Average price is based on the customs import value, including value for shipments of specialty coal not used as a fuel source (about 0.05 percent of all shipments). Customs import value is the price paid for merchandise when sold for exportation to the United States, excluding U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States. Coal imports include coal to Puerto Rico and the Virgin Islands. Total may not equal sum of components because of independent rounding.

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.'

Table 20. Coal Imports by Customs District

(short tons)

Customs District	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Eastern Total	92,473	433,244	225,584	900,129	1,095,068	-17.8
Baltimore, MD	-	118,034	10,410	118,034	10,766	NM
Boston, MA	92,118	245,227	102,581	668,096	700,089	-4.6
Buffalo, NY	154	-	-	248	260	-4.6
New York City, NY	201	66	44	1,062	954	11.3
Portland, ME	-	42,440	85,166	42,440	264,883	-84.0
Providence, RI	-	27,477	27,383	70,249	118,095	-40.5
St. Albans, VT	-	-	-	-	21	-
Southern Total	1,515,134	1,808,068	2,020,194	7,219,583	8,380,508	-13.9
Charleston, SC	-	-	142	54,020	142	NM
Houston-Galveston, TX	358	59	100	718	596	20.5
Laredo, TX	24	9	16	978	83	NM
Miami, FL	31,837	-	34,286	68,235	111,619	-38.9
Mobile, AL	349,599	593,192	846,591	2,479,229	2,995,407	-17.2
New Orleans, LA	-	5,004	36,406	5,222	78,610	-93.4
Port Arthur, TX	-	-	-	314	-	-
San Juan, PR	465,355	366,936	298,626	1,762,572	1,681,566	4.8
Savannah, GA	-	-	-	-	105,925	-
Tampa, FL	667,961	842,868	804,027	2,848,295	3,406,560	-16.4
Western Total	386,952	371,504	244,785	1,282,069	850,842	50.7
Anchorage, AK	-	-	-	341	-	-
Great Falls, MT	141,823	140,975	48,999	433,932	82,165	428.1
Honolulu, HI	244,944	230,135	179,816	831,195	716,657	16.0
Los Angeles, CA	18	-	61	18	221	-91.9
San Francisco, CA	-	-	-	56	131	-57.3
Seattle, WA	167	394	15,909	16,527	51,668	-68.0
Northern Total	132,748	120,260	214,159	447,954	991,593	-54.8
Chicago, IL	-	-	59,326	-	59,348	-
Cleveland, OH	166	163	-	329	-	-
Detroit, MI	105,557	105,702	76,671	251,141	360,799	-30.4
Duluth, MN	21	-	-	21	-	-
Pembina, ND	27,004	14,395	78,162	196,463	571,446	-65.6
Total	2,127,307	2,733,076	2,704,722	9,849,735	11,318,011	-13.0

- = No data reported.

NM = Not meaningful due to changes of 500 percent or more.

Note: Coal imports include coal to Puerto Rico and the Virgin Islands. Total may not equal sum of components because of independent rounding.

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.'

Table 21. U.S. Coke Imports

(short tons)

Continent and Country of Origin	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	704	24,512	52,115	45,369	82,776	-45.2
Canada	704	24,512	52,115	45,369	82,776	-45.2
South America Total	55,116	46,584	-	138,857	17,298	NM
Colombia	55,116	46,584	-	138,857	17,298	NM
Europe Total	782	853	1,156	42,023	36,510	15.1
Austria	-	-	3	-	3	-
Czech Republic	-	-	-	-	5,300	-
France	-	-	23	-	38	-
Germany, Federal Republic of	-	77	-	77	11	NM
Italy	774	770	976	8,847	2,698	227.9
Russia	-	-	-	33,069	28,300	16.9
Spain	-	-	141	-	141	-
United Kingdom	8	6	13	30	19	57.9
Asia Total	412	742	326	2,314	3,318	-30.3
China	-	-	-	243	-	-
Indonesia	54	31	22	200	159	25.8
Japan	358	711	304	1,871	3,159	-40.8
Africa Total	11	-	-	11	-	-
Egypt	11	-	-	11	-	-
U.S. Total	57,025	72,691	53,597	228,574	139,902	63.4

- = No data reported.

NM = Not meaningful due to changes of 500 percent or more.

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

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.'

Table 22. Average Price of U.S. Coke Imports

(dollars per short ton)

Continent and Country of Origin	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North America Total	221.30	120.19	113.11	122.76	120.01	2.3
Canada	221.30	120.19	113.11	122.76	120.01	2.3
South America Total	160.88	142.87	-	150.76	202.76	-25.6
Colombia	160.88	142.87	-	150.76	202.76	-25.6
Europe Total	264.20	266.25	416.80	129.70	161.37	-19.6
Austria	-	-	1,788.00	-	1,788.00	-
Czech Republic	-	-	-	-	288.36	-
France	-	-	1,110.35	-	2,499.16	-
Germany, Federal Republic of	-	234.51	-	234.51	206.27	13.7
Italy	256.47	263.70	300.11	258.90	308.23	-16.0
Russia	-	-	-	94.21	115.21	-18.2
Spain	-	-	929.57	-	929.57	-
United Kingdom	1,012.50	1,000.00	2,073.08	881.00	1,989.11	-55.7
Asia Total	411.60	337.95	357.17	339.55	347.08	-2.2
China	-	-	-	29.24	-	-
Indonesia	1,031.41	798.39	899.50	921.65	930.28	-0.9
Japan	318.11	317.87	317.92	317.63	317.73	s
Africa Total	818.18	-	-	818.18	-	-
Egypt	818.18	-	-	818.18	-	-
U.S. Total	164.98	138.66	121.14	143.27	146.42	-2.2

- = No data reported.

s = Absolute percentage less than 0.05.

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

Source: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.'

Receipts and Prices

Table 23. Coal Receipts at Coke Plants by Census Division

(thousand short tons)

Census Division	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Middle Atlantic	1,120	1,009	818	4,185	6,366	-34.3
East North Central	2,220	2,334	2,398	8,779	10,279	-14.6
South Atlantic	422	399	381	1,636	1,673	-2.2
East South Central	308	289	276	1,256	1,202	4.6
U.S. Total	4,070	4,031	3,873	15,856	19,520	-18.8

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

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

Table 24. Average Price of Coal Receipts at Coke Plants by Census Division

(dollars per short ton)

Census Division	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Middle Atlantic	w	w	w	w	w	w
East North Central	101.93	98.76	122.09	104.00	125.16	-16.9
South Atlantic	w	w	w	w	w	w
East South Central	w	w	w	w	w	w
U.S. Total	100.82	98.39	118.37	102.00	118.69	-14.1

w = Data withheld to avoid disclosure.

Note: Average price is based on the cost, insurance, and freight (c.i.f. value). Total may not equal sum of components because of independent rounding.

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

Table 25. Open Market Sales and Average Price of Coke and Breeze

(thousand short tons and dollars per short ton)

Commodity	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Coke						
Sales	1,500	1,493	1,672	5,771	7,325	-21.2
Average Price	278.68	284.99	289.88	289.61	291.95	-0.8
Breeze						
Sales	107	110	125	375	548	-31.5
Average Price	74.59	77.36	99.73	77.86	75.93	2.6

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

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

Table 26. Coal Receipts at Other Industrial Plants by Census Division and State

(thousand short tons)

Census Division and State	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
New England	6	5	5	20	72	-72.4
Maine	5	5	4	16	30	-44.8
Massachusetts	1	s	1	3	42	-92.0
Middle Atlantic	368	380	547	1,610	2,125	-24.2
New York	114	88	152	417	605	-31.0
Pennsylvania	254	292	395	1,192	1,520	-21.6
East North Central	1,713	1,795	1,823	6,843	7,444	-8.1
Illinois	613	636	682	2,480	2,679	-7.4
Indiana	535	690	436	2,185	1,627	34.2
Michigan	170	133	192	595	975	-38.9
Ohio	133	151	247	697	1,024	-31.9
Wisconsin	261	185	266	886	1,139	-22.2
West North Central	3,205	2,726	3,201	11,948	12,854	-7.0
Iowa	597	672	588	2,423	2,739	-11.5
Kansas	25	37	20	111	116	-4.2
Minnesota	285	132	206	922	981	-6.0
Missouri	164	209	213	712	935	-23.8
Nebraska	292	301	296	1,076	1,198	-10.2
North Dakota	1,806	1,334	1,829	6,539	6,640	-1.5
South Dakota	37	41	49	165	245	-32.5
South Atlantic	779	787	1,036	3,312	4,254	-22.1
Florida	83	130	131	503	544	-7.5
Georgia	95	80	105	362	461	-21.4
Maryland	149	146	176	551	683	-19.4
North Carolina	135	124	134	523	558	-6.3
South Carolina	59	65	92	280	439	-36.1
Virginia	165	136	193	619	702	-11.9
West Virginia	92	105	205	473	868	-45.4
East South Central	838	938	1,071	3,785	4,546	-16.7
Alabama	254	244	267	1,107	1,325	-16.5
Kentucky	210	216	254	790	977	-19.1
Mississippi	1	1	30	2	118	-98.0
Tennessee	374	477	520	1,886	2,126	-11.3
West South Central	438	418	565	1,616	2,154	-25.0
Arkansas	55	40	56	194	208	-6.9
Louisiana	54	76	57	263	237	11.0
Oklahoma	152	121	181	506	667	-24.1
Texas	177	182	270	654	1,043	-37.3
Mountain	788	901	872	3,158	3,708	-14.8
Arizona	34	49	73	185	230	-19.2
Colorado	83	84	111	287	374	-23.3
Idaho	2	23	36	79	311	-74.4
Montana	110	47	111	263	284	-7.5
Nevada	77	84	72	278	304	-8.5
New Mexico	21	19	19	76	67	12.9
Utah	104	225	98	585	650	-10.0
Wyoming	358	369	353	1,404	1,488	-5.6
Pacific	401	367	449	1,472	1,640	-10.2
Alaska	s	s	s	1	1	s
California	375	340	382	1,344	1,416	-5.1
Hawaii	-	-	25	-	25	-
Oregon	1	8	17	31	99	-68.7
Washington	25	20	25	96	99	-3.2
U.S. Total	8,535	8,317	9,570	33,765	38,797	-13.0

- = No data reported.

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

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data' and Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Table 27. Average Price of Coal Receipts at Other Industrial Plants by Census Division and State

(dollars per short ton)

Census Division and State	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
New England	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
Middle Atlantic	71.89	83.80	86.88	78.84	86.62	-9.0
New York	79.52	w	104.74	w	w	w
Pennsylvania	68.43	w	79.95	w	w	w
East North Central	70.52	69.86	71.70	69.17	72.12	-4.1
Illinois	w	45.23	46.53	w	w	w
Indiana	w	85.30	84.29	w	w	w
Michigan	72.92	76.62	87.45	77.71	83.60	-7.0
Ohio	92.20	89.79	91.47	84.29	87.17	-3.3
Wisconsin	77.13	75.82	85.88	77.18	88.00	-12.3
West North Central	31.88	35.86	34.58	34.79	36.99	-5.9
Iowa	44.33	43.12	45.16	44.50	45.98	-3.2
Kansas	w	w	w	w	w	w
Minnesota	49.20	53.88	54.80	51.13	54.98	-7.0
Missouri	59.56	56.25	64.03	59.57	61.58	-3.3
Nebraska	28.70	28.88	29.05	29.07	30.80	-5.6
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic	89.19	91.27	91.56	91.26	92.17	-1.0
Florida	w	w	w	w	w	w
Georgia	96.32	100.76	98.69	97.77	103.49	-5.5
Maryland	w	w	w	w	w	w
North Carolina	94.15	93.64	102.67	97.38	102.16	-4.7
South Carolina	93.01	87.30	101.73	94.45	99.81	-5.4
Virginia	89.98	93.63	91.43	91.76	90.51	1.4
West Virginia	125.70	134.42	98.75	120.27	99.33	21.1
East South Central	85.51	86.31	97.50	88.25	97.28	-9.3
Alabama	84.12	85.21	w	88.91	w	w
Kentucky	86.49	86.12	92.10	90.71	94.83	-4.3
Mississippi	-	-	w	-	w	-
Tennessee	85.88	86.94	96.05	86.83	95.23	-8.8
West South Central	67.09	68.65	72.37	66.95	74.00	-9.5
Arkansas	w	w	w	w	w	w
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	75.37	82.13	88.02	81.76	85.55	-4.4
Mountain	50.81	54.60	52.46	53.07	55.18	-3.8
Arizona	w	w	w	w	w	w
Colorado	62.09	87.84	55.83	73.76	63.93	15.4
Idaho	w	w	w	w	70.39	w
Montana	35.13	48.07	32.88	40.52	38.57	5.1
Nevada	69.98	69.36	72.75	69.97	72.12	-3.0
New Mexico	w	w	w	w	w	w
Utah	51.80	49.51	50.89	50.09	52.85	-5.2
Wyoming	43.14	40.00	41.84	41.40	43.76	-5.4
Pacific	71.82	77.22	85.75	77.21	83.02	-7.0
California	71.45	77.26	81.96	77.23	82.75	-6.7
Hawaii	-	-	w	-	w	-
Oregon	w	w	w	w	w	w
Washington	w	w	w	w	w	w
U.S. Total	57.29	61.83	64.12	60.49	65.44	-7.6

- = No data reported.

w = Data withheld to avoid disclosure.

Note: Average price is based on the cost, insurance, and freight (c.i.f. value). Total may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'

Table 28. U.S. Coal Receipts at Manufacturing Plants by North American Industry Classification System (NAICS) Code

(thousand short tons)

NAICS Code		October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
					2016	2015	
311	Food Manufacturing	1,993	1,884	2,109	7,759	8,249	-6.0
312	Beverage and Tobacco Product Mfg.	5	3	16	30	53	-42.3
313	Textile Mills	27	15	30	98	108	-9.3
321	Wood Product Manufacturing	-	-	-	-	7	-
322	Paper Manufacturing	886	828	1,169	3,748	4,814	-22.1
324	Petroleum and Coal Products*	1,723	1,314	1,746	6,314	6,437	-1.9
325	Chemical Manufacturing	1,123	1,187	1,450	4,839	6,107	-20.8
327	Nonmetallic Mineral Products Mfg.	2,037	2,190	2,519	7,919	10,088	-21.5
331	Primary Metal Manufacturing**	545	684	330	2,206	1,916	15.1
332	Fabricated Metal Product Mfg.	-	-	-	-	2	-
333	Machinery Manufacturing	27	16	4	101	133	-24.0
336	Transportation Equipment Mfg.	-	-	5	-	20	-
337	Furniture and Related Product Mfg.	-	-	-	-	9	-
339	Miscellaneous Manufacturing	169	194	194	750	853	-12.1
U.S. Total		8,535	8,317	9,570	33,765	38,797	-13.0

* Includes coal gasification projects.

** Excludes coke plants.

- = No data reported.

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'

Table 29. Average Price of U.S. Coal Receipts at Manufacturing Plants by North American Industry Classification System (NAICS) Code

(dollars per short ton)

NAICS Code		October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
					2016	2015	
311	Food Manufacturing	44.80	45.43	47.74	46.27	47.37	-2.3
312	Beverage and Tobacco Product Mfg.	w	w	101.59	w	w	w
313	Textile Mills	112.19	117.48	110.67	110.62	113.77	-2.8
321	Wood Product Manufacturing	-	-	-	-	106.00	-
322	Paper Manufacturing	76.44	77.15	79.30	77.08	81.87	-5.9
324	Petroleum and Coal Products*	w	w	w	w	w	w
325	Chemical Manufacturing	71.09	69.95	76.08	72.66	77.12	-5.8
327	Nonmetallic Mineral Products Mfg.	71.83	73.05	79.98	73.74	78.49	-6.1
331	Primary Metal Manufacturing**	99.81	100.01	131.90	102.77	113.44	-9.4
332	Fabricated Metal Product Mfg.	-	-	-	-	142.70	-
333	Machinery Manufacturing	w	w	w	w	w	w
336	Transportation Equipment Mfg.	-	-	w	-	w	-
337	Furniture and Related Product Mfg.	-	-	-	-	80.50	-
339	Miscellaneous Manufacturing	57.88	71.02	76.04	67.28	77.32	-13.0
U.S. Total		57.29	61.83	64.12	60.49	65.44	-7.6

* Includes coal gasification projects.

** Excludes coke plants.

- = No data reported.

w = Data withheld to avoid disclosure.

Note: Average price is based on the cost, insurance, and freight (c.i.f. value). Total may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'

Table 30. Coal Receipts at Commercial and Institutional Users by Census Division and State

(thousand short tons)

Census Division and State	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Middle Atlantic	9	1	20	37	79	-53.5
Pennsylvania	9	1	20	37	79	-53.5
East North Central	61	38	58	226	281	-19.4
Illinois	33	20	23	113	97	16.4
Indiana	15	17	14	59	54	9.3
Michigan	-	-	-	-	27	-
Ohio	7	1	17	33	82	-60.3
Wisconsin	6	-	4	21	20	6.0
West North Central	80	47	85	254	330	-23.1
Iowa	29	31	36	129	176	-26.8
Minnesota	1	s	3	9	11	-17.9
Missouri	27	11	22	57	67	-15.2
North Dakota	23	5	25	59	77	-22.4
South Atlantic	36	38	53	148	205	-27.9
District of Columbia	-	-	2	2	2	-2.8
North Carolina	27	27	35	108	155	-30.4
Virginia	9	11	16	38	48	-20.8
East South Central	2	s	3	15	16	-5.4
Kentucky	2	s	3	15	12	22.7
Tennessee	-	-	-	-	4	-
West South Central	-	-	-	-	8	-
Texas	-	-	-	-	8	-
Mountain	6	s	2	10	12	-17.1
Colorado	1	-	s	1	3	-60.5
Montana	1	s	1	2	1	201.4
Wyoming	3	-	1	7	8	-13.5
Pacific	124	113	135	477	537	-11.2
Alaska	124	113	135	477	537	-11.2
U.S. Total	316	238	356	1,167	1,468	-20.5

- = No data reported.

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

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'

Table 31. Average Price of Coal Receipts at Commercial and Institutional Users by Census Division and State

(dollars per short ton)

Census Division and State	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Middle Atlantic	116.69	w	119.37	w	w	w
Pennsylvania	116.69	w	119.37	w	w	w
East North Central	74.05	58.53	84.30	75.31	83.21	-9.5
Illinois	54.30	48.29	56.52	53.39	56.48	-5.5
Indiana	w	w	w	w	w	w
Michigan	-	-	-	-	90.81	-
Ohio	w	w	w	w	115.19	w
Wisconsin	153.42	-	154.87	154.08	128.25	20.1
West North Central	69.35	69.21	72.04	71.96	77.62	-7.3
Iowa	w	w	w	w	w	w
Minnesota	w	w	w	w	w	w
Missouri	w	w	w	w	w	w
North Dakota	w	w	w	w	56.11	w
South Atlantic	94.90	101.94	100.30	100.45	109.10	-7.9
District of Columbia	-	-	w	159.10	w	w
North Carolina	w	w	w	w	w	w
Virginia	w	w	w	w	88.12	w
East South Central	w	w	w	w	102.09	w
Kentucky	w	w	w	w	w	w
Tennessee	-	-	-	-	99.80	-
West South Central	-	-	-	-	186.65	-
Texas	-	-	-	-	186.65	-
Mountain	w	w	w	w	w	w
Colorado	w	-	w	w	w	w
Montana	w	w	w	w	w	w
Wyoming	w	-	w	w	w	w
Pacific	w	w	79.02	w	w	w
Alaska	w	w	79.02	w	w	w
U.S. Total	79.42	77.64	83.90	81.06	85.70	-5.4

- = No data reported.

w = Data withheld to avoid disclosure.

Note: Average price is based on the cost, insurance, and freight (c.i.f. value). Total may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'

Consumption

Table 32. U.S. Coal Consumption by End-Use Sector, 2010 - 2016

(thousand short tons)

Year and Quarter	Electric Power Sector ¹	Coke Plants	Other Industrial			Commercial and Institutional			Total
			CHP ²	Non-CHP ³	Total	CHP ⁴	Non-CHP ⁵	Total	
2010									
January - March	246,445	4,857	6,195	6,405	12,600	509	527	1,037	264,939
April - June	229,469	5,353	6,128	5,786	11,914	370	238	608	247,344
July - September	267,943	5,491	6,257	6,027	12,284	426	216	642	286,361
October - December	231,195	5,391	6,057	6,432	12,490	414	379	793	249,870
Total	975,052	21,092	24,638	24,650	49,289	1,720	1,361	3,081	1,048,514
2011									
January - March	235,953	5,188	5,773	6,716	12,489	526	490	1,016	254,647
April - June	224,177	5,392	5,466	5,571	11,036	378	264	643	241,247
July - September	262,618	5,407	5,696	5,473	11,168	396	132	528	279,722
October - December	209,736	5,447	5,384	6,160	11,543	367	239	605	227,332
Total	932,484	21,434	22,319	23,919	46,238	1,668	1,125	2,793	1,002,948
2012									
January - March	190,664	5,283	5,531	5,667	11,198	418	270	688	207,833
April - June	185,721	5,296	4,598	5,528	10,125	319	94	414	201,555
July - September	238,076	5,044	4,950	5,521	10,470	347	46	393	253,984
October - December	209,091	5,128	4,987	6,057	11,044	366	184	550	225,813
Total	823,551	20,751	20,065	22,773	42,838	1,450	595	2,045	889,185
2013									
January - March	211,971	5,280	5,115	5,942	11,057	418	260	679	228,987
April - June	199,845	5,471	4,747	5,554	10,301	307	91	397	216,014
July - September	237,205	5,429	4,830	5,538	10,368	299	57	355	253,357
October - December	208,942	5,294	5,069	6,260	11,329	333	187	520	226,084
Total	857,962	21,474	19,761	23,294	43,055	1,356	595	1,951	924,442
2014									
January - March	231,534	4,886	5,153	6,029	11,181	381	348	729	248,329
April - June	195,922	5,174	4,561	5,853	10,414	232	140	372	211,881
July - September	231,066	5,636	4,683	5,743	10,425	221	105	326	247,453
October - December	193,081	5,601	4,680	6,245	10,925	229	231	460	210,068
Total	851,602	21,297	19,076	23,870	42,946	1,063	824	1,887	917,731
2015									
January - March	196,656	5,156	4,602	5,791	10,393	277	290	567	212,772
April - June	174,376	4,987	4,095	5,216	9,311	166	136	302	188,975
July - September	214,811	5,030	4,316	4,957	9,273	173	105	278	229,393
October - December	152,601	4,535	3,971	5,511	9,482	183	174	357	166,974
Total	738,444	19,708	16,984	21,475	38,459	798	706	1,503	798,115
2016									
January - March	152,226	4,124	4,268	4,826	9,094	228	220	448	165,892
April - June	147,185	4,096	3,366	5,041	8,408	136	74	209	159,897
July - September	210,260	4,163	3,522	4,892	8,413	146	54	200	223,036
October - December	167,561	4,102	3,146	5,498	8,645	182	142	325	180,632
Total	677,231	16,485	14,302	20,257	34,559	692	490	1,182	729,457
2015 January - December	738,444	19,708	16,984	21,475	38,459	798	706	1,503	798,115
2014 January - December	851,602	21,297	19,076	23,870	42,946	1,063	824	1,887	917,731

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). The reported coal consumption is the total for producing electricity and useful thermal output.

2 Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants. The reported coal consumption is the total for producing electricity and useful thermal output.

3 All industrial sector fuel use other than in 'Coke Plants' and 'Industrial CHP.'

4 Includes commercial combined-heat-and-power (CHP) and a small number of commercial electricity-only plants, such as hospitals and universities. The reported coal consumption is the total for producing electricity and useful thermal output.

5 All commercial sector fuel use other than that in 'Commercial CHP.' Excludes residential use.

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

Source: U.S. Energy Information Administration (EIA). *Electric Power Sector and CHP: Form EIA-923, 'Power Plant Operations Report.' *Coke Plants: Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.' *Other Industrial: Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data,' Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and Form EIA-923, 'Power Plant Operations Report.' *Commercial and Institutional: Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table 33. Coal Carbonized at Coke Plants by Census Division

(thousand short tons)

Census Division	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Middle Atlantic	1,174	1,162	1,305	4,694	6,219	-24.5
East North Central	2,210	2,284	2,557	8,947	10,584	-15.5
South Atlantic	394	403	414	1,590	1,702	-6.6
East South Central	325	314	259	1,253	1,204	4.1
U.S. Total	4,102	4,163	4,535	16,485	19,708	-16.4

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

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

Table 34. Coal Consumption at Other Industrial Plants by Census Division and State

(thousand short tons)

Census Division and State	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
New England	6	5	5	21	75	-72.4
Maine	5	4	4	17	30	-43.9
Massachusetts	1	1	1	4	45	-91.2
Middle Atlantic	363	402	535	1,643	2,071	-20.7
New York	90	89	142	410	572	-28.3
Pennsylvania	273	314	393	1,233	1,499	-17.7
East North Central	1,641	1,777	1,780	7,014	7,449	-5.8
Illinois	582	652	683	2,474	2,690	-8.1
Indiana	552	604	372	2,209	1,554	42.1
Michigan	137	164	201	704	929	-24.2
Ohio	136	156	245	707	1,062	-33.5
Wisconsin	234	200	280	921	1,214	-24.2
West North Central	3,337	2,734	3,314	12,185	12,863	-5.3
Iowa	629	663	597	2,485	2,849	-12.8
Kansas	32	24	26	104	115	-10.0
Minnesota	296	193	253	1,055	957	10.2
Missouri	182	203	219	711	951	-25.2
Nebraska	308	293	312	1,113	1,175	-5.2
North Dakota	1,837	1,298	1,855	6,505	6,619	-1.7
South Dakota	53	60	52	212	197	7.7
South Atlantic	823	823	1,008	3,485	4,243	-17.9
Florida	122	137	142	500	576	-13.1
Georgia	93	103	94	432	463	-6.6
Maryland	157	142	179	554	681	-18.7
North Carolina	133	127	137	526	552	-4.8
South Carolina	82	64	97	324	439	-26.3
Virginia	152	130	164	613	683	-10.2
West Virginia	84	119	194	536	849	-36.9
East South Central	843	971	1,129	3,801	4,592	-17.2
Alabama	241	273	314	1,104	1,350	-18.3
Kentucky	207	219	254	782	996	-21.4
Mississippi	1	1	29	2	111	-97.9
Tennessee	395	478	531	1,913	2,135	-10.4
West South Central	407	473	444	1,732	1,989	-12.9
Arkansas	49	50	53	200	197	1.9
Louisiana	56	79	55	267	239	11.6
Oklahoma	145	161	137	591	602	-1.8
Texas	156	183	199	673	951	-29.3
Mountain	827	845	885	3,177	3,588	-11.4
Arizona	36	50	63	175	235	-25.6
Colorado	68	69	109	285	355	-19.8
Idaho	31	28	43	104	192	-46.0
Montana	110	34	115	261	279	-6.1
Nevada	75	76	72	285	301	-5.1
New Mexico	19	19	20	73	69	7.1
Utah	111	213	107	575	662	-13.1
Wyoming	377	355	355	1,418	1,496	-5.2
Pacific	398	383	382	1,502	1,588	-5.4
Alaska	s	s	s	1	1	s
California	366	359	314	1,389	1,334	4.1
Hawaii	5	3	10	12	50	-76.1
Oregon	-	-	32	-	100	-
Washington	27	21	25	100	102	-1.9
U.S. Total	8,645	8,413	9,482	34,559	38,459	-10.1

- = No data reported.

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

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data' and Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Table 35. U.S. Coal Consumption at Manufacturing Plants by North American Industry Classification System (NAICS) Code

(thousand short tons)

NAICS Code	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
311 Food Manufacturing	2,005	1,876	2,111	7,813	8,186	-4.6
312 Beverage and Tobacco Product Mfg.	5	2	14	29	51	-42.7
313 Textile Mills	27	16	28	99	111	-10.9
321 Wood Product Manufacturing	-	-	-	-	24	-
322 Paper Manufacturing	898	930	1,134	3,996	4,848	-17.6
324 Petroleum and Coal Products*	1,752	1,299	1,753	6,308	6,435	-2.0
325 Chemical Manufacturing	1,162	1,226	1,402	5,029	6,138	-18.1
327 Nonmetallic Mineral Products Mfg.	2,079	2,152	2,420	8,170	9,690	-15.7
331 Primary Metal Manufacturing**	524	679	398	2,269	1,949	16.4
332 Fabricated Metal Product Mfg.	-	-	2	4	11	-66.7
333 Machinery Manufacturing	17	27	36	80	129	-38.2
336 Transportation Equipment Mfg.	1	-	1	2	21	-88.2
337 Furniture and Related Product Mfg.	-	-	3	-	11	-
339 Miscellaneous Manufacturing	176	206	181	759	854	-11.1
U.S. Total	8,645	8,413	9,482	34,559	38,459	-10.1

* Includes coal gasification projects.

** Excludes coke plants.

- = No data reported.

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'

Table 36. Coal Consumption at Commercial and Institutional Users by Census Division and State

(thousand short tons)

Census Division and State	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Middle Atlantic	10	2	17	39	75	-47.2
Pennsylvania	10	2	17	39	75	-47.2
East North Central	52	38	51	251	308	-18.6
Illinois	26	21	20	104	97	7.1
Indiana	13	16	11	67	62	8.0
Michigan	-	-	4	14	47	-70.2
Ohio	7	2	13	45	82	-45.4
Wisconsin	5	-	2	21	20	6.0
West North Central	79	44	80	254	321	-20.8
Iowa	29	31	38	130	173	-25.0
Minnesota	4	s	2	10	8	20.6
Missouri	26	9	22	55	67	-17.0
North Dakota	21	5	18	58	72	-19.1
South Atlantic	42	27	44	154	200	-23.3
District of Columbia	s	-	s	1	2	-23.8
Georgia	-	-	-	-	2	-
Maryland	-	-	-	-	1	-
North Carolina	31	26	32	119	145	-18.3
Virginia	11	1	12	34	50	-33.3
East South Central	3	-	3	14	21	-33.0
Kentucky	3	-	3	14	15	-7.1
Tennessee	-	-	-	-	6	-
West South Central	-	-	1	-	6	-
Texas	-	-	1	-	6	-
Mountain	6	-	3	10	14	-25.6
Colorado	1	-	s	2	3	-46.4
Montana	1	-	2	2	2	-38.1
Wyoming	3	-	1	7	8	-13.5
Pacific	134	89	156	460	559	-17.7
Alaska	134	89	156	460	559	-17.7
U.S. Total	325	200	357	1,182	1,503	-21.4

- = No data reported.

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

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'

Stocks

Table 37. U.S. Coal Stocks, 2010 - 2016

(thousand short tons)

Last Day of Quarter	Coal Consumers				Total	Coal Producers and Distributors	Total
	Electric Power Sector ¹	Coke Plants	Other Industrial ²	Commercial and Institutional Users			
2010							
March 31	177,742	1,583	4,175	471	183,970	50,936	234,906
June 30	181,490	1,978	4,272	505	188,244	51,497	239,741
September 30	163,776	1,889	4,492	517	170,674	49,913	220,587
December 31	174,917	1,925	4,525	552	181,920	49,820	231,740
2011							
March 31	166,255	1,959	3,864	503	172,581	48,165	220,746
June 30	165,149	1,956	4,181	510	171,795	50,507	222,302
September 30	143,711	2,405	4,247	518	150,881	49,909	200,790
December 31	172,387	2,610	4,455	603	180,054	51,897	231,951
2012							
March 31	195,380	2,300	3,929	557	202,166	51,141	253,307
June 30	197,924	2,295	4,219	585	205,023	50,374	255,397
September 30	182,020	2,396	4,518	596	189,530	46,231	235,761
December 31	185,116	2,522	4,475	583	192,696	46,157	238,853
2013							
March 31	171,736	2,207	3,946	530	178,419	48,422	226,841
June 30	171,124	2,500	3,957	529	178,110	50,129	228,239
September 30	152,694	2,546	4,308	530	160,079	47,135	207,214
December 31	147,884	2,200	4,097	495	154,676	45,652	200,328
2014							
March 31	118,260	1,791	3,534	405	123,990	44,728	168,718
June 30	133,479	1,937	3,626	429	139,471	42,682	182,153
September 30	124,546	2,307	4,070	462	131,386	38,828	170,214
December 31	151,548	2,640	4,196	449	158,833	38,894	197,727
2015							
March 31	154,347	2,135	3,639	388	160,509	39,610	200,119
June 30	166,437	2,627	3,864	386	173,314	39,399	212,713
September 30	162,109	3,013	4,271	392	169,784	36,213	205,997
December 31	195,548	2,236	4,382	394	202,560	35,871	238,431
2016							
March 31	192,270	1,914	3,926	332	198,442	37,304*	235,746
June 30	183,246	1,802	3,821	337	189,206	37,127*	226,333
September 30	158,236	1,660	3,704	370	163,971	33,574*	197,545
December 31	163,943	1,675	3,634	361	169,614	33,699*	203,313

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).

2 Manufacturing plants only.

* Estimated.

-- No data reported.

Note: Beginning in 1999, the first three quarters of each year's data for Coal Producers and Distributors are estimated. Electric power sector stocks include anthracite, bituminous coal, sub-bituminous coal, and lignite, and exclude waste coal. Total may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration (EIA). *Electric Power Sector: Form EIA-923, 'Power Plant Operations Report.' *Coke Plants: Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.' *Other Industrial and Commercial and Institutional Users: Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.' *Producers and Distributors: 'Short Term Energy Outlook' estimates, Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and Form EIA-8A, 'Annual Survey of Coal Stocks and Coal Exports.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table 38. Coal Stocks at Coke Plants by Census Division

(thousand short tons)

Census Division	December 31, 2016	September 30, 2016	December 31, 2015	Percent Change (December 31) 2016 versus 2015
Middle Atlantic	304	358	797	-61.9
East North Central	1,024	955	1,172	-12.7
South Atlantic	144	128	70	105.9
East South Central	203	219	197	3.0
U.S. Total	1,675	1,660	2,236	-25.1

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

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

Table 39. Coal Stocks at Other Industrial Plants by Census Division and State

(thousand short tons)

Census Division and State	December 31, 2016	September 30, 2016	December 31, 2015	Percent Change (December 31) 2016 versus 2015
New England	5	5	6	-14.6
Maine	1	1	1	-19.7
Massachusetts	4	4	5	-13.4
Middle Atlantic	303	300	342	-11.5
New York	146	122	139	5.3
Pennsylvania	156	177	203	-23.0
East North Central	819	741	937	-12.6
Illinois	141	110	135	4.6
Indiana	281	292	255	10.0
Michigan	242	208	352	-31.3
Ohio	26	29	37	-27.8
Wisconsin	129	104	158	-18.6
West North Central	684	794	925	-26.1
Iowa	127	159	189	-32.9
Kansas	42	51	37	14.5
Minnesota	157	147	283	-44.4
Missouri	71	87	71	0.8
Nebraska	66	83	104	-35.9
North Dakota	206	237	176	16.7
South Dakota	14	30	65	-78.8
South Atlantic	363	407	525	-31.0
Florida	47	86	46	3.0
Georgia	75	73	138	-45.6
Maryland	14	21	17	-17.7
North Carolina	27	24	29	-8.1
South Carolina	68	91	108	-37.6
Virginia	85	72	78	9.7
West Virginia	47	39	109	-57.1
East South Central	234	237	251	-6.7
Alabama	104	89	84	23.7
Kentucky	28	25	34	-17.5
Mississippi	-	-	4	-100.0
Tennessee	102	123	130	-20.9
West South Central	460	442	600	-23.3
Arkansas	36	31	43	-15.9
Louisiana	8	7	8	1.7
Oklahoma	128	121	208	-38.5
Texas	288	283	341	-15.5
Mountain	552	577	555	-0.7
Arizona	52	54	41	26.5
Colorado	54	40	56	-4.8
Idaho	275	288	275	-0.2
Montana	38	38	37	3.5
Nevada	28	25	35	-20.0
New Mexico	4	2	1	178.7
Utah	46	55	40	14.1
Wyoming	56	75	70	-19.7
Pacific	215	201	240	-10.3
California	163	153	213	-23.5
Hawaii	16	11	18	-8.4
Oregon	34	33	3	NM
Washington	2	4	6	-67.1
U.S. Total	3,634	3,704	4,382	-17.1

NM = Not meaningful due to changes of 500 percent or more.

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'

Table 40. U.S. Coal Stocks at Manufacturing Plants by North American Industry Classification System (NAICS) Code

(thousand short tons)

NAICS Code	December 31, 2016	September 30, 2016	December 31, 2015	Percent Change (December 31) 2016 versus 2015
311 Food Manufacturing	774	775	823	-6.0
312 Beverage and Tobacco Product Mfg.	3	3	2	40.4
313 Textile Mills	14	15	16	-10.0
322 Paper Manufacturing	359	371	580	-38.2
324 Petroleum and Coal Products*	173	203	167	3.3
325 Chemical Manufacturing	360	379	536	-32.8
327 Nonmetallic Mineral Products Mfg.	1,463	1,523	1,763	-17.0
331 Primary Metal Manufacturing**	387	342	402	-3.7
332 Fabricated Metal Product Mfg.	-	-	4	-100.0
333 Machinery Manufacturing	37	27	16	136.6
336 Transportation Equipment Mfg.	5	6	8	-31.3
339 Miscellaneous Manufacturing	59	62	65	-8.4
U.S. Total	3,634	3,704	4,382	-17.1

* Includes coal gasification projects.

** Excludes coke plants.

-- = No data reported.

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'

Table 41. Coke and Breeze Stocks at Coke Plants by Census Division

(thousand short tons)

Census Division	December 31, 2016	September 30, 2016	December 31, 2015	Percent Change (December 31) 2016 versus 2015
Middle Atlantic	100	86	270	-62.8
East North Central	507	553	404	25.5
South Atlantic	92	86	63	45.7
East South Central	110	124	104	5.1
U.S. Total	809	849	841	-3.8
Coke Total	579	656	707	-18.2
Breeze Total	230	193	134	71.7

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

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

Table 42. Coal Stocks at Commercial and Institutional Users by Census Division and State

(thousand short tons)

Census Division and State	December 31, 2016	September 30, 2016	December 31, 2015	Percent Change (December 31) 2016 versus 2015
Middle Atlantic	44	45	50	-12.2
Pennsylvania	44	45	50	-12.2
East North Central	63	55	93	-32.1
Illinois	20	14	17	21.2
Indiana	33	32	41	-18.1
Michigan	-	-	14	-100.0
Ohio	6	7	18	-65.8
Wisconsin	3	2	3	-1.5
West North Central	62	62	66	-6.5
Iowa	35	35	37	-6.6
Minnesota	11	13	12	-13.5
Missouri	2	1	2	-22.1
North Dakota	15	13	15	1.9
South Atlantic	63	69	72	-12.6
District of Columbia	4	4	3	19.0
North Carolina	33	37	42	-20.9
South Carolina	-	s	s	-100.0
Virginia	26	28	27	-2.8
East South Central	12	13	11	13.3
Kentucky	12	13	11	13.6
Tennessee	s	s	s	s
West South Central	-	-	2	-100.0
Texas	-	-	2	-100.0
Mountain	3	3	4	-4.6
Colorado	s	s	1	-30.5
Montana	3	3	3	-0.1
Wyoming	s	s	s	s
Pacific	113	124	96	18.1
Alaska	113	124	96	18.1
U.S. Total	361	370	394	-8.3

- = No data reported.

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

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'

Quality

Table 43. Average Quality of Coal Received at Manufacturing and Coke Plants by Census Division and State

Census Division and State ¹	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
New England						
Btu	12,547	12,633	12,628	12,607	13,085	-3.7
Sulfur	0.90	0.81	0.84	0.86	0.77	10.7
Ash	8.80	8.33	8.15	8.48	7.15	18.7
Maine						
Btu	12,619	12,619	12,592	12,619	12,500	1.0
Sulfur	0.79	0.79	0.73	0.79	0.72	10.0
Ash	8.31	8.31	8.05	8.31	8.13	2.2
Massachusetts						
Btu	12,266	12,818	12,784	12,549	13,501	-7.1
Sulfur	1.33	1.01	1.31	1.18	0.81	45.1
Ash	10.69	8.60	8.60	9.34	6.45	44.8
Middle Atlantic						
Btu	13,649	13,578	13,597	13,674	13,689	-0.1
Sulfur	1.17	1.08	1.19	1.09	1.09	-0.6
Ash	8.91	8.94	8.95	8.27	8.37	-1.2
New York						
Btu	13,319	13,471	13,530	13,441	13,312	1.0
Sulfur	1.78	1.18	1.67	1.49	1.54	-3.2
Ash	7.68	6.88	7.59	7.14	8.34	-14.4
Pennsylvania						
Btu	13,684	13,587	13,608	13,697	13,725	-0.2
Sulfur	1.10	1.07	1.11	1.05	1.05	-0.3
Ash	9.04	9.13	9.16	8.38	8.38	0.1
East North Central						
Btu	13,119	13,164	13,190	13,135	13,121	0.1
Sulfur	1.13	1.15	1.31	1.20	1.24	-3.3
Ash	7.26	7.32	7.42	7.28	7.32	-0.6
Illinois						
Btu	11,577	11,533	11,684	11,560	11,582	-0.2
Sulfur	1.97	2.04	2.39	2.14	2.15	-0.6
Ash	7.34	7.59	7.73	7.66	7.56	1.4
Indiana						
Btu	13,922	13,867	13,965	13,934	13,932	s
Sulfur	0.88	0.91	0.94	0.90	0.93	-3.8
Ash	7.42	7.37	7.21	7.22	7.13	1.3
Michigan						
Btu	12,927	13,008	13,048	12,883	12,749	1.1
Sulfur	0.76	0.71	0.88	0.73	0.83	-11.7
Ash	7.08	6.76	7.18	6.73	7.20	-6.5
Ohio						
Btu	14,125	14,068	13,968	13,964	13,977	-0.1
Sulfur	1.00	1.04	1.12	1.08	1.14	-5.0
Ash	7.18	7.34	7.66	7.33	7.52	-2.6
Wisconsin						
Btu	10,816	10,501	11,047	10,679	11,142	-4.2
Sulfur	0.83	0.73	1.22	0.90	1.26	-28.6
Ash	6.73	6.92	6.87	6.77	7.01	-3.4
West North Central						
Btu	8,155	8,390	8,215	8,227	8,314	-1.1
Sulfur	0.83	0.89	0.87	0.88	0.91	-3.5
Ash	6.27	6.14	6.26	6.20	6.27	-1.2
Iowa						
Btu	9,129	9,155	9,163	9,137	9,219	-0.9
Sulfur	0.77	0.84	0.81	0.83	0.90	-8.0
Ash	5.22	5.35	5.27	5.25	5.37	-2.2
Kansas						
Btu	11,179	11,972	11,605	11,303	12,003	-5.8
Sulfur	1.67	1.60	2.85	1.73	1.85	-6.5
Ash	10.64	8.84	13.23	10.38	10.17	2.1

Census Division and State ¹	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Minnesota						
Btu	9,239	9,278	9,322	9,286	9,130	1.7
Sulfur	0.33	0.35	0.35	0.35	0.30	13.7
Ash	4.55	4.32	4.29	4.31	4.77	-9.6
Missouri						
Btu	11,229	11,282	11,058	11,265	11,128	1.2
Sulfur	2.12	2.20	2.12	2.14	2.22	-3.7
Ash	8.71	8.47	8.83	8.50	9.00	-5.5
Nebraska						
Btu	8,902	9,064	8,906	8,988	9,014	-0.3
Sulfur	0.23	0.25	0.23	0.24	0.24	1.0
Ash	4.81	4.74	4.66	4.79	4.66	2.8
North Dakota						
Btu	7,221	7,218	7,265	7,228	7,227	s
Sulfur	0.91	0.90	0.90	0.93	0.94	-0.6
Ash	6.86	6.62	6.69	6.74	6.73	0.2
South Dakota						
Btu	8,140	8,259	9,793	8,189	8,512	-3.8
Sulfur	0.37	0.40	0.48	0.45	0.46	-3.2
Ash	5.13	5.19	5.69	5.56	5.64	-1.4
South Atlantic						
Btu	13,426	13,314	13,170	13,341	13,145	1.5
Sulfur	1.12	1.16	1.17	1.15	1.15	-0.4
Ash	9.14	9.63	9.67	9.17	9.64	-4.9
Florida						
Btu	12,977	13,095	12,956	13,085	13,008	0.6
Sulfur	1.35	1.23	1.00	1.15	0.99	16.7
Ash	7.88	7.22	6.62	6.59	7.32	-10.0
Georgia						
Btu	12,673	12,920	13,230	12,859	13,092	-1.8
Sulfur	0.97	0.95	1.17	0.98	1.13	-13.5
Ash	9.66	8.64	10.63	8.94	9.07	-1.5
Maryland						
Btu	11,028	10,868	11,058	10,926	11,034	-1.0
Sulfur	1.78	1.78	1.77	1.82	1.87	-2.4
Ash	21.34	24.37	22.96	23.19	23.15	0.2
North Carolina						
Btu	13,581	13,226	13,054	13,227	12,979	1.9
Sulfur	0.88	0.94	0.94	0.93	0.93	-0.4
Ash	7.34	7.28	6.50	7.23	6.81	6.1
South Carolina						
Btu	13,833	12,804	13,086	13,173	12,881	2.3
Sulfur	0.94	1.15	0.85	0.92	0.90	1.5
Ash	6.36	9.78	7.14	7.68	6.66	15.2
Virginia						
Btu	14,007	14,061	13,924	14,014	13,908	0.8
Sulfur	0.94	0.96	1.11	1.01	1.09	-7.7
Ash	7.17	7.05	7.37	7.18	7.69	-6.6
West Virginia						
Btu	14,141	14,018	13,416	13,946	13,438	3.8
Sulfur	1.19	1.30	1.16	1.23	1.10	11.4
Ash	7.00	7.70	8.56	7.60	8.65	-12.1
East South Central						
Btu	13,390	13,353	13,453	13,417	13,314	0.8
Sulfur	1.14	1.14	1.14	1.13	1.16	-2.6
Ash	7.59	7.85	7.21	7.49	7.55	-0.9
Alabama						
Btu	13,672	13,615	13,807	13,703	13,611	0.7
Sulfur	0.99	0.99	0.93	0.98	1.00	-2.3
Ash	7.93	8.21	7.39	7.74	7.75	-0.1
Kentucky						
Btu	12,884	13,040	13,468	13,076	13,236	-1.2
Sulfur	1.13	1.14	1.01	1.12	1.02	10.3
Ash	7.45	7.48	6.25	7.25	6.65	9.1

Census Division and State ¹	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Mississippi						
Btu	-	-	11,584	-	11,565	-
Sulfur	-	-	2.16	-	2.24	-
Ash	-	-	7.68	-	7.82	-
Tennessee						
Btu	13,260	13,204	13,183	13,205	13,096	0.8
Sulfur	1.35	1.30	1.36	1.32	1.36	-2.3
Ash	7.17	7.63	7.45	7.26	7.73	-6.0
West South Central						
Btu	9,809	9,670	10,264	9,834	10,159	-3.2
Sulfur	0.54	0.65	0.59	0.61	0.61	-0.2
Ash	8.11	8.82	8.02	8.29	7.89	5.2
Arkansas						
Btu	12,091	12,148	11,845	12,039	11,874	1.4
Sulfur	0.93	2.00	1.51	1.40	1.49	-5.7
Ash	10.04	11.17	10.93	10.77	10.87	-1.0
Louisiana						
Btu	7,753	7,591	7,713	7,681	7,777	-1.2
Sulfur	0.75	0.66	0.70	0.67	0.77	-12.6
Ash	6.36	8.94	7.15	7.12	6.74	5.6
Oklahoma						
Btu	9,459	9,699	9,402	9,568	9,574	-0.1
Sulfur	0.30	0.37	0.38	0.35	0.39	-10.1
Ash	4.63	5.15	5.68	5.05	5.60	-9.8
Texas						
Btu	10,023	9,996	11,049	10,259	10,733	-4.4
Sulfur	0.56	0.54	0.52	0.55	0.54	1.7
Ash	11.02	10.69	9.17	10.55	9.02	17.0
Mountain						
Btu	10,470	10,718	10,373	10,582	10,563	0.2
Sulfur	0.50	0.57	0.58	0.57	0.59	-3.8
Ash	6.62	7.64	6.91	7.21	7.17	0.5
Arizona						
Btu	11,726	11,497	11,617	11,646	11,574	0.6
Sulfur	0.61	0.62	0.66	0.69	0.67	3.3
Ash	11.05	12.08	10.91	11.41	10.87	4.9
Colorado						
Btu	11,697	11,709	11,027	11,516	11,352	1.5
Sulfur	0.44	0.54	0.52	0.50	0.58	-13.2
Ash	7.37	8.83	7.27	8.17	6.96	17.4
Idaho						
Btu	11,778	11,595	10,260	11,338	11,053	2.6
Sulfur	0.56	0.53	0.68	0.55	0.66	-16.8
Ash	5.91	12.16	5.15	10.81	7.40	46.1
Montana						
Btu	8,664	9,596	8,576	8,942	8,919	0.3
Sulfur	0.33	0.34	0.35	0.33	0.35	-6.6
Ash	5.39	4.78	5.37	5.15	5.15	s
Nevada						
Btu	11,231	11,268	11,439	11,289	11,336	-0.4
Sulfur	0.44	0.40	0.46	0.43	0.48	-9.1
Ash	8.75	8.87	9.77	9.00	9.89	-9.0
New Mexico						
Btu	12,424	12,245	12,283	12,308	12,328	-0.2
Sulfur	0.76	0.68	0.68	0.72	0.75	-4.9
Ash	9.78	10.21	9.34	9.95	9.28	7.2
Utah						
Btu	11,469	11,365	11,499	11,426	11,426	s
Sulfur	0.53	0.50	0.58	0.52	0.54	-2.6
Ash	10.75	10.08	10.84	10.49	10.56	-0.6
Wyoming						
Btu	10,047	9,877	9,855	9,928	9,805	1.3
Sulfur	0.55	0.68	0.67	0.64	0.64	-0.4
Ash	4.56	4.94	4.84	4.76	4.86	-2.0

Census Division and State ¹	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Pacific						
Btu	11,360	11,429	11,397	11,427	11,476	-0.4
Sulfur	0.54	0.59	0.56	0.58	0.57	1.7
Ash	9.80	10.69	10.22	10.20	10.24	-0.4
California						
Btu	11,488	11,543	11,512	11,570	11,604	-0.3
Sulfur	0.56	0.60	0.59	0.60	0.59	1.2
Ash	10.18	11.07	10.67	10.62	10.67	-0.6
Hawaii						
Btu	-	-	11,290	-	11,290	-
Sulfur	-	-	0.46	-	0.46	-
Ash	-	-	9.81	-	9.81	-
Oregon						
Btu	11,670	11,438	11,849	11,522	11,760	-2.0
Sulfur	0.51	0.52	0.52	0.52	0.52	0.7
Ash	9.78	10.66	9.60	10.87	10.14	7.2
Washington						
Btu	9,401	9,484	9,411	9,390	9,407	-0.2
Sulfur	0.32	0.29	0.35	0.33	0.34	-3.8
Ash	4.14	4.16	4.20	4.20	4.23	-0.7
U.S. Total						
Btu	11,633	11,839	11,704	11,741	11,845	-0.9
Sulfur	0.98	1.01	1.06	1.02	1.05	-2.5
Ash	7.48	7.69	7.60	7.46	7.59	-1.8

1 Quality units are Btu (per pound); sulfur (percent by weight); and ash (percent by weight).

- = No data reported.

s = Absolute percentage less than 0.05.

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

Table 44. Average Quality of Coal Received at Commercial and Institutional Users by Census Division and State

Census Division and State ¹	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
Middle Atlantic						
Btu	13,049	14,746	13,024	13,069	13,136	-0.5
Sulfur	0.74	1.00	0.85	0.83	0.91	-9.0
Ash	8.19	5.47	8.68	8.26	8.61	-4.0
Pennsylvania						
Btu	13,049	14,746	13,024	13,069	13,136	-0.5
Sulfur	0.74	1.00	0.85	0.83	0.91	-9.0
Ash	8.19	5.47	8.68	8.26	8.61	-4.0
East North Central						
Btu	11,702	11,365	11,978	11,790	12,079	-2.4
Sulfur	2.62	3.01	2.36	2.58	2.32	10.8
Ash	8.78	9.33	8.56	8.69	8.32	4.5
Illinois						
Btu	11,185	11,107	11,117	11,221	11,106	1.0
Sulfur	3.15	3.31	3.28	3.21	3.22	-0.4
Ash	9.47	9.70	9.67	9.43	9.61	-1.9
Indiana						
Btu	11,395	11,494	11,142	11,359	11,170	1.7
Sulfur	2.98	2.84	3.15	2.95	3.09	-4.6
Ash	9.10	9.23	9.61	9.30	9.76	-4.6
Michigan						
Btu	-	-	-	-	12,374	-
Sulfur	-	-	-	-	2.56	-
Ash	-	-	-	-	8.53	-
Ohio						
Btu	13,392	13,453	13,484	13,507	13,411	0.7
Sulfur	0.86	0.92	0.86	0.88	1.07	-17.2
Ash	5.77	5.43	6.42	5.70	6.17	-7.5
Wisconsin						
Btu	13,375	-	13,375	13,375	13,391	-0.1
Sulfur	0.78	-	0.78	0.78	0.75	3.6
Ash	7.65	-	7.65	7.65	6.69	14.4
West North Central						
Btu	10,574	11,253	10,491	10,663	10,645	0.2
Sulfur	2.24	2.49	1.90	2.16	1.99	8.3
Ash	8.89	8.62	8.74	8.71	8.79	-0.9
Iowa						
Btu	11,578	11,619	11,400	11,447	11,370	0.7
Sulfur	2.84	2.57	2.28	2.60	2.36	10.2
Ash	8.38	8.52	8.54	8.57	8.76	-2.2
Minnesota						
Btu	9,307	9,222	8,968	8,981	8,967	0.2
Sulfur	0.27	0.30	0.22	0.22	0.19	16.6
Ash	3.78	4.18	5.24	5.31	4.29	23.8
Missouri						
Btu	11,332	11,366	11,342	11,333	11,350	-0.1
Sulfur	3.07	3.12	2.97	3.03	3.02	0.4
Ash	8.31	8.53	8.50	8.48	8.59	-1.3
North Dakota						
Btu	8,464	8,700	8,584	8,569	8,594	-0.3
Sulfur	0.60	0.66	0.59	0.64	0.49	30.9
Ash	10.53	9.55	9.65	9.75	9.67	0.9
South Atlantic						
Btu	12,936	13,225	13,265	13,179	13,299	-0.9
Sulfur	1.54	1.41	1.44	1.48	1.22	20.5
Ash	9.56	10.39	8.81	9.51	8.65	9.9
District of Columbia						
Btu	-	-	13,073	13,260	13,073	1.4
Sulfur	-	-	0.50	0.51	0.50	2.0
Ash	-	-	6.96	6.64	6.96	-4.6

Census Division and State ¹	October - December 2016	July - September 2016	October - December 2015	Year to Date		Percent Change
				2016	2015	
North Carolina						
Btu	12,955	13,199	13,303	13,200	13,326	-0.9
Sulfur	1.74	1.52	1.74	1.63	1.35	20.4
Ash	9.77	9.33	8.58	8.87	8.36	6.1
Virginia						
Btu	12,882	13,290	13,202	13,114	13,222	-0.8
Sulfur	0.98	1.12	0.88	1.08	0.83	29.8
Ash	8.93	13.08	9.55	11.45	9.65	18.6
East South Central						
Btu	12,871	13,007	13,226	13,205	13,130	0.6
Sulfur	0.79	0.77	0.77	0.71	0.81	-12.1
Ash	7.12	6.46	5.05	6.03	6.60	-8.7
Kentucky						
Btu	12,871	13,007	13,226	13,205	13,205	s
Sulfur	0.79	0.77	0.77	0.71	0.70	1.1
Ash	7.12	6.46	5.05	6.03	5.97	1.0
Tennessee						
Btu	-	-	-	-	12,878	-
Sulfur	-	-	-	-	1.16	-
Ash	-	-	-	-	8.72	-
West South Central						
Btu	-	-	-	-	13,308	-
Sulfur	-	-	-	-	0.66	-
Ash	-	-	-	-	8.04	-
Texas						
Btu	-	-	-	-	13,308	-
Sulfur	-	-	-	-	0.66	-
Ash	-	-	-	-	8.04	-
Mountain						
Btu	11,481	12,000	9,947	10,788	10,857	-0.6
Sulfur	0.44	0.42	0.43	0.42	0.44	-4.4
Ash	9.20	8.66	11.68	7.88	8.96	-12.0
Colorado						
Btu	11,924	-	11,385	11,924	11,552	3.2
Sulfur	0.31	-	0.46	0.31	0.45	-31.3
Ash	8.86	-	9.33	8.86	9.13	-2.9
Montana						
Btu	10,800	12,000	10,800	11,193	10,800	3.6
Sulfur	0.48	0.42	0.50	0.46	0.50	-7.9
Ash	8.42	8.66	6.92	8.50	6.92	22.8
Wyoming						
Btu	11,520	-	9,264	10,497	10,586	-0.8
Sulfur	0.48	-	0.39	0.44	0.44	s
Ash	9.57	-	14.02	7.57	9.02	-16.0
Pacific						
Btu	7,562	7,490	7,562	7,556	7,593	-0.5
Sulfur	0.16	0.19	0.15	0.15	0.17	-9.2
Ash	8.01	7.46	6.70	6.78	7.61	-11.0
Alaska						
Btu	7,562	7,490	7,562	7,556	7,593	-0.5
Sulfur	0.16	0.19	0.15	0.15	0.17	-9.2
Ash	8.01	7.46	6.70	6.78	7.61	-11.0
U.S. Total						
Btu	9,982	9,815	10,192	10,039	10,350	-3.0
Sulfur	1.34	1.30	1.16	1.26	1.19	5.6
Ash	8.58	8.45	7.93	7.96	8.21	-3.1

1 Quality units are Btu (per pound); sulfur (percent by weight); and ash (percent by weight).

- = No data reported.

s = Absolute percentage less than 0.05.

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.'