



Independent Statistics & Analysis
U.S. Energy Information
Administration

Quarterly Coal Report January – March 2017

June 2017



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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 first quarter 2017 QCR includes detailed quarterly coal data for January – March 2017 and aggregated quarterly historical coal data for 2010 through first quarter 2017.

All data for 2015 and prior years are final. All data for 2016 and 2017 are preliminary.

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Table ES-1. U.S. Coal Summary Statistics, 2011 - 2017

(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
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*	165,938	14,153	198,446	-
April - June	160,515	2,292	1,898	37,127*	159,952	14,223	189,212	-
July - September	195,140	2,733	2,397	33,574*	223,065	12,552	163,977	-
October - December	199,550	2,127	1,953	33,699*	180,647	19,343	169,617	-
Total	728,232	9,850	8,727		729,602	60,271		-7,950
2017								
January - March	197,033	1,915	2,402	34,719*	173,524	22,307	168,842	-
Total	197,033	1,915	2,402		173,524	22,307		5,274
2016 January - March	173,028	2,698	2,478		165,938	14,153		-
2015 January - March	240,324	3,009	2,821		212,772	21,979		-

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, 2011 - 2017

(thousand short tons)

Year and Quarter	Production	Imports	Producer and Distributor Stocks¹	Consumption²	Exports
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
2017					
January - March	3,027	1	448	2,918	242
Total	3,027	1		2,918	242
2016 January - March	2,950	4		2,757	72
2015 January - March	3,611	3		3,204	163

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.'

Production

Table 1. U.S. Coal Production, 2011 - 2017

(thousand short tons)

Year	January - March	April - June	July - September	October - December	Total
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
2017	197,033	-	-	-	197,033

- = No data reported.

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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Alabama	3,273	2,567	2,446	3,273	2,446	33.8
Alaska	259	211	310	259	310	-16.3
Arizona	1,667	1,384	1,335	1,667	1,335	24.9
Arkansas	10	1	11	10	11	-10.5
Colorado	3,784	4,012	2,482	3,784	2,482	52.4
Illinois	12,617	10,971	11,312	12,617	11,312	11.5
Indiana	8,386	7,296	7,224	8,386	7,224	16.1
Kansas	-	-	27	-	27	-
Kentucky Total	11,422	11,209	11,346	11,422	11,346	0.7
Eastern (Kentucky)	4,662	4,487	4,583	4,662	4,583	1.7
Western (Kentucky)	6,760	6,722	6,763	6,760	6,763	-0.1
Louisiana	955	805	656	955	656	45.6
Maryland	380	491	360	380	360	5.5
Mississippi	740	751	770	740	770	-3.9
Missouri	59	60	41	59	41	43.5
Montana	7,243	9,398	7,429	7,243	7,429	-2.5
New Mexico	3,744	3,691	4,295	3,744	4,295	-12.8
North Dakota	7,234	7,455	7,209	7,234	7,209	0.3
Ohio	2,269	2,466	3,895	2,269	3,895	-41.7
Oklahoma	121	160	167	121	167	-27.6
Pennsylvania Total	12,575	12,869	10,325	12,575	10,325	21.8
Anthracite (Pennsylvania)	502	421	424	502	424	18.4
Bituminous (Pennsylvania)	12,074	12,447	9,901	12,074	9,901	21.9
Tennessee	152	133	231	152	231	-34.3
Texas	8,737	10,284	9,917	8,737	9,917	-11.9
Utah	3,523	3,673	3,363	3,523	3,363	4.8
Virginia	3,575	3,328	3,097	3,575	3,097	15.4
West Virginia Total	23,684	21,166	19,260	23,684	19,260	23.0
Northern (West Virginia)	12,667	11,503	10,286	12,667	10,286	23.1
Southern (West Virginia)	11,018	9,663	8,975	11,018	8,975	22.8
Wyoming	80,374	84,943	65,407	80,374	65,407	22.9
Appalachia Total	50,570	47,506	44,197	50,570	44,197	14.4
Appalachia Central	19,407	17,611	16,886	19,407	16,886	14.9
Appalachia Northern	27,891	27,329	24,865	27,891	24,865	12.2
Appalachia Southern	3,273	2,567	2,446	3,273	2,446	33.8
Interior Region Total	38,386	37,049	36,889	38,386	36,889	4.1
Illinois Basin	27,763	24,988	25,299	27,763	25,299	9.7
Interior	10,623	12,061	11,590	10,623	11,590	-8.3
Western Region Total	107,828	114,768	91,829	107,828	91,829	17.4
Powder River Basin	83,926	90,512	69,072	83,926	69,072	21.5
Uinta Region	6,990	7,287	5,561	6,990	5,561	25.7
Western	16,912	16,969	17,196	16,912	17,196	-1.7
East of Mississippi River	79,073	73,245	70,267	79,073	70,267	12.5
West of Mississippi River	117,711	126,077	102,649	117,711	102,649	14.7
U.S. Subtotal	196,784	199,322	172,915	196,784	172,915	13.8
Refuse Recovery	249	227	112	249	112	121.5
U.S. Total	197,033	199,550	173,028	197,033	173,028	13.9

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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Middle Atlantic	988	874	883	988	883	12.0
East North Central	1,618	1,682	1,669	1,618	1,669	-3.1
South Atlantic	303	318	301	303	301	0.5
East South Central	257	268	229	257	229	12.6
U.S. Total	3,167	3,142	3,082	3,167	3,082	2.7
Coke Total	3,027	2,992	2,950	3,027	2,950	2.6
Breeze Total	140	150	133	140	133	5.3

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, 2011 - 2017

(thousand short tons)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
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
2017	22,307	1,915	-	-	-	-	-	-	22,307	1,915

- = No data reported.

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, 2011 - 2017

(dollars per short ton)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
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
2017	110.44	74.81	-	-	-	-	-	-	110.44	74.81

- = No data reported.

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, 2011 - 2017

(short tons and dollars per short ton)

Year and Quarter	Australia	Canada	Colombia	Indonesia	China	Venezuela	Other Countries	Total
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	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
2017								
January - March	-	204,185	1,649,757	58,863	1,202	-	1,047	1,915,054
U.S. Total	-	204,185	1,649,757	58,863	1,202	-	1,047	1,915,054
Average Price (dollars per short ton)								
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	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
2017								
January - March	-	150.23	65.70	66.51	155.91	-	85.19	74.81
U.S. Total	-	150.23	65.70	66.51	155.91	-	85.19	74.81

- = 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
North America Total	1,953,551	2,806,165	1,373,100	1,953,551	1,373,100	42.3
Canada*	641,424	1,652,537	608,869	641,424	608,869	5.3
Guatemala	183,432	85,616	-	183,432	-	-
Honduras	35,825	70,535	35,825	35,825	35,825	s
Jamaica	66,218	36,434	36,375	66,218	36,375	82.0
Mexico	875,567	936,386	691,800	875,567	691,800	26.6
Other**	151,085	24,657	231	151,085	231	NM
South America Total	2,003,437	2,090,501	1,973,885	2,003,437	1,973,885	1.5
Argentina	104,731	-	-	104,731	-	-
Brazil	1,709,521	1,968,055	1,858,826	1,709,521	1,858,826	-8.0
Chile	188,973	66,528	419	188,973	419	NM
Peru	106	55,275	114,178	106	114,178	-99.9
Other**	106	643	462	106	462	-77.1
Europe Total	11,004,720	8,074,005	6,216,821	11,004,720	6,216,821	77.0
Austria	184,855	109,129	206,234	184,855	206,234	-10.4
Belgium	438,522	295,620	264,275	438,522	264,275	65.9
Croatia	495,787	302,348	202,475	495,787	202,475	144.9
Denmark (Except Greenland)	-	-	60,598	-	60,598	-
Finland	-	121,053	75,352	-	75,352	-
France	714,086	467,054	227,174	714,086	227,174	214.3
Germany, Federal Republic of	1,219,236	1,015,920	629,248	1,219,236	629,248	93.8
Italy	824,538	577,058	485,023	824,538	485,023	70.0
Netherlands	3,281,213	3,213,076	2,544,009	3,281,213	2,544,009	29.0
Norway	20,481	16,097	20,783	20,481	20,783	-1.5
Poland	209,201	60,465	27,557	209,201	27,557	NM
Portugal	175,738	93,720	-	175,738	-	-
Romania	51,159	58,829	22,931	51,159	22,931	123.1
Spain	373,346	469,960	485,502	373,346	485,502	-23.1
Sweden	118,725	105,470	-	118,725	-	-
Turkey	653,606	349,042	297,015	653,606	297,015	120.1
Ukraine	865,732	498,974	355,136	865,732	355,136	143.8
United Kingdom	1,164,011	319,736	304,456	1,164,011	304,456	282.3
Other**	214,484	454	9,053	214,484	9,053	NM
Asia Total	6,378,983	6,011,168	4,079,826	6,378,983	4,079,826	56.4
China	735,844	790,945	123,845	735,844	123,845	494.2
India	1,886,297	1,405,564	1,869,932	1,886,297	1,869,932	0.9
Japan	1,623,872	1,789,885	979,630	1,623,872	979,630	65.8
Singapore	15,300	57,428	-	15,300	-	-
South Korea (Republic of Korea)	2,114,422	1,867,917	1,104,643	2,114,422	1,104,643	91.4
Taiwan	944	98,272	86	944	86	NM
Other**	2,304	1,157	1,690	2,304	1,690	36.3
Australia and Oceania Total	47,855	62	21	47,855	21	NM
Other**	47,855	62	21	47,855	21	NM
Africa Total	918,359	360,780	509,368	918,359	509,368	80.3
Morocco	735,643	360,514	433,914	735,643	433,914	69.5
South Africa	22	156	75,310	22	75,310	-100.0
Other**	182,694	110	144	182,694	144	NM
Total	22,306,905	19,342,681	14,153,021	22,306,905	14,153,021	57.6

* 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 2016.

- = No data reported.

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

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 EM 545.'

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

(dollars per short ton)

Continent and Country of Destination	January - March 2017	October - December 2016	Year to Date		Percent Change	
			January - March 2016	2017		
North America Total	74.30	67.55	62.62	74.30	62.62	18.7
Canada*	86.45	80.81	87.37	86.45	87.37	-1.1
Guatemala	73.15	60.21	-	73.15	-	-
Honduras	72.58	60.33	78.02	72.58	78.02	-7.0
Jamaica	37.29	39.01	38.10	37.29	38.10	-2.1
Mexico	69.38	46.22	41.25	69.38	41.25	68.2
Other**	69.25	77.32	310.52	69.25	310.52	-77.7
South America Total	141.06	119.12	64.14	141.06	64.14	119.9
Argentina	161.63	-	-	161.63	-	-
Brazil	151.14	122.75	64.88	151.14	64.88	133.0
Chile	37.86	40.38	439.62	37.86	439.62	-91.4
Peru	372.96	82.12	49.72	372.96	49.72	NM
Other**	941.80	312.05	305.00	941.80	305.00	208.8
Europe Total	114.00	91.78	64.27	114.00	64.27	77.4
Austria	247.70	181.36	76.39	247.70	76.39	224.3
Belgium	115.38	139.82	77.87	115.38	77.87	48.2
Croatia	162.16	115.39	70.61	162.16	70.61	129.7
Denmark (Except Greenland)	-	-	30.84	-	30.84	-
Finland	-	132.19	80.41	-	80.41	-
France	120.03	114.32	70.93	120.03	70.93	69.2
Germany, Federal Republic of	104.03	83.41	60.50	104.03	60.50	72.0
Italy	134.08	146.58	83.25	134.08	83.25	61.1
Netherlands	67.62	59.93	52.45	67.62	52.45	28.9
Norway	125.51	140.97	145.78	125.51	145.78	-13.9
Poland	154.61	133.80	74.84	154.61	74.84	106.6
Portugal	35.36	32.84	-	35.36	-	-
Romania	145.72	152.75	61.45	145.72	61.45	137.1
Spain	134.74	63.68	72.19	134.74	72.19	86.6
Sweden	165.64	77.42	-	165.64	-	-
Turkey	182.00	112.34	62.36	182.00	62.36	191.9
Ukraine	206.15	180.73	71.07	206.15	71.07	190.1
United Kingdom	78.09	74.43	86.21	78.09	86.21	-9.4
Other**	120.58	87.28	157.92	120.58	157.92	-23.6
Asia Total	110.41	97.31	57.31	110.41	57.31	92.7
China	121.83	133.28	102.91	121.83	102.91	18.4
India	124.90	88.56	45.39	124.90	45.39	175.2
Japan	109.00	105.66	70.42	109.00	70.42	54.8
Singapore	175.25	175.16	-	175.25	-	-
South Korea (Republic of Korea)	93.99	81.51	60.12	93.99	60.12	56.3
Taiwan	85.95	32.15	473.95	85.95	473.95	-81.9
Other**	254.22	388.72	448.70	254.22	448.70	-43.3
Australia and Oceania Total	170.20	368.73	447.00	170.20	447.00	-61.9
Other**	170.20	368.73	447.00	170.20	447.00	-61.9
Africa Total	74.99	72.22	45.54	74.99	45.54	64.7
Morocco	66.36	71.96	39.92	66.36	39.92	66.2
South Africa	553.55	546.45	77.59	553.55	77.59	NM
Other**	109.71	265.09	219.44	109.71	219.44	-50.0
Total	110.44	92.57	61.41	110.44	61.41	79.8

* 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 2016.

- = 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.

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

Table 9. U.S. Steam Coal Exports

(short tons)

Continent and Country of Destination	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
North America Total	1,252,376	1,287,816	787,098	1,252,376	787,098	59.1
Canada*	278,595	243,660	167,947	278,595	167,947	65.9
Guatemala	183,432	85,616	-	183,432	-	-
Honduras	35,825	70,535	-	35,825	-	-
Jamaica	66,218	36,434	36,375	66,218	36,375	82.0
Mexico	651,496	826,914	582,545	651,496	582,545	11.8
Other**	36,810	24,657	231	36,810	231	NM
South America Total	201,020	222,247	115,410	201,020	115,410	74.2
Brazil	11,835	99,801	351	11,835	351	NM
Chile	188,973	66,528	419	188,973	419	NM
Peru	106	55,275	114,178	106	114,178	-99.9
Other**	106	643	462	106	462	-77.1
Europe Total	5,108,377	3,433,064	1,888,141	5,108,377	1,888,141	170.6
Austria	846	-	277	846	277	205.4
Belgium	-	59	-	-	-	-
Denmark (Except Greenland)	-	-	60,598	-	60,598	-
France	412,463	194,448	-	412,463	-	-
Germany, Federal Republic of	630,211	491,098	394,780	630,211	394,780	59.6
Italy	245,749	71,714	37,555	245,749	37,555	NM
Netherlands	2,530,196	2,192,554	1,351,286	2,530,196	1,351,286	87.2
Norway	-	-	42	-	42	-
Poland	23,831	-	-	23,831	-	-
Portugal	90,941	-	-	90,941	-	-
Spain	182,220	204,906	42,912	182,220	42,912	324.6
Sweden	228	-	-	228	-	-
Turkey	160,122	137,085	91	160,122	91	NM
Ukraine	-	19,990	-	-	-	-
United Kingdom	818,872	120,756	165	818,872	165	NM
Other**	12,698	454	435	12,698	435	NM
Asia Total	3,101,201	2,622,577	1,063,670	3,101,201	1,063,670	191.6
China	173,013	274,338	674	173,013	674	NM
India	1,137,416	978,861	679,742	1,137,416	679,742	67.3
Japan	613,458	290,520	119,794	613,458	119,794	412.1
Singapore	-	23	-	-	-	-
South Korea (Republic of Korea)	1,174,371	979,406	261,831	1,174,371	261,831	348.5
Taiwan	944	98,272	86	944	86	NM
Other**	1,999	1,157	1,543	1,999	1,543	29.6
Australia and Oceania Total	442	62	-	442	-	-
Other**	442	62	-	442	-	-
Africa Total	472,544	137,233	145,509	472,544	145,509	224.8
Morocco	472,438	136,967	145,329	472,438	145,329	225.1
South Africa	22	156	36	22	36	-38.9
Other**	84	110	144	84	144	-41.7
Total	10,135,960	7,702,999	3,999,828	10,135,960	3,999,828	153.4

* 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 2016.

- = 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	January - March 2017	October - December 2016	Year to Date		Percent Change	
			January - March 2016	2017		
North America Total	58.65	49.11	40.85	58.65	40.85	43.6
Canada*	84.18	74.77	85.43	84.18	85.43	-1.5
Guatemala	73.15	60.21	-	73.15	-	-
Honduras	72.58	60.33	-	72.58	-	-
Jamaica	37.29	39.01	38.10	37.29	38.10	-2.1
Mexico	45.44	39.05	28.06	45.44	28.06	61.9
Other**	51.82	77.32	310.52	51.82	310.52	-83.3
South America Total	43.58	69.53	53.07	43.58	53.07	-17.9
Brazil	123.89	80.43	349.76	123.89	349.76	-64.6
Chile	37.86	40.38	439.62	37.86	439.62	-91.4
Peru	372.96	82.12	49.72	372.96	49.72	NM
Other**	941.80	312.05	305.00	941.80	305.00	208.8
Europe Total	63.54	55.03	43.66	63.54	43.66	45.5
Austria	24.52	-	37.44	24.52	37.44	-34.5
Belgium	-	349.80	-	-	-	-
Denmark (Except Greenland)	-	-	30.84	-	30.84	-
France	74.50	77.03	-	74.50	-	-
Germany, Federal Republic of	55.78	49.11	53.34	55.78	53.34	4.6
Italy	69.51	89.19	68.59	69.51	68.59	1.3
Netherlands	58.41	50.63	40.52	58.41	40.52	44.2
Norway	-	-	2,575.24	-	2,575.24	-
Poland	161.87	-	-	161.87	-	-
Portugal	31.80	-	-	31.80	-	-
Spain	64.05	51.25	40.11	64.05	40.11	59.7
Sweden	74.56	-	-	74.56	-	-
Turkey	169.90	108.71	567.51	169.90	567.51	-70.1
Ukraine	-	158.50	-	-	-	-
United Kingdom	57.31	31.24	1,153.84	57.31	1,153.84	-95.0
Other**	96.23	87.28	242.28	96.23	242.28	-60.3
Asia Total	53.36	53.24	45.67	53.36	45.67	16.8
China	33.24	87.56	532.88	33.24	532.88	-93.8
India	59.12	54.27	39.41	59.12	39.41	50.0
Japan	70.30	83.36	43.36	70.30	43.36	62.1
Singapore	-	361.74	-	-	-	-
South Korea (Republic of Korea)	41.49	35.38	59.00	41.49	59.00	-29.7
Taiwan	85.95	32.15	473.95	85.95	473.95	-81.9
Other**	277.77	388.72	481.59	277.77	481.59	-42.3
Australia and Oceania Total	376.06	368.73	-	376.06	-	-
Other**	376.06	368.73	-	376.06	-	-
Africa Total	62.45	66.11	39.99	62.45	39.99	56.2
Morocco	62.21	65.40	39.67	62.21	39.67	56.8
South Africa	553.55	546.45	608.08	553.55	608.08	-9.0
Other**	1,255.74	265.09	219.44	1,255.74	219.44	472.2
Total	59.39	54.05	43.78	59.39	43.78	35.7

* 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 2016.

- = 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
North America Total	701,175	1,518,349	586,002	701,175	586,002	19.7
Canada*	362,829	1,408,877	440,922	362,829	440,922	-17.7
Honduras	-	-	35,825	-	35,825	-
Mexico	224,071	109,472	109,255	224,071	109,255	105.1
Other**	114,275	-	-	114,275	-	-
South America Total	1,802,417	1,868,254	1,858,475	1,802,417	1,858,475	-3.0
Argentina	104,731	-	-	104,731	-	-
Brazil	1,697,686	1,868,254	1,858,475	1,697,686	1,858,475	-8.7
Europe Total	5,896,343	4,640,941	4,328,680	5,896,343	4,328,680	36.2
Austria	184,009	109,129	205,957	184,009	205,957	-10.7
Belgium	438,522	295,561	264,275	438,522	264,275	65.9
Croatia	495,787	302,348	202,475	495,787	202,475	144.9
Finland	-	121,053	75,352	-	75,352	-
France	301,623	272,606	227,174	301,623	227,174	32.8
Germany, Federal Republic of	589,025	524,822	234,468	589,025	234,468	151.2
Italy	578,789	505,344	447,468	578,789	447,468	29.3
Netherlands	751,017	1,020,522	1,192,723	751,017	1,192,723	-37.0
Norway	20,481	16,097	20,741	20,481	20,741	-1.3
Poland	185,370	60,465	27,557	185,370	27,557	NM
Portugal	84,797	93,720	-	84,797	-	-
Romania	51,159	58,829	22,931	51,159	22,931	123.1
Spain	191,126	265,054	442,590	191,126	442,590	-56.8
Sweden	118,497	105,470	-	118,497	-	-
Turkey	493,484	211,957	296,924	493,484	296,924	66.2
Ukraine	865,732	478,984	355,136	865,732	355,136	143.8
United Kingdom	345,139	198,980	304,291	345,139	304,291	13.4
Other**	201,786	-	8,618	201,786	8,618	NM
Asia Total	3,277,782	3,388,591	3,016,156	3,277,782	3,016,156	8.7
China	562,831	516,607	123,171	562,831	123,171	357.0
India	748,881	426,703	1,190,190	748,881	1,190,190	-37.1
Japan	1,010,414	1,499,365	859,836	1,010,414	859,836	17.5
Singapore	15,300	57,405	-	15,300	-	-
South Korea (Republic of Korea)	940,051	888,511	842,812	940,051	842,812	11.5
Other**	305	-	147	305	147	107.5
Australia and Oceania Total	47,413	-	21	47,413	21	NM
Other**	47,413	-	21	47,413	21	NM
Africa Total	445,815	223,547	363,859	445,815	363,859	22.5
Morocco	263,205	223,547	288,585	263,205	288,585	-8.8
South Africa	-	-	75,274	-	75,274	-
Other**	182,610	-	-	182,610	-	-
Total	12,170,945	11,639,682	10,153,193	12,170,945	10,153,193	19.9

* 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 2016.

- = 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 12. Average Price of U.S. Metallurgical Coal Exports

(dollars per short ton)

Continent and Country of Destination	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
North America Total	102.24	83.19	91.86	102.24	91.86	11.3
Canada*	88.18	81.86	88.10	88.18	88.10	0.1
Honduras	-	-	78.02	-	78.02	-
Mexico	138.98	100.33	111.56	138.98	111.56	24.6
Other**	74.87	-	-	74.87	-	-
South America Total	151.93	125.02	64.83	151.93	64.83	134.4
Argentina	161.63	-	-	161.63	-	-
Brazil	151.33	125.02	64.83	151.33	64.83	133.4
Europe Total	157.71	118.97	73.26	157.71	73.26	115.3
Austria	248.73	181.36	76.44	248.73	76.44	225.4
Belgium	115.38	139.78	77.87	115.38	77.87	48.2
Croatia	162.16	115.39	70.61	162.16	70.61	129.7
Finland	-	132.19	80.41	-	80.41	-
France	182.28	140.91	70.93	182.28	70.93	157.0
Germany, Federal Republic of	155.66	115.50	72.57	155.66	72.57	114.5
Italy	161.50	154.72	84.48	161.50	84.48	91.2
Netherlands	98.64	79.91	65.97	98.64	65.97	49.5
Norway	125.51	140.97	140.86	125.51	140.86	-10.9
Poland	153.68	133.80	74.84	153.68	74.84	105.3
Portugal	39.19	32.84	-	39.19	-	-
Romania	145.72	152.75	61.45	145.72	61.45	137.1
Spain	202.14	73.29	75.30	202.14	75.30	168.4
Sweden	165.82	77.42	-	165.82	-	-
Turkey	185.92	114.69	62.20	185.92	62.20	198.9
Ukraine	206.15	181.66	71.07	206.15	71.07	190.1
United Kingdom	127.38	100.64	85.64	127.38	85.64	48.7
Other**	122.11	-	153.67	122.11	153.67	-20.5
Asia Total	164.39	131.41	61.41	164.39	61.41	167.7
China	149.06	157.56	100.56	149.06	100.56	48.2
India	224.80	167.20	48.80	224.80	48.80	360.7
Japan	132.50	109.99	74.19	132.50	74.19	78.6
Singapore	175.25	175.09	-	175.25	-	-
South Korea (Republic of Korea)	159.58	132.35	60.47	159.58	60.47	163.9
Other**	99.85	-	103.40	99.85	103.40	-3.4
Australia and Oceania Total	168.28	-	447.00	168.28	447.00	-62.4
Other**	168.28	-	447.00	168.28	447.00	-62.4
Africa Total	88.29	75.98	47.76	88.29	47.76	84.9
Morocco	73.80	75.98	40.05	73.80	40.05	84.3
South Africa	-	-	77.34	-	77.34	-
Other**	109.19	-	-	109.19	-	-
Total	152.96	118.07	68.36	152.96	68.36	123.8

* 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 2016.

- = 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Eastern Total	13,049,746	11,920,824	9,472,145	13,049,746	9,472,145	37.8
Baltimore, MD	4,363,897	4,463,195	3,850,539	4,363,897	3,850,539	13.3
Buffalo, NY	99,715	516,940	3,381	99,715	3,381	NM
New York City, NY	6,158	4,168	1,567	6,158	1,567	293.0
Norfolk, VA	8,528,364	6,784,774	5,606,552	8,528,364	5,606,552	52.1
Ogdensburg, NY	9,577	64,712	9,780	9,577	9,780	-2.1
Philadelphia, PA	41,968	86,950	215	41,968	215	NM
St. Albans, VT	67	85	111	67	111	-39.6
Southern Total	6,684,180	4,703,640	3,837,952	6,684,180	3,837,952	74.2
Charleston, SC	253	97	259	253	259	-2.3
El Paso, TX	44,809	24,010	26,165	44,809	26,165	71.3
Houston-Galveston, TX	63,708	52,314	1,225	63,708	1,225	NM
Laredo, TX	570,065	529,461	556,409	570,065	556,409	2.5
Miami, FL	245	46	313	245	313	-21.7
Mobile, AL	2,233,856	1,550,483	1,857,059	2,233,856	1,857,059	20.3
New Orleans, LA	3,770,915	2,481,954	1,396,339	3,770,915	1,396,339	170.1
Port Arthur, TX	-	63,934	-	-	-	-
Savannah, GA	319	223	153	319	153	108.5
Tampa, FL	10	1,118	30	10	30	-66.7
Western Total	2,199,621	1,781,157	306,714	2,199,621	306,714	NM
Anchorage, AK	272	110	-	272	-	-
Great Falls, MT	54	279	35	54	35	54.3
Los Angeles, CA	371,563	231,144	73,001	371,563	73,001	409.0
Nogales, AZ	41	128	39	41	39	5.1
San Diego, CA	7	14	59	7	59	-88.1
San Francisco, CA	629,527	518,453	155,776	629,527	155,776	304.1
Seattle, WA	1,198,157	1,031,029	77,804	1,198,157	77,804	NM
Northern Total	364,263	927,953	529,080	364,263	529,080	-31.2
Chicago, IL	47	-	-	47	-	-
Cleveland, OH	262,953	835,934	415,262	262,953	415,262	-36.7
Detroit, MI	31,148	88,152	62,211	31,148	62,211	-49.9
Duluth, MN	1,858	2,910	-	1,858	-	-
Minneapolis, MN	62,162	-	51,216	62,162	51,216	21.4
Pembina, ND	6,095	957	391	6,095	391	NM
Other Ports	9,095	9,107	7,130	9,095	7,130	27.6
Total	22,306,905	19,342,681	14,153,021	22,306,905	14,153,021	57.6

-- 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Eastern Total	3,675,489	3,238,929	1,549,950	3,675,489	1,549,950	137.1
Baltimore, MD	2,132,913	2,220,349	859,720	2,132,913	859,720	148.1
Buffalo, NY	3,310	3,108	3,185	3,310	3,185	3.9
New York City, NY	6,158	4,168	1,567	6,158	1,567	293.0
Norfolk, VA	1,482,244	892,246	675,942	1,482,244	675,942	119.3
Ogdensburg, NY	8,829	32,023	9,210	8,829	9,210	-4.1
Philadelphia, PA	41,968	86,950	215	41,968	215	NM
St. Albans, VT	67	85	111	67	111	-39.6
Southern Total	4,153,220	2,608,209	2,119,752	4,153,220	2,119,752	95.9
Charleston, SC	1	97	112	1	112	-99.1
El Paso, TX	44,809	24,010	26,165	44,809	26,165	71.3
Houston-Galveston, TX	63,708	52,314	1,225	63,708	1,225	NM
Laredo, TX	538,562	529,116	556,282	538,562	556,282	-3.2
Miami, FL	245	46	313	245	313	-21.7
Mobile, AL	12,321	-	208,973	12,321	208,973	-94.1
New Orleans, LA	3,493,513	1,937,563	1,326,629	3,493,513	1,326,629	163.3
Port Arthur, TX	-	63,934	-	-	-	-
Savannah, GA	51	11	23	51	23	121.7
Tampa, FL	10	1,118	30	10	30	-66.7
Western Total	2,199,569	1,781,157	234,072	2,199,569	234,072	NM
Anchorage, AK	220	110	-	220	-	-
Great Falls, MT	54	279	35	54	35	54.3
Los Angeles, CA	371,563	231,144	359	371,563	359	NM
Nogales, AZ	41	128	39	41	39	5.1
San Diego, CA	7	14	59	7	59	-88.1
San Francisco, CA	629,527	518,453	155,776	629,527	155,776	304.1
Seattle, WA	1,198,157	1,031,029	77,804	1,198,157	77,804	NM
Northern Total	98,587	65,597	88,924	98,587	88,924	10.9
Chicago, IL	47	-	-	47	-	-
Cleveland, OH	73	27,541	-	73	-	-
Detroit, MI	28,352	34,189	37,317	28,352	37,317	-24.0
Duluth, MN	1,858	2,910	-	1,858	-	-
Minneapolis, MN	62,162	-	51,216	62,162	51,216	21.4
Pembina, ND	6,095	957	391	6,095	391	NM
Other Ports	9,095	9,107	7,130	9,095	7,130	27.6
Total	10,135,960	7,702,999	3,999,828	10,135,960	3,999,828	153.4

-- 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 EM 545.'

Table 15. Metallurgical Coal Exports by Customs District

(short tons)

Customs District	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Eastern Total	9,374,257	8,681,895	7,922,195	9,374,257	7,922,195	18.3
Baltimore, MD	2,230,984	2,242,846	2,990,819	2,230,984	2,990,819	-25.4
Buffalo, NY	96,405	513,832	196	96,405	196	NM
Norfolk, VA	7,046,120	5,892,528	4,930,610	7,046,120	4,930,610	42.9
Ogdensburg, NY	748	32,689	570	748	570	31.2
Southern Total	2,530,960	2,095,431	1,718,200	2,530,960	1,718,200	47.3
Charleston, SC	252	-	147	252	147	71.4
Laredo, TX	31,503	345	127	31,503	127	NM
Mobile, AL	2,221,535	1,550,483	1,648,086	2,221,535	1,648,086	34.8
New Orleans, LA	277,402	544,391	69,710	277,402	69,710	297.9
Savannah, GA	268	212	130	268	130	106.2
Western Total	52	-	72,642	52	72,642	-99.9
Anchorage, AK	52	-	-	52	-	-
Los Angeles, CA	-	-	72,642	-	72,642	-
Northern Total	265,676	862,356	440,156	265,676	440,156	-39.6
Cleveland, OH	262,880	808,393	415,262	262,880	415,262	-36.7
Detroit, MI	2,796	53,963	24,894	2,796	24,894	-88.8
Total	12,170,945	11,639,682	10,153,193	12,170,945	10,153,193	19.9

- = 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
North America Total	202,158	466,796	72,167	202,158	72,167	180.1
Canada*	159,867	247,481	57,410	159,867	57,410	178.5
Mexico	42,074	219,081	14,542	42,074	14,542	189.3
Other**	217	234	215	217	215	0.9
South America Total	20	-	21	20	21	-4.8
Other**	20	-	21	20	21	-4.8
Europe Total	171	92	-	171	-	-
Other**	171	92	-	171	-	-
Asia Total	20,993	87	209	20,993	209	NM
Other**	20,993	87	209	20,993	209	NM
Australia and Oceania Total	55	268	47	55	47	17.0
Other**	55	268	47	55	47	17.0
Africa Total	18,188	-	-	18,188	-	-
Other**	18,188	-	-	18,188	-	-
Total	241,585	467,243	72,444	241,585	72,444	233.5

* 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 2016.

- = 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 17. Average Price of U.S. Coke Exports

(dollars per short ton)

Continent and Country of Destination	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
North America Total	230.32	181.69	294.80	230.32	294.80	-21.9
Canada*	207.43	179.84	259.33	207.43	259.33	-20.0
Mexico	315.10	183.36	427.49	315.10	427.49	-26.3
Other**	647.20	568.95	791.78	647.20	791.78	-18.3
South America Total	526.20	-	501.14	526.20	501.14	5.0
Other**	526.20	-	501.14	526.20	501.14	5.0
Europe Total	481.61	488.74	-	481.61	-	-
Other**	481.61	488.74	-	481.61	-	-
Asia Total	144.43	671.06	789.56	144.43	789.56	-81.7
Other**	144.43	671.06	789.56	144.43	789.56	-81.7
Australia and Oceania Total	288.85	498.19	179.23	288.85	179.23	61.2
Other**	288.85	498.19	179.23	288.85	179.23	61.2
Africa Total	90.72	-	-	90.72	-	-
Other**	90.72	-	-	90.72	-	-
Total	212.56	182.02	296.22	212.56	296.22	-28.2

* 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 2016.

- = 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
North America Total	204,209	274,750	240,168	204,209	240,168	-15.0
Canada	204,185	274,726	239,440	204,185	239,440	-14.7
Mexico	24	24	728	24	728	-96.7
South America Total	1,649,786	1,536,043	2,196,295	1,649,786	2,196,295	-24.9
Colombia	1,649,757	1,536,013	2,190,869	1,649,757	2,190,869	-24.7
Peru	29	30	5,426	29	5,426	-99.5
Europe Total	724	36,552	-	724	-	-
Germany, Federal Republic of	724	166	-	724	-	-
Switzerland	-	36,386	-	-	-	-
Asia Total	60,335	251,474	201,683	60,335	201,683	-70.1
China	1,202	579	837	1,202	837	43.6
India	270	-	-	270	-	-
Indonesia	58,863	244,944	200,846	58,863	200,846	-70.7
Vietnam	-	5,951	-	-	-	-
Australia and Oceania Total	-	-	59,398	-	59,398	-
Australia	-	-	59,398	-	59,398	-
Africa Total	-	28,488	-	-	-	-
South Africa	-	28,488	-	-	-	-
Total	1,915,054	2,127,307	2,697,544	1,915,054	2,697,544	-29.0

-- No data reported.

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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
North America Total	150.26	82.35	71.92	150.26	71.92	108.9
Canada	150.23	82.33	71.93	150.23	71.93	108.9
Mexico	382.83	344.79	66.79	382.83	66.79	473.2
South America Total	65.71	69.20	64.73	65.71	64.73	1.5
Colombia	65.70	69.20	64.73	65.70	64.73	1.5
Peru	263.90	255.87	63.31	263.90	63.31	316.8
Europe Total	77.93	135.80	-	77.93	-	-
Germany, Federal Republic of	77.93	75.10	-	77.93	-	-
Switzerland	-	136.08	-	-	-	-
Asia Total	68.25	61.43	50.53	68.25	50.53	35.1
China	155.91	162.95	70.24	155.91	70.24	122.0
India	59.00	-	-	59.00	-	-
Indonesia	66.51	60.12	50.45	66.51	50.45	31.8
Vietnam	-	105.24	-	-	-	-
Australia and Oceania Total	-	-	49.49	-	49.49	-
Australia	-	-	49.49	-	49.49	-
Africa Total	-	75.07	-	-	-	-
South Africa	-	75.07	-	-	-	-
U.S. Total*	74.81	71.21	63.97	74.81	63.97	16.9

* 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Eastern Total	90,339	92,473	312,200	90,339	312,200	-71.1
Boston, MA	45,176	92,118	278,171	45,176	278,171	-83.8
Buffalo, NY	364	154	71	364	71	412.7
New York City, NY	44	201	773	44	773	-94.3
Portland, ME	44,755	-	-	44,755	-	-
Providence, RI	-	-	33,185	-	33,185	-
Southern Total	1,561,307	1,515,134	1,970,609	1,561,307	1,970,609	-20.8
Charleston, SC	-	-	54,020	-	54,020	-
Houston-Galveston, TX	1,170	358	86	1,170	86	NM
Laredo, TX	24	24	728	24	728	-96.7
Miami, FL	-	31,837	22	-	22	-
Mobile, AL	383,062	349,599	688,867	383,062	688,867	-44.4
New Orleans, LA	287	-	42	287	42	NM
San Juan, PR	314,395	465,355	534,052	314,395	534,052	-41.1
Tampa, FL	862,369	667,961	692,792	862,369	692,792	24.5
Western Total	188,605	386,952	318,159	188,605	318,159	-40.7
Great Falls, MT	63,560	141,823	68,303	63,560	68,303	-6.9
Honolulu, HI	124,897	244,944	234,342	124,897	234,342	-46.7
Los Angeles, CA	-	18	-	-	-	-
Seattle, WA	148	167	15,514	148	15,514	-99.0
Northern Total	74,803	132,748	96,576	74,803	96,576	-22.5
Cleveland, OH	561	166	-	561	-	-
Detroit, MI	1,036	105,557	222	1,036	222	366.7
Duluth, MN	210	21	-	210	-	-
Pembina, ND	72,996	27,004	96,354	72,996	96,354	-24.2
Total	1,915,054	2,127,307	2,697,544	1,915,054	2,697,544	-29.0

- = 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
North America Total	949	704	2,763	949	2,763	-65.7
Canada	949	704	2,763	949	2,763	-65.7
South America Total	-	55,116	-	-	-	-
Colombia	-	55,116	-	-	-	-
Europe Total	372	782	1,056	372	1,056	-64.8
Germany, Federal Republic of	8	-	-	8	-	-
Italy	342	774	1,043	342	1,043	-67.2
United Kingdom	22	8	13	22	13	69.2
Asia Total	71	412	457	71	457	-84.5
China	4	-	243	4	243	-98.4
Indonesia	67	54	62	67	62	8.1
Japan	-	358	152	-	152	-
Africa Total	-	11	-	-	-	-
Egypt	-	11	-	-	-	-
U.S. Total	1,392	57,025	4,276	1,392	4,276	-67.4

- = 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 IM 145.'

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

(dollars per short ton)

Continent and Country of Origin	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
North America Total	167.50	221.30	181.85	167.50	181.85	-7.9
Canada	167.50	221.30	181.85	167.50	181.85	-7.9
South America Total	-	160.88	-	-	-	-
Colombia	-	160.88	-	-	-	-
Europe Total	321.51	264.20	270.94	321.51	270.94	18.7
Germany, Federal Republic of	617.50	-	-	617.50	-	-
Italy	285.56	256.47	265.37	285.56	265.37	7.6
United Kingdom	772.73	1,012.50	717.69	772.73	717.69	7.7
Asia Total	977.13	411.60	252.98	977.13	252.98	286.2
China	2,507.50	-	29.24	2,507.50	29.24	NM
Indonesia	885.76	1,031.41	971.92	885.76	971.92	-8.9
Japan	-	318.11	317.40	-	317.40	-
Africa Total	-	818.18	-	-	-	-
Egypt	-	818.18	-	-	-	-
U.S. Total	249.95	164.98	211.45	249.95	211.45	18.2

- = 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.'

Receipts and Prices

Table 23. Coal Receipts at Coke Plants by Census Division

(thousand short tons)

Census Division	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Middle Atlantic	1,185	1,120	1,042	1,185	1,042	13.7
East North Central	2,007	2,220	2,043	2,007	2,043	-1.7
South Atlantic	407	422	422	407	422	-3.7
East South Central	340	308	317	340	317	7.3
U.S. Total	3,939	4,070	3,823	3,939	3,823	3.0

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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Middle Atlantic	w	w	w	w	w	w
East North Central	130.96	101.93	115.25	130.96	115.25	13.6
South Atlantic	w	w	w	w	w	w
East South Central	w	w	w	w	w	w
U.S. Total	121.05	100.82	108.82	121.05	108.82	11.2

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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Coke						
Sales	1,389	1,500	1,338	1,389	1,338	3.8
Average Price	306.30	278.68	308.48	306.30	308.48	-0.7
Breeze						
Sales	97	107	69	97	69	39.7
Average Price	82.07	74.59	80.34	82.07	80.34	2.1

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

(thousand short tons)

Census Division and State	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
New England	7	6	5	7	5	49.0
Maine	6	5	4	6	4	38.2
Massachusetts	2	1	1	2	1	107.9
Middle Atlantic	299	368	443	299	443	-32.6
New York	83	114	111	83	111	-25.8
Pennsylvania	216	254	332	216	332	-34.8
East North Central	1,603	1,713	1,598	1,603	1,598	0.3
Illinois	671	613	640	671	640	4.8
Indiana	455	535	383	455	383	19.0
Michigan	144	170	141	144	141	2.0
Ohio	124	133	218	124	218	-43.0
Wisconsin	208	261	216	208	216	-3.4
West North Central	3,161	3,205	3,150	3,161	3,150	0.3
Iowa	604	597	571	604	571	5.8
Kansas	25	25	24	25	24	1.4
Minnesota	366	285	390	366	390	-6.3
Missouri	191	164	160	191	160	19.7
Nebraska	287	292	273	287	273	5.1
North Dakota	1,630	1,806	1,686	1,630	1,686	-3.3
South Dakota	58	37	46	58	46	26.8
South Atlantic	736	791	954	736	954	-22.8
Delaware	-	12	28	-	28	-
Florida	121	83	140	121	140	-14.0
Georgia	90	95	100	90	100	-9.8
Maryland	122	149	114	122	114	6.3
North Carolina	130	135	141	130	141	-8.3
South Carolina	69	59	103	69	103	-33.6
Virginia	125	165	174	125	174	-28.0
West Virginia	80	92	152	80	152	-47.5
East South Central	877	838	1,055	877	1,055	-16.9
Alabama	223	254	347	223	347	-35.6
Kentucky	233	210	174	233	174	33.6
Mississippi	1	1	1	1	1	s
Tennessee	421	374	534	421	534	-21.2
West South Central	383	438	398	383	398	-3.9
Arkansas	62	55	53	62	53	16.0
Louisiana	61	54	69	61	69	-10.3
Oklahoma	122	152	116	122	116	4.5
Texas	138	177	160	138	160	-13.7
Mountain	665	788	707	665	707	-6.0
Arizona	49	34	34	49	34	44.7
Colorado	62	83	61	62	61	0.6
Idaho	17	2	18	17	18	-6.6
Montana	69	110	77	69	77	-9.6
Nevada	49	77	55	49	55	-10.6
New Mexico	15	21	15	15	15	2.8
Utah	72	104	97	72	97	-26.4
Wyoming	331	358	349	331	349	-5.1
Pacific	345	401	338	345	338	2.3
Alaska	s	s	s	s	s	s
California	321	375	293	321	293	9.3
Oregon	-	1	16	-	16	-
Washington	25	25	28	25	28	-11.3
U.S. Total	8,076	8,547	8,648	8,076	8,648	-6.6

- = 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
New England	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
Middle Atlantic	76.14	71.89	78.82	76.14	78.82	-3.4
New York	w	79.52	94.59	w	w	w
Pennsylvania	w	68.43	73.49	w	w	w
East North Central	68.57	70.52	66.92	68.57	66.92	2.5
Illinois	41.87	w	45.97	w	w	w
Indiana	91.33	w	80.87	w	w	w
Michigan	78.49	72.92	84.84	78.49	84.84	-7.5
Ohio	103.84	92.20	78.19	103.84	78.19	32.8
Wisconsin	76.88	77.13	81.19	76.88	81.19	-5.3
West North Central	35.58	31.88	36.28	35.58	36.28	-1.9
Iowa	44.84	44.33	44.64	44.84	44.64	0.4
Kansas	w	w	w	w	w	w
Minnesota	48.81	49.20	51.05	48.81	51.05	-4.4
Missouri	55.25	59.56	63.88	55.25	63.88	-13.5
Nebraska	29.08	28.70	w	29.08	w	w
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic	93.97	89.25	94.58	93.97	94.58	-0.6
Delaware	-	w	w	w	w	-
Florida	w	91.35	92.21	w	w	w
Georgia	95.57	96.32	98.70	95.57	98.70	-3.2
Maryland	w	w	w	w	w	w
North Carolina	92.75	94.15	101.31	92.75	101.31	-8.4
South Carolina	95.25	93.01	100.81	95.25	100.81	-5.5
Virginia	94.37	89.98	105.16	94.37	105.16	-10.3
West Virginia	155.39	125.70	102.53	155.39	102.53	51.6
East South Central	88.80	85.51	91.20	88.80	91.20	-2.6
Alabama	91.41	84.12	92.48	91.41	92.48	-1.2
Kentucky	95.59	86.49	101.70	95.59	101.70	-6.0
Tennessee	83.69	85.88	86.94	83.69	86.94	-3.7
West South Central	62.32	67.09	67.15	62.32	67.15	-7.2
Arkansas	w	w	w	w	w	w
Louisiana	w	w	w	w	w	w
Oklahoma	w	w	w	w	w	w
Texas	67.45	75.37	85.79	67.45	85.79	-21.4
Mountain	50.01	50.81	49.61	50.01	49.61	0.8
Arizona	w	w	w	w	w	w
Colorado	46.77	62.09	50.21	46.77	50.21	-6.9
Idaho	w	w	w	w	w	w
Montana	30.09	35.13	38.52	30.09	38.52	-21.9
Nevada	w	69.98	70.70	w	w	w
New Mexico	w	w	w	w	w	w
Utah	52.51	51.80	51.63	52.51	51.63	1.7
Wyoming	44.63	43.14	41.17	44.63	41.17	8.4
Pacific	85.11	71.82	81.31	85.11	81.31	4.7
California	w	71.45	81.96	w	w	w
Oregon	-	w	w	w	w	-
Washington	w	w	w	w	w	w
U.S. Total	59.32	57.34	61.52	59.32	61.52	-3.6

- = 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		January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
					2017	2016	
311	Food Manufacturing	2,098	1,993	2,155	2,098	2,155	-2.7
312	Beverage and Tobacco Product Mfg.	9	5	13	9	13	-28.3
313	Textile Mills	38	27	38	38	38	0.4
322	Paper Manufacturing	828	886	1,123	828	1,123	-26.3
324	Petroleum and Coal Products*	1,595	1,723	1,642	1,595	1,642	-2.8
325	Chemical Manufacturing	967	1,135	1,359	967	1,359	-28.8
327	Nonmetallic Mineral Products Mfg.	1,732	2,037	1,652	1,732	1,652	4.8
331	Primary Metal Manufacturing**	493	545	407	493	407	21.0
333	Machinery Manufacturing	5	27	54	5	54	-89.8
339	Miscellaneous Manufacturing	310	169	205	310	205	51.4
U.S. Total		8,076	8,547	8,648	8,076	8,648	-6.6

* 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		January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
					2017	2016	
311	Food Manufacturing	43.11	44.80	46.58	43.11	46.58	-7.4
312	Beverage and Tobacco Product Mfg.	w	w	107.96	w	w	w
313	Textile Mills	105.93	112.19	103.58	105.93	103.58	2.3
322	Paper Manufacturing	77.61	76.44	78.28	77.61	78.28	-0.9
324	Petroleum and Coal Products*	w	w	w	w	w	w
325	Chemical Manufacturing	76.17	71.31	76.59	76.17	76.59	-0.5
327	Nonmetallic Mineral Products Mfg.	73.79	71.83	76.53	73.79	76.53	-3.6
331	Primary Metal Manufacturing**	111.92	99.81	109.94	111.92	109.94	1.8
333	Machinery Manufacturing	w	w	w	w	w	w
339	Miscellaneous Manufacturing	57.81	57.88	75.94	57.81	75.94	-23.9
U.S. Total		59.32	57.34	61.52	59.32	61.52	-3.6

* 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Middle Atlantic	14	9	23	14	23	-38.8
Pennsylvania	14	9	23	14	23	-38.8
East North Central	57	61	85	57	85	-33.5
Illinois	32	33	34	32	34	-4.2
Indiana	10	15	15	10	15	-33.3
Ohio	-	7	21	-	21	-
Wisconsin	14	6	15	14	15	-8.0
West North Central	83	80	92	83	92	-9.8
Iowa	36	29	41	36	41	-11.2
Minnesota	6	1	7	6	7	-16.0
Missouri	13	27	19	13	19	-28.4
North Dakota	27	23	25	27	25	8.2
South Atlantic	38	36	43	38	43	-13.3
North Carolina	29	27	34	29	34	-17.0
Virginia	9	9	9	9	9	1.0
East South Central	3	2	6	3	6	-53.9
Kentucky	3	2	6	3	6	-53.9
Mountain	6	6	2	6	2	162.8
Colorado	s	1	-	s	-	-
Montana	1	1	-	1	-	-
Wyoming	6	3	2	6	2	124.4
Pacific	143	124	140	143	140	2.2
Alaska	143	124	140	143	140	2.2
U.S. Total	344	316	392	344	392	-12.4

- = 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.'

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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Middle Atlantic	119.41	116.69	119.65	119.41	119.65	-0.2
Pennsylvania	119.41	116.69	119.65	119.41	119.65	-0.2
East North Central	80.82	74.05	91.01	80.82	91.01	-11.2
Illinois	w	54.30	56.69	w	w	w
Indiana	w	w	w	w	w	w
Ohio	-	w	w	w	w	-
Wisconsin	154.44	153.42	154.34	154.44	154.34	0.1
West North Central	75.63	69.35	72.68	75.63	72.68	4.1
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	w	w
South Atlantic	100.75	94.90	98.42	100.75	98.42	2.4
North Carolina	w	w	w	w	w	w
Virginia	w	w	w	w	w	w
East South Central	w	w	w	w	w	w
Kentucky	w	w	w	w	w	w
Mountain	w	w	w	w	w	w
Colorado	w	w	-	w	-	-
Montana	w	w	-	w	-	-
Wyoming	w	w	w	w	w	w
Pacific	w	w	w	w	w	w
Alaska	w	w	w	w	w	w
U.S. Total	83.80	79.42	84.94	83.80	84.94	-1.3

- = 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, 2011 - 2017

(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	
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	152,245	4,124	4,268	4,853	9,121	228	220	448	165,938
April - June	147,209	4,096	3,366	5,071	8,438	136	74	209	159,952
July - September	210,260	4,163	3,522	4,921	8,443	146	54	200	223,065
October - December	167,561	4,102	3,146	5,513	8,659	182	142	325	180,647
Total	677,275	16,485	14,302	20,359	34,661	692	490	1,182	729,602
2017									
January - March	160,472	4,236	3,516	4,927	8,443	167	206	373	173,524
Total	160,472	4,236	3,516	4,927	8,443	167	206	373	173,524
2016 January - March	152,245	4,124	4,268	4,853	9,121	228	220	448	165,938
2015 January - March	196,656	5,156	4,602	5,791	10,393	277	290	567	212,772

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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Middle Atlantic	1,303	1,174	1,150	1,303	1,150	13.3
East North Central	2,220	2,210	2,281	2,220	2,281	-2.7
South Atlantic	388	394	396	388	396	-2.1
East South Central	325	325	296	325	296	9.7
U.S. Total	4,236	4,102	4,124	4,236	4,124	2.7

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

(thousand short tons)

Census Division and State	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
New England	7	6	5	7	5	25.9
Maine	5	5	4	5	4	28.1
Massachusetts	1	1	1	1	1	18.4
Middle Atlantic	307	363	468	307	468	-34.2
New York	90	90	137	90	137	-34.4
Pennsylvania	217	273	330	217	330	-34.2
East North Central	1,731	1,641	1,875	1,731	1,875	-7.7
Illinois	673	582	652	673	652	3.1
Indiana	497	552	496	497	496	0.2
Michigan	170	137	230	170	230	-26.1
Ohio	126	136	220	126	220	-43.0
Wisconsin	266	234	276	266	276	-3.8
West North Central	3,287	3,337	3,197	3,287	3,197	2.8
Iowa	618	629	591	618	591	4.6
Kansas	22	32	20	22	20	14.4
Minnesota	419	296	393	419	393	6.5
Missouri	201	182	162	201	162	23.8
Nebraska	294	308	275	294	275	7.0
North Dakota	1,680	1,837	1,706	1,680	1,706	-1.5
South Dakota	54	53	51	54	51	5.7
South Atlantic	753	838	996	753	996	-24.4
Delaware	-	15	28	-	28	-
Florida	134	122	124	134	124	7.7
Georgia	89	93	133	89	133	-33.2
Maryland	123	157	118	123	118	4.3
North Carolina	137	133	142	137	142	-3.6
South Carolina	64	82	102	64	102	-36.9
Virginia	134	152	191	134	191	-30.0
West Virginia	72	84	158	72	158	-54.2
East South Central	860	843	1,022	860	1,022	-15.9
Alabama	231	241	311	231	311	-25.7
Kentucky	217	207	167	217	167	30.2
Mississippi	1	1	1	1	1	s
Tennessee	411	395	544	411	544	-24.4
West South Central	398	407	444	398	444	-10.3
Arkansas	51	49	55	51	55	-8.8
Louisiana	66	56	67	66	67	-0.5
Oklahoma	131	145	140	131	140	-6.3
Texas	150	156	182	150	182	-17.4
Mountain	742	827	754	742	754	-1.6
Arizona	55	36	38	55	38	44.1
Colorado	60	68	70	60	70	-15.1
Idaho	41	31	34	41	34	21.3
Montana	88	110	91	88	91	-3.1
Nevada	52	75	67	52	67	-22.5
New Mexico	16	19	15	16	15	7.6
Utah	84	111	85	84	85	-1.5
Wyoming	347	377	354	347	354	-2.2
Pacific	357	398	361	357	361	-0.8
Alaska	s	s	s	s	s	s
California	339	366	332	339	332	2.1
Hawaii	-	5	2	-	2	-
Washington	18	27	27	18	27	-31.5
U.S. Total	8,443	8,659	9,121	8,443	9,121	-7.4

- = 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' 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
311 Food Manufacturing	2,170	2,005	2,233	2,170	2,233	-2.8
312 Beverage and Tobacco Product Mfg.	8	5	12	8	12	-36.5
313 Textile Mills	36	27	38	36	38	-3.8
322 Paper Manufacturing	858	898	1,210	858	1,210	-29.1
324 Petroleum and Coal Products*	1,587	1,752	1,629	1,587	1,629	-2.5
325 Chemical Manufacturing	972	1,176	1,426	972	1,426	-31.8
327 Nonmetallic Mineral Products Mfg.	1,877	2,079	1,902	1,877	1,902	-1.3
331 Primary Metal Manufacturing**	597	524	448	597	448	33.4
332 Fabricated Metal Product Mfg.	-	-	3	-	3	-
333 Machinery Manufacturing	5	17	21	5	21	-74.1
336 Transportation Equipment Mfg.	2	1	2	2	2	-0.9
339 Miscellaneous Manufacturing	330	176	199	330	199	66.2
U.S. Total	8,443	8,659	9,121	8,443	9,121	-7.4

* 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Middle Atlantic	14	10	24	14	24	-40.7
Pennsylvania	14	10	24	14	24	-40.7
East North Central	58	52	115	58	115	-49.8
Illinois	30	26	31	30	31	-2.7
Indiana	12	13	23	12	23	-48.0
Michigan	-	-	14	-	14	-
Ohio	1	7	31	1	31	-97.4
Wisconsin	15	5	16	15	16	-8.3
West North Central	85	79	93	85	93	-9.1
Iowa	36	29	40	36	40	-11.0
Minnesota	5	4	6	5	6	-25.0
Missouri	15	26	19	15	19	-21.9
North Dakota	29	21	27	29	27	6.3
South Atlantic	57	42	65	57	65	-11.9
District of Columbia	1	s	1	1	1	-8.3
North Carolina	37	31	46	37	46	-19.3
Virginia	19	11	18	19	18	6.6
East South Central	6	3	8	6	8	-19.6
Kentucky	6	3	8	6	8	-19.6
Mountain	7	6	3	7	3	105.9
Colorado	-	1	s	-	s	-
Montana	1	1	s	1	s	158.3
Wyoming	6	3	2	6	2	124.4
Pacific	146	134	140	146	140	4.2
Alaska	146	134	140	146	140	4.2
U.S. Total	373	325	448	373	448	-16.9

- = 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, 2011 - 2017

(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			
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	192,269	1,914	3,930	332	198,446	37,304*	235,750
June 30	183,248	1,802	3,825	337	189,212	37,127*	226,339
September 30	158,238	1,660	3,708	370	163,977	33,574*	197,551
December 31	163,946	1,675	3,635	361	169,617	33,699*	203,316
2017							
March 31	163,900	1,388	3,220	335	168,842	34,719*	203,561

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	March 31, 2017	December 31, 2016	March 31, 2016	Percent Change (March 31) 2017 versus 2016
Middle Atlantic	201	304	696	-71.2
East North Central	820	1,024	904	-9.3
South Atlantic	149	144	96	56.3
East South Central	218	203	218	-0.2
U.S. Total	1,388	1,675	1,914	-27.5

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	March 31, 2017	December 31, 2016	March 31, 2016	Percent Change (March 31) 2017 versus 2016
New England	5	5	5	2.5
Maine	1	1	1	19.1
Massachusetts	4	4	4	-1.0
Middle Atlantic	292	303	317	-7.9
New York	139	146	113	23.1
Pennsylvania	153	156	204	-25.0
East North Central	689	819	705	-2.2
Illinois	139	141	122	13.7
Indiana	239	281	190	25.7
Michigan	216	242	262	-17.4
Ohio	25	26	34	-25.8
Wisconsin	70	129	97	-27.9
West North Central	565	684	875	-35.4
Iowa	113	127	169	-33.4
Kansas	45	42	42	6.9
Minnesota	105	157	280	-62.7
Missouri	62	71	64	-3.1
Nebraska	59	66	102	-41.7
North Dakota	164	206	157	4.3
South Dakota	18	14	60	-70.5
South Atlantic	331	363	477	-30.7
Delaware	-	1	4	-100.0
Florida	34	47	61	-43.6
Georgia	78	75	114	-31.6
Maryland	13	14	13	-5.7
North Carolina	19	27	28	-32.4
South Carolina	72	68	104	-31.3
Virginia	60	85	61	-0.5
West Virginia	55	47	92	-40.5
East South Central	248	234	279	-11.1
Alabama	98	104	120	-18.7
Kentucky	43	28	39	11.5
Tennessee	107	102	120	-10.7
West South Central	443	460	548	-19.1
Arkansas	47	36	41	15.9
Louisiana	7	8	10	-29.9
Oklahoma	119	128	185	-35.7
Texas	270	288	312	-13.5
Mountain	470	552	512	-8.3
Arizona	46	52	37	25.0
Colorado	55	54	47	17.4
Idaho	255	275	262	-2.7
Montana	25	38	23	8.8
Nevada	14	28	23	-35.6
New Mexico	4	4	2	96.6
Utah	33	46	51	-35.9
Wyoming	37	56	67	-44.8
Pacific	176	215	211	-16.9
California	133	163	168	-20.8
Hawaii	-	16	16	-100.0
Oregon	34	34	20	75.1
Washington	8	2	7	13.5
U.S. Total	3,220	3,635	3,930	-18.1

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.'

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

(thousand short tons)

NAICS Code	March 31, 2017	December 31, 2016	March 31, 2016	Percent Change (March 31) 2017 versus 2016
311 Food Manufacturing	692	774	745	-7.0
312 Beverage and Tobacco Product Mfg.	5	3	3	55.7
313 Textile Mills	16	14	16	-0.6
322 Paper Manufacturing	326	359	497	-34.4
324 Petroleum and Coal Products*	180	173	180	0.1
325 Chemical Manufacturing	322	361	454	-29.0
327 Nonmetallic Mineral Products Mfg.	1,279	1,463	1,500	-14.7
331 Primary Metal Manufacturing**	282	387	408	-30.9
332 Fabricated Metal Product Mfg.	-	-	2	-100.0
333 Machinery Manufacturing	37	37	49	-23.3
336 Transportation Equipment Mfg.	4	5	6	-39.2
339 Miscellaneous Manufacturing	76	59	71	7.2
U.S. Total	3,220	3,635	3,930	-18.1

* 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	March 31, 2017	December 31, 2016	March 31, 2016	Percent Change (March 31) 2017 versus 2016
Middle Atlantic	83	100	180	-53.7
East North Central	401	507	524	-23.5
South Atlantic	91	92	65	39.1
East South Central	95	110	235	-59.5
U.S. Total	670	809	1,004	-33.3
Coke Total	448	579	831	-46.2
Breeze Total	222	230	173	28.9

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	March 31, 2017	December 31, 2016	March 31, 2016	Percent Change (March 31) 2017 versus 2016
Middle Atlantic	39	44	46	-15.3
Pennsylvania	39	44	46	-15.3
East North Central	62	63	62	0.6
Illinois	23	20	18	26.9
Indiana	32	33	34	-4.8
Michigan	-	-	s	-100.0
Ohio	5	6	8	-30.2
Wisconsin	2	3	2	-4.2
West North Central	61	62	65	-6.4
Iowa	35	35	38	-6.8
Minnesota	12	11	13	-9.5
Missouri	1	2	2	-57.7
North Dakota	13	15	13	5.2
South Atlantic	43	63	53	-18.8
District of Columbia	3	4	2	34.5
North Carolina	25	33	33	-23.9
South Carolina	-	-	s	-100.0
Virginia	16	26	18	-14.3
East South Central	9	12	9	-4.3
Kentucky	9	12	9	-4.4
Tennessee	s	s	s	s
West South Central	-	-	s	-100.0
Texas	-	-	s	-100.0
Mountain	3	3	3	-9.6
Colorado	1	s	s	155.7
Montana	2	3	3	-23.3
Wyoming	s	s	s	s
Pacific	118	113	94	26.2
Alaska	118	113	94	26.2
U.S. Total	335	361	332	0.8

- = 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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
New England						
Btu	12,560	12,547	12,591	12,560	12,591	-0.2
Sulfur	0.84	0.90	0.84	0.84	0.84	0.2
Ash	8.79	8.80	8.42	8.79	8.42	4.5
Maine						
Btu	12,619	12,619	12,619	12,619	12,619	s
Sulfur	0.79	0.79	0.79	0.79	0.79	s
Ash	8.31	8.31	8.31	8.31	8.31	s
Massachusetts						
Btu	12,344	12,266	12,436	12,344	12,436	-0.7
Sulfur	1.02	1.33	1.10	1.02	1.10	-7.3
Ash	10.55	10.69	8.99	10.55	8.99	17.4
Middle Atlantic						
Btu	13,774	13,649	13,797	13,774	13,797	-0.2
Sulfur	1.10	1.17	1.16	1.10	1.16	-4.9
Ash	8.83	8.91	7.98	8.83	7.98	10.7
New York						
Btu	13,320	13,319	13,502	13,320	13,502	-1.3
Sulfur	1.47	1.78	1.60	1.47	1.60	-7.9
Ash	7.22	7.68	7.22	7.22	7.22	0.1
Pennsylvania						
Btu	13,811	13,684	13,827	13,811	13,827	-0.1
Sulfur	1.07	1.10	1.12	1.07	1.12	-3.7
Ash	8.96	9.04	8.05	8.96	8.05	11.2
East North Central						
Btu	13,076	13,119	13,112	13,076	13,112	-0.3
Sulfur	1.19	1.13	1.33	1.19	1.33	-11.2
Ash	7.27	7.26	7.24	7.27	7.24	0.4
Illinois						
Btu	11,396	11,577	11,566	11,396	11,566	-1.5
Sulfur	2.09	1.97	2.37	2.09	2.37	-11.8
Ash	7.44	7.34	7.94	7.44	7.94	-6.3
Indiana						
Btu	14,041	13,922	14,021	14,041	14,021	0.1
Sulfur	0.85	0.88	0.93	0.85	0.93	-7.7
Ash	7.19	7.42	6.93	7.19	6.93	3.8
Michigan						
Btu	12,467	12,927	12,105	12,467	12,105	3.0
Sulfur	0.67	0.76	0.64	0.67	0.64	5.9
Ash	8.49	7.08	5.84	8.49	5.84	45.5
Ohio						
Btu	14,034	14,125	13,872	14,034	13,872	1.2
Sulfur	0.98	1.00	1.15	0.98	1.15	-14.5
Ash	7.23	7.18	7.41	7.23	7.41	-2.4
Wisconsin						
Btu	10,367	10,816	10,467	10,367	10,467	-0.9
Sulfur	0.78	0.83	1.15	0.78	1.15	-31.8
Ash	6.09	6.73	6.57	6.09	6.57	-7.3
West North Central						
Btu	8,251	8,155	8,205	8,251	8,205	0.6
Sulfur	0.82	0.83	0.85	0.82	0.85	-3.4
Ash	6.12	6.27	6.09	6.12	6.09	0.5
Iowa						
Btu	9,154	9,129	9,086	9,154	9,086	0.7
Sulfur	0.76	0.77	0.80	0.76	0.80	-5.7
Ash	5.09	5.22	5.17	5.09	5.17	-1.6
Kansas						
Btu	10,711	11,179	10,760	10,711	10,760	-0.5
Sulfur	1.82	1.67	2.12	1.82	2.12	-14.1
Ash	9.75	10.64	12.98	9.75	12.98	-24.9

Census Division and State ¹	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Minnesota						
Btu	9,258	9,239	9,322	9,258	9,322	-0.7
Sulfur	0.34	0.33	0.36	0.34	0.36	-6.2
Ash	4.51	4.55	4.20	4.51	4.20	7.3
Missouri						
Btu	11,210	11,229	11,249	11,210	11,249	-0.3
Sulfur	2.03	2.12	2.03	2.03	2.03	0.4
Ash	8.69	8.71	8.73	8.69	8.73	-0.5
Nebraska						
Btu	8,795	8,902	8,808	8,795	8,808	-0.2
Sulfur	0.23	0.23	0.22	0.23	0.22	2.5
Ash	4.62	4.81	4.57	4.62	4.57	1.0
North Dakota						
Btu	7,205	7,221	7,224	7,205	7,224	-0.3
Sulfur	0.91	0.91	0.97	0.91	0.97	-5.2
Ash	6.77	6.86	6.74	6.77	6.74	0.4
South Dakota						
Btu	8,392	8,140	8,223	8,392	8,223	2.1
Sulfur	0.59	0.37	0.57	0.59	0.57	3.5
Ash	6.60	5.13	6.29	6.60	6.29	5.0
South Atlantic						
Btu	13,432	13,380	13,316	13,432	13,316	0.9
Sulfur	1.09	1.13	1.17	1.09	1.17	-6.6
Ash	9.22	9.19	8.70	9.22	8.70	6.1
Delaware						
Btu	-	12,349	11,560	-	11,560	-
Sulfur	-	2.21	2.32	-	2.32	-
Ash	-	7.84	7.72	-	7.72	-
Florida						
Btu	12,719	12,977	12,997	12,719	12,997	-2.1
Sulfur	1.06	1.35	1.14	1.06	1.14	-7.3
Ash	8.17	7.88	6.72	8.17	6.72	21.7
Georgia						
Btu	12,528	12,673	13,036	12,528	13,036	-3.9
Sulfur	0.96	0.97	1.00	0.96	1.00	-4.6
Ash	10.16	9.66	8.10	10.16	8.10	25.4
Maryland						
Btu	10,867	11,028	10,881	10,867	10,881	-0.1
Sulfur	1.84	1.78	1.91	1.84	1.91	-3.3
Ash	22.86	21.34	23.32	22.86	23.32	-2.0
North Carolina						
Btu	13,747	13,581	13,032	13,747	13,032	5.5
Sulfur	0.94	0.88	0.94	0.94	0.94	-0.2
Ash	6.79	7.34	6.93	6.79	6.93	-2.1
South Carolina						
Btu	13,435	13,098	13,176	13,435	13,176	2.0
Sulfur	1.05	0.94	0.74	1.05	0.74	41.5
Ash	9.55	7.68	7.45	9.55	7.45	28.1
Virginia						
Btu	14,158	14,007	14,033	14,158	14,033	0.9
Sulfur	0.95	0.94	1.09	0.95	1.09	-13.3
Ash	7.13	7.17	7.12	7.13	7.12	0.2
West Virginia						
Btu	14,166	14,141	13,793	14,166	13,793	2.7
Sulfur	1.13	1.19	1.22	1.13	1.22	-7.8
Ash	6.82	7.00	7.87	6.82	7.87	-13.3
East South Central						
Btu	13,506	13,392	13,450	13,506	13,450	0.4
Sulfur	1.15	1.13	1.09	1.15	1.09	5.3
Ash	7.09	7.58	7.21	7.09	7.21	-1.6
Alabama						
Btu	13,916	13,671	13,645	13,916	13,645	2.0
Sulfur	0.96	0.99	0.93	0.96	0.93	2.8
Ash	6.93	7.91	7.42	6.93	7.42	-6.6

Census Division and State ¹	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Kentucky						
Btu	13,157	12,884	13,718	13,157	13,718	-4.1
Sulfur	0.99	1.13	0.97	0.99	0.97	1.2
Ash	6.98	7.45	6.57	6.98	6.57	6.2
Tennessee						
Btu	13,154	13,260	13,122	13,154	13,122	0.2
Sulfur	1.49	1.35	1.32	1.49	1.32	12.6
Ash	7.36	7.17	7.15	7.36	7.15	2.9
West South Central						
Btu	9,583	9,809	9,989	9,583	9,989	-4.1
Sulfur	0.57	0.54	0.63	0.57	0.63	-9.2
Ash	7.88	8.11	8.15	7.88	8.15	-3.3
Arkansas						
Btu	12,046	12,091	12,000	12,046	12,000	0.4
Sulfur	1.14	0.93	1.36	1.14	1.36	-16.1
Ash	9.22	10.04	10.60	9.22	10.60	-13.0
Louisiana						
Btu	7,343	7,753	7,856	7,343	7,856	-6.5
Sulfur	0.69	0.75	0.66	0.69	0.66	3.8
Ash	6.85	6.36	6.42	6.85	6.42	6.7
Oklahoma						
Btu	9,226	9,459	9,623	9,226	9,623	-4.1
Sulfur	0.27	0.30	0.39	0.27	0.39	-31.7
Ash	4.62	4.63	5.33	4.62	5.33	-13.3
Texas						
Btu	9,795	10,023	10,500	9,795	10,500	-6.7
Sulfur	0.54	0.56	0.56	0.54	0.56	-2.3
Ash	10.60	11.02	10.12	10.60	10.12	4.8
Mountain						
Btu	10,159	10,470	10,336	10,159	10,336	-1.7
Sulfur	0.50	0.50	0.58	0.50	0.58	-14.1
Ash	7.11	6.62	6.55	7.11	6.55	8.5
Arizona						
Btu	11,653	11,726	11,908	11,653	11,908	-2.1
Sulfur	0.59	0.61	0.89	0.59	0.89	-33.7
Ash	10.87	11.05	10.21	10.87	10.21	6.5
Colorado						
Btu	10,617	11,697	10,580	10,617	10,580	0.3
Sulfur	0.43	0.44	0.45	0.43	0.45	-4.7
Ash	7.70	7.37	7.15	7.70	7.15	7.8
Idaho						
Btu	11,038	11,778	11,047	11,038	11,047	-0.1
Sulfur	0.50	0.56	0.60	0.50	0.60	-17.7
Ash	11.06	5.91	9.10	11.06	9.10	21.5
Montana						
Btu	8,542	8,664	8,680	8,542	8,680	-1.6
Sulfur	0.35	0.33	0.31	0.35	0.31	12.4
Ash	5.60	5.39	5.18	5.60	5.18	8.0
Nevada						
Btu	10,845	11,231	11,333	10,845	11,333	-4.3
Sulfur	0.50	0.44	0.48	0.50	0.48	4.2
Ash	9.04	8.75	9.81	9.04	9.81	-7.9
New Mexico						
Btu	12,247	12,424	12,316	12,247	12,316	-0.6
Sulfur	0.70	0.76	0.77	0.70	0.77	-9.1
Ash	9.78	9.78	9.76	9.78	9.76	0.2
Utah						
Btu	11,430	11,469	11,514	11,430	11,514	-0.7
Sulfur	0.77	0.53	0.55	0.77	0.55	40.3
Ash	11.43	10.75	10.93	11.43	10.93	4.6
Wyoming						
Btu	9,672	10,047	9,897	9,672	9,897	-2.3
Sulfur	0.45	0.55	0.64	0.45	0.64	-28.9
Ash	5.20	4.56	4.39	5.20	4.39	18.5

Census Division and State ¹	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Pacific						
Btu	11,254	11,360	11,510	11,254	11,510	-2.2
Sulfur	0.52	0.54	0.63	0.52	0.63	-16.5
Ash	11.16	9.80	9.88	11.16	9.88	12.9
California						
Btu	11,401	11,488	11,710	11,401	11,710	-2.6
Sulfur	0.54	0.56	0.66	0.54	0.66	-18.3
Ash	11.67	10.18	10.36	11.67	10.36	12.7
Oregon						
Btu	-	11,670	11,484	-	11,484	-
Sulfur	-	0.51	0.53	-	0.53	-
Ash	-	9.78	11.21	-	11.21	-
Washington						
Btu	9,347	9,401	9,401	9,347	9,401	-0.6
Sulfur	0.32	0.32	0.33	0.32	0.33	-3.0
Ash	4.48	4.14	4.10	4.48	4.10	9.3
U.S. Total						
Btu	11,643	11,631	11,711	11,643	11,711	-0.6
Sulfur	0.99	0.98	1.06	0.99	1.06	-6.7
Ash	7.45	7.49	7.26	7.45	7.26	2.7

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	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Middle Atlantic						
Btu	13,038	13,049	12,945	13,038	12,945	0.7
Sulfur	0.75	0.74	0.84	0.75	0.84	-10.1
Ash	8.73	8.19	8.52	8.73	8.52	2.4
Pennsylvania						
Btu	13,038	13,049	12,945	13,038	12,945	0.7
Sulfur	0.75	0.74	0.84	0.75	0.84	-10.1
Ash	8.73	8.19	8.52	8.73	8.52	2.4
East North Central						
Btu	11,773	11,702	12,213	11,773	12,213	-3.6
Sulfur	2.40	2.62	2.16	2.40	2.16	11.0
Ash	8.93	8.78	8.12	8.93	8.12	10.0
Illinois						
Btu	11,216	11,185	11,306	11,216	11,306	-0.8
Sulfur	3.14	3.15	3.18	3.14	3.18	-1.2
Ash	9.32	9.47	9.19	9.32	9.19	1.4
Indiana						
Btu	11,376	11,395	11,205	11,376	11,205	1.5
Sulfur	2.25	2.98	3.01	2.25	3.01	-25.3
Ash	9.45	9.10	9.49	9.45	9.49	-0.4
Ohio						
Btu	-	13,392	13,599	-	13,599	-
Sulfur	-	0.86	0.88	-	0.88	-
Ash	-	5.77	5.70	-	5.70	-
Wisconsin						
Btu	13,375	13,375	13,375	13,375	13,375	s
Sulfur	0.78	0.78	0.78	0.78	0.78	s
Ash	7.65	7.65	7.65	7.65	7.65	s
West North Central						
Btu	10,315	10,574	10,370	10,315	10,370	-0.5
Sulfur	1.91	2.24	1.89	1.91	1.89	1.1
Ash	8.53	8.89	8.57	8.53	8.57	-0.5
Iowa						
Btu	11,397	11,578	11,282	11,397	11,282	1.0
Sulfur	2.76	2.84	2.46	2.76	2.46	12.2
Ash	8.55	8.38	8.62	8.55	8.62	-0.8
Minnesota						
Btu	8,797	9,307	8,904	8,797	8,904	-1.2
Sulfur	0.27	0.27	0.21	0.27	0.21	29.1
Ash	5.90	3.78	5.65	5.90	5.65	4.4
Missouri						
Btu	11,399	11,332	11,316	11,399	11,316	0.7
Sulfur	2.99	3.07	2.92	2.99	2.92	2.4
Ash	8.49	8.31	8.68	8.49	8.68	-2.2
North Dakota						
Btu	8,673	8,464	8,602	8,673	8,602	0.8
Sulfur	0.62	0.60	0.68	0.62	0.68	-9.2
Ash	9.09	10.53	9.24	9.09	9.24	-1.7
South Atlantic						
Btu	13,144	12,936	13,275	13,144	13,275	-1.0
Sulfur	1.44	1.54	1.53	1.44	1.53	-6.0
Ash	9.13	9.56	8.38	9.13	8.38	9.0
District of Columbia						
North Carolina						
Btu	13,216	12,955	13,271	13,216	13,271	-0.4
Sulfur	1.65	1.74	1.63	1.65	1.63	1.2
Ash	9.46	9.77	7.60	9.46	7.60	24.5
Virginia						
Btu	12,916	12,882	13,289	12,916	13,289	-2.8
Sulfur	0.77	0.98	1.14	0.77	1.14	-32.7

Census Division and State ¹	January - March 2017	October - December 2016	January - March 2016	Year to Date		Percent Change
				2017	2016	
Ash	8.10	8.93	11.39	8.10	11.39	-28.9
East South Central						
Btu	13,161	12,871	13,255	13,161	13,255	-0.7
Sulfur	0.77	0.79	0.68	0.77	0.68	13.3
Ash	5.59	7.12	5.89	5.59	5.89	-5.1
Kentucky						
Btu	13,161	12,871	13,255	13,161	13,255	-0.7
Sulfur	0.77	0.79	0.68	0.77	0.68	13.3
Ash	5.59	7.12	5.89	5.59	5.89	-5.1
Mountain						
Btu	11,283	11,481	8,613	11,283	8,613	31.0
Sulfur	0.45	0.44	0.32	0.45	0.32	39.1
Ash	10.53	9.20	3.80	10.53	3.80	177.1
Colorado						
Btu	11,447	11,924	-	11,447	-	-
Sulfur	0.45	0.31	-	0.45	-	-
Ash	10.69	8.86	-	10.69	-	-
Montana						
Btu	10,440	10,800	-	10,440	-	-
Sulfur	0.48	0.48	-	0.48	-	-
Ash	7.07	8.42	-	7.07	-	-
Wyoming						
Btu	11,399	11,520	8,613	11,399	8,613	32.3
Sulfur	0.44	0.48	0.32	0.44	0.32	37.5
Ash	11.02	9.57	3.80	11.02	3.80	190.0
Pacific						
Btu	7,445	7,562	7,617	7,445	7,617	-2.3
Sulfur	0.13	0.16	0.12	0.13	0.12	7.4
Ash	7.53	8.01	5.79	7.53	5.79	30.0
Alaska						
Btu	7,445	7,562	7,617	7,445	7,617	-2.3
Sulfur	0.13	0.16	0.12	0.13	0.12	7.4
Ash	7.53	8.01	5.79	7.53	5.79	30.0
U.S. Total						
Btu	9,826	9,982	10,298	9,826	10,298	-4.6
Sulfur	1.11	1.34	1.19	1.11	1.19	-6.2
Ash	8.27	8.58	7.39	8.27	7.39	11.9

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.'