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Quarterly Coal Report October–December 2018

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Preface

EIA publishes this report to fulfill data collection and dissemination responsibilities under the Federal Energy Administration Act of 1974 (Public Law 93-275), as amended.

The *Quarterly Coal Report* (QCR) provides information about U.S. coal production, exports, imports, receipts, prices, consumption, quality, stocks, and refined coal data to a wide audience, including Congress, federal and state agencies, the coal industry, and the general public. In addition, the QCR offers U.S. coke production, consumption, stocks, imports, and exports data. The fourth-quarter 2018 QCR includes detailed quarterly coal data for October 2018–December 2018 and aggregated quarterly historical coal data for 2012 through fourth-quarter 2018.

All data for 2017 and previous years are final. All data for 2018 are preliminary.

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Table ES-1. U.S. coal summary statistics, 2012 - 2018

(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
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	173,225	2,698	2,829	35,207	166,448	14,153	197,755	-
April - June	160,853	2,292	2,174	32,932	160,278	14,223	188,060	-
July - September	195,101	2,733	2,880	27,282	223,358	12,552	162,318	-
October - December	199,186	2,124	2,256	25,309	180,987	19,343	167,681	-
Total	728,364	9,846	10,138		731,071	60,271		2,449
2017								
January - March	197,138	1,915	2,918	25,190	173,712	22,307	166,774	-
April - June	187,098	2,197	2,123	23,430	166,866	21,796	163,264	-
July - September	196,440	2,308	2,609	23,430	203,482	24,644	145,060	-
October - December	193,933	1,357	2,301	23,999	172,796	28,206	142,957	-
Total	774,609	7,777	9,951		716,856	96,953		4,562
2018								
January - March	187,639	1,367	2,816	26,775*	167,531	27,221	131,206	-
April - June	180,785	1,546	2,276	24,524*	156,669	30,876	126,298	-
July - September	194,663	1,439	2,593	23,413*	194,083	29,067	105,877	-
October - December	192,435	1,602	2,477	23,978*	169,057	28,469	108,114	-
Total	755,523	5,954	10,162		687,340	115,632		3,531
2017 January - December	774,609	7,777	9,951		716,856	96,953		-
2016 January - December	728,364	9,846	10,138		731,071	60,271		-

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 Industrial, Commercial & Institutional Coal Users.' *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 Industrial, Commercial & Institutional Coal Users,' 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 Industrial, Commercial & Institutional Coal Users.' 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, 2012 - 2018

(thousand short tons)

Year and quarter	Production	Imports	Producer and distributor stocks ¹	Consumption ²	Exports
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
April - June	3,124	27	414	2,953	231
July - September	3,411	5	465	3,087	278
October - December	3,386	25	558	2,860	458
Total	12,948	58		11,818	1,209
2018					
January - March	3,219	4	405	3,072	304
April - June	3,479	68	440	3,225	286
July - September	3,564	10	396	3,412	206
October - December	3,545	35	354	3,268	354
Total	13,806	117		12,976	1,151
2017 January - December	12,948	58		11,818	1,209
2016 January - December	11,855	229		11,212	1,000

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 Industrial, Commercial & Institutional Coal Users.' *Imports: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.' *Exports: U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table ES-3. Summary statistics for coal refining plants, 2012 - 2018

(thousand short tons)

Year and quarter	Coal receipts by rank				Average price of receipts (dollars per short ton)	Refined coal produced	Refined coal sold
	Bituminous	Subbituminous	Lignite	Total			
2012							
January - March	30	1,890	231	2,151	27.47	1,756	-
April - June	-	2,853	992	3,844	25.42	3,668	-
July - September	-	2,806	2,593	5,399	24.32	4,182	-
October - December	-	2,571	2,347	4,919	24.55	4,434	-
Total	30	10,120	6,164	16,313	25.06	14,040	-
2013							
January - March	-	2,733	2,334	5,067	24.60	4,989	-
April - June	-	2,105	1,910	4,015	25.24	3,615	-
July - September	54	3,279	2,823	6,156	26.93	6,197	-
October - December	733	3,848	2,635	7,216	29.01	6,111	-
Total	786	11,966	9,701	22,454	26.77	20,912	-
2014							
January - March	486	4,887	2,623	7,996	29.13	7,717	-
April - June	552	3,985	2,737	7,273	28.16	6,909	-
July - September	426	7,550	3,181	11,157	30.08	10,113	-
October - December	1,130	8,549	2,841	12,520	28.13	11,105	-
Total	2,594	24,972	11,381	38,946	28.90	35,843	-
2015							
January - March	1,475	7,784	3,212	12,471	29.07	11,403	-
April - June	1,355	7,435	3,146	11,936	28.67	11,237	-
July - September	w	w	w	w	w	w	w
October - December	w	w	w	w	w	w	w
Total	w	w	w	w	w	w	w
2016							
January - March	w	w	w	w	w	w	w
April - June	w	w	w	w	w	w	w
July - September	w	w	w	w	w	w	w
October - December	w	w	w	w	w	w	w
Total	w	w	w	w	w	w	w
2017							
January - March	w	w	w	w	w	w	w
April - June	w	w	w	w	w	w	w
July - September	15,073	17,625	3,186	35,884	35.69	33,556	33,556
October - December	13,245	17,509	2,798	33,552	35.75	31,894	31,894
Total	w	w	w	w	w	w	w
2018							
January - March	14,908	16,401	4,016	35,326	36.93	46,972	46,972
April - June	15,458	14,820	4,959	35,236	37.01	33,989	33,989
July - September	19,199	18,761	4,302	42,262	36.51	41,867	41,867
October - December	18,144	19,317	3,951	41,412	36.45	38,320	38,320
Total	67,710	69,299	17,228	154,237	36.71	161,148	161,148

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 Industrial, Commercial & Institutional Coal Users.'

Respondent survey frame updated for Q3 2017 to include full universe of coal refining facilities. Frame was incomplete prior to Q3 2017, resulting in incomplete data.

Production

Table 1. U.S. coal production, 2012 - 2018

(thousand short tons)

Year	January - March	April - June	July - September	October - December	Total
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	173,225	160,853	195,101	199,186	728,364
2017	197,138	187,098	196,440	193,933	774,609
2018	187,639	180,785	194,663	192,435	755,523

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

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

Table 2. Coal production by state

(thousand short tons)

Coal-producing region and state	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Alabama	3,666	3,648	3,107	14,751	12,861	14.7
Alaska	291	210	264	923	959	-3.8
Arizona	1,612	1,720	1,798	6,550	6,221	5.3
Arkansas	-	-	-	-	43	-
Colorado	3,343	3,628	3,745	14,026	15,047	-6.8
Illinois	12,302	12,346	11,436	49,355	48,204	2.4
Indiana	9,083	8,369	7,668	34,780	31,472	10.5
Kentucky Total	9,663	9,689	9,968	39,503	41,784	-5.5
Eastern (Kentucky)	3,939	4,123	4,654	16,839	18,179	-7.4
Western (Kentucky)	5,724	5,566	5,314	22,665	23,606	-4.0
Louisiana	292	512	489	1,483	2,079	-28.6
Maryland	290	273	403	1,227	1,808	-32.2
Mississippi	669	862	582	2,940	2,604	12.9
Missouri	65	64	60	259	244	6.0
Montana	10,906	9,568	9,739	38,610	35,232	9.6
New Mexico	3,984	3,045	2,765	10,792	13,844	-22.0
North Dakota	7,305	7,921	7,506	29,643	28,788	3.0
Ohio	2,457	2,404	2,440	8,982	9,489	-5.3
Oklahoma	94	241	146	716	561	27.6
Pennsylvania Total	12,663	11,675	12,166	49,799	49,085	1.5
Anthracite (Pennsylvania)	478	474	477	1,851	1,867	-0.8
Bituminous (Pennsylvania)	12,186	11,201	11,690	47,948	47,219	1.5
Tennessee	44	45	71	190	431	-55.9
Texas	5,630	6,642	9,879	24,823	36,382	-31.8
Utah	3,433	3,478	4,127	13,591	14,326	-5.1
Virginia	3,162	3,156	3,121	12,612	13,202	-4.5
West Virginia Total	23,182	23,505	24,245	95,092	92,791	2.5
Northern (West Virginia)	11,751	11,319	12,375	45,869	46,754	-1.9
Southern (West Virginia)	11,431	12,186	11,870	49,223	46,037	6.9
Wyoming	78,146	81,469	78,052	304,188	316,454	-3.9
Appalachia Total	49,404	48,827	50,207	199,491	197,846	0.8
Appalachia Central	18,577	19,509	19,715	78,864	77,848	1.3
Appalachia Northern	27,161	25,670	27,385	105,876	107,137	-1.2
Appalachia Southern	3,666	3,648	3,107	14,751	12,861	14.7
Interior Region Total	33,859	34,604	35,574	137,020	145,194	-5.6
Illinois Basin	27,109	26,281	24,417	106,800	103,282	3.4
Interior	6,750	8,322	11,156	30,221	41,913	-27.9
Western Region Total	109,021	111,039	107,996	418,323	430,870	-2.9
Powder River Basin	83,889	86,615	83,362	324,211	334,366	-3.0
Uinta Region	6,543	6,849	7,519	26,513	28,068	-5.5
Western	18,589	17,575	17,115	67,598	68,436	-1.2
East of Mississippi River	77,181	75,971	75,207	309,230	303,731	1.8
West of Mississippi River	115,103	118,500	118,571	445,604	470,179	-5.2
U.S. Subtotal	192,284	194,470	193,778	754,834	773,911	-2.5
Refuse recovery	151	193	155	688	699	-1.5
U.S. Total	192,435	194,663	193,933	755,523	774,609	-2.5

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

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

Table 3. Coke and breeze production at coke plants

(thousand short tons)

Census division	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	1,157	1,152	1,056	4,353	4,066	7.1
East North Central	1,971	2,014	1,905	7,810	7,181	8.8
South Atlantic	346	332	315	1,301	1,238	5.0
East South Central	250	258	279	1,043	1,069	-2.4
U.S. Total	3,724	3,756	3,556	14,508	13,554	7.0
Coke Total	3,545	3,564	3,386	13,806	12,948	6.6
Breeze Total	179	192	170	701	606	15.7

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 Industrial, Commercial & Institutional Coal Users.' 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, 2012 - 2018

(thousand short tons)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
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	2,124	60,271	9,846
2017	22,307	1,915	21,796	2,197	24,644	2,308	28,206	1,357	96,953	7,777
2018	27,221	1,367	30,876	1,546	29,067	1,439	28,469	1,602	115,632	5,954

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, 2012 - 2018

(dollars per short ton)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
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	71.32	73.66	65.75
2017	110.44	74.81	110.65	79.44	98.79	79.71	90.59	86.54	101.75	79.62
2018	105.78	71.48	103.26	82.95	99.30	91.02	108.58	83.07	104.17	82.30

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, 2012 - 2018

(short tons and dollars per short ton)

Year and quarter	Australia	Canada	Colombia	Indonesia	China	Venezuela	Other countries	Total
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	121,967	1,078,480	7,890,800	613,944	6,955	-	134,212	9,846,358
2017								
January - March	-	204,185	1,649,757	58,863	1,202	-	1,047	1,915,054
April - June	700	205,598	1,789,959	199,996	676	-	121	2,197,050
July - September	-	306,509	1,767,445	196,208	2,081	-	35,740	2,307,983
October - December	-	175,442	879,451	244,386	2,515	46	55,245	1,357,085
U.S. Total	700	891,734	6,086,612	699,453	6,474	46	92,153	7,777,172
2018								
January - March	-	105,103	1,032,860	196,457	4,962	-	27,580	1,366,962
April - June	-	210,538	1,057,691	265,469	3,978	-	8,724	1,546,400
July - September	-	256,680	839,988	255,835	13,312	-	72,895	1,438,710
October - December	-	198,038	1,130,042	197,427	6,372	-	70,199	1,602,078
U.S. Total	-	770,359	4,060,581	915,188	28,624	-	179,398	5,954,150

**Average price
(dollars per short ton)**

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	47.66	77.40	65.10	52.17	126.99	-	85.65	65.75
2017								
January - March	-	150.23	65.70	66.51	155.91	-	85.19	74.81
April - June	74.89	238.56	63.75	55.81	168.50	-	363.51	79.44
July - September	-	188.40	62.12	60.01	69.52	-	126.07	79.71
October - December	-	181.32	68.13	73.61	73.22	103.33	136.41	86.54
U.S. Total	74.89	189.83	64.44	64.11	97.33	103.33	132.12	79.62
2018								
January - March	-	181.51	58.37	74.05	162.88	-	108.36	71.48
April - June	-	212.64	59.31	71.57	260.72	-	84.50	82.95
July - September	-	186.35	61.92	78.15	74.93	-	138.82	91.02
October - December	-	180.03	65.24	78.42	146.86	-	104.02	83.07
U.S. Total	-	191.25	61.26	75.42	132.01	-	117.88	82.30

- = No data reported.

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

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

Table 7. U.S. coal exports

(short tons)

Continent and country of destination	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	3,567,039	3,508,089	3,076,272	12,541,071	10,389,077	20.7
Canada*	1,922,294	1,624,597	1,565,292	5,726,402	5,285,938	8.3
Dominican Republic	98,882	90,814	-	251,695	159,785	57.5
Guatemala	81,488	71,620	121,000	285,329	759,117	-62.4
Honduras	93,211	42,219	38,581	216,322	74,570	190.1
Jamaica	36,376	-	33,124	72,772	135,273	-46.2
Mexico	1,213,488	1,439,991	1,284,494	5,418,604	3,737,125	45.0
Panama	432	56,836	33,678	152,994	173,346	-11.7
Trinidad and Tobago	120,868	181,913	47	366,058	63,053	480.6
Other**	-	99	56	50,895	870	NM
South America Total	2,583,002	2,409,482	2,422,518	10,329,432	8,826,790	17.0
Argentina	240,262	185,522	211,433	784,219	573,011	36.9
Brazil	2,216,980	1,943,568	2,210,211	8,595,068	7,562,884	13.6
Chile	124,466	240,700	440	868,605	631,943	37.4
Peru	301	-	174	889	57,749	-98.5
Other**	993	39,692	260	80,651	1,203	NM
Europe Total	11,882,983	11,726,370	11,162,413	43,807,515	39,560,548	10.7
Austria	562,480	211,878	112,382	1,048,430	572,142	83.2
Belgium	260,230	222,220	263,346	1,093,844	1,251,804	-12.6
Croatia	417,887	667,762	453,230	2,323,071	1,927,196	20.5
Denmark (Except Greenland)	64,080	-	80,746	64,080	119,327	-46.3
Finland	148,716	242,510	121,253	531,418	417,706	27.2
France	426,825	355,403	631,071	1,704,998	2,175,881	-21.6
Germany, Federal Republic of	858,913	871,622	1,549,722	3,568,331	4,900,458	-27.2
Greece	-	-	39,780	85,704	68,341	25.4
Ireland	-	-	-	-	91,569	-
Italy	990,234	853,944	987,187	3,407,875	3,142,717	8.4
Netherlands	3,817,403	3,492,205	1,840,065	12,362,341	9,372,985	31.9
Norway	16,915	19,451	19,728	68,879	78,700	-12.5
Poland	429,665	387,692	450,626	1,825,888	1,356,871	34.6
Portugal	82,673	93,855	342,166	580,695	816,144	-28.8
Romania	62,391	97,459	97,237	345,390	211,642	63.2
Slovakia	-	-	143,399	55,139	518,492	-89.4
Slovenia	-	-	115,253	127,242	127,574	-0.3
Spain	388,947	598,164	459,083	1,832,788	1,757,794	4.3
Sweden	52,052	218,253	216,592	572,801	876,687	-34.7
Turkey	400,827	805,673	475,503	3,062,852	2,563,970	19.5
Ukraine	1,247,359	1,251,606	1,950,638	4,816,809	4,463,457	7.9
United Kingdom	1,585,282	1,272,996	812,979	4,194,270	2,729,552	53.7
Other**	70,104	63,677	427	134,670	19,539	NM
Asia Total	8,530,318	9,166,009	9,541,433	40,280,708	32,840,845	22.7
China	143,682	434,413	442,562	2,615,707	3,238,216	-19.2
India	3,471,318	3,729,446	4,346,265	17,187,540	11,464,645	49.9
Japan	2,986,596	2,475,990	2,013,869	10,390,808	7,668,420	35.5
Pakistan	23	60,304	130,786	191,537	189,890	0.9
South Korea (Republic of Korea)	1,808,916	2,463,333	2,281,908	9,320,837	9,450,656	-1.4
Taiwan	148	84	323,938	743	539,435	-99.9
Thailand	116,945	457	575	503,623	136,101	270.0
United Arab Emirates	22	29	-	57	82,552	-99.9
Other**	2,668	1,953	1,530	69,856	70,930	-1.5
Australia and Oceania Total	52	70	1,008	334	49,358	-99.3
Other**	52	70	1,008	334	49,358	-99.3
Africa Total	1,905,574	2,256,681	2,002,316	8,672,992	5,286,767	64.1

Continent and country of destination	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Egypt	675,829	922,142	898,205	3,830,476	1,949,614	96.5
Morocco	1,152,562	988,345	1,050,953	4,285,976	2,927,282	46.4
Nigeria	-	-	-	-	53,719	-
Senegal	-	38,381	-	71,450	105,800	-32.5
South Africa	77,183	79,946	-	157,600	118,347	33.2
Togo	-	110,013	53,150	164,059	108,915	50.6
Other**	-	117,854	8	163,431	23,090	NM
Total	28,468,968	29,066,701	28,205,960	115,632,052	96,953,385	19.3

* 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 2017.

- = No data reported.

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

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

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

Table 8. Average price of U.S. coal exports

(dollars per short ton)

Continent and country of destination	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	82.70	82.30	78.36	79.35	78.85	0.6
Canada*	99.00	105.29	106.67	105.34	100.30	5.0
Dominican Republic	57.45	59.22	-	59.65	64.34	-7.3
Guatemala	72.68	62.96	63.94	64.07	69.95	-8.4
Honduras	77.74	58.97	88.90	64.37	81.73	-21.2
Jamaica	54.43	-	88.91	54.47	54.72	-0.5
Mexico	52.47	48.99	44.98	49.21	53.47	-8.0
Panama	79.93	58.97	64.53	56.20	50.10	12.2
Trinidad and Tobago	166.66	172.51	360.72	172.13	55.41	210.6
Other**	-	195.75	393.00	47.49	96.45	-50.8
South America Total	145.17	128.09	122.60	135.53	127.66	6.2
Argentina	180.02	169.48	154.70	177.96	154.94	14.9
Brazil	145.67	132.61	119.40	138.96	132.36	5.0
Chile	66.48	68.52	276.95	68.30	50.42	35.5
Peru	214.17	-	534.14	369.95	75.42	390.5
Other**	427.36	74.71	644.86	79.09	684.58	-88.4
Europe Total	118.41	112.50	102.56	117.78	111.69	5.5
Austria	188.58	164.41	151.23	181.38	194.94	-7.0
Belgium	152.04	158.08	149.51	158.28	139.82	13.2
Croatia	183.44	150.87	137.50	154.42	147.87	4.4
Denmark (Except Greenland)	91.63	-	68.58	91.63	68.45	33.9
Finland	168.18	162.92	163.61	158.93	163.37	-2.7
France	148.69	123.64	87.44	138.30	121.90	13.5
Germany, Federal Republic of	72.29	87.38	100.90	98.80	101.34	-2.5
Greece	-	-	31.27	75.27	56.11	34.1
Ireland	-	-	-	-	73.48	-
Italy	99.48	99.98	98.19	112.45	124.02	-9.3
Netherlands	99.30	87.18	83.13	91.06	74.27	22.6
Norway	139.36	149.21	135.24	143.93	131.98	9.1
Poland	142.16	118.62	82.33	136.14	113.88	19.5
Portugal	108.86	63.50	66.03	68.77	55.36	24.2
Romania	115.31	68.63	134.04	86.17	137.94	-37.5
Slovakia	-	-	146.52	144.66	150.26	-3.7
Slovenia	-	-	76.39	63.50	78.34	-18.9
Spain	102.22	112.75	107.24	108.79	105.20	3.4
Sweden	167.68	137.42	140.68	149.08	151.42	-1.5
Turkey	138.32	151.90	122.34	131.86	137.28	-3.9
Ukraine	178.16	161.67	116.96	166.66	148.46	12.3
United Kingdom	85.09	82.74	82.10	92.43	91.71	0.8
Other**	143.96	158.06	140.75	150.30	125.75	19.5
Asia Total	102.77	87.64	77.83	96.45	94.01	2.6
China	109.59	76.06	106.23	119.11	122.44	-2.7
India	95.95	92.43	75.90	96.94	93.61	3.6
Japan	129.41	101.24	97.68	119.31	108.80	9.7
Pakistan	123.04	63.34	47.17	56.76	47.30	20.0
South Korea (Republic of Korea)	73.42	69.20	64.09	66.04	77.31	-14.6
Taiwan	460.07	463.19	48.83	269.34	42.21	NM
Thailand	68.30	267.30	231.33	69.47	61.09	13.7
United Arab Emirates	276.23	345.83	-	351.68	47.91	NM
Other**	182.23	235.39	411.52	85.45	122.12	-30.0
Australia and Oceania Total	640.85	579.76	211.99	462.47	172.46	168.2
Other**	640.85	579.76	211.99	462.47	172.46	168.2
Africa Total	72.11	73.67	64.63	69.76	76.53	-8.8

Continent and country of destination	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Egypt	76.99	69.20	68.60	71.33	93.34	-23.6
Morocco	66.72	64.93	61.93	64.41	65.25	-1.3
Nigeria	-	-	-	-	53.07	-
Senegal	-	58.97	-	55.61	58.08	-4.3
South Africa	109.77	181.58	-	147.52	136.66	7.9
Togo	-	62.68	50.79	62.95	48.13	30.8
Other**	-	123.86	1,185.38	111.03	52.34	112.1
Total	108.58	99.30	90.59	104.17	101.75	2.4

* 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 2017.

- = 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	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	1,920,827	1,818,494	1,301,995	7,006,895	5,264,273	33.1
Canada*	386,018	228,374	212,803	1,058,152	1,140,664	-7.2
Dominican Republic	98,882	90,814	-	251,695	108,297	132.4
Guatemala	81,488	71,620	121,000	285,329	759,117	-62.4
Honduras	93,211	42,219	38,581	216,322	74,570	190.1
Jamaica	36,376	-	33,124	72,772	135,273	-46.2
Mexico	1,103,552	1,328,500	862,706	4,734,559	2,871,870	64.9
Panama	432	56,836	33,678	152,994	173,346	-11.7
Trinidad and Tobago	120,868	32	47	184,177	266	NM
Other**	-	99	56	50,895	870	NM
South America Total	157,831	427,118	77,710	1,231,618	934,526	31.8
Argentina	-	49,648	22	96,218	182	NM
Brazil	32,071	97,078	76,814	185,255	243,449	-23.9
Chile	124,466	240,700	440	868,605	631,943	37.4
Peru	301	-	174	889	57,749	-98.5
Other**	993	39,692	260	80,651	1,203	NM
Europe Total	5,335,236	4,641,243	4,565,204	16,517,375	14,945,821	10.5
Austria	-	375	375	375	2,346	-84.0
Belgium	38,175	43	-	38,218	432	NM
Croatia	-	78,264	-	90,345	-	-
Denmark (Except Greenland)	64,080	-	80,746	64,080	119,327	-46.3
Finland	-	1	-	14,331	-	-
France	92,558	153,358	338,130	433,550	750,593	-42.2
Germany, Federal Republic of	637,020	643,605	905,333	2,182,766	2,467,546	-11.5
Greece	-	-	39,780	85,704	68,341	25.4
Italy	445,087	404,489	443,603	1,397,982	910,585	53.5
Netherlands	2,211,790	1,619,119	979,411	6,164,865	5,976,585	3.2
Norway	-	4,189	-	4,189	8,818	-52.5
Poland	143,349	210,425	336,900	707,509	524,976	34.8
Portugal	82,673	93,855	342,166	497,736	731,347	-31.9
Romania	-	-	-	41,201	-	-
Slovakia	-	-	-	23	-	-
Slovenia	-	-	-	-	12,321	-
Spain	255,535	347,315	212,062	1,075,546	899,205	19.6
Sweden	-	-	53,022	34,074	151,488	-77.5
Turkey	38,092	86,085	63,367	514,480	471,986	9.0
Ukraine	116,091	-	133,883	226,826	133,883	69.4
United Kingdom	1,210,621	999,678	635,999	2,942,079	1,714,451	71.6
Other**	165	442	427	1,496	1,591	-6.0
Asia Total	4,829,084	6,247,961	6,094,347	23,500,513	17,298,911	35.8
China	382	189,700	67,246	372,301	332,909	11.8
India	2,556,630	3,054,197	3,197,290	11,531,728	7,539,785	52.9
Japan	1,128,181	1,356,633	945,098	4,400,612	2,693,922	63.4
Pakistan	23	60,304	26	191,537	59,130	223.9
South Korea (Republic of Korea)	1,024,195	1,584,909	1,558,797	6,430,776	5,867,926	9.6
Taiwan	148	84	323,938	743	539,435	-99.9
Thailand	116,835	304	422	503,207	135,642	271.0
United Arab Emirates	22	29	-	57	82,552	-99.9
Other**	2,668	1,801	1,530	69,552	47,610	46.1
Australia and Oceania Total	52	70	1,008	334	1,945	-82.8
Other**	52	70	1,008	334	1,945	-82.8
Africa Total	1,053,351	1,411,101	1,377,426	5,862,143	3,253,343	80.2
Egypt	423,580	844,981	584,686	3,235,113	1,222,053	164.7

Continent and country of destination	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Morocco	629,750	389,390	739,582	2,317,116	1,739,599	33.2
Nigeria	-	-	-	-	53,719	-
Senegal	-	38,381	-	71,450	105,800	-32.5
South Africa	21	28	-	520	167	211.4
Togo	-	110,013	53,150	164,059	108,915	50.6
Other**	-	28,308	8	73,885	23,090	220.0
Total	13,296,381	14,545,987	13,417,690	54,118,878	41,698,819	29.8

* 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 2017.

- = No data reported.

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

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

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

Table 10. Average price of U.S. steam coal exports

(dollars per short ton)

Continent and country of destination	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	60.51	51.45	50.89	53.97	54.60	-1.2
Canada*	79.86	103.20	106.10	95.04	91.50	3.9
Dominican Republic	57.45	59.22	-	59.65	47.49	25.6
Guatemala	72.68	62.96	63.94	64.07	69.95	-8.4
Honduras	77.74	58.97	88.90	64.37	81.73	-21.2
Jamaica	54.43	-	88.91	54.47	54.72	-0.5
Mexico	40.22	40.81	31.71	38.81	35.69	8.7
Panama	79.93	58.97	64.53	56.20	50.10	12.2
Trinidad and Tobago	166.66	1,016.47	360.72	171.90	286.24	-39.9
Other**	-	195.75	393.00	47.49	96.45	-50.8
South America Total	74.24	84.86	86.82	80.97	60.36	34.1
Argentina	-	172.45	245.45	172.33	282.88	-39.1
Brazil	92.11	84.73	82.79	92.37	79.34	16.4
Chile	66.48	68.52	276.95	68.30	50.42	35.5
Peru	214.17	-	534.14	369.95	75.42	390.5
Other**	427.36	74.71	644.86	79.09	684.58	-88.4
Europe Total	72.13	68.05	63.54	69.04	62.78	10.0
Austria	-	27.66	27.66	27.66	26.53	4.3
Belgium	111.75	385.58	-	112.06	73.24	53.0
Croatia	-	90.72	-	87.08	-	-
Denmark (Except Greenland)	91.63	-	68.58	91.63	68.45	33.9
Finland	-	3,654.00	-	181.41	-	-
France	58.97	66.94	63.02	61.85	69.33	-10.8
Germany, Federal Republic of	66.78	62.50	57.42	62.73	55.72	12.6
Greece	-	-	31.27	75.27	56.11	34.1
Italy	65.33	63.53	63.60	64.95	70.47	-7.8
Netherlands	71.67	66.89	56.97	67.83	57.89	17.2
Norway	-	140.61	-	140.61	131.55	6.9
Poland	74.25	75.17	60.22	82.32	63.12	30.4
Portugal	108.86	63.50	66.03	69.65	57.23	21.7
Romania	-	-	-	63.50	-	-
Slovakia	-	-	-	2,044.35	-	-
Slovenia	-	-	-	-	96.61	-
Spain	57.86	63.90	85.64	67.09	63.04	6.4
Sweden	-	-	137.90	181.16	108.63	66.8
Turkey	56.33	199.20	67.91	83.74	123.84	-32.4
Ukraine	185.42	-	75.98	125.90	75.98	65.7
United Kingdom	66.91	62.47	67.79	66.03	62.55	5.6
Other**	95.55	123.39	140.75	103.26	101.34	1.9
Asia Total	71.98	65.64	55.85	63.98	53.24	20.2
China	381.54	33.74	66.28	35.73	47.14	-24.2
India	80.48	80.64	62.96	74.66	60.13	24.2
Japan	85.00	69.86	62.23	75.04	69.09	8.6
Pakistan	123.04	63.34	239.69	56.76	47.68	19.0
South Korea (Republic of Korea)	36.38	36.77	37.99	38.45	38.07	1.0
Taiwan	460.07	463.19	48.83	269.34	42.21	NM
Thailand	68.21	351.64	279.05	69.43	60.96	13.9
United Arab Emirates	276.23	345.83	-	351.68	47.91	NM
Other**	182.23	246.82	411.52	85.39	98.88	-13.6
Australia and Oceania Total	640.85	579.76	211.99	462.47	274.36	68.6
Other**	640.85	579.76	211.99	462.47	274.36	68.6
Africa Total	67.95	62.28	62.27	63.77	69.68	-8.5
Egypt	65.64	59.86	64.56	62.86	83.40	-24.6

Continent and country of destination	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Morocco	69.38	67.94	61.27	65.00	62.79	3.5
Nigeria	-	-	-	-	53.07	-
Senegal	-	58.97	-	55.61	58.08	-4.3
South Africa	3,460.71	587.71	-	669.98	546.93	22.5
Togo	-	62.68	50.79	62.95	48.13	30.8
Other**	-	58.97	1,185.38	70.61	52.34	34.9
Total	70.09	64.88	58.84	64.60	58.29	10.8

* 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 2017.

- = No data reported.

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

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

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

Table 11. U.S. metallurgical coal exports

(short tons)

Continent and country of destination	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	1,646,212	1,689,595	1,774,277	5,534,176	5,124,804	8.0
Canada*	1,536,276	1,396,223	1,352,489	4,668,250	4,145,274	12.6
Dominican Republic	-	-	-	-	51,488	-
Mexico	109,936	111,491	421,788	684,045	865,255	-20.9
Trinidad and Tobago	-	181,881	-	181,881	62,787	189.7
South America Total	2,425,171	1,982,364	2,344,808	9,097,814	7,892,264	15.3
Argentina	240,262	135,874	211,411	688,001	572,829	20.1
Brazil	2,184,909	1,846,490	2,133,397	8,409,813	7,319,435	14.9
Europe Total	6,547,747	7,085,127	6,597,209	27,290,140	24,614,727	10.9
Austria	562,480	211,503	112,007	1,048,055	569,796	83.9
Belgium	222,055	222,177	263,346	1,055,626	1,251,372	-15.6
Croatia	417,887	589,498	453,230	2,232,726	1,927,196	15.9
Finland	148,716	242,509	121,253	517,087	417,706	23.8
France	334,267	202,045	292,941	1,271,448	1,425,288	-10.8
Germany, Federal Republic of	221,893	228,017	644,389	1,385,565	2,432,912	-43.0
Ireland	-	-	-	-	91,569	-
Italy	545,147	449,455	543,584	2,009,893	2,232,132	-10.0
Netherlands	1,605,613	1,873,086	860,654	6,197,476	3,396,400	82.5
Norway	16,915	15,262	19,728	64,690	69,882	-7.4
Poland	286,316	177,267	113,726	1,118,379	831,895	34.4
Portugal	-	-	-	82,959	84,797	-2.2
Romania	62,391	97,459	97,237	304,189	211,642	43.7
Slovakia	-	-	143,399	55,116	518,492	-89.4
Slovenia	-	-	115,253	127,242	115,253	10.4
Spain	133,412	250,849	247,021	757,242	858,589	-11.8
Sweden	52,052	218,253	163,570	538,727	725,199	-25.7
Turkey	362,735	719,588	412,136	2,548,372	2,091,984	21.8
Ukraine	1,131,268	1,251,606	1,816,755	4,589,983	4,329,574	6.0
United Kingdom	374,661	273,318	176,980	1,252,191	1,015,101	23.4
Other**	69,939	63,235	-	133,174	17,948	NM
Asia Total	3,701,234	2,918,048	3,447,086	16,780,195	15,541,934	8.0
China	143,300	244,713	375,316	2,243,406	2,905,307	-22.8
India	914,688	675,249	1,148,975	5,655,812	3,924,860	44.1
Japan	1,858,415	1,119,357	1,068,771	5,990,196	4,974,498	20.4
Pakistan	-	-	130,760	-	130,760	-
South Korea (Republic of Korea)	784,721	878,424	723,111	2,890,061	3,582,730	-19.3
Thailand	110	153	153	416	459	-9.4
Other**	-	152	-	304	23,320	-98.7
Australia and Oceania Total	-	-	-	-	47,413	-
Other**	-	-	-	-	47,413	-
Africa Total	852,223	845,580	624,890	2,810,849	2,033,424	38.2
Egypt	252,249	77,161	313,519	595,363	727,561	-18.2
Morocco	522,812	598,955	311,371	1,968,860	1,187,683	65.8
South Africa	77,162	79,918	-	157,080	118,180	32.9
Other**	-	89,546	-	89,546	-	-
Total	15,172,587	14,520,714	14,788,270	61,513,174	55,254,566	11.3

* 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 2017.

- = 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	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	108.59	115.51	98.52	111.47	103.75	7.4
Canada*	103.81	105.63	106.76	107.68	102.73	4.8
Dominican Republic	-	-	-	-	99.79	-
Mexico	175.38	146.46	72.10	121.18	112.48	7.7
Trinidad and Tobago	-	172.37	-	172.37	54.43	216.7
South America Total	149.78	137.40	123.79	142.91	135.63	5.4
Argentina	180.02	168.39	154.69	178.74	154.90	15.4
Brazil	146.46	135.12	120.72	139.98	134.12	4.4
Europe Total	156.12	141.62	129.55	147.28	141.39	4.2
Austria	188.58	164.65	151.64	181.43	195.64	-7.3
Belgium	158.96	158.04	149.51	159.95	139.84	14.4
Croatia	183.44	158.86	137.50	157.14	147.87	6.3
Finland	168.18	162.91	163.61	158.31	163.37	-3.1
France	173.54	166.68	115.62	164.37	149.58	9.9
Germany, Federal Republic of	88.10	157.61	161.99	155.61	147.60	5.4
Ireland	-	-	-	-	73.48	-
Italy	127.36	132.78	126.43	145.50	145.86	-0.2
Netherlands	137.37	104.72	112.91	114.16	103.10	10.7
Norway	139.36	151.58	135.24	144.15	132.04	9.2
Poland	176.16	170.21	147.82	170.19	145.91	16.6
Portugal	-	-	-	63.50	39.19	62.0
Romania	115.31	68.63	134.04	89.24	137.94	-35.3
Slovakia	-	-	146.52	143.87	150.26	-4.3
Slovenia	-	-	76.39	63.50	76.39	-16.9
Spain	187.19	180.38	125.79	168.03	149.35	12.5
Sweden	167.68	137.42	141.59	147.05	160.35	-8.3
Turkey	146.93	146.24	130.71	141.57	140.31	0.9
Ukraine	177.41	161.67	119.98	168.68	150.71	11.9
United Kingdom	143.82	156.87	133.55	154.46	140.97	9.6
Other**	144.07	158.31	-	150.83	127.91	17.9
Asia Total	142.94	134.74	116.69	141.91	139.38	1.8
China	108.86	108.86	113.38	132.95	131.07	1.4
India	139.17	145.75	111.90	142.36	157.94	-9.9
Japan	156.37	139.26	129.03	151.83	130.30	16.5
Pakistan	-	-	47.13	-	47.13	-
South Korea (Republic of Korea)	121.76	127.72	120.37	127.44	141.59	-10.0
Thailand	166.35	99.71	99.71	117.31	99.71	17.7
Other**	-	100.00	-	100.00	169.56	-41.0
Australia and Oceania Total	-	-	-	-	168.28	-
Other**	-	-	-	-	168.28	-
Africa Total	77.25	92.69	69.84	82.24	87.50	-6.0
Egypt	96.05	171.46	76.13	117.39	110.04	6.7
Morocco	63.51	62.97	63.50	63.72	68.86	-7.5
South Africa	108.86	181.44	-	145.79	136.08	7.1
Other**	-	144.38	-	144.38	-	-
Total	142.31	133.77	119.39	138.98	134.55	3.3

* 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 2017.

- = No data reported.

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

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

Table 13. U.S. coal exports by customs district

(short tons)

Customs district	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Eastern Total	15,726,786	16,279,437	16,910,738	66,046,409	57,892,030	14.1
Baltimore, MD	4,699,727	5,407,066	6,487,687	21,526,000	20,804,995	3.5
Buffalo, NY	945,330	1,026,817	709,786	3,045,373	1,714,010	77.7
New York City, NY	1,046	3,115	174,009	91,805	341,902	-73.1
Norfolk, VA	9,968,505	9,793,975	9,465,580	41,160,205	34,768,195	18.4
Ogdensburg, NY	64,381	25,251	63,186	133,370	147,255	-9.4
Philadelphia, PA	47,496	22,994	10,383	88,472	115,257	-23.2
Portland, ME	120	47	53	609	172	254.1
St. Albans, VT	181	172	-	530	190	178.9
Washington, DC	-	-	54	45	54	-16.7
Southern Total	9,434,922	8,959,101	7,417,745	35,021,787	25,451,285	37.6
Charleston, SC	19	80	19	277	505	-45.1
Dallas/Fort Worth, TX	-	-	-	83	-	-
El Paso, TX	42,479	38,577	30,807	166,025	175,589	-5.4
Houston-Galveston, TX	121,617	310,248	198,101	968,086	399,920	142.1
Laredo, TX	587,544	520,585	671,244	2,280,955	2,463,862	-7.4
Miami, FL	831	2,053	193	6,101	761	NM
Mobile, AL	3,191,884	2,551,057	1,836,910	11,351,779	9,958,629	14.0
New Orleans, LA	5,490,292	5,535,164	4,679,751	20,184,157	12,450,529	62.1
Port Arthur, TX	-	-	-	60,627	-	-
Savannah, GA	225	1,258	494	2,968	1,125	163.8
Tampa, FL	31	79	226	729	365	99.7
Western Total	2,536,246	3,321,126	3,084,679	12,362,998	10,432,390	18.5
Anchorage, AK	-	-	1	50	273	-81.7
Great Falls, MT	171	138	106	2,590	245	NM
Honolulu, HI	-	-	-	1	75	-98.7
Los Angeles, CA	317,025	405,164	330,586	1,391,732	1,194,891	16.5
Nogales, AZ	383,812	390,133	161,002	1,399,049	197,230	NM
Portland, OR	-	3	-	6	2	200.0
San Diego, CA	74	22	21	536	77	NM
San Francisco, CA	726,816	636,329	905,054	2,940,389	3,046,263	-3.5
Seattle, WA	1,108,348	1,889,337	1,687,909	6,628,645	5,993,334	10.6
Northern Total	762,649	502,411	769,067	2,180,512	3,130,298	-30.3
Chicago, IL	-	79	-	79	32,661	-99.8
Cleveland, OH	642,028	349,043	715,935	1,628,634	2,593,236	-37.2
Detroit, MI	114,902	81,315	51,131	327,946	258,920	26.7
Duluth, MN	140	-	-	3,865	9,336	-58.6
Minneapolis, MN	-	67,200	-	202,785	220,511	-8.0
Pembina, ND	5,579	4,774	2,001	17,203	15,634	10.0
Other Ports	8,365	4,626	23,731	20,346	47,382	-57.1
Total	28,468,968	29,066,701	28,205,960	115,632,052	96,953,385	19.3

- = No data reported.

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

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

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

Table 14. Steam coal exports by customs district

(short tons)

Customs district	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Eastern Total	4,286,620	4,481,082	5,448,752	17,623,743	16,209,775	8.7
Baltimore, MD	2,620,330	2,888,523	3,388,163	11,143,855	10,176,848	9.5
Buffalo, NY	35,438	2,802	32,626	43,429	44,057	-1.4
New York City, NY	1,046	3,115	174,009	91,717	341,853	-73.2
Norfolk, VA	1,519,702	1,540,198	1,788,981	6,144,168	5,394,393	13.9
Ogdensburg, NY	62,307	23,294	54,483	111,023	136,951	-18.9
Philadelphia, PA	47,496	22,994	10,383	88,472	115,257	-23.2
Portland, ME	120	47	53	609	172	254.1
St. Albans, VT	181	109	-	425	190	123.7
Washington, DC	-	-	54	45	54	-16.7
Southern Total	6,327,000	6,606,930	4,758,087	23,575,322	14,344,043	64.4
Charleston, SC	19	80	19	277	101	174.3
El Paso, TX	42,479	38,577	30,807	166,025	175,589	-5.4
Houston-Galveston, TX	121,617	310,163	198,101	968,001	399,920	142.0
Laredo, TX	586,785	520,069	670,876	2,247,035	2,430,940	-7.6
Miami, FL	831	2,053	193	6,101	761	NM
Mobile, AL	244,740	215,054	112,831	690,685	223,390	209.2
New Orleans, LA	5,330,283	5,519,902	3,744,843	19,433,491	11,112,690	74.9
Port Arthur, TX	-	-	-	60,627	-	-
Savannah, GA	215	953	191	2,351	287	NM
Tampa, FL	31	79	226	729	365	99.7
Western Total	2,536,057	3,321,126	3,084,662	12,362,809	10,432,321	18.5
Anchorage, AK	-	-	1	50	221	-77.4
Great Falls, MT	171	138	89	2,590	228	NM
Honolulu, HI	-	-	-	1	75	-98.7
Los Angeles, CA	316,836	405,164	330,586	1,391,543	1,194,891	16.5
Nogales, AZ	383,812	390,133	161,002	1,399,049	197,230	NM
Portland, OR	-	3	-	6	2	200.0
San Diego, CA	74	22	21	536	77	NM
San Francisco, CA	726,816	636,329	905,054	2,940,389	3,046,263	-3.5
Seattle, WA	1,108,348	1,889,337	1,687,909	6,628,645	5,993,334	10.6
Northern Total	138,339	132,223	102,458	536,658	665,308	-19.3
Chicago, IL	-	79	-	79	47	68.1
Cleveland, OH	101,629	60,706	68,602	222,872	281,634	-20.9
Detroit, MI	30,991	32,811	31,855	153,417	138,146	11.1
Duluth, MN	140	-	-	3,865	9,336	-58.6
Minneapolis, MN	-	33,853	-	139,676	220,511	-36.7
Pembina, ND	5,579	4,774	2,001	16,749	15,634	7.1
Other Ports	8,365	4,626	23,731	20,346	47,372	-57.1
Total	13,296,381	14,545,987	13,417,690	54,118,878	41,698,819	29.8

- = No data reported.

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

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

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

Table 15. Metallurgical coal exports by customs district

(short tons)

Customs district	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Eastern Total	11,440,166	11,798,355	11,461,986	48,422,666	41,682,255	16.2
Baltimore, MD	2,079,397	2,518,543	3,099,524	10,382,145	10,628,147	-2.3
Buffalo, NY	909,892	1,024,015	677,160	3,001,944	1,669,953	79.8
New York City, NY	-	-	-	88	49	79.6
Norfolk, VA	8,448,803	8,253,777	7,676,599	35,016,037	29,373,802	19.2
Ogdensburg, NY	2,074	1,957	8,703	22,347	10,304	116.9
St. Albans, VT	-	63	-	105	-	-
Southern Total	3,107,922	2,352,171	2,659,658	11,446,465	11,107,242	3.1
Charleston, SC	-	-	-	-	404	-
Dallas/Fort Worth, TX	-	-	-	83	-	-
Houston-Galveston, TX	-	85	-	85	-	-
Laredo, TX	759	516	368	33,920	32,922	3.0
Mobile, AL	2,947,144	2,336,003	1,724,079	10,661,094	9,735,239	9.5
New Orleans, LA	160,009	15,262	934,908	750,666	1,337,839	-43.9
Savannah, GA	10	305	303	617	838	-26.4
Western Total	189	-	17	189	69	173.9
Anchorage, AK	-	-	-	-	52	-
Great Falls, MT	-	-	17	-	17	-
Los Angeles, CA	189	-	-	189	-	-
Northern Total	624,310	370,188	666,609	1,643,854	2,464,990	-33.3
Chicago, IL	-	-	-	-	32,614	-
Cleveland, OH	540,399	288,337	647,333	1,405,762	2,311,602	-39.2
Detroit, MI	83,911	48,504	19,276	174,529	120,774	44.5
Minneapolis, MN	-	33,347	-	63,109	-	-
Pembina, ND	-	-	-	454	-	-
Other Ports	-	-	-	-	10	-
Total	15,172,587	14,520,714	14,788,270	61,513,174	55,254,566	11.3

- = 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 16. U.S. coke exports

(short tons)

Continent and country of destination	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	346,104	205,873	387,738	1,020,382	1,066,195	-4.3
Canada*	299,335	161,579	244,822	789,752	772,477	2.2
Mexico	46,702	44,032	142,081	229,731	291,871	-21.3
Other**	67	262	835	899	1,847	-51.3
South America Total	-	20	-	41	95	-56.8
Other**	-	20	-	41	95	-56.8
Europe Total	7,597	13	69,855	108,062	102,002	5.9
Other**	7,597	13	69,855	108,062	102,002	5.9
Asia Total	233	368	126	1,316	22,233	-94.1
Other**	233	368	126	1,316	22,233	-94.1
Australia and Oceania Total	209	214	86	604	334	80.8
Other**	209	214	86	604	334	80.8
Africa Total	-	-	-	20,478	18,188	12.6
Other**	-	-	-	20,478	18,188	12.6
Total	354,143	206,488	457,805	1,150,883	1,209,047	-4.8

* 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 2017.

- = No data reported.

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

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

Table 17. Average Price of U.S. coke exports

(dollars per short ton)

Continent and country of destination	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	237.98	289.71	235.26	266.79	243.55	9.5
Canada*	230.75	284.76	219.52	256.78	229.52	11.9
Mexico	283.48	306.08	261.78	299.89	279.56	7.3
Other**	792.72	592.53	336.67	601.86	419.06	43.6
South America Total	-	530.00	-	515.22	526.36	-2.1
Other**	-	530.00	-	515.22	526.36	-2.1
Europe Total	155.61	453.85	151.46	233.02	137.64	69.3
Other**	155.61	453.85	151.46	233.02	137.64	69.3
Asia Total	539.08	801.85	892.87	714.10	180.17	296.3
Other**	539.08	801.85	892.87	714.10	180.17	296.3
Australia and Oceania Total	455.49	546.26	446.52	445.43	412.89	7.9
Other**	455.49	546.26	446.52	445.43	412.89	7.9
Africa Total	-	-	-	90.72	90.72	s
Other**	-	-	-	90.72	90.72	s
Total	236.54	290.93	222.69	261.10	231.22	12.9

* 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 2017.

- = No data reported.

s = Absolute percentage less than 0.05.

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

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

Table 18. U.S. coal imports

(short tons)

Continent and country of origin	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	198,220	256,680	175,464	770,984	891,826	-13.5
Canada	198,038	256,680	175,442	770,359	891,734	-13.6
Mexico	182	-	22	625	92	NM
South America Total	1,130,165	840,050	879,648	4,061,012	6,086,896	-33.3
Colombia	1,130,042	839,988	879,451	4,060,581	6,086,612	-33.3
Peru	123	62	151	431	238	81.1
Venezuela	-	-	46	-	46	-
Europe Total	48,877	32,537	11,567	109,145	47,211	131.2
Germany, Federal Republic of	375	574	626	1,183	1,762	-32.9
Luxembourg	-	1,102	-	1,102	-	-
Netherlands	-	-	10,941	-	10,941	-
Russia	48,502	30,316	-	78,908	34,449	129.1
Ukraine	-	-	-	27,377	-	-
United Kingdom	-	545	-	575	59	NM
Asia Total	213,788	273,067	252,577	965,605	712,710	35.5
China	6,372	13,312	2,515	28,624	6,474	342.1
Hong Kong	9,989	3,920	5,512	21,602	6,339	240.8
India	-	-	164	-	444	-
Indonesia	197,427	255,835	244,386	915,188	699,453	30.8
Japan	-	-	-	10	-	-
Philippines	-	-	-	181	-	-
Australia and Oceania Total	-	-	-	-	700	-
Australia	-	-	-	-	700	-
Africa Total	11,028	36,376	37,829	47,404	37,829	25.3
South Africa	11,028	36,376	37,829	47,404	37,829	25.3
Total	1,602,078	1,438,710	1,357,085	5,954,150	7,777,172	-23.4

- = No data reported.

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

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

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

Table 19. Average price of U.S. coal imports

(dollars per short ton)

Continent and country of origin	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	179.98	186.35	181.33	191.22	189.84	0.7
Canada	180.03	186.35	181.32	191.25	189.83	0.7
Mexico	119.73	-	199.68	160.05	302.68	-47.1
South America Total	65.26	61.94	68.16	61.28	64.44	-4.9
Colombia	65.24	61.92	68.13	61.26	64.44	-4.9
Peru	271.59	268.21	265.01	264.59	264.87	-0.1
Venezuela	-	-	103.33	-	103.33	-
Europe Total	106.35	171.14	183.79	126.07	137.88	-8.6
Germany, Federal Republic of	74.87	74.75	74.76	75.65	83.13	-9.0
Luxembourg	-	490.09	-	490.09	-	-
Netherlands	-	-	190.03	-	190.03	-
Russia	106.59	162.38	-	128.21	124.17	3.3
Ukraine	-	-	-	107.41	-	-
United Kingdom	-	115.05	-	125.95	106.53	18.2
Asia Total	80.30	77.95	73.63	77.09	64.68	19.2
China	146.86	74.93	73.22	132.01	97.33	35.6
Hong Kong	74.93	74.94	74.93	74.93	94.38	-20.6
India	-	-	65.85	-	77.77	-
Indonesia	78.42	78.15	73.61	75.42	64.11	17.6
Japan	-	-	-	221.00	-	-
Philippines	-	-	-	65.78	-	-
Australia and Oceania Total	-	-	-	-	74.89	-
Australia	-	-	-	-	74.89	-
Africa Total	117.93	116.57	130.64	116.89	130.64	-10.5
South Africa	117.93	116.57	130.64	116.89	130.64	-10.5
U.S. Total*	83.07	91.02	86.54	82.30	79.62	3.4

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

- = No data reported.

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

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

Table 20. Coal imports by customs district

(short tons)

Customs district	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Eastern Total	84,281	53,093	41,215	283,756	167,986	68.9
Baltimore, MD	460	139	-	1,114	278	300.7
Boston, MA	-	52,922	-	120,163	45,176	166.0
Buffalo, NY	-	32	11,180	207	12,452	-98.3
New York City, NY	323	-	273	1,094	2,065	-47.0
Ogdensburg, NY	-	-	-	-	187	-
Philadelphia, PA	-	-	-	-	21	-
Portland, ME	83,498	-	29,762	161,178	107,807	49.5
Southern Total	1,121,957	924,937	895,656	4,102,634	6,017,839	-31.8
Houston-Galveston, TX	123	390	315	4,542	1,804	151.8
Laredo, TX	182	-	22	239	92	159.8
Miami, FL	33,135	-	-	104,240	70,599	47.7
Mobile, AL	467,318	547,596	393,365	2,303,784	1,726,130	33.5
New Orleans, LA	26,540	17,867	7,755	54,871	10,078	444.5
San Juan, PR	475,594	325,040	46	1,318,785	1,217,179	8.3
Tampa, FL	119,065	34,044	494,153	316,173	2,991,957	-89.4
Western Total	256,858	267,824	285,979	1,031,012	1,019,188	1.2
Columbia-Snake, OR	-	-	-	181	-	-
Great Falls, MT	57,885	63,615	40,363	231,679	250,993	-7.7
Honolulu, HI	197,427	202,913	244,386	795,025	765,487	3.9
Los Angeles, CA	-	-	-	-	10	-
Nogales, AZ	-	-	-	386	-	-
San Francisco, CA	-	60	-	150	59	154.2
Seattle, WA	1,546	1,236	1,230	3,591	2,639	36.1
Northern Total	138,982	192,856	134,235	536,748	572,159	-6.2
Chicago, IL	-	-	-	215	10	NM
Cleveland, OH	375	574	626	1,166	1,395	-16.4
Detroit, MI	64,161	123,659	62,580	284,411	255,696	11.2
Duluth, MN	258	-	102	1,066	354	201.1
Pembina, ND	74,188	68,623	70,927	249,890	314,704	-20.6
Total	1,602,078	1,438,710	1,357,085	5,954,150	7,777,172	-23.4

- = No data reported.

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

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

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

Table 21. U.S. coke imports

(short tons)

Continent and country of origin	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	14,586	709	272	37,829	3,063	NM
Canada	14,586	709	272	37,829	3,052	NM
Mexico	-	-	-	-	11	-
South America Total	-	6,063	18,585	38,094	18,585	105.0
Chile	-	-	-	16,819	-	-
Colombia	-	6,063	18,585	21,275	18,585	14.5
Europe Total	17,668	43	443	26,322	23,301	13.0
Czech Republic	17,649	-	-	25,933	-	-
Germany, Federal Republic of	11	43	-	159	8	NM
Italy	-	-	433	196	1,037	-81.1
Poland	-	-	-	-	22,220	-
United Kingdom	8	-	10	34	36	-5.6
Asia Total	412	1,015	2,306	2,957	3,386	-12.7
China	107	-	1,482	155	1,905	-91.9
Indonesia	-	-	24	56	200	-72.0
Japan	305	618	800	2,349	1,281	83.4
Saudi Arabia	-	397	-	397	-	-
Africa Total	2,322	2,053	3,478	11,533	10,145	13.7
Egypt	-	-	-	14	-	-
South Africa	2,322	2,053	3,478	11,519	10,145	13.5
U.S. Total	34,988	9,883	25,084	116,735	58,480	99.6

- = 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 IM 145.'

Table 22. Average price of U.S. coke imports

(dollars per short ton)

Continent and country of origin	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
North America Total	233.65	205.42	150.93	271.09	161.34	68.0
Canada	233.65	205.42	150.93	271.09	160.59	68.8
Mexico	-	-	-	-	367.73	-
South America Total	-	298.00	150.02	131.79	150.02	-12.2
Chile	-	-	-	122.96	-	-
Colombia	-	298.00	150.02	138.76	150.02	-7.5
Europe Total	332.93	532.67	307.19	331.87	111.15	198.6
Czech Republic	332.39	-	-	330.53	-	-
Germany, Federal Republic of	890.64	532.67	-	505.68	617.50	-18.1
Italy	-	-	293.49	286.97	287.49	-0.2
Poland	-	-	-	-	101.61	-
United Kingdom	750.00	-	900.00	797.06	808.33	-1.4
Asia Total	425.14	420.60	304.62	390.69	393.77	-0.8
China	731.40	-	276.43	724.06	366.65	97.5
Indonesia	-	-	1,603.50	1,183.13	1,140.44	3.7
Japan	317.70	317.77	317.86	317.70	317.52	0.1
Saudi Arabia	-	580.69	-	580.69	-	-
Africa Total	621.75	566.99	267.40	494.73	306.50	61.4
Egypt	-	-	-	3,405.00	-	-
South Africa	621.75	566.99	267.40	491.19	306.50	60.3
U.S. Total	311.79	360.85	183.29	264.46	176.38	49.9

- = 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.'

Receipts and prices

Table 23. Coal receipts at coke plants by census division

(thousand short tons)

Census division	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	1,487	1,616	1,531	5,812	5,366	8.3
East North Central	2,505	2,584	2,293	9,688	9,325	3.9
South Atlantic	424	421	424	1,691	1,651	2.4
East South Central	309	348	287	1,291	1,244	3.7
U.S. Total	4,726	4,970	4,535	18,482	17,587	5.1

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 Industrial, Commercial & Institutional Coal Users.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table 24. Average price of coal receipts at coke plants by census division

(dollars per short ton)

Census division	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	w	w	w	w	w	w
East North Central	140.71	137.89	134.93	138.28	133.27	3.8
South Atlantic	w	w	w	w	w	w
East South Central	w	w	w	w	w	w
U.S. Total	131.42	129.97	122.73	129.07	122.14	5.7

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 Industrial, Commercial & Institutional Coal Users.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table 25. Open market sales and average price of coke and breeze

(thousand short tons and dollars per short ton)

Commodity	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Coke						
Sales	1,700	1,735	1,627	6,830	6,384	7.0
Average Price	293.72	301.44	293.25	301.58	277.21	8.8
Breeze						
Sales	149	159	146	555	525	5.8
Average Price	100.79	74.40	80.57	88.05	75.71	16.3

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 Industrial, Commercial & Institutional Coal Users.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table 26. Coal receipts at other industrial plants by census division and state

(thousand short tons)

Census division and state	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
New England	6	5	6	25	22	12.6
Maine	5	4	5	22	18	20.3
Massachusetts	1	1	1	4	4	-18.4
Middle Atlantic	217	191	239	879	1,093	-19.6
New York	63	54	83	296	318	-7.0
Pennsylvania	154	136	157	583	775	-24.7
East North Central	1,761	1,534	1,520	6,455	6,623	-2.5
Illinois	643	605	576	2,586	2,560	1.0
Indiana	550	448	443	1,805	1,940	-6.9
Michigan	160	166	143	652	668	-2.4
Ohio	121	118	143	505	555	-9.0
Wisconsin	288	197	214	906	899	0.8
West North Central	3,284	3,009	3,230	12,189	12,535	-2.8
Iowa	546	621	597	2,374	2,429	-2.3
Kansas	29	27	26	101	106	-5.1
Minnesota	348	216	344	963	1,194	-19.4
Missouri	223	227	191	855	893	-4.2
Nebraska	318	275	307	1,163	1,160	0.3
North Dakota	1,774	1,600	1,716	6,544	6,518	0.4
South Dakota	45	43	49	189	236	-19.9
South Atlantic	764	710	771	2,892	3,038	-4.8
Florida	155	142	147	529	584	-9.4
Georgia	79	82	75	345	314	10.1
Maryland	165	121	150	542	565	-4.0
North Carolina	97	93	112	402	462	-12.9
South Carolina	52	57	64	204	252	-19.1
Virginia	131	111	125	493	487	1.4
West Virginia	85	103	99	376	375	0.1
East South Central	783	765	655	3,132	3,186	-1.7
Alabama	240	221	206	925	889	4.0
Kentucky	222	184	192	784	831	-5.6
Tennessee	322	360	257	1,424	1,466	-2.9
West South Central	329	316	362	1,324	1,504	-12.0
Arkansas	50	45	46	190	192	-1.2
Louisiana	58	63	57	245	234	4.9
Oklahoma	66	59	102	323	446	-27.5
Texas	155	150	157	566	632	-10.5
Mountain	866	718	891	3,143	3,318	-5.3
Arizona	75	75	57	288	202	42.8
Colorado	59	22	78	195	265	-26.5
Idaho	20	28	16	90	88	2.2
Montana	95	35	99	241	265	-9.3
Nevada	91	62	67	302	267	12.9
New Mexico	19	20	22	72	71	0.9
Utah	88	83	119	366	503	-27.4
Wyoming	419	391	434	1,589	1,655	-4.0
Pacific	367	421	415	1,537	1,548	-0.7
Alaska	s	s	s	1	1	s
California	332	402	377	1,418	1,437	-1.4
Oregon	11	6	19	46	29	55.3
Washington	23	13	19	73	80	-8.8
U.S. Total	8,378	7,669	8,089	31,576	32,867	-3.9

- = 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.

Table 27. Average price of coal receipts at other industrial plants by census division and state

(dollars per short ton)

Census division and state	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
New England	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
Middle Atlantic	96.42	94.00	94.38	94.64	83.76	13.0
New York	w	w	127.23	w	w	w
Pennsylvania	w	w	76.79	w	w	w
East North Central	75.25	72.54	73.56	72.68	71.99	1.0
Illinois	w	45.25	w	w	44.11	w
Indiana	w	94.02	w	w	91.57	w
Michigan	93.75	85.41	91.07	86.96	86.17	0.9
Ohio	98.24	94.69	100.08	99.33	101.33	-2.0
Wisconsin	86.83	83.41	81.29	84.49	80.48	5.0
West North Central	26.81	29.30	27.86	28.32	30.80	-8.1
Iowa	34.60	41.60	40.20	39.53	42.41	-6.8
Kansas	w	w	w	w	w	w
Minnesota	47.01	48.46	46.85	48.04	60.31	-20.3
Missouri	47.56	48.88	51.76	49.57	49.44	0.3
Nebraska	25.41	31.29	26.72	27.57	29.67	-7.1
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic	98.68	99.07	94.91	99.44	94.46	5.3
Florida	w	w	w	w	w	w
Georgia	102.91	105.68	95.32	102.08	93.15	9.6
Maryland	w	w	w	w	w	w
North Carolina	95.93	96.01	94.14	96.36	93.57	3.0
South Carolina	99.45	98.08	97.41	99.37	97.23	2.2
Virginia	93.66	96.02	89.12	92.13	91.47	0.7
West Virginia	155.73	133.44	155.23	157.83	154.15	2.4
East South Central	89.41	86.73	85.42	87.70	87.44	0.3
Alabama	93.75	94.04	w	94.89	93.50	1.5
Kentucky	89.55	84.45	87.11	88.68	89.26	-0.6
Tennessee	86.08	83.40	w	82.48	82.73	-0.3
West South Central	77.87	79.04	67.85	76.23	65.06	17.2
Arkansas	w	w	w	w	w	w
Louisiana	w	w	w	w	w	w
Oklahoma	69.19	82.26	64.25	68.79	56.54	21.7
Texas	85.86	88.35	73.96	87.01	73.23	18.8
Mountain	56.00	59.30	52.33	56.37	53.03	6.3
Arizona	w	w	w	w	w	w
Colorado	w	w	40.30	w	w	w
Idaho	w	109.59	152.98	w	w	w
Montana	38.17	49.46	33.42	41.29	37.48	10.2
Nevada	71.79	75.48	73.38	75.09	71.55	4.9
New Mexico	w	w	w	w	w	w
Utah	53.61	54.68	52.77	53.65	52.90	1.4
Wyoming	47.12	47.31	45.76	46.59	44.66	4.3
Pacific	77.50	77.54	83.53	81.53	86.26	-5.5
California	77.46	77.49	84.21	81.83	87.02	-6.0
Oregon	w	w	w	w	w	w
Washington	w	w	w	w	w	w
U.S. Total	58.47	59.26	56.82	59.05	58.67	0.6

- = 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 Industrial, Commercial & Institutional Coal Users.'

Table 28. U.S. coal receipts at manufacturing plants by North American Industry Classification System (NAICS) code
(thousand short tons)

NAICS code	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
311 Food Manufacturing	2,064	1,755	2,010	7,573	7,807	-3.0
312 Beverage and Tobacco Product Mfg.	4	3	4	17	23	-26.5
313 Textile Mills	22	13	22	84	99	-15.2
322 Paper Manufacturing	652	537	706	2,602	2,967	-12.3
324 Petroleum and Coal Products	1,633	1,515	1,595	6,113	6,076	0.6
325 Chemical Manufacturing	796	893	800	3,475	3,689	-5.8
327 Nonmetallic Mineral Products Mfg.	2,331	2,112	2,072	8,419	8,489	-0.8
331 Primary Metal Manufacturing	539	521	547	2,019	2,268	-11.0
333 Machinery Manufacturing	11	2	3	23	17	34.7
339 Miscellaneous Manufacturing	327	321	329	1,250	1,432	-12.7
U.S. Total	8,378	7,669	8,089	31,576	32,867	-3.9

* 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 Industrial, Commercial & Institutional Coal Users.'

Table 29. Average price of U.S. coal receipts at manufacturing plants by North American Industry Classification System (NAICS) code
(dollars per short ton)

NAICS code	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
311 Food Manufacturing	41.19	43.31	42.16	42.19	44.89	-6.0
312 Beverage and Tobacco Product Mfg.	w	w	w	w	w	w
313 Textile Mills	113.58	115.25	112.67	113.89	110.06	3.5
322 Paper Manufacturing	86.58	88.40	81.57	84.78	79.80	6.2
324 Petroleum and Coal Products	w	w	w	w	w	w
325 Chemical Manufacturing	75.97	74.29	66.00	74.44	70.75	5.2
327 Nonmetallic Mineral Products Mfg.	77.26	77.25	74.56	77.00	74.36	3.6
331 Primary Metal Manufacturing	115.93	109.72	120.26	118.03	113.07	4.4
333 Machinery Manufacturing	w	w	w	w	w	w
339 Miscellaneous Manufacturing	52.03	52.82	52.75	52.84	53.95	-2.1
U.S. Total	58.47	59.26	56.82	59.05	58.67	0.6

* 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 Industrial, Commercial & Institutional Coal Users.'

Table 30. Coal receipts at commercial and institutional users by census division and state

(thousand short tons)

Census division and state	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	3	-	9	14	28	-50.7
Pennsylvania	3	-	9	14	28	-50.7
East North Central	36	34	48	180	165	9.1
Illinois	21	19	27	108	101	6.5
Indiana	9	15	16	52	44	17.1
Wisconsin	6	-	5	20	19	4.8
West North Central	54	28	56	172	198	-13.4
Iowa	23	26	25	95	115	-17.1
Minnesota	1	-	1	3	8	-58.1
Missouri	7	-	6	13	24	-46.7
North Dakota	23	2	23	60	51	17.2
South Atlantic	34	20	39	95	128	-25.6
District of Columbia	-	-	-	-	2	-
North Carolina	25	14	26	71	98	-27.7
Virginia	9	6	12	24	28	-13.4
East South Central	s	s	2	5	10	-51.4
Kentucky	s	s	2	5	10	-51.4
Mountain	2	2	6	11	15	-25.5
Colorado	-	-	1	-	1	-
Montana	-	2	1	3	2	53.3
Wyoming	2	s	4	8	12	-34.6
Pacific	111	88	106	431	473	-8.8
Alaska	111	88	106	431	473	-8.8
U.S. Total	241	173	264	908	1,017	-10.7

- = 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 Industrial, Commercial & Institutional Coal Users.'

Table 31. Average price of coal receipts at commercial and institutional users by census division and state

(dollars per short ton)

Census division and state	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	107.76	-	121.96	105.17	119.40	-11.9
Pennsylvania	107.76	-	121.96	105.17	119.40	-11.9
East North Central	72.07	51.94	67.68	66.67	66.85	-0.3
Illinois	w	w	w	w	w	w
Indiana	w	w	w	w	w	w
Wisconsin	153.50	-	152.59	154.28	153.92	0.2
West North Central	76.88	90.38	73.69	79.36	77.97	1.8
Iowa	w	w	w	w	w	w
Minnesota	w	-	w	w	w	w
Missouri	w	-	w	w	w	w
North Dakota	w	w	w	w	w	w
South Atlantic	139.13	126.26	106.34	123.18	108.52	13.5
District of Columbia	-	-	-	-	156.97	-
North Carolina	w	w	w	w	w	w
Virginia	w	w	w	w	107.58	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	-
Montana	-	w	w	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	89.41	82.90	82.54	83.83	82.97	1.0

- = 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 Industrial, Commercial & Institutional Coal Users.'

Consumption

Table 32. U.S. coal consumption by end-use sector, 2012 - 2018

(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	
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	152,744	4,124	3,954	5,177	9,131	225	224	448	166,448
April - June	147,491	4,096	3,496	4,986	8,482	128	81	209	160,278
July - September	210,512	4,163	3,771	4,713	8,483	145	55	200	223,358
October - December	167,807	4,102	3,499	5,253	8,752	185	141	326	180,987
Total	678,554	16,485	14,720	20,129	34,849	683	500	1,183	731,071
2017									
January - March	160,569	4,236	3,482	5,052	8,534	194	179	373	173,712
April - June	154,230	4,325	3,096	5,012	8,107	121	82	203	166,866
July - September	190,545	4,491	3,083	5,168	8,251	136	59	195	203,482
October - December	159,649	4,485	3,314	5,057	8,371	159	130	290	172,796
Total	664,993	17,538	12,975	20,289	33,264	610	451	1,061	716,856
2018									
January - March	154,803	4,228	3,496	4,650	8,146	175	180	354	167,531
April - June	144,176	4,610	3,045	4,646	7,691	128	65	193	156,669
July - September	181,600	4,762	2,897	4,651	7,548	147	26	173	194,083
October - December	155,920	4,737	3,030	5,122	8,152	138	111	248	169,057
Total	636,498	18,337	12,468	19,069	31,538	587	381	968	687,340
2017 January - December	664,993	17,538	12,975	20,289	33,264	610	451	1,061	716,856
2016 January - December	678,554	16,485	14,720	20,129	34,849	683	500	1,183	731,071

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 Industrial, Commercial & Institutional Coal Users.' *Other Industrial: Form EIA-3, 'Quarterly Survey of Industrial, Commercial & Institutional Coal Users,' 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 Industrial, Commercial & Institutional Coal Users.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table 33. Coal carbonized at coke plants by census division

(thousand short tons)

Census division	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	1,513	1,542	1,380	5,731	5,347	7.2
East North Central	2,477	2,488	2,363	9,694	9,295	4.3
South Atlantic	445	426	405	1,671	1,587	5.2
East South Central	302	306	337	1,242	1,308	-5.1
U.S. Total	4,737	4,762	4,485	18,337	17,538	4.6

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

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

Table 34. Coal consumption at other industrial plants by census division and state

(thousand short tons)

Census division and state	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
New England	6	5	6	25	22	12.0
Maine	5	4	5	21	18	15.0
Massachusetts	1	1	1	4	4	-1.2
Middle Atlantic	206	191	247	857	1,160	-26.2
New York	58	49	87	281	386	-27.3
Pennsylvania	147	142	160	576	774	-25.6
East North Central	1,555	1,549	1,602	6,318	6,776	-6.8
Illinois	621	606	572	2,560	2,590	-1.1
Indiana	442	459	466	1,730	2,004	-13.7
Michigan	119	168	184	621	706	-12.1
Ohio	120	119	146	508	561	-9.6
Wisconsin	252	197	235	900	915	-1.6
West North Central	3,288	2,925	3,371	12,349	12,558	-1.7
Iowa	565	588	621	2,399	2,412	-0.5
Kansas	40	28	33	117	112	4.9
Minnesota	338	203	363	1,076	1,201	-10.4
Missouri	206	224	201	838	898	-6.7
Nebraska	304	270	327	1,138	1,173	-3.0
North Dakota	1,785	1,586	1,764	6,599	6,540	0.9
South Dakota	49	26	62	181	224	-19.2
South Atlantic	755	658	740	2,853	3,029	-5.8
Florida	136	134	123	514	562	-8.5
Georgia	83	68	89	336	335	0.4
Maryland	158	124	150	540	562	-3.9
North Carolina	101	87	108	398	454	-12.3
South Carolina	58	39	55	200	251	-20.3
Virginia	128	114	122	494	503	-1.9
West Virginia	91	93	93	371	363	2.4
East South Central	739	792	726	3,111	3,279	-5.1
Alabama	229	232	251	932	955	-2.4
Kentucky	205	188	191	767	834	-8.1
Tennessee	305	372	283	1,412	1,490	-5.2
West South Central	319	309	358	1,305	1,542	-15.4
Arkansas	42	44	50	175	198	-11.6
Louisiana	58	63	56	245	241	1.8
Oklahoma	79	72	111	356	474	-25.0
Texas	140	129	140	530	630	-15.9
Mountain	885	719	887	3,146	3,316	-5.1
Arizona	84	66	61	280	227	23.6
Colorado	61	28	71	179	295	-39.5
Idaho	35	21	36	122	114	6.6
Montana	90	41	92	235	252	-6.7
Nevada	74	76	64	295	258	14.2
New Mexico	20	20	21	73	72	1.1
Utah	99	97	111	378	485	-22.0
Wyoming	422	370	433	1,583	1,611	-1.8
Pacific	400	401	434	1,574	1,582	-0.5
Alaska	s	s	s	1	1	s
California	348	385	390	1,438	1,464	-1.7
Oregon	33	-	27	61	41	48.2
Washington	20	16	17	74	76	-2.7
U.S. Total	8,152	7,548	8,371	31,538	33,264	-5.2

- = 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.

Table 35. U.S. coal consumption at manufacturing plants by North American Industry Classification System (NAICS) code
(thousand short tons)

NAICS code	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
311 Food Manufacturing	2,054	1,713	2,060	7,646	7,862	-2.8
312 Beverage and Tobacco Product Mfg.	4	2	4	17	24	-27.3
313 Textile Mills	21	13	23	83	99	-16.1
322 Paper Manufacturing	652	549	746	2,632	3,001	-12.3
324 Petroleum and Coal Products	1,629	1,523	1,611	6,127	6,068	1.0
325 Chemical Manufacturing	819	890	832	3,530	3,740	-5.6
327 Nonmetallic Mineral Products Mfg.	2,174	2,015	2,123	8,187	8,605	-4.9
331 Primary Metal Manufacturing	471	537	587	2,053	2,358	-13.0
333 Machinery Manufacturing	6	10	35	45	67	-32.9
336 Transportation Equipment Mfg.	-	-	1	2	3	-14.7
339 Miscellaneous Manufacturing	323	296	349	1,216	1,438	-15.4
U.S. Total	8,152	7,548	8,371	31,538	33,264	-5.2

* 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 Industrial, Commercial & Institutional Coal Users.'

Table 36. Coal consumption at commercial and institutional users by census division and state

(thousand short tons)

Census division and state	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	2	-	6	14	25	-42.8
Pennsylvania	2	-	6	14	25	-42.8
East North Central	35	35	47	192	180	6.5
Illinois	19	17	23	109	103	6.0
Indiana	11	18	19	63	57	10.7
Ohio	-	-	-	-	1	-
Wisconsin	5	-	5	20	20	0.9
West North Central	49	29	53	181	208	-13.0
Iowa	25	29	25	104	122	-14.2
Minnesota	2	-	3	6	8	-19.0
Missouri	6	-	6	12	25	-51.2
North Dakota	17	s	19	58	54	8.2
South Atlantic	27	15	40	107	143	-25.4
District of Columbia	-	-	s	1	1	23.0
North Carolina	20	14	29	78	105	-25.9
Virginia	6	1	11	27	37	-25.3
East South Central	s	s	2	5	14	-61.7
Kentucky	s	s	2	5	14	-61.7
Mountain	4	s	5	11	15	-25.8
Colorado	-	-	-	-	s	-
Montana	1	-	1	3	2	33.3
Wyoming	2	s	4	8	12	-34.6
Pacific	131	93	136	458	476	-3.8
Alaska	131	93	136	458	476	-3.8
U.S. Total	248	173	290	968	1,061	-8.8

- = 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 Industrial, Commercial & Institutional Coal Users.'

Stocks

Table 37. U.S. coal stocks, 2012 - 2018

(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			
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	191,553	1,914	3,956	332	197,755	35,207	232,962
June 30	182,086	1,802	3,834	337	188,060	32,932	220,992
September 30	156,567	1,660	3,720	370	162,318	27,282	189,600
December 31	162,009	1,675	3,637	360	167,681	25,309	192,990
2017							
March 31	161,815	1,388	3,236	335	166,774	25,190	191,964
June 30	158,014	1,626	3,295	329	163,264	23,430	186,694
September 30	139,571	1,670	3,482	337	145,060	23,430	168,490
December 31	137,687	1,718	3,242	310	142,957	23,999	166,956
2018							
March 31	126,532	1,508	2,891	275	131,206	26,775*	157,981
June 30	121,529	1,616	2,897	257	126,298	24,524*	150,822
September 30	100,781	1,811	3,022	263	105,877	23,413*	129,290
December 31	102,786	1,807	3,270	250	108,114	23,978*	132,092

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 Industrial, Commercial & Institutional Coal Users.' *Other Industrial and Commercial and Institutional Users: Form EIA-3, 'Quarterly Survey of Industrial, Commercial & Institutional Coal Users.' *Producers and Distributors: 'Short Term Energy Outlook' estimates, Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and Form EIA-8A, 'Annual Survey of Coal Stocks and Coal Exports.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table 38. Coal stocks at coke plants by census division

(thousand short tons)

Census division	December 31, 2018	September 30, 2018	December 31, 2017	Percent change (December 31) 2018 versus 2017
Middle Atlantic	444	459	355	25.3
East North Central	1,015	993	1,042	-2.6
South Atlantic	151	170	177	-14.4
East South Central	197	189	145	36.0
U.S. Total	1,807	1,811	1,718	5.2

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 Industrial, Commercial & Institutional Coal Users.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table 39. Coal stocks at other industrial plants by census division and state

(thousand short tons)

Census division and state	December 31, 2018	September 30, 2018	December 31, 2017	Percent change (December 31) 2018 versus 2017
New England	5	5	5	0.9
Maine	1	1	s	122.2
Massachusetts	4	4	4	-10.1
Middle Atlantic	248	237	231	7.6
New York	91	87	78	16.6
Pennsylvania	157	150	152	3.0
East North Central	790	596	653	20.9
Illinois	140	118	114	22.8
Indiana	269	175	212	26.9
Michigan	237	196	195	21.2
Ohio	19	19	23	-14.2
Wisconsin	126	88	110	13.7
West North Central	567	550	692	-18.1
Iowa	117	136	144	-18.9
Kansas	10	24	29	-64.7
Minnesota	95	64	186	-48.9
Missouri	87	70	65	34.1
Nebraska	78	63	53	48.5
North Dakota	148	160	192	-22.5
South Dakota	31	34	23	31.1
South Atlantic	409	378	372	10.0
Florida	104	63	72	44.2
Georgia	59	64	55	6.0
Maryland	14	7	13	11.1
North Carolina	39	42	35	11.7
South Carolina	72	78	68	5.0
Virginia	57	54	69	-17.5
West Virginia	65	70	60	8.5
East South Central	206	160	169	21.7
Alabama	84	72	73	15.4
Kentucky	36	20	23	58.6
Tennessee	86	68	74	16.5
West South Central	392	392	413	-5.1
Arkansas	46	38	31	48.8
Louisiana	9	8	5	78.6
Oklahoma	84	97	113	-25.9
Texas	253	249	264	-4.1
Mountain	539	555	554	-2.7
Arizona	35	43	27	30.0
Colorado	29	32	19	54.5
Idaho	244	258	266	-8.1
Montana	45	40	56	-20.3
Nevada	36	19	30	20.6
New Mexico	2	2	3	-44.2
Utah	42	54	59	-29.8
Wyoming	107	106	94	13.3
Pacific	116	149	154	-24.6
California	103	118	125	-17.6
Oregon	7	29	23	-66.9
Washington	5	1	6	-13.9
U.S. Total	3,270	3,022	3,242	0.9

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 Industrial, Commercial & Institutional Coal Users.'

Table 40. U.S. coal stocks at manufacturing plants by North American Industry Classification System (NAICS) code

(thousand short tons)

NAICS code	December 31, 2018	September 30, 2018	December 31, 2017	Percent change (December 31) 2018 versus 2017
311 Food Manufacturing	637	626	708	-10.0
312 Beverage and Tobacco Product Mfg.	1	2	3	-57.7
313 Textile Mills	14	13	13	2.5
322 Paper Manufacturing	321	321	350	-8.1
324 Petroleum and Coal Products	164	159	178	-7.9
325 Chemical Manufacturing	224	245	288	-22.4
327 Nonmetallic Mineral Products Mfg.	1,495	1,326	1,281	16.7
331 Primary Metal Manufacturing	270	198	313	-13.7
333 Machinery Manufacturing	19	14	24	-19.3
336 Transportation Equipment Mfg.	-	-	2	-100.0
339 Miscellaneous Manufacturing	125	118	82	53.0
U.S. Total	3,270	3,022	3,242	0.9

* 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 Industrial, Commercial & Institutional Coal Users.'

Table 41. Coke and breeze stocks at coke plants by census division

(thousand short tons)

Census division	December 31, 2018	September 30, 2018	December 31, 2017	Percent change (December 31) 2018 versus 2017
Middle Atlantic	85	79	93	-7.9
East North Central	224	277	421	-46.8
South Atlantic	47	46	85	-45.3
East South Central	99	85	101	-1.5
U.S. Total	455	488	700	-34.9
Coke Total	354	396	558	-36.6
Breeze Total	102	92	142	-28.3

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 Industrial, Commercial & Institutional Coal Users.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table 42. Coal stocks at commercial and institutional users by census division and state

(thousand short tons)

Census division and state	December 31, 2018	September 30, 2018	December 31, 2017	Percent change (December 31) 2018 versus 2017
Middle Atlantic	42	42	42	-0.2
Pennsylvania	42	42	42	-0.2
East North Central	34	38	51	-34.1
Illinois	22	20	23	-3.6
Indiana	9	11	21	-55.3
Ohio	-	5	5	-100.0
Wisconsin	3	2	3	2.6
West North Central	35	30	48	-26.5
Iowa	15	17	28	-47.4
Minnesota	5	6	7	-18.0
Missouri	1	-	1	0.4
North Dakota	14	8	12	12.5
South Atlantic	41	34	48	-15.1
District of Columbia	3	3	4	-32.4
North Carolina	23	18	26	-11.7
Virginia	15	12	18	-15.9
East South Central	8	8	8	1.1
Kentucky	8	8	8	1.1
Mountain	3	4	3	5.4
Colorado	1	1	1	s
Montana	2	3	2	7.6
Wyoming	s	s	s	s
Pacific	87	107	110	-20.5
Alaska	87	107	110	-20.5
U.S. Total	250	263	310	-19.3

- = No data reported.

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

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Industrial, Commercial & Institutional Coal Users.'

Quality

Table 43. Average quality of coal received at manufacturing and coke Plants by census division and state

Census division and state ¹	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
New England						
Btu	12,658	12,705	12,661	12,682	12,619	0.5
Sulfur	0.76	0.75	0.83	0.77	0.81	-4.1
Ash	7.18	7.27	7.96	7.59	8.15	-6.9
Maine						
Btu	12,773	12,773	12,714	12,748	12,684	0.5
Sulfur	0.73	0.73	0.67	0.75	0.71	5.5
Ash	7.39	7.39	7.11	7.29	7.48	-2.5
Massachusetts						
Btu	12,189	12,267	12,479	12,290	12,358	-0.5
Sulfur	0.90	0.89	1.37	0.94	1.21	-22.0
Ash	6.32	6.53	10.84	9.33	10.81	-13.7
Middle Atlantic						
Btu	14,079	14,095	13,996	14,080	13,873	1.5
Sulfur	1.09	1.07	1.13	1.10	1.14	-2.8
Ash	7.44	7.48	8.07	7.68	8.52	-9.8
New York						
Btu	13,072	13,425	13,345	13,371	13,402	-0.2
Sulfur	1.89	1.68	1.65	1.77	1.64	7.5
Ash	7.93	7.62	6.95	7.75	7.13	8.6
Pennsylvania						
Btu	14,118	14,125	14,038	14,123	13,906	1.6
Sulfur	1.06	1.04	1.10	1.06	1.10	-3.4
Ash	7.42	7.48	8.15	7.68	8.61	-10.8
East North Central						
Btu	13,126	13,284	13,337	13,184	13,221	-0.3
Sulfur	1.16	1.14	1.24	1.16	1.39	-16.2
Ash	7.52	7.29	7.31	7.33	7.12	2.9
Illinois						
Btu	11,382	11,522	11,758	11,390	11,507	-1.0
Sulfur	2.27	2.20	2.42	2.14	2.21	-3.3
Ash	7.49	7.54	7.66	7.47	7.57	-1.3
Indiana						
Btu	13,784	14,067	13,887	13,973	13,950	0.2
Sulfur	0.83	0.83	0.89	0.84	0.88	-4.1
Ash	7.39	7.11	7.27	7.21	7.37	-2.2
Michigan						
Btu	13,139	13,127	14,123	13,150	13,556	-3.0
Sulfur	0.80	0.74	0.78	0.84	2.44	-65.4
Ash	7.75	7.21	7.11	7.40	5.42	36.6
Ohio						
Btu	14,190	14,198	14,076	14,167	14,090	0.5
Sulfur	1.04	1.00	1.01	1.01	1.00	1.4
Ash	7.60	7.43	7.25	7.37	7.28	1.3
Wisconsin						
Btu	10,983	10,833	10,770	10,879	10,792	0.8
Sulfur	0.79	0.81	0.94	0.83	0.82	1.2
Ash	7.55	7.18	6.90	7.16	6.78	5.6
West North Central						
Btu	8,213	8,281	8,255	8,229	8,306	-0.9
Sulfur	0.73	0.85	0.78	0.81	0.86	-6.4
Ash	6.23	6.36	6.20	6.29	6.30	-0.1
Iowa						
Btu	9,016	9,271	9,154	9,153	9,253	-1.1
Sulfur	0.57	0.94	0.76	0.78	0.86	-8.8
Ash	4.93	5.35	5.18	5.15	5.52	-6.8
Kansas						

Census division and state¹	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Btu	10,494	10,861	10,954	10,792	10,908	-1.1
Sulfur	1.93	1.83	1.83	2.04	1.76	15.9
Ash	13.28	12.07	10.59	12.77	10.30	23.9
Minnesota						
Btu	9,133	9,105	9,097	9,113	9,130	-0.2
Sulfur	0.31	0.30	0.30	0.30	0.31	-2.4
Ash	4.50	4.64	4.53	4.52	4.58	-1.4
Missouri						
Btu	11,137	11,148	11,549	11,225	11,290	-0.6
Sulfur	2.31	2.39	2.29	2.34	2.29	2.2
Ash	8.78	8.72	8.87	8.72	8.91	-2.2
Nebraska						
Btu	8,867	9,097	8,861	8,932	8,962	-0.3
Sulfur	0.23	0.25	0.23	0.24	0.24	-0.3
Ash	4.75	4.93	4.93	4.80	4.83	-0.6
North Dakota						
Btu	7,259	7,191	7,256	7,204	7,231	-0.4
Sulfur	0.73	0.76	0.81	0.78	0.88	-11.0
Ash	6.80	6.81	6.73	6.81	6.73	1.3
South Dakota						
Btu	8,334	8,399	8,313	8,357	8,375	-0.2
Sulfur	0.52	0.55	0.57	0.56	0.59	-4.6
Ash	5.96	6.12	6.67	6.33	6.65	-4.8
South Atlantic						
Btu	13,178	13,359	13,332	13,345	13,361	-0.1
Sulfur	1.14	1.12	1.19	1.11	1.17	-4.9
Ash	10.12	9.74	9.59	9.75	9.63	1.2
Florida						
Btu	12,402	12,648	12,471	12,575	12,604	-0.2
Sulfur	1.13	0.93	1.13	1.01	1.32	-23.2
Ash	9.58	10.58	8.90	10.23	9.05	13.1
Georgia						
Btu	12,532	12,329	12,803	12,546	12,498	0.4
Sulfur	1.01	1.06	1.02	0.97	0.99	-2.1
Ash	9.98	11.50	8.79	9.97	10.27	-2.9
Maryland						
Btu	10,811	11,133	10,927	11,035	10,929	1.0
Sulfur	1.85	1.69	1.86	1.80	1.85	-2.5
Ash	24.34	23.71	24.13	23.51	23.47	0.2
North Carolina						
Btu	13,508	13,633	13,607	13,532	13,646	-0.8
Sulfur	0.93	0.97	0.94	0.93	0.95	-2.4
Ash	7.11	7.05	7.03	7.40	6.98	6.1
South Carolina						
Btu	13,317	13,042	13,206	13,315	13,433	-0.9
Sulfur	1.75	1.49	1.53	1.65	1.34	22.5
Ash	8.68	10.55	7.65	8.44	9.33	-9.6
Virginia						
Btu	14,047	14,133	14,142	14,118	14,160	-0.3
Sulfur	0.83	0.84	0.86	0.85	0.87	-2.3
Ash	7.29	7.11	7.13	7.31	7.10	2.9
West Virginia						
Btu	13,939	14,001	14,089	14,029	14,116	-0.6
Sulfur	1.16	1.32	1.39	1.24	1.29	-3.9
Ash	6.86	6.71	6.99	6.86	6.99	-1.9
East South Central						
Btu	13,378	13,388	13,578	13,401	13,541	-1.0
Sulfur	1.23	1.20	1.08	1.21	1.17	3.1
Ash	7.26	7.46	7.54	7.35	7.30	0.7
Alabama						
Btu	13,708	13,838	13,881	13,802	13,887	-0.6

Census division and state¹	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Sulfur	1.03	0.99	1.11	1.04	1.07	-2.4
Ash	6.90	6.87	7.31	6.93	7.21	-3.8
Kentucky						
Btu	13,051	12,779	13,451	12,949	13,255	-2.3
Sulfur	1.10	1.02	1.09	1.07	1.03	4.0
Ash	8.43	8.66	7.73	8.08	7.61	6.2
Tennessee						
Btu	13,049	12,989	13,090	13,028	13,198	-1.3
Sulfur	1.66	1.63	1.01	1.54	1.41	9.9
Ash	7.06	7.79	7.86	7.61	7.27	4.6
West South Central						
Btu	10,019	10,146	9,929	9,910	9,677	2.4
Sulfur	0.65	0.67	0.57	0.62	0.57	9.6
Ash	8.28	8.58	8.61	8.35	8.19	2.0
Arkansas						
Btu	11,745	11,773	11,529	11,633	11,846	-1.8
Sulfur	1.20	1.29	1.31	1.20	1.27	-5.7
Ash	10.29	10.33	12.09	10.50	10.69	-1.8
Louisiana						
Btu	8,172	8,117	8,214	8,083	7,855	2.9
Sulfur	0.78	0.70	0.64	0.74	0.67	10.7
Ash	6.16	6.46	6.87	6.34	6.81	-6.8
Oklahoma						
Btu	9,991	10,750	9,642	9,868	9,332	5.7
Sulfur	0.32	0.46	0.31	0.33	0.28	16.1
Ash	4.98	6.19	5.43	5.31	4.86	9.2
Texas						
Btu	10,165	10,270	10,274	10,148	9,936	2.1
Sulfur	0.55	0.56	0.51	0.55	0.52	5.4
Ash	9.82	9.87	10.29	10.23	10.29	-0.5
Mountain						
Btu	10,411	10,522	10,339	10,502	10,384	1.1
Sulfur	0.59	0.61	0.58	0.60	0.53	14.3
Ash	6.96	7.20	7.16	7.08	7.22	-2.0
Arizona						
Btu	11,582	11,720	11,714	11,654	11,642	0.1
Sulfur	0.66	0.70	0.60	0.68	0.61	12.1
Ash	12.19	11.50	11.36	11.54	11.31	2.0
Colorado						
Btu	10,674	11,144	10,721	10,730	10,855	-1.2
Sulfur	0.59	0.47	0.50	0.50	0.49	1.2
Ash	8.08	8.14	8.62	8.09	8.26	-2.0
Idaho						
Btu	11,898	11,630	11,914	11,593	11,454	1.2
Sulfur	0.51	0.48	0.57	0.49	0.53	-8.1
Ash	9.99	9.90	9.94	10.01	10.87	-7.9
Montana						
Btu	8,664	9,174	8,634	9,109	8,991	1.3
Sulfur	0.36	0.40	0.33	0.38	0.36	5.3
Ash	5.77	5.22	5.53	5.73	5.46	4.9
Nevada						
Btu	11,594	11,475	11,497	11,596	11,225	3.3
Sulfur	0.43	0.40	0.52	0.43	0.50	-14.1
Ash	9.92	9.55	8.97	9.32	8.78	6.1
New Mexico						
Btu	12,255	12,253	12,277	12,230	12,261	-0.2
Sulfur	0.95	0.64	0.74	0.78	0.71	10.8
Ash	10.41	10.43	10.83	10.62	10.43	1.8
Utah						
Btu	11,410	11,581	11,432	11,513	11,462	0.4
Sulfur	0.46	0.45	0.53	0.46	0.54	-14.0

Census division and state ¹	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Ash	10.62	10.22	10.81	10.53	11.24	-6.3
Wyoming						
Btu	9,935	9,828	9,847	9,894	9,776	1.2
Sulfur	0.69	0.70	0.67	0.70	0.54	28.7
Ash	4.42	5.11	5.15	4.80	5.02	-4.5
Pacific						
Btu	11,242	11,568	11,417	11,462	11,392	0.6
Sulfur	0.42	0.41	0.58	0.45	0.58	-22.1
Ash	10.95	10.28	11.13	10.44	11.22	-7.0
California						
Btu	11,370	11,638	11,501	11,560	11,497	0.5
Sulfur	0.43	0.41	0.60	0.45	0.59	-23.2
Ash	11.39	10.48	11.51	10.77	11.62	-7.3
Oregon						
Btu	11,459	11,837	11,795	11,687	11,650	0.3
Sulfur	0.38	0.36	0.53	0.45	0.53	-16.0
Ash	11.47	9.30	9.80	10.09	10.07	0.2
Washington						
Btu	9,329	9,275	9,328	9,395	9,386	0.1
Sulfur	0.36	0.34	0.33	0.35	0.33	4.8
Ash	4.41	4.53	4.70	4.19	4.45	-5.9
U.S. Total						
Btu	11,730	11,930	11,772	11,821	11,774	0.4
Sulfur	0.98	1.00	1.00	1.00	1.08	-7.7
Ash	7.48	7.46	7.52	7.45	7.51	-0.7

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

- = No data reported.

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

Table 44. Average quality of coal received at commercial and institutional users by census division and state

Census division and state ¹	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic						
Btu	12,777	-	13,107	12,890	13,111	-1.7
Sulfur	0.86	-	0.78	0.84	0.77	8.5
Ash	6.92	-	7.31	7.02	8.14	-13.7
Pennsylvania						
Btu	12,777	-	13,107	12,890	13,111	-1.7
Sulfur	0.86	-	0.78	0.84	0.77	8.5
Ash	6.92	-	7.31	7.02	8.14	-13.7
East North Central						
Btu	11,661	11,432	11,638	11,584	11,577	0.1
Sulfur	2.51	3.14	2.65	2.73	2.71	0.8
Ash	9.50	9.65	9.10	9.22	9.25	-0.3
Illinois						
Btu	11,360	11,520	11,533	11,392	11,342	0.4
Sulfur	3.34	3.32	3.23	3.21	3.19	0.8
Ash	9.99	10.02	9.37	9.59	9.57	0.2
Indiana						
Btu	11,319	11,317	11,219	11,286	11,331	-0.4
Sulfur	1.69	2.90	2.30	2.49	2.45	1.4
Ash	9.48	9.17	9.12	9.08	9.22	-1.6
Wisconsin						
Btu	13,375	-	13,375	13,375	13,375	s
Sulfur	0.78	-	0.78	0.78	0.78	s
Ash	7.65	-	7.65	7.65	7.65	s
West North Central						
Btu	10,380	11,304	10,331	10,450	10,624	-1.6
Sulfur	1.79	2.29	1.88	1.87	2.11	-11.3
Ash	8.41	8.66	8.69	8.87	8.63	2.8
Iowa						
Btu	11,788	11,490	11,655	11,525	11,446	0.7
Sulfur	2.71	2.45	2.88	2.59	2.71	-4.6
Ash	8.27	8.73	8.32	8.54	8.60	-0.7
Minnesota						
Btu	9,209	-	9,308	9,241	8,913	3.7
Sulfur	0.42	-	0.33	0.39	0.28	39.9
Ash	4.83	-	4.67	4.63	5.58	-17.1
Missouri						
Btu	11,290	-	11,405	11,327	11,407	-0.7
Sulfur	2.97	-	3.00	3.04	2.99	1.6
Ash	8.57	-	8.66	8.62	8.50	1.5
North Dakota						
Btu	8,716	9,025	8,671	8,623	8,672	-0.6
Sulfur	0.56	0.34	0.60	0.56	0.61	-8.4
Ash	8.71	7.75	9.35	9.68	9.21	5.1
South Atlantic						
Btu	12,913	12,847	12,936	12,966	13,029	-0.5
Sulfur	1.65	1.65	1.52	1.66	1.45	14.9
Ash	9.18	9.97	9.09	9.13	9.15	-0.2
District of Columbia						
Btu	-	-	-	-	13,156	-
Sulfur	-	-	-	-	0.58	-
Ash	-	-	-	-	6.85	-
North Carolina						
Btu	12,805	12,951	12,892	12,879	13,072	-1.5
Sulfur	1.99	1.99	1.85	1.97	1.65	19.6
Ash	9.95	9.81	9.87	9.69	9.48	2.2
Virginia						

Census division and state ¹	October - December 2018	July - September 2018	October - December 2017	Year to date		Percent change
				2018	2017	
Btu	13,208	12,594	13,026	13,223	12,871	2.7
Sulfur	0.73	0.83	0.82	0.77	0.80	-4.7
Ash	7.07	10.36	7.46	7.49	8.14	-8.0
East South Central						
Btu	13,509	13,569	13,293	13,567	13,109	3.5
Sulfur	0.79	0.76	0.78	0.78	0.77	1.4
Ash	6.29	6.12	6.66	4.62	6.12	-24.5
Kentucky						
Btu	13,509	13,569	13,293	13,567	13,109	3.5
Sulfur	0.79	0.76	0.78	0.78	0.77	1.4
Ash	6.29	6.12	6.66	4.62	6.12	-24.5
Mountain						
Btu	11,475	11,259	11,504	11,433	11,404	0.3
Sulfur	0.45	0.46	0.44	0.44	0.45	-0.9
Ash	11.70	8.09	9.96	9.66	10.26	-5.9
Colorado						
Btu	-	-	11,881	-	11,783	-
Sulfur	-	-	0.45	-	0.45	-
Ash	-	-	10.66	-	10.67	-
Montana						
Btu	-	11,290	10,511	11,021	10,480	5.2
Sulfur	-	0.46	0.37	0.41	0.43	-4.6
Ash	-	7.81	6.94	7.63	7.02	8.7
Wyoming						
Btu	11,475	10,710	11,676	11,594	11,537	0.5
Sulfur	0.45	0.38	0.46	0.46	0.45	1.4
Ash	11.70	13.08	10.53	10.45	10.78	-3.1
Pacific						
Btu	7,595	7,448	7,541	7,563	7,498	0.9
Sulfur	0.14	0.18	0.15	0.15	0.13	16.6
Ash	6.50	7.50	4.81	6.68	5.56	20.1
Alaska						
Btu	7,595	7,448	7,541	7,563	7,498	0.9
Sulfur	0.14	0.18	0.15	0.15	0.13	16.6
Ash	6.50	7.50	4.81	6.68	5.56	20.1
U.S. Total						
Btu	9,681	9,542	9,965	9,634	9,734	-1.0
Sulfur	1.09	1.28	1.20	1.16	1.13	3.1
Ash	7.81	8.40	7.23	7.89	7.36	7.2

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 Industrial, Commercial & Institutional Coal Users.'