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Quarterly Coal Report July–September 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 third-quarter 2018 QCR includes detailed quarterly coal data for July–September 2018 and aggregated quarterly historical coal data for 2012 through third-quarter 2018.

All data for 2017 and prior 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*	167,501	27,221	131,079	-
April - June	180,785	1,546	2,274	24,524*	156,643	30,876	126,207	-
July - September	194,663	1,439	2,592	23,413*	194,057	29,067	105,796	-
Total	563,088	4,352	7,681		518,200	87,163		7,505
2017 January - September	580,677	6,420	7,651		544,060	68,747		-
2016 January - September	529,178	7,722	7,883		550,083	40,928		-

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	3,546	10	396	3,394	206
Total	10,244	82		9,691	797
2017 January - September	9,562	33		8,958	751
2016 January - September	8,863	172		8,553	533

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	17,114	4,302	40,614	36.39	40,316	40,316
Total	49,565	48,334	13,277	111,177	36.76	121,277	121,277

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	-	563,088

- = No data reported.

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

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

Table 2. Coal production by state

(thousand short tons)

Coal-producing region and state	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Alabama	3,648	3,538	2,850	11,085	9,754	13.7
Alaska	210	185	237	631	695	-9.2
Arizona	1,720	1,692	1,374	4,938	4,424	11.6
Arkansas	-	-	-	-	43	-
Colorado	3,628	3,779	3,147	10,682	11,301	-5.5
Illinois	12,346	12,096	11,328	37,053	36,768	0.8
Indiana	8,369	8,857	7,738	25,697	23,804	8.0
Kentucky Total	9,689	9,956	9,805	29,840	31,817	-6.2
Eastern (Kentucky)	4,123	4,339	4,222	12,899	13,525	-4.6
Western (Kentucky)	5,566	5,617	5,583	16,941	18,292	-7.4
Louisiana	512	447	164	1,191	1,589	-25.1
Maryland	273	285	430	936	1,405	-33.4
Mississippi	862	770	453	2,271	2,022	12.4
Missouri	64	65	63	194	184	5.1
Montana	9,568	9,077	10,450	27,704	25,493	8.7
New Mexico	3,045	1,740	3,175	6,808	11,078	-38.5
North Dakota	7,921	6,884	7,463	22,338	21,281	5.0
Ohio	2,404	1,671	2,368	6,525	7,048	-7.4
Oklahoma	241	251	131	623	416	49.8
Pennsylvania Total	11,675	13,498	11,666	37,136	36,919	0.6
Anthracite (Pennsylvania)	474	479	402	1,373	1,390	-1.2
Bituminous (Pennsylvania)	11,201	13,019	11,264	35,762	35,529	0.7
Tennessee	45	44	90	146	361	-59.6
Texas	6,642	6,486	9,439	19,192	26,503	-27.6
Utah	3,478	3,047	3,272	10,159	10,199	-0.4
Virginia	3,156	3,054	3,125	9,449	10,081	-6.3
West Virginia Total	23,505	25,031	21,603	71,911	68,546	4.9
Northern (West Virginia)	11,319	11,707	10,345	34,118	34,379	-0.8
Southern (West Virginia)	12,186	13,323	11,258	37,792	34,167	10.6
Wyoming	81,469	68,188	85,867	226,042	238,402	-5.2
Appalachia Total	48,827	51,461	46,353	150,087	147,638	1.7
Appalachia Central	19,509	20,761	18,694	60,287	58,133	3.7
Appalachia Northern	25,670	27,161	24,809	78,715	79,752	-1.3
Appalachia Southern	3,648	3,538	2,850	11,085	9,754	13.7
Interior Region Total	34,604	34,589	34,899	103,162	109,621	-5.9
Illinois Basin	26,281	26,570	24,649	79,691	78,864	1.0
Interior	8,322	8,018	10,250	23,471	30,757	-23.7
Western Region Total	111,039	94,592	114,985	309,301	322,874	-4.2
Powder River Basin	86,615	72,862	91,214	240,322	251,004	-4.3
Uinta Region	6,849	6,501	6,116	19,970	20,549	-2.8
Western	17,575	15,229	17,655	49,009	51,321	-4.5
East of Mississippi River	75,971	78,800	71,454	232,049	228,524	1.5
West of Mississippi River	118,500	101,841	124,782	330,501	351,609	-6.0
U.S. Subtotal	194,470	180,641	196,236	562,550	580,133	-3.0
Refuse recovery	193	145	204	537	544	-1.2
U.S. Total	194,663	180,785	196,440	563,088	580,677	-3.0

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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	1,130	1,089	1,037	3,175	3,010	5.5
East North Central	2,014	1,968	1,952	5,839	5,276	10.7
South Atlantic	332	315	313	955	923	3.4
East South Central	258	278	270	794	790	0.4
U.S. Total	3,734	3,650	3,573	10,762	9,998	7.6
Coke Total	3,546	3,479	3,411	10,244	9,562	7.1
Breeze Total	189	171	162	518	436	18.8

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of 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	-	-	87,163	4,352

- = No data reported.

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

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

Table 5. Average price of U.S. coal exports and imports, 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	-	-	102.72	82.02

- = No data reported.

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

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

Table 6. Quantity and average price of U.S. coal imports by origin, 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
U.S. Total	-	572,321	2,930,539	717,761	22,252	-	109,199	4,352,072

**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
U.S. Total	-	195.13	59.73	74.59	127.76	-	126.79	82.02

- = 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	3,508,089	3,445,334	2,699,593	8,974,032	7,312,805	22.7
Canada*	1,624,597	1,650,300	1,686,264	3,804,108	3,720,646	2.2
Dominican Republic	90,814	61,999	53,513	152,813	159,785	-4.4
Guatemala	71,620	48,505	177,612	203,841	638,117	-68.1
Honduras	42,219	42,532	10	123,111	35,989	242.1
Jamaica	-	36,396	35,795	36,396	102,149	-64.4
Mexico	1,439,991	1,488,846	705,461	4,205,116	2,452,631	71.5
Panama	56,836	53,286	40,905	152,562	139,668	9.2
Trinidad and Tobago	181,913	63,182	33	245,190	63,006	289.2
Other**	99	288	-	50,895	814	NM
South America Total	2,409,482	2,532,411	2,213,929	7,746,430	6,404,272	21.0
Argentina	185,522	93,047	102,154	543,957	361,578	50.4
Brazil	1,943,568	2,178,307	1,940,824	6,378,088	5,352,673	19.2
Chile	240,700	221,910	170,512	744,139	631,503	17.8
Peru	-	138	105	588	57,575	-99.0
Other**	39,692	39,009	334	79,658	943	NM
Europe Total	11,726,370	11,210,059	9,770,736	31,924,532	28,398,135	12.4
Austria	211,878	177,483	89,680	485,950	459,760	5.7
Belgium	222,220	310,133	267,669	833,614	988,458	-15.7
Croatia	667,762	484,825	578,673	1,905,184	1,473,966	29.3
Denmark (Except Greenland)	-	-	38,581	-	38,581	-
Finland	242,510	140,192	178,665	382,702	296,453	29.1
France	355,403	402,445	376,768	1,278,173	1,544,810	-17.3
Germany, Federal Republic of	871,622	1,034,775	1,221,263	2,709,418	3,350,736	-19.1
Greece	-	85,704	28,561	85,704	28,561	200.1
Ireland	-	-	-	-	91,569	-
Italy	853,944	840,660	601,065	2,417,641	2,155,530	12.2
Netherlands	3,492,205	2,856,637	2,656,175	8,544,938	7,532,920	13.4
Norway	19,451	16,100	17,686	51,964	58,972	-11.9
Poland	387,692	534,849	330,345	1,396,223	906,245	54.1
Portugal	93,855	256,262	298,240	498,022	473,978	5.1
Romania	97,459	99,428	12,131	282,999	114,405	147.4
Slovakia	-	-	88,224	55,139	375,093	-85.3
Slovenia	-	88,661	-	127,242	12,321	NM
Spain	598,164	416,626	355,898	1,443,841	1,298,711	11.2
Sweden	218,253	217,507	320,750	520,749	660,095	-21.1
Turkey	805,673	1,295,634	786,299	2,662,025	2,088,467	27.5
Ukraine	1,251,606	1,300,375	1,086,017	3,569,450	2,512,819	42.0
United Kingdom	1,272,996	651,205	419,710	2,608,988	1,916,573	36.1
Other**	63,677	558	18,336	64,566	19,112	237.8
Asia Total	9,166,009	11,305,097	8,599,356	31,750,390	23,299,412	36.3
China	434,413	1,018,960	1,047,088	2,472,025	2,795,654	-11.6
India	3,729,446	4,832,813	2,896,777	13,716,222	7,118,380	92.7
Japan	2,475,990	2,468,182	1,661,640	7,404,212	5,654,551	30.9
Pakistan	60,304	131,195	-	191,514	59,104	224.0
South Korea (Republic of Korea)	2,463,333	2,545,089	2,612,020	7,511,921	7,168,748	4.8
Taiwan	84	311	214,257	595	215,497	-99.7
Thailand	457	246,113	135,024	386,678	135,526	185.3
United Arab Emirates	29	-	23,469	35	82,552	-100.0
Other**	1,953	62,434	9,081	67,188	69,400	-3.2
Australia and Oceania Total	70	91	399	282	48,350	-99.4
Other**	70	91	399	282	48,350	-99.4
Africa Total	2,256,681	2,382,615	1,360,104	6,767,418	3,284,451	106.0

Continent and country of destination	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Egypt	922,142	1,504,517	555,131	3,154,647	1,051,409	200.0
Morocco	988,345	806,177	714,621	3,133,414	1,876,329	67.0
Nigeria	-	-	-	-	53,719	-
Senegal	38,381	-	67,220	71,450	105,800	-32.5
South Africa	79,946	136	101	80,417	118,347	-32.0
Togo	110,013	54,046	-	164,059	55,765	194.2
Other**	117,854	17,739	23,031	163,431	23,082	NM
Total	29,066,701	30,875,607	24,644,117	87,163,084	68,747,425	26.8

* 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: 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	82.30	84.59	83.42	78.02	79.05	-1.3
Canada*	105.29	114.57	99.93	108.55	97.63	11.2
Dominican Republic	59.22	63.80	47.17	61.08	64.34	-5.1
Guatemala	62.96	48.73	66.76	60.63	71.09	-14.7
Honduras	58.97	52.68	694.10	54.25	74.04	-26.7
Jamaica	-	54.50	55.34	54.50	43.63	24.9
Mexico	48.99	51.96	53.75	48.27	57.91	-16.6
Panama	58.97	54.48	58.31	56.14	46.62	20.4
Trinidad and Tobago	172.51	181.72	421.64	174.83	55.18	216.8
Other**	195.75	244.08	-	47.49	76.04	-37.5
South America Total	128.09	127.88	117.77	132.32	129.58	2.1
Argentina	169.48	167.66	133.31	177.05	155.08	14.2
Brazil	132.61	133.39	121.55	136.62	137.71	-0.8
Chile	68.52	68.47	64.48	68.61	50.26	36.5
Peru	-	724.02	372.44	449.69	74.03	NM
Other**	74.71	61.09	548.86	74.75	695.54	-89.3
Europe Total	112.50	118.78	106.15	117.55	115.28	2.0
Austria	164.41	174.34	143.34	173.04	205.63	-15.8
Belgium	158.08	161.50	146.81	160.22	137.24	16.7
Croatia	150.87	156.55	137.29	148.05	151.06	-2.0
Denmark (Except Greenland)	-	-	68.17	-	68.17	-
Finland	162.92	142.24	131.68	155.34	163.27	-4.9
France	123.64	160.99	133.14	134.83	135.98	-0.8
Germany, Federal Republic of	87.38	91.82	87.92	107.20	101.54	5.6
Greece	-	75.27	90.72	75.27	90.72	-17.0
Ireland	-	-	-	-	73.48	-
Italy	99.98	124.17	125.91	117.77	135.84	-13.3
Netherlands	87.18	92.67	72.50	87.37	72.11	21.2
Norway	149.21	132.22	137.34	145.42	130.89	11.1
Poland	118.62	138.75	153.25	134.29	129.56	3.7
Portugal	63.50	63.43	54.89	62.12	47.65	30.4
Romania	68.63	68.53	140.61	79.75	141.25	-43.5
Slovakia	-	-	147.88	144.66	151.69	-4.6
Slovenia	-	63.50	-	63.50	96.61	-34.3
Spain	112.75	95.08	101.41	110.56	104.47	5.8
Sweden	137.42	143.45	123.57	147.22	154.94	-5.0
Turkey	151.90	122.54	120.37	130.88	140.68	-7.0
Ukraine	161.67	165.95	132.42	162.65	172.92	-5.9
United Kingdom	82.74	105.72	120.04	96.89	95.78	1.2
Other**	158.06	94.35	127.10	157.19	125.41	25.3
Asia Total	87.64	95.05	90.60	94.75	100.63	-5.8
China	76.06	130.30	128.00	119.67	125.01	-4.3
India	92.43	99.08	87.41	97.19	104.43	-6.9
Japan	101.24	114.13	110.02	115.23	112.75	2.2
Pakistan	63.34	53.71	-	56.75	47.60	19.2
South Korea (Republic of Korea)	69.20	59.42	73.22	64.27	81.52	-21.2
Taiwan	463.19	118.62	31.89	221.90	32.26	NM
Thailand	267.30	74.83	59.70	69.83	60.37	15.7
United Arab Emirates	345.83	-	48.85	399.11	47.91	NM
Other**	235.39	71.80	193.15	81.61	115.74	-29.5
Australia and Oceania Total	579.76	533.29	335.36	429.58	171.64	150.3
Other**	579.76	533.29	335.36	429.58	171.64	150.3
Africa Total	73.67	70.00	97.16	69.09	83.78	-17.5

Continent and country of destination	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Egypt	69.20	73.48	142.39	70.12	114.47	-38.7
Morocco	64.93	62.84	67.40	63.56	67.11	-5.3
Nigeria	-	-	-	-	53.07	-
Senegal	58.97	-	56.26	55.61	58.08	-4.3
South Africa	181.58	544.67	542.60	183.74	136.66	34.5
Togo	62.68	63.50	-	62.95	45.59	38.1
Other**	123.86	116.54	47.72	111.03	51.95	113.7
Total	99.30	103.26	98.79	102.72	106.33	-3.4

* 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	1,818,494	1,859,180	1,293,749	5,086,068	3,962,278	28.4
Canada*	228,374	195,716	389,932	672,134	927,861	-27.6
Dominican Republic	90,814	61,999	53,513	152,813	108,297	41.1
Guatemala	71,620	48,505	177,612	203,841	638,117	-68.1
Honduras	42,219	42,532	10	123,111	35,989	242.1
Jamaica	-	36,396	35,795	36,396	102,149	-64.4
Mexico	1,328,500	1,357,276	595,949	3,631,007	2,009,164	80.7
Panama	56,836	53,286	40,905	152,562	139,668	9.2
Trinidad and Tobago	32	63,182	33	63,309	219	NM
Other**	99	288	-	50,895	814	NM
South America Total	427,118	351,492	316,320	1,073,787	856,816	25.3
Argentina	49,648	46,558	160	96,218	160	NM
Brazil	97,078	43,877	145,209	153,184	166,635	-8.1
Chile	240,700	221,910	170,512	744,139	631,503	17.8
Peru	-	138	105	588	57,575	-99.0
Other**	39,692	39,009	334	79,658	943	NM
Europe Total	4,641,243	3,656,506	3,241,957	11,182,139	10,380,617	7.7
Austria	375	-	375	375	1,971	-81.0
Belgium	43	-	22	43	432	-90.0
Croatia	78,264	-	-	90,345	-	-
Denmark (Except Greenland)	-	-	38,581	-	38,581	-
Finland	1	14,330	-	14,331	-	-
France	153,358	-	-	340,992	412,463	-17.3
Germany, Federal Republic of	643,605	672,232	560,858	1,545,746	1,562,213	-1.1
Greece	-	85,704	28,561	85,704	28,561	200.1
Italy	404,489	312,690	78,208	952,895	466,982	104.1
Netherlands	1,619,119	1,164,383	1,700,194	3,953,075	4,997,174	-20.9
Norway	4,189	-	8,818	4,189	8,818	-52.5
Poland	210,425	269,544	-	564,160	188,076	200.0
Portugal	93,855	173,303	298,240	415,063	389,181	6.7
Romania	-	-	-	41,201	-	-
Slovakia	-	-	-	23	-	-
Slovenia	-	-	-	-	12,321	-
Spain	347,315	277,826	160,119	820,011	687,143	19.3
Sweden	-	34,074	98,238	34,074	98,466	-65.4
Turkey	86,085	251,977	171,135	476,388	408,619	16.6
Ukraine	-	-	-	110,735	-	-
United Kingdom	999,678	399,885	98,220	1,731,458	1,078,452	60.6
Other**	442	558	388	1,331	1,164	14.3
Asia Total	6,247,961	6,446,802	4,256,453	18,671,429	11,204,564	66.6
China	189,700	2,216	596	371,919	265,663	40.0
India	3,054,197	2,923,202	1,809,947	8,975,098	4,342,495	106.7
Japan	1,356,633	1,179,621	513,554	3,272,431	1,748,824	87.1
Pakistan	60,304	131,195	-	191,514	59,104	224.0
South Korea (Republic of Korea)	1,584,909	1,902,015	1,558,546	5,406,581	4,309,129	25.5
Taiwan	84	311	214,257	595	215,497	-99.7
Thailand	304	245,960	134,871	386,372	135,220	185.7
United Arab Emirates	29	-	23,469	35	82,552	-100.0
Other**	1,801	62,282	1,213	66,884	46,080	45.1
Australia and Oceania Total	70	91	399	282	937	-69.9
Other**	70	91	399	282	937	-69.9
Africa Total	1,411,101	1,616,409	690,678	4,808,792	1,875,917	156.3
Egypt	844,981	1,238,564	400,807	2,811,533	637,367	341.1

Continent and country of destination	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Morocco	389,390	305,924	199,519	1,687,366	1,000,017	68.7
Nigeria	-	-	-	-	53,719	-
Senegal	38,381	-	67,220	71,450	105,800	-32.5
South Africa	28	136	101	499	167	198.8
Togo	110,013	54,046	-	164,059	55,765	194.2
Other**	28,308	17,739	23,031	73,885	23,082	220.1
Total	14,545,987	13,930,480	9,799,556	40,822,497	28,281,129	44.3

* 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: 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	51.45	54.38	57.76	51.50	55.82	-7.7
Canada*	103.20	123.11	89.35	103.76	88.15	17.7
Dominican Republic	59.22	63.80	47.17	61.08	47.49	28.6
Guatemala	62.96	48.73	66.76	60.63	71.09	-14.7
Honduras	58.97	52.68	694.10	54.25	74.04	-26.7
Jamaica	-	54.50	55.34	54.50	43.63	24.9
Mexico	40.81	38.32	35.44	38.38	37.39	2.6
Panama	58.97	54.48	58.31	56.14	46.62	20.4
Trinidad and Tobago	1,016.47	181.72	421.64	181.91	270.25	-32.7
Other**	195.75	244.08	-	47.49	76.04	-37.5
South America Total	84.86	85.67	67.40	81.96	57.96	41.4
Argentina	172.45	172.18	288.03	172.33	288.03	-40.2
Brazil	84.73	100.73	69.26	92.43	77.76	18.9
Chile	68.52	68.47	64.48	68.61	50.26	36.5
Peru	-	724.02	372.44	449.69	74.03	NM
Other**	74.71	61.09	548.86	74.75	695.54	-89.3
Europe Total	68.05	68.05	64.68	67.56	62.44	8.2
Austria	27.66	-	27.66	27.66	26.31	5.1
Belgium	385.58	-	583.59	385.58	73.24	426.5
Croatia	90.72	-	-	87.08	-	-
Denmark (Except Greenland)	-	-	68.17	-	68.17	-
Finland	3,654.00	181.17	-	181.41	-	-
France	66.94	-	-	62.63	74.50	-15.9
Germany, Federal Republic of	62.50	61.91	57.84	61.07	54.73	11.6
Greece	-	75.27	90.72	75.27	90.72	-17.0
Italy	63.53	63.75	108.45	64.77	77.00	-15.9
Netherlands	66.89	64.45	60.39	65.69	58.07	13.1
Norway	140.61	-	131.55	140.61	131.55	6.9
Poland	75.17	96.49	-	84.37	68.30	23.5
Portugal	63.50	63.40	54.89	61.84	49.49	25.0
Romania	-	-	-	63.50	-	-
Slovakia	-	-	-	2,044.35	-	-
Slovenia	-	-	-	-	96.61	-
Spain	63.90	67.13	55.77	69.96	56.06	24.8
Sweden	-	181.16	92.91	181.16	92.86	95.1
Turkey	199.20	54.29	115.87	85.93	132.52	-35.2
Ukraine	-	-	-	63.50	-	-
United Kingdom	62.47	69.14	55.05	65.41	59.46	10.0
Other**	123.39	94.35	89.75	104.22	86.89	19.9
Asia Total	65.64	63.33	49.91	61.92	51.83	19.5
China	33.74	287.15	375.87	35.37	42.30	-16.4
India	80.64	76.08	58.11	73.00	58.04	25.8
Japan	69.86	71.01	68.31	71.60	72.80	-1.6
Pakistan	63.34	53.71	-	56.75	47.60	19.2
South Korea (Republic of Korea)	36.77	37.61	35.57	38.84	38.10	1.9
Taiwan	463.19	118.62	31.89	221.90	32.26	NM
Thailand	351.64	74.81	59.65	69.80	60.28	15.8
United Arab Emirates	345.83	-	48.85	399.11	47.91	NM
Other**	246.82	71.73	409.14	81.53	88.50	-7.9
Australia and Oceania Total	579.76	533.29	335.36	429.58	341.47	25.8
Other**	579.76	533.29	335.36	429.58	341.47	25.8
Africa Total	62.28	63.24	100.95	62.85	75.11	-16.3
Egypt	59.86	63.07	131.19	62.44	100.67	-38.0

Continent and country of destination	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Morocco	67.94	60.56	61.19	63.36	63.91	-0.9
Nigeria	-	-	-	-	53.07	-
Senegal	58.97	-	56.26	55.61	58.08	-4.3
South Africa	587.71	544.67	542.60	552.54	546.93	1.0
Togo	62.68	63.50	-	62.95	45.59	38.1
Other**	58.97	116.54	47.72	70.61	51.95	35.9
Total	64.88	63.93	60.01	62.81	58.02	8.3

* 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: 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	1,689,595	1,586,154	1,405,844	3,887,964	3,350,527	16.0
Canada*	1,396,223	1,454,584	1,296,332	3,131,974	2,792,785	12.1
Dominican Republic	-	-	-	-	51,488	-
Mexico	111,491	131,570	109,512	574,109	443,467	29.5
Trinidad and Tobago	181,881	-	-	181,881	62,787	189.7
South America Total	1,982,364	2,180,919	1,897,609	6,672,643	5,547,456	20.3
Argentina	135,874	46,489	101,994	447,739	361,418	23.9
Brazil	1,846,490	2,134,430	1,795,615	6,224,904	5,186,038	20.0
Europe Total	7,085,127	7,553,553	6,528,779	20,742,393	18,017,518	15.1
Austria	211,503	177,483	89,305	485,575	457,789	6.1
Belgium	222,177	310,133	267,647	833,571	988,026	-15.6
Croatia	589,498	484,825	578,673	1,814,839	1,473,966	23.1
Finland	242,509	125,862	178,665	368,371	296,453	24.3
France	202,045	402,445	376,768	937,181	1,132,347	-17.2
Germany, Federal Republic of	228,017	362,543	660,405	1,163,672	1,788,523	-34.9
Ireland	-	-	-	-	91,569	-
Italy	449,455	527,970	522,857	1,464,746	1,688,548	-13.3
Netherlands	1,873,086	1,692,254	955,981	4,591,863	2,535,746	81.1
Norway	15,262	16,100	8,868	47,775	50,154	-4.7
Poland	177,267	265,305	330,345	832,063	718,169	15.9
Portugal	-	82,959	-	82,959	84,797	-2.2
Romania	97,459	99,428	12,131	241,798	114,405	111.4
Slovakia	-	-	88,224	55,116	375,093	-85.3
Slovenia	-	88,661	-	127,242	-	-
Spain	250,849	138,800	195,779	623,830	611,568	2.0
Sweden	218,253	183,433	222,512	486,675	561,629	-13.3
Turkey	719,588	1,043,657	615,164	2,185,637	1,679,848	30.1
Ukraine	1,251,606	1,300,375	1,086,017	3,458,715	2,512,819	37.6
United Kingdom	273,318	251,320	321,490	877,530	838,121	4.7
Other**	63,235	-	17,948	63,235	17,948	252.3
Asia Total	2,918,048	4,858,295	4,342,903	13,078,961	12,094,848	8.1
China	244,713	1,016,744	1,046,492	2,100,106	2,529,991	-17.0
India	675,249	1,909,611	1,086,830	4,741,124	2,775,885	70.8
Japan	1,119,357	1,288,561	1,148,086	4,131,781	3,905,727	5.8
South Korea (Republic of Korea)	878,424	643,074	1,053,474	2,105,340	2,859,619	-26.4
Thailand	153	153	153	306	306	s
Other**	152	152	7,868	304	23,320	-98.7
Australia and Oceania Total	-	-	-	-	47,413	-
Other**	-	-	-	-	47,413	-
Africa Total	845,580	766,206	669,426	1,958,626	1,408,534	39.1
Egypt	77,161	265,953	154,324	343,114	414,042	-17.1
Morocco	598,955	500,253	515,102	1,446,048	876,312	65.0
South Africa	79,918	-	-	79,918	118,180	-32.4
Other**	89,546	-	-	89,546	-	-
Total	14,520,714	16,945,127	14,844,561	46,340,587	40,466,296	14.5

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

** Includes countries with coal exports less than or equal to 50,000 short tons in 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 12. Average price of U.S. metallurgical coal exports

(dollars per short ton)

Continent and country of destination	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	115.51	120.00	107.03	112.69	106.52	5.8
Canada*	105.63	113.42	103.12	109.58	100.77	8.7
Dominican Republic	-	-	-	-	99.79	-
Mexico	146.46	192.69	153.35	110.81	150.89	-26.6
Trinidad and Tobago	172.37	-	-	172.37	54.43	216.7
South America Total	137.40	134.68	126.17	140.42	140.64	-0.2
Argentina	168.39	163.14	133.07	178.06	155.02	14.9
Brazil	135.12	134.06	125.78	137.71	139.64	-1.4
Europe Total	141.62	143.34	126.75	144.49	145.72	-0.8
Austria	164.65	174.34	143.82	173.15	206.40	-16.1
Belgium	158.04	161.50	146.77	160.21	137.27	16.7
Croatia	158.86	156.55	137.29	151.08	151.06	s
Finland	162.91	137.80	131.68	154.33	163.27	-5.5
France	166.68	160.99	133.14	161.10	158.37	1.7
Germany, Federal Republic of	157.61	147.28	113.47	168.49	142.42	18.3
Ireland	-	-	-	-	73.48	-
Italy	132.78	159.96	128.53	152.25	152.11	0.1
Netherlands	104.72	112.08	94.03	106.04	99.77	6.3
Norway	151.58	132.22	143.09	145.85	130.78	11.5
Poland	170.21	181.68	153.25	168.13	145.61	15.5
Portugal	-	63.50	-	63.50	39.19	62.0
Romania	68.63	68.53	140.61	82.52	141.25	-41.6
Slovakia	-	-	147.88	143.87	151.69	-5.2
Slovenia	-	63.50	-	63.50	-	-
Spain	180.38	151.03	138.74	163.93	158.87	3.2
Sweden	137.42	136.44	137.11	144.84	165.82	-12.7
Turkey	146.24	139.02	121.62	140.68	142.67	-1.4
Ukraine	161.67	165.95	132.42	165.82	172.92	-4.1
United Kingdom	156.87	163.93	139.89	159.01	142.53	11.6
Other**	158.31	-	127.91	158.31	127.91	23.8
Asia Total	134.74	137.13	130.48	141.62	145.85	-2.9
China	108.86	129.96	127.86	134.59	133.69	0.7
India	145.75	134.29	136.21	142.98	176.99	-19.2
Japan	139.26	153.61	128.67	149.78	130.64	14.7
South Korea (Republic of Korea)	127.72	123.94	128.91	129.56	146.95	-11.8
Thailand	99.71	99.66	99.71	99.68	99.71	s
Other**	100.00	100.00	159.85	100.00	169.56	-41.0
Australia and Oceania Total	-	-	-	-	168.28	-
Other**	-	-	-	-	168.28	-
Africa Total	92.69	84.26	93.24	84.42	95.34	-11.5
Egypt	171.46	121.94	171.46	133.08	135.71	-1.9
Morocco	62.97	64.23	69.80	63.79	70.77	-9.9
South Africa	181.44	-	-	181.44	136.08	33.3
Other**	144.38	-	-	144.38	-	-
Total	133.77	135.59	124.39	137.89	140.09	-1.6

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

** Includes countries with coal exports less than or equal to 50,000 short tons in 2017.

- = No data reported.

s = Absolute percentage less than 0.05.

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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Eastern Total	16,279,437	18,738,392	14,875,014	50,319,623	40,981,292	22.8
Baltimore, MD	5,407,066	5,875,327	5,096,774	16,826,273	14,317,308	17.5
Buffalo, NY	1,026,817	1,012,309	552,256	2,100,043	1,004,224	109.1
New York City, NY	3,115	2,665	158,442	90,759	167,893	-45.9
Norfolk, VA	9,793,975	11,804,309	8,989,234	31,191,700	25,302,615	23.3
Ogdensburg, NY	25,251	34,734	51,298	68,989	84,069	-17.9
Philadelphia, PA	22,994	8,822	26,796	40,976	104,874	-60.9
Portland, ME	47	139	91	489	119	310.9
St. Albans, VT	172	42	123	349	190	83.7
Washington, DC	-	45	-	45	-	-
Southern Total	8,959,101	8,080,295	6,131,789	25,586,865	18,033,540	41.9
Charleston, SC	80	103	190	258	486	-46.9
Dallas/Fort Worth, TX	-	-	-	83	-	-
El Paso, TX	38,577	38,185	50,532	123,546	144,782	-14.7
Houston-Galveston, TX	310,248	169,112	137,007	846,469	201,819	319.4
Laredo, TX	520,585	605,406	509,639	1,693,411	1,792,618	-5.5
Miami, FL	2,053	1,536	30	5,270	568	NM
Mobile, AL	2,551,057	2,521,263	3,101,547	8,159,895	8,121,719	0.5
New Orleans, LA	5,535,164	4,742,877	2,332,607	14,693,865	7,770,778	89.1
Port Arthur, TX	-	-	-	60,627	-	-
Savannah, GA	1,258	1,194	198	2,743	631	334.7
Tampa, FL	79	619	39	698	139	402.2
Western Total	3,321,126	3,453,152	2,554,309	9,826,752	7,347,711	33.7
Anchorage, AK	-	50	-	50	272	-81.6
Great Falls, MT	138	562	42	2,419	139	NM
Honolulu, HI	-	-	-	1	75	-98.7
Los Angeles, CA	405,164	363,000	205,239	1,074,707	864,305	24.3
Nogales, AZ	390,133	368,037	36,178	1,015,237	36,228	NM
Portland, OR	3	-	-	6	2	200.0
San Diego, CA	22	280	-	462	56	NM
San Francisco, CA	636,329	843,091	722,030	2,213,573	2,141,209	3.4
Seattle, WA	1,889,337	1,878,132	1,590,820	5,520,297	4,305,425	28.2
Northern Total	502,411	599,896	1,077,828	1,417,863	2,361,231	-40.0
Chicago, IL	79	-	32,614	79	32,661	-99.8
Cleveland, OH	349,043	416,268	784,128	986,606	1,877,301	-47.4
Detroit, MI	81,315	109,219	94,148	213,044	207,789	2.5
Duluth, MN	-	2,553	4,153	3,725	9,336	-60.1
Minneapolis, MN	67,200	67,903	158,329	202,785	220,511	-8.0
Pembina, ND	4,774	3,953	4,456	11,624	13,633	-14.7
Other Ports	4,626	3,872	5,177	11,981	23,651	-49.3
Total	29,066,701	30,875,607	24,644,117	87,163,084	68,747,425	26.8

- = 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 14. Steam coal exports by customs district

(short tons)

Customs district	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Eastern Total	4,481,082	4,750,953	3,886,640	13,337,123	10,761,023	23.9
Baltimore, MD	2,888,523	3,067,299	2,441,907	8,523,525	6,788,685	25.6
Buffalo, NY	2,802	2,655	3,767	7,991	11,431	-30.1
New York City, NY	3,115	2,577	158,442	90,671	167,844	-46.0
Norfolk, VA	1,540,198	1,651,838	1,204,598	4,624,466	3,605,412	28.3
Ogdensburg, NY	23,294	17,557	50,916	48,716	82,468	-40.9
Philadelphia, PA	22,994	8,822	26,796	40,976	104,874	-60.9
Portland, ME	47	139	91	489	119	310.9
St. Albans, VT	109	21	123	244	190	28.4
Washington, DC	-	45	-	45	-	-
Southern Total	6,606,930	5,550,339	3,023,063	17,248,322	9,585,956	79.9
Charleston, SC	80	103	38	258	82	214.6
El Paso, TX	38,577	38,185	50,532	123,546	144,782	-14.7
Houston-Galveston, TX	310,163	169,112	137,007	846,384	201,819	319.4
Laredo, TX	520,069	583,075	509,251	1,660,250	1,760,064	-5.7
Miami, FL	2,053	1,536	30	5,270	568	NM
Mobile, AL	215,054	152,055	98,238	445,945	110,559	303.4
New Orleans, LA	5,519,902	4,604,612	2,227,883	14,103,208	7,367,847	91.4
Port Arthur, TX	-	-	-	60,627	-	-
Savannah, GA	953	1,042	45	2,136	96	NM
Tampa, FL	79	619	39	698	139	402.2
Western Total	3,321,126	3,453,152	2,554,309	9,826,752	7,347,659	33.7
Anchorage, AK	-	50	-	50	220	-77.3
Great Falls, MT	138	562	42	2,419	139	NM
Honolulu, HI	-	-	-	1	75	-98.7
Los Angeles, CA	405,164	363,000	205,239	1,074,707	864,305	24.3
Nogales, AZ	390,133	368,037	36,178	1,015,237	36,228	NM
Portland, OR	3	-	-	6	2	200.0
San Diego, CA	22	280	-	462	56	NM
San Francisco, CA	636,329	843,091	722,030	2,213,573	2,141,209	3.4
Seattle, WA	1,889,337	1,878,132	1,590,820	5,520,297	4,305,425	28.2
Northern Total	132,223	172,164	330,367	398,319	562,850	-29.2
Chicago, IL	79	-	-	79	47	68.1
Cleveland, OH	60,706	60,517	119,498	121,243	213,032	-43.1
Detroit, MI	32,811	67,215	43,931	122,426	106,291	15.2
Duluth, MN	-	2,553	4,153	3,725	9,336	-60.1
Minneapolis, MN	33,853	38,141	158,329	139,676	220,511	-36.7
Pembina, ND	4,774	3,738	4,456	11,170	13,633	-18.1
Other Ports	4,626	3,872	5,177	11,981	23,641	-49.3
Total	14,545,987	13,930,480	9,799,556	40,822,497	28,281,129	44.3

- = 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 15. Metallurgical coal exports by customs district

(short tons)

Customs district	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Eastern Total	11,798,355	13,987,439	10,988,374	36,982,500	30,220,269	22.4
Baltimore, MD	2,518,543	2,808,028	2,654,867	8,302,748	7,528,623	10.3
Buffalo, NY	1,024,015	1,009,654	548,489	2,092,052	992,793	110.7
New York City, NY	-	88	-	88	49	79.6
Norfolk, VA	8,253,777	10,152,471	7,784,636	26,567,234	21,697,203	22.4
Ogdensburg, NY	1,957	17,177	382	20,273	1,601	NM
St. Albans, VT	63	21	-	105	-	-
Southern Total	2,352,171	2,529,956	3,108,726	8,338,543	8,447,584	-1.3
Charleston, SC	-	-	152	-	404	-
Dallas/Fort Worth, TX	-	-	-	83	-	-
Houston-Galveston, TX	85	-	-	85	-	-
Laredo, TX	516	22,331	388	33,161	32,554	1.9
Mobile, AL	2,336,003	2,369,208	3,003,309	7,713,950	8,011,160	-3.7
New Orleans, LA	15,262	138,265	104,724	590,657	402,931	46.6
Savannah, GA	305	152	153	607	535	13.5
Western Total	-	-	-	-	52	-
Anchorage, AK	-	-	-	-	52	-
Northern Total	370,188	427,732	747,461	1,019,544	1,798,381	-43.3
Chicago, IL	-	-	32,614	-	32,614	-
Cleveland, OH	288,337	355,751	664,630	865,363	1,664,269	-48.0
Detroit, MI	48,504	42,004	50,217	90,618	101,498	-10.7
Minneapolis, MN	33,347	29,762	-	63,109	-	-
Pembina, ND	-	215	-	454	-	-
Other Ports	-	-	-	-	10	-
Total	14,520,714	16,945,127	14,844,561	46,340,587	40,466,296	14.5

- = No data reported.

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

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

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

Table 16. U.S. coke exports

(short tons)

Continent and country of destination	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	205,873	214,950	277,649	674,278	678,457	-0.6
Canada*	161,579	155,033	183,506	490,417	527,655	-7.1
Mexico	44,032	59,481	93,601	183,029	149,790	22.2
Other**	262	436	542	832	1,012	-17.8
South America Total	20	-	69	41	95	-56.8
Other**	20	-	69	41	95	-56.8
Europe Total	13	70,417	110	100,465	32,147	212.5
Other**	13	70,417	110	100,465	32,147	212.5
Asia Total	368	363	343	1,083	22,107	-95.1
Other**	368	363	343	1,083	22,107	-95.1
Australia and Oceania Total	214	107	171	395	248	59.3
Other**	214	107	171	395	248	59.3
Africa Total	-	-	-	20,478	18,188	12.6
Other**	-	-	-	20,478	18,188	12.6
Total	206,488	285,837	278,342	796,740	751,242	6.1

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

** Includes countries with coal exports less than or equal to 50,000 short tons in 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	289.71	307.65	257.78	281.58	248.28	13.4
Canada*	284.76	294.28	249.07	272.67	234.16	16.4
Mexico	306.08	340.41	274.22	304.07	296.42	2.6
Other**	592.53	588.82	364.51	586.49	487.04	20.4
South America Total	530.00	-	529.43	515.22	526.36	-2.1
Other**	530.00	-	529.43	515.22	526.36	-2.1
Europe Total	453.85	237.94	461.85	238.88	107.61	122.0
Other**	453.85	237.94	461.85	238.88	107.61	122.0
Asia Total	801.85	779.37	826.23	751.76	176.11	326.9
Other**	801.85	779.37	826.23	751.76	176.11	326.9
Australia and Oceania Total	546.26	307.93	463.73	440.11	401.23	9.7
Other**	546.26	307.93	463.73	440.11	401.23	9.7
Africa Total	-	-	-	90.72	90.72	s
Other**	-	-	-	90.72	90.72	s
Total	290.93	291.07	258.75	272.02	236.41	15.1

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

** Includes countries with coal exports less than or equal to 50,000 short tons in 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	256,680	210,835	306,531	572,764	716,362	-20.0
Canada	256,680	210,538	306,509	572,321	716,292	-20.1
Mexico	-	297	22	443	70	NM
South America Total	840,050	1,057,937	1,767,474	2,930,847	5,207,248	-43.7
Colombia	839,988	1,057,691	1,767,445	2,930,539	5,207,161	-43.7
Peru	62	246	29	308	87	254.0
Europe Total	32,537	307	34,862	60,268	35,644	69.1
Germany, Federal Republic of	574	217	391	808	1,136	-28.9
Luxembourg	1,102	-	-	1,102	-	-
Russia	30,316	60	34,420	30,406	34,449	-11.7
Ukraine	-	-	-	27,377	-	-
United Kingdom	545	30	51	575	59	NM
Asia Total	273,067	277,321	199,116	751,817	460,133	63.4
China	13,312	3,978	2,081	22,252	3,959	462.1
Hong Kong	3,920	7,693	827	11,613	827	NM
India	-	-	-	-	280	-
Indonesia	255,835	265,469	196,208	717,761	455,067	57.7
Japan	-	-	-	10	-	-
Philippines	-	181	-	181	-	-
Australia and Oceania Total	-	-	-	-	700	-
Australia	-	-	-	-	700	-
Africa Total	36,376	-	-	36,376	-	-
South Africa	36,376	-	-	36,376	-	-
Total	1,438,710	1,546,400	2,307,983	4,352,072	6,420,087	-32.2

- = 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	186.35	212.53	188.40	195.12	191.93	1.7
Canada	186.35	212.64	188.40	195.13	191.92	1.7
Mexico	-	136.53	199.55	176.62	335.06	-47.3
South America Total	61.94	59.36	62.12	59.75	63.82	-6.4
Colombia	61.92	59.31	62.12	59.73	63.81	-6.4
Peru	268.21	260.17	262.10	261.79	264.62	-1.1
Europe Total	171.14	144.20	123.59	142.05	122.98	15.5
Germany, Federal Republic of	74.75	74.95	93.49	76.02	87.74	-13.4
Luxembourg	490.09	-	-	490.09	-	-
Russia	162.38	304.73	124.00	162.69	124.17	31.0
Ukraine	-	-	-	107.41	-	-
United Kingdom	115.05	324.00	74.51	125.95	106.53	18.2
Asia Total	77.95	74.37	60.79	76.17	59.78	27.4
China	74.93	260.72	69.52	127.76	112.65	13.4
Hong Kong	74.94	74.93	224.00	74.93	224.00	-66.5
India	-	-	-	-	84.75	-
Indonesia	78.15	71.57	60.01	74.59	59.00	26.4
Japan	-	-	-	221.00	-	-
Philippines	-	65.78	-	65.78	-	-
Australia and Oceania Total	-	-	-	-	74.89	-
Australia	-	-	-	-	74.89	-
Africa Total	116.57	-	-	116.57	-	-
South Africa	116.57	-	-	116.57	-	-
U.S. Total*	91.02	82.95	79.71	82.02	78.15	5.0

* 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Eastern Total	53,093	68,551	2,124	199,475	126,771	57.4
Baltimore, MD	139	515	278	654	278	135.3
Boston, MA	52,922	67,241	-	120,163	45,176	166.0
Buffalo, NY	32	41	516	207	1,272	-83.7
New York City, NY	-	754	1,330	771	1,792	-57.0
Ogdensburg, NY	-	-	-	-	187	-
Philadelphia, PA	-	-	-	-	21	-
Portland, ME	-	-	-	77,680	78,045	-0.5
Southern Total	924,937	1,068,376	1,803,186	2,980,677	5,122,183	-41.8
Houston-Galveston, TX	390	2,717	29	4,419	1,489	196.8
Laredo, TX	-	7	22	57	70	-18.6
Miami, FL	-	37,336	36,420	71,105	70,599	0.7
Mobile, AL	547,596	575,437	578,951	1,836,466	1,332,765	37.8
New Orleans, LA	17,867	7,041	1,336	28,331	2,323	NM
San Juan, PR	325,040	376,688	361,011	843,191	1,217,133	-30.7
Tampa, FL	34,044	69,150	825,417	197,108	2,497,804	-92.1
Western Total	267,824	272,662	293,400	774,154	733,209	5.6
Columbia-Snake, OR	-	181	-	181	-	-
Great Falls, MT	63,615	73,799	96,299	173,794	210,630	-17.5
Honolulu, HI	202,913	198,228	196,208	597,598	521,101	14.7
Los Angeles, CA	-	-	10	-	10	-
Nogales, AZ	-	290	-	386	-	-
San Francisco, CA	60	60	30	150	59	154.2
Seattle, WA	1,236	104	853	2,045	1,409	45.1
Northern Total	192,856	136,811	209,273	397,766	437,924	-9.2
Chicago, IL	-	-	10	215	10	NM
Cleveland, OH	574	217	208	791	769	2.9
Detroit, MI	123,659	95,144	128,978	220,250	193,116	14.1
Duluth, MN	-	179	42	808	252	220.6
Pembina, ND	68,623	41,271	80,035	175,702	243,777	-27.9
Total	1,438,710	1,546,400	2,307,983	4,352,072	6,420,087	-32.2

- = 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	709	22,317	380	23,243	2,791	NM
Canada	709	22,317	380	23,243	2,780	NM
Mexico	-	-	-	-	11	-
South America Total	6,063	32,031	-	38,094	-	-
Chile	-	16,819	-	16,819	-	-
Colombia	6,063	15,212	-	21,275	-	-
Europe Total	43	8,596	266	8,654	22,858	-62.1
Czech Republic	-	8,284	-	8,284	-	-
Germany, Federal Republic of	43	105	-	148	8	NM
Italy	-	196	262	196	604	-67.5
Poland	-	-	-	-	22,220	-
United Kingdom	-	11	4	26	26	s
Asia Total	1,015	828	835	2,545	1,080	135.6
China	-	-	276	48	423	-88.7
Indonesia	-	28	78	56	176	-68.2
Japan	618	800	481	2,044	481	324.9
Saudi Arabia	397	-	-	397	-	-
Africa Total	2,053	3,850	3,389	9,211	6,667	38.2
Egypt	-	14	-	14	-	-
South Africa	2,053	3,836	3,389	9,197	6,667	37.9
U.S. Total	9,883	67,622	4,870	81,747	33,396	144.8

- = No data reported.

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

s = Absolute percentage less than 0.05.

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

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

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

(dollars per short ton)

Continent and country of origin	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
North America Total	205.42	298.85	152.77	294.59	162.35	81.5
Canada	205.42	298.85	152.77	294.59	161.54	82.4
Mexico	-	-	-	-	367.73	-
South America Total	298.00	100.33	-	131.79	-	-
Chile	-	122.96	-	122.96	-	-
Colombia	298.00	75.30	-	138.76	-	-
Europe Total	532.67	327.85	287.52	329.70	107.35	207.1
Czech Republic	-	326.57	-	326.57	-	-
Germany, Federal Republic of	532.67	454.30	-	477.07	617.50	-22.7
Italy	-	286.97	280.07	286.97	283.18	1.3
Poland	-	-	-	-	101.61	-
United Kingdom	-	818.18	775.00	811.54	773.08	5.0
Asia Total	420.60	347.61	510.64	385.12	584.14	-34.1
China	-	-	631.29	707.71	682.76	3.7
Indonesia	-	1,206.79	1,278.09	1,183.13	1,077.29	9.8
Japan	317.77	317.54	316.96	317.70	316.96	0.2
Saudi Arabia	580.69	-	-	580.69	-	-
Africa Total	566.99	471.57	330.34	462.71	326.89	41.5
Egypt	-	3,405.00	-	3,405.00	-	-
South Africa	566.99	460.86	330.34	458.23	326.89	40.2
U.S. Total	360.85	218.93	345.06	244.20	171.19	42.6

- = 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	1,592	1,434	1,367	4,300	3,835	12.1
East North Central	2,584	2,567	2,436	7,183	7,032	2.1
South Atlantic	421	428	436	1,267	1,228	3.2
East South Central	348	306	306	982	957	2.6
U.S. Total	4,945	4,735	4,545	13,731	13,052	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 24. Average price of coal receipts at coke plants by census division

(dollars per short ton)

Census division	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	w	w	w	w	w	w
East North Central	137.89	136.24	138.73	137.43	132.73	3.5
South Atlantic	w	w	w	w	w	w
East South Central	w	w	w	w	w	w
U.S. Total	129.82	126.23	126.36	128.21	121.94	5.1

w = Data withheld to avoid disclosure.

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Coke						
Sales	1,705	1,746	1,620	5,100	4,757	7.2
Average Price	301.55	303.39	274.05	304.24	271.72	12.0
Breeze						
Sales	155	145	178	402	379	6.1
Average Price	73.64	94.32	69.91	83.16	73.83	12.6

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

(thousand short tons)

Census division and state	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
New England	5	5	5	19	16	17.6
Maine	4	4	4	17	13	26.4
Massachusetts	1	1	1	3	3	-19.9
Middle Atlantic	191	233	246	662	853	-22.4
New York	54	89	64	233	236	-1.2
Pennsylvania	136	144	182	429	618	-30.5
East North Central	1,528	1,684	1,723	4,631	5,103	-9.2
Illinois	605	741	654	1,943	1,984	-2.1
Indiana	448	397	472	1,201	1,497	-19.8
Michigan	160	203	214	485	525	-7.7
Ohio	118	126	141	383	412	-6.8
Wisconsin	197	217	242	619	685	-9.7
West North Central	3,009	2,834	3,185	8,904	9,305	-4.3
Iowa	621	603	613	1,828	1,832	-0.2
Kansas	27	18	28	72	80	-10.7
Minnesota	216	199	257	615	850	-27.7
Missouri	227	204	313	632	702	-9.9
Nebraska	275	248	285	845	852	-0.9
North Dakota	1,600	1,505	1,623	4,770	4,801	-0.7
South Dakota	43	56	66	143	187	-23.2
South Atlantic	710	685	754	2,128	2,267	-6.2
Florida	142	103	152	375	437	-14.3
Georgia	82	78	82	267	239	11.5
Maryland	121	144	145	377	415	-9.0
North Carolina	93	95	100	305	350	-12.9
South Carolina	57	51	55	152	188	-19.3
Virginia	111	119	123	362	362	s
West Virginia	103	93	97	290	276	5.2
East South Central	765	804	831	2,349	2,532	-7.2
Alabama	221	237	226	685	683	0.3
Kentucky	184	198	192	562	639	-12.0
Tennessee	360	369	412	1,102	1,210	-8.9
West South Central	316	342	414	995	1,142	-12.9
Arkansas	45	37	41	139	146	-4.7
Louisiana	63	66	67	187	177	5.9
Oklahoma	59	87	108	258	344	-25.1
Texas	150	151	197	411	475	-13.5
Mountain	718	728	878	2,277	2,428	-6.2
Arizona	75	63	44	213	145	46.9
Colorado	22	36	55	136	187	-27.4
Idaho	28	24	31	70	73	-3.1
Montana	35	45	51	146	167	-12.3
Nevada	62	81	81	210	201	4.9
New Mexico	20	18	15	53	50	6.2
Utah	83	106	180	278	384	-27.7
Wyoming	391	355	422	1,170	1,221	-4.2
Pacific	421	373	414	1,170	1,132	3.3
Alaska	s	s	s	1	1	s
California	402	338	389	1,085	1,060	2.3
Oregon	6	13	10	35	10	251.4
Washington	13	22	16	49	61	-19.3
U.S. Total	7,663	7,688	8,451	23,136	24,779	-6.6

- = No data reported.

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

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

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

(dollars per short ton)

Census division and state	July - September 2018	April - June 2018	July - September 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	94.00	100.02	85.48	94.06	80.78	16.4
New York	w	w	132.49	w	w	w
Pennsylvania	w	w	68.78	w	w	w
East North Central	72.08	69.94	71.49	71.76	71.52	0.3
Illinois	45.25	w	45.14	w	w	w
Indiana	94.02	w	88.84	w	w	w
Michigan	81.55	79.64	81.65	83.29	84.83	-1.8
Ohio	94.69	104.59	102.47	99.67	101.77	-2.1
Wisconsin	83.41	84.19	81.92	83.40	80.23	4.0
West North Central	29.30	29.19	34.29	28.88	31.82	-9.2
Iowa	41.60	40.56	42.01	41.00	43.12	-4.9
Kansas	w	w	w	w	w	w
Minnesota	48.46	48.24	106.13	48.61	65.76	-26.1
Missouri	48.88	49.64	44.13	50.27	48.80	3.0
Nebraska	31.29	27.70	30.73	28.39	30.74	-7.6
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic	99.07	97.70	94.78	99.71	94.31	5.7
Florida	w	w	w	w	w	w
Georgia	105.68	99.76	90.67	101.84	92.48	10.1
Maryland	w	w	w	w	w	w
North Carolina	96.01	96.39	94.44	96.49	93.38	3.3
South Carolina	98.08	95.05	100.10	99.34	97.17	2.2
Virginia	96.02	87.75	93.08	91.57	92.28	-0.8
West Virginia	133.44	171.57	153.56	158.44	153.75	3.1
East South Central	86.73	87.11	87.22	87.12	87.96	-1.0
Alabama	94.04	94.44	94.76	95.29	92.82	2.7
Kentucky	84.45	89.39	84.97	88.34	89.91	-1.7
Tennessee	83.40	81.19	84.14	81.42	84.19	-3.3
West South Central	79.04	76.50	64.32	75.68	64.17	17.9
Arkansas	w	w	w	w	w	w
Louisiana	w	w	w	w	w	w
Oklahoma	82.26	69.71	w	68.69	w	w
Texas	88.35	87.11	75.48	87.44	72.99	19.8
Mountain	59.30	57.44	55.24	56.52	53.28	6.1
Arizona	w	w	w	w	w	w
Colorado	w	59.12	w	w	60.38	w
Idaho	109.59	w	126.99	w	w	w
Montana	49.46	53.28	44.36	43.31	39.89	8.6
Nevada	75.48	78.65	71.08	76.52	70.94	7.9
New Mexico	w	w	w	w	w	w
Utah	54.68	53.67	52.86	53.66	52.94	1.4
Wyoming	47.31	45.89	43.27	46.40	44.28	4.8
Pacific	77.54	88.83	91.86	82.79	87.26	-5.1
California	77.49	89.90	92.82	83.17	88.02	-5.5
Oregon	w	w	w	w	w	w
Washington	w	w	w	w	w	w
U.S. Total	59.16	60.10	60.44	59.23	59.27	-0.1

- = 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
311 Food Manufacturing	1,755	1,868	1,827	5,508	5,797	-5.0
312 Beverage and Tobacco Product Mfg.	3	5	3	14	19	-29.2
313 Textile Mills	13	17	17	62	77	-19.1
322 Paper Manufacturing	531	645	700	1,942	2,261	-14.1
324 Petroleum and Coal Products	1,515	1,393	1,527	4,480	4,481	s
325 Chemical Manufacturing	893	845	961	2,680	2,889	-7.2
327 Nonmetallic Mineral Products Mfg.	2,112	2,107	2,418	6,034	6,416	-6.0
331 Primary Metal Manufacturing	521	517	632	1,480	1,721	-14.0
333 Machinery Manufacturing	2	-	5	12	14	-17.3
339 Miscellaneous Manufacturing	45	50	60	142	265	-46.5
339 Miscellaneous manufacturing	276	242	299	781	837	-6.7
U.S. Total	7,663	7,688	8,451	23,136	24,779	-6.6

* Includes coal gasification projects.

** Excludes coke plants.

- = 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 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
311 Food Manufacturing	43.31	42.84	52.28	42.56	45.84	-7.2
312 Beverage and Tobacco Product Mfg.	w	w	w	w	w	w
313 Textile Mills	115.25	115.48	114.80	113.99	109.30	4.3
322 Paper Manufacturing	87.27	84.20	79.04	83.81	79.24	5.8
324 Petroleum and Coal Products	w	w	w	w	w	w
325 Chemical Manufacturing	74.29	75.26	69.47	73.98	72.06	2.7
327 Nonmetallic Mineral Products Mfg.	77.25	76.54	74.10	77.12	74.30	3.8
331 Primary Metal Manufacturing	109.72	118.07	105.17	118.79	110.78	7.2
333 Machinery Manufacturing	w	-	w	w	w	w
339 Miscellaneous Manufacturing	w	w	w	w	w	w
339 Miscellaneous manufacturing	51.79	52.46	51.18	51.73	50.69	2.1
U.S. Total	59.16	60.10	60.44	59.23	59.27	-0.1

* 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	-	2	1	11	19	-42.0
Pennsylvania	-	2	1	11	19	-42.0
East North Central	34	37	33	144	117	23.5
Illinois	19	23	20	87	74	17.2
Indiana	15	14	13	42	29	48.7
Wisconsin	-	-	-	15	14	5.7
West North Central	28	29	27	117	142	-17.7
Iowa	26	21	24	72	90	-19.8
Minnesota	-	s	s	2	6	-70.5
Missouri	-	-	3	6	18	-68.2
North Dakota	2	7	-	38	28	32.9
South Atlantic	20	9	32	61	90	-31.6
District of Columbia	-	-	-	-	2	-
North Carolina	14	9	26	46	72	-36.1
Virginia	6	1	6	15	16	-2.7
East South Central	s	1	3	5	9	-44.8
Kentucky	s	1	3	5	9	-44.8
Mountain	2	1	1	9	9	-5.9
Colorado	-	-	-	-	s	-
Montana	2	1	s	3	1	180.1
Wyoming	s	s	1	6	8	-30.1
Pacific	88	97	111	320	367	-12.7
Alaska	88	97	111	320	367	-12.7
U.S. Total	173	175	209	667	753	-11.3

- = 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.'

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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	-	w	w	w	118.27	w
Pennsylvania	-	w	w	w	118.27	w
East North Central	51.94	53.02	52.85	65.34	66.52	-1.8
Illinois	w	w	w	w	w	w
Indiana	w	w	w	w	w	w
Wisconsin	-	-	-	154.57	154.44	0.1
West North Central	90.38	85.26	84.46	80.51	79.64	1.1
Iowa	w	w	w	w	w	w
Minnesota	-	w	w	w	w	w
Missouri	-	-	w	65.97	w	w
North Dakota	w	w	-	w	w	w
South Atlantic	126.26	w	113.67	w	w	w
District of Columbia	-	-	-	-	156.97	-
North Carolina	w	w	w	w	w	w
Virginia	w	w	w	w	106.14	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	-	-	-	-	90.84	-
Montana	w	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	82.90	77.99	82.19	81.81	83.12	-1.6

- = 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.'

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	154,802	4,228	3,496	4,620	8,116	175	180	354	167,501
April - June	144,173	4,610	3,044	4,622	7,666	128	65	193	156,643
July - September	181,598	4,737	2,894	4,654	7,549	147	26	173	194,057
Total	480,574	13,575	9,434	13,896	23,331	449	270	720	518,200
2017 January - September	505,344	13,052	9,661	15,232	24,893	451	321	771	544,060
2016 January - September	510,747	12,382	11,221	14,876	26,097	498	359	857	550,083

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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	1,517	1,441	1,367	4,193	3,967	5.7
East North Central	2,488	2,445	2,400	7,217	6,932	4.1
South Atlantic	426	400	400	1,226	1,182	3.7
East South Central	306	324	324	939	970	-3.2
U.S. Total	4,737	4,610	4,491	13,575	13,052	4.0

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
New England	5	5	5	19	16	17.6
Maine	4	4	4	16	13	24.0
Massachusetts	1	1	1	3	3	-10.1
Middle Atlantic	191	229	295	651	913	-28.7
New York	49	94	115	222	299	-25.7
Pennsylvania	142	135	180	429	614	-30.2
East North Central	1,550	1,636	1,706	4,708	5,174	-9.0
Illinois	606	750	679	1,939	2,018	-3.9
Indiana	459	412	504	1,232	1,538	-19.9
Michigan	168	146	189	502	522	-3.8
Ohio	119	129	145	387	415	-6.8
Wisconsin	197	199	189	648	680	-4.7
West North Central	2,925	2,889	2,998	9,061	9,188	-1.4
Iowa	588	624	571	1,834	1,791	2.4
Kansas	28	29	30	77	79	-2.8
Minnesota	203	208	187	738	838	-12.0
Missouri	224	208	303	632	697	-9.4
Nebraska	270	257	291	835	846	-1.3
North Dakota	1,586	1,510	1,561	4,814	4,775	0.8
South Dakota	26	51	57	132	162	-18.3
South Atlantic	658	708	736	2,099	2,289	-8.3
Florida	134	123	138	378	439	-13.8
Georgia	68	79	73	253	246	2.9
Maryland	124	148	150	382	412	-7.2
North Carolina	87	96	94	298	346	-14.0
South Carolina	39	47	64	142	196	-27.6
Virginia	114	120	120	366	381	-4.0
West Virginia	93	95	97	280	270	3.8
East South Central	792	795	830	2,372	2,553	-7.1
Alabama	232	251	229	703	704	-0.1
Kentucky	188	193	200	561	643	-12.6
Tennessee	372	351	401	1,108	1,207	-8.2
West South Central	309	330	405	986	1,184	-16.7
Arkansas	44	41	48	133	147	-10.0
Louisiana	63	63	72	187	185	1.3
Oklahoma	72	98	113	276	362	-23.7
Texas	129	128	172	390	489	-20.3
Mountain	719	692	869	2,261	2,428	-6.9
Arizona	66	61	67	197	166	18.6
Colorado	28	37	81	117	225	-47.7
Idaho	21	11	24	86	78	10.5
Montana	41	28	43	145	161	-9.7
Nevada	76	73	66	222	195	13.8
New Mexico	20	19	17	53	52	2.2
Utah	97	101	166	280	374	-25.2
Wyoming	370	361	405	1,162	1,179	-1.5
Pacific	401	382	406	1,174	1,148	2.3
Alaska	s	s	s	1	1	s
California	385	361	376	1,091	1,074	1.5
Oregon	-	1	14	28	14	99.8
Washington	16	19	16	54	59	-7.9
U.S. Total	7,549	7,666	8,251	23,331	24,893	-6.3

- = 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.

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

NAICS code	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
311 Food Manufacturing	1,713	1,884	1,780	5,592	5,802	-3.6
312 Beverage and Tobacco Product Mfg.	2	5	3	13	19	-31.7
313 Textile Mills	13	18	16	63	76	-18.1
322 Paper Manufacturing	549	626	673	1,981	2,255	-12.1
324 Petroleum and Coal Products	1,523	1,404	1,505	4,498	4,457	0.9
325 Chemical Manufacturing	890	869	964	2,711	2,908	-6.8
327 Nonmetallic Mineral Products Mfg.	2,015	2,051	2,322	5,957	6,481	-8.1
331 Primary Metal Manufacturing	537	511	619	1,582	1,772	-10.7
333 Machinery Manufacturing	10	19	6	38	32	19.8
336 Transportation Equipment Mfg.	-	-	-	2	2	50.5
339 Miscellaneous Manufacturing	40	43	74	130	281	-53.8
339 Miscellaneous manufacturing	255	238	287	764	807	-5.4
U.S. Total	7,549	7,666	8,251	23,331	24,893	-6.3

* 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic	-	1	1	12	18	-36.4
Pennsylvania	-	1	1	12	18	-36.4
East North Central	35	44	38	157	133	18.1
Illinois	17	27	22	90	79	13.3
Indiana	18	18	16	52	38	37.2
Ohio	-	-	-	-	1	-
Wisconsin	-	-	-	15	15	2.1
West North Central	29	33	37	132	155	-15.1
Iowa	29	21	33	79	96	-18.2
Minnesota	-	s	s	5	5	-3.5
Missouri	-	s	3	6	19	-66.2
North Dakota	s	12	s	42	35	20.0
South Atlantic	15	15	22	80	103	-22.8
District of Columbia	-	-	-	1	1	40.5
North Carolina	14	12	21	58	76	-24.7
Virginia	1	3	1	21	26	-19.5
East South Central	s	s	2	5	12	-58.7
Kentucky	s	s	2	5	12	-58.7
Mountain	s	s	1	8	9	-20.3
Colorado	-	-	s	-	s	-
Montana	-	-	-	2	1	85.0
Wyoming	s	s	1	6	8	-30.1
Pacific	93	99	95	327	340	-3.8
Alaska	93	99	95	327	340	-3.8
U.S. Total	173	193	195	720	771	-6.7

- = 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.'

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	126,407	1,508	2,889	275	131,079	26,775*	157,854
June 30	121,448	1,616	2,886	257	126,207	24,524*	150,731
September 30	100,717	1,811	3,005	263	105,796	23,413*	129,209

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	September 30, 2018	June 30, 2018	September 30, 2017	Percent change (September 30) 2018 versus 2017
Middle Atlantic	459	383	196	133.7
East North Central	993	893	1,128	-12.0
South Atlantic	170	196	153	10.6
East South Central	189	144	192	-1.5
U.S. Total	1,811	1,616	1,670	8.4

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of 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	September 30, 2018	June 30, 2018	September 30, 2017	Percent change (September 30) 2018 versus 2017
New England	5	5	5	-0.7
Maine	1	1	1	-6.5
Massachusetts	4	4	4	0.7
Middle Atlantic	237	239	236	0.3
New York	87	83	83	4.8
Pennsylvania	150	155	153	-2.1
East North Central	583	597	741	-21.4
Illinois	118	119	109	8.0
Indiana	175	186	235	-25.7
Michigan	183	186	235	-22.0
Ohio	19	20	25	-25.7
Wisconsin	88	86	137	-35.5
West North Central	550	455	806	-31.7
Iowa	136	102	168	-19.2
Kansas	24	26	44	-45.7
Minnesota	64	51	169	-62.4
Missouri	70	68	73	-5.1
Nebraska	63	58	72	-12.8
North Dakota	160	133	240	-33.3
South Dakota	34	17	39	-11.7
South Atlantic	378	331	341	11.0
Florida	63	54	49	28.5
Georgia	64	55	69	-7.4
Maryland	7	9	13	-46.1
North Carolina	42	36	31	38.2
South Carolina	78	60	60	30.0
Virginia	54	57	66	-19.2
West Virginia	70	60	53	33.6
East South Central	160	183	212	-24.3
Alabama	72	78	88	-17.8
Kentucky	20	25	24	-15.1
Tennessee	68	81	100	-32.2
West South Central	389	386	412	-5.7
Arkansas	38	37	36	5.9
Louisiana	8	9	4	131.0
Oklahoma	94	107	123	-23.2
Texas	249	233	251	-0.8
Mountain	555	562	556	-0.3
Arizona	43	33	31	39.7
Colorado	32	43	16	96.1
Idaho	258	250	282	-8.5
Montana	40	49	49	-17.2
Nevada	19	33	28	-31.2
New Mexico	2	2	1	59.8
Utah	54	70	53	1.9
Wyoming	106	82	97	9.7
Pacific	149	129	172	-13.6
California	118	102	138	-14.2
Oregon	29	23	30	-2.8
Washington	1	4	5	-67.7
U.S. Total	3,005	2,886	3,482	-13.7

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.'

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

(thousand short tons)

NAICS code	September 30, 2018	June 30, 2018	September 30, 2017	Percent change (September 30) 2018 versus 2017
311 Food Manufacturing	626	572	758	-17.5
312 Beverage and Tobacco Product Mfg.	2	1	3	-48.3
313 Textile Mills	13	13	14	-10.0
322 Paper Manufacturing	308	328	388	-20.6
324 Petroleum and Coal Products	159	168	193	-17.6
325 Chemical Manufacturing	245	243	319	-23.0
327 Nonmetallic Mineral Products Mfg.	1,323	1,238	1,350	-2.0
331 Primary Metal Manufacturing	198	216	319	-38.0
333 Machinery Manufacturing	14	17	28	-50.9
336 Transportation Equipment Mfg.	-	-	4	-100.0
339 Miscellaneous Manufacturing	19	14	16	15.9
339 Miscellaneous manufacturing	99	75	89	10.5
U.S. Total	3,005	2,886	3,482	-13.7

* 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	September 30, 2018	June 30, 2018	September 30, 2017	Percent change (September 30) 2018 versus 2017
Middle Atlantic	79	90	83	-5.3
East North Central	277	310	386	-28.1
South Atlantic	46	65	93	-50.4
East South Central	85	93	93	-7.9
U.S. Total	488	558	654	-25.5
Coke Total	396	440	465	-14.9
Breeze Total	92	117	190	-51.6

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

(thousand short tons)

Census division and state	September 30, 2018	June 30, 2018	September 30, 2017	Percent change (September 30) 2018 versus 2017
Middle Atlantic	42	42	40	5.1
Pennsylvania	42	42	40	5.1
East North Central	38	39	48	-19.4
Illinois	20	17	16	24.5
Indiana	11	14	24	-53.7
Ohio	5	5	5	s
Wisconsin	2	2	2	-9.8
West North Central	30	31	49	-38.1
Iowa	17	20	28	-39.7
Minnesota	6	6	12	-51.2
Missouri	-	-	1	-100.0
North Dakota	8	6	8	-6.4
South Atlantic	34	28	49	-31.7
District of Columbia	3	3	4	-34.5
North Carolina	18	18	29	-36.0
Virginia	12	7	16	-23.1
East South Central	8	7	9	-11.1
Kentucky	8	7	9	-11.1
Mountain	4	2	3	58.9
Colorado	1	1	s	299.4
Montana	3	1	2	43.1
Wyoming	s	s	s	s
Pacific	107	106	140	-23.6
Alaska	107	106	140	-23.6
U.S. Total	263	257	337	-22.0

- = No data reported.

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

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
New England						
Btu	12,705	12,654	12,660	12,689	12,604	0.7
Sulfur	0.75	0.78	0.75	0.78	0.80	-2.7
Ash	7.27	8.72	7.81	7.71	8.22	-6.2
Maine						
Btu	12,773	12,773	12,714	12,741	12,674	0.5
Sulfur	0.73	0.73	0.67	0.75	0.72	4.2
Ash	7.39	7.39	7.11	7.26	7.61	-4.6
Massachusetts						
Btu	12,267	12,322	12,339	12,337	12,305	0.3
Sulfur	0.89	0.91	1.19	0.96	1.14	-15.5
Ash	6.53	12.44	11.94	10.72	10.79	-0.7
Middle Atlantic						
Btu	14,094	14,139	13,852	14,080	13,827	1.8
Sulfur	1.07	1.14	1.12	1.11	1.14	-2.5
Ash	7.49	7.64	8.75	7.77	8.68	-10.5
New York						
Btu	13,100	13,524	13,593	13,370	13,422	-0.4
Sulfur	2.05	1.68	1.71	1.81	1.64	10.6
Ash	8.10	7.56	7.02	7.81	7.20	8.5
Pennsylvania						
Btu	14,125	14,188	13,867	14,125	13,856	1.9
Sulfur	1.04	1.09	1.09	1.07	1.10	-3.5
Ash	7.48	7.65	8.84	7.77	8.79	-11.6
East North Central						
Btu	13,283	13,153	13,270	13,215	13,185	0.2
Sulfur	1.14	1.20	1.95	1.16	1.44	-19.1
Ash	7.29	7.25	6.55	7.24	7.06	2.6
Illinois						
Btu	11,522	11,338	11,528	11,392	11,432	-0.3
Sulfur	2.20	2.18	2.13	2.10	2.15	-2.5
Ash	7.54	7.47	7.57	7.46	7.54	-1.1
Indiana						
Btu	14,067	14,076	13,936	14,080	13,969	0.8
Sulfur	0.83	0.86	0.88	0.83	0.87	-4.6
Ash	7.11	7.10	7.45	7.10	7.40	-3.9
Michigan						
Btu	13,120	13,121	13,833	13,151	13,360	-1.6
Sulfur	0.74	0.92	5.15	0.86	3.01	-71.4
Ash	7.21	7.28	2.54	7.26	4.84	50.0
Ohio						
Btu	14,198	14,176	14,104	14,159	14,094	0.5
Sulfur	1.00	1.00	1.03	1.00	0.99	0.9
Ash	7.43	7.22	7.31	7.29	7.29	s
Wisconsin						
Btu	10,833	10,913	11,237	10,830	10,798	0.3
Sulfur	0.81	0.73	0.82	0.85	0.78	8.1
Ash	7.18	7.32	7.06	6.98	6.75	3.4
West North Central						
Btu	8,281	8,240	8,387	8,235	8,323	-1.1
Sulfur	0.85	0.83	0.95	0.84	0.89	-5.9
Ash	6.36	6.24	6.56	6.31	6.33	-0.3
Iowa						
Btu	9,271	9,182	9,332	9,194	9,285	-1.0
Sulfur	0.94	0.82	0.96	0.84	0.89	-4.8
Ash	5.35	5.19	6.32	5.21	5.63	-7.4
Kansas						

Census division and state¹	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Btu	10,861	11,287	10,986	10,914	10,893	0.2
Sulfur	1.83	2.64	1.65	2.09	1.74	20.1
Ash	12.07	12.54	11.05	12.57	10.21	23.1
Minnesota						
Btu	9,105	9,034	9,072	9,102	9,143	-0.4
Sulfur	0.30	0.29	0.28	0.30	0.31	-4.0
Ash	4.64	4.65	4.75	4.53	4.60	-1.6
Missouri						
Btu	11,148	11,192	11,269	11,256	11,220	0.3
Sulfur	2.39	2.32	2.52	2.35	2.29	2.7
Ash	8.72	8.42	8.97	8.69	8.92	-2.5
Nebraska						
Btu	9,097	8,919	9,091	8,957	8,999	-0.5
Sulfur	0.25	0.23	0.24	0.24	0.24	s
Ash	4.93	4.84	4.99	4.81	4.79	0.6
North Dakota						
Btu	7,191	7,203	7,197	7,183	7,222	-0.5
Sulfur	0.76	0.79	0.88	0.80	0.90	-11.4
Ash	6.81	6.73	6.66	6.81	6.73	1.3
South Dakota						
Btu	8,399	8,428	8,399	8,364	8,392	-0.3
Sulfur	0.55	0.59	0.59	0.57	0.59	-3.2
Ash	6.12	6.42	6.70	6.44	6.64	-3.0
South Atlantic						
Btu	13,359	13,376	13,369	13,402	13,370	0.2
Sulfur	1.12	1.18	1.23	1.11	1.17	-5.1
Ash	9.74	9.97	9.79	9.62	9.65	-0.3
Florida						
Btu	12,648	12,511	12,617	12,647	12,648	s
Sulfur	0.93	1.12	1.62	0.96	1.38	-30.2
Ash	10.58	10.54	9.94	10.51	9.09	15.5
Georgia						
Btu	12,329	12,694	12,287	12,551	12,402	1.2
Sulfur	1.06	0.93	0.97	0.96	0.98	-2.3
Ash	11.50	9.64	11.61	9.96	10.73	-7.1
Maryland						
Btu	11,133	11,067	10,996	11,132	10,930	1.9
Sulfur	1.69	1.82	1.84	1.79	1.85	-3.3
Ash	23.71	23.15	22.79	23.15	23.23	-0.3
North Carolina						
Btu	13,633	13,570	13,550	13,540	13,658	-0.9
Sulfur	0.97	0.88	0.96	0.93	0.96	-3.1
Ash	7.05	7.68	7.07	7.50	6.96	7.6
South Carolina						
Btu	13,042	12,983	13,764	13,314	13,509	-1.4
Sulfur	1.49	2.28	2.02	1.61	1.28	25.6
Ash	10.55	9.36	9.55	8.36	9.91	-15.6
Virginia						
Btu	14,133	14,165	14,198	14,143	14,167	-0.2
Sulfur	0.84	0.87	0.82	0.85	0.87	-2.2
Ash	7.11	7.44	7.07	7.31	7.10	3.1
West Virginia						
Btu	14,001	14,073	14,089	14,057	14,126	-0.5
Sulfur	1.32	1.34	1.31	1.27	1.26	1.1
Ash	6.71	7.03	7.00	6.86	6.99	-1.9
East South Central						
Btu	13,388	13,394	13,588	13,408	13,530	-0.9
Sulfur	1.20	1.25	1.22	1.20	1.20	0.3
Ash	7.46	7.48	7.28	7.39	7.24	2.0
Alabama						
Btu	13,838	13,802	13,861	13,833	13,889	-0.4

Census division and state¹	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Sulfur	0.99	1.09	1.05	1.05	1.06	-1.0
Ash	6.87	7.02	7.17	6.94	7.17	-3.3
Kentucky						
Btu	12,779	12,933	13,499	12,909	13,196	-2.2
Sulfur	1.02	1.16	1.10	1.06	1.02	4.7
Ash	8.66	8.12	8.36	7.94	7.57	4.9
Tennessee						
Btu	12,989	13,040	13,277	13,022	13,221	-1.5
Sulfur	1.63	1.53	1.48	1.51	1.49	1.4
Ash	7.79	7.82	6.92	7.77	7.15	8.7
West South Central						
Btu	10,146	9,941	9,610	9,874	9,597	2.9
Sulfur	0.67	0.59	0.54	0.62	0.57	8.6
Ash	8.58	8.51	8.36	8.37	8.05	3.9
Arkansas						
Btu	11,773	11,287	11,791	11,592	11,946	-3.0
Sulfur	1.29	0.89	1.33	1.20	1.26	-5.0
Ash	10.33	10.99	11.65	10.58	10.26	3.1
Louisiana						
Btu	8,117	8,198	7,940	8,055	7,739	4.1
Sulfur	0.70	0.83	0.60	0.73	0.68	7.4
Ash	6.46	6.11	6.46	6.40	6.79	-5.7
Oklahoma						
Btu	10,750	9,857	9,059	9,836	9,241	6.4
Sulfur	0.46	0.33	0.25	0.33	0.28	19.8
Ash	6.19	5.49	4.82	5.39	4.69	14.9
Texas						
Btu	10,270	10,415	10,025	10,142	9,824	3.2
Sulfur	0.56	0.56	0.53	0.55	0.52	4.4
Ash	9.87	10.69	10.26	10.39	10.28	1.0
Mountain						
Btu	10,522	10,662	10,602	10,536	10,400	1.3
Sulfur	0.61	0.59	0.53	0.61	0.51	19.7
Ash	7.20	6.99	7.28	7.12	7.24	-1.6
Arizona						
Btu	11,720	11,802	11,598	11,680	11,614	0.6
Sulfur	0.70	0.69	0.63	0.68	0.61	12.8
Ash	11.50	11.11	11.51	11.30	11.28	0.2
Colorado						
Btu	11,144	10,388	11,358	10,755	10,911	-1.4
Sulfur	0.47	0.46	0.57	0.46	0.49	-5.8
Ash	8.14	7.28	8.86	8.10	8.10	-0.1
Idaho						
Btu	11,630	11,497	11,633	11,507	11,354	1.3
Sulfur	0.48	0.44	0.55	0.48	0.52	-7.6
Ash	9.90	10.02	10.57	10.02	11.07	-9.5
Montana						
Btu	9,174	10,073	9,510	9,399	9,204	2.1
Sulfur	0.40	0.42	0.37	0.39	0.38	3.2
Ash	5.22	5.53	5.42	5.70	5.42	5.2
Nevada						
Btu	11,475	11,589	11,298	11,597	11,134	4.2
Sulfur	0.40	0.41	0.49	0.43	0.49	-12.4
Ash	9.55	8.43	9.07	9.07	8.72	3.9
New Mexico						
Btu	12,253	12,201	12,348	12,221	12,254	-0.3
Sulfur	0.64	0.77	0.68	0.72	0.69	4.2
Ash	10.43	10.87	10.38	10.70	10.26	4.3
Utah						
Btu	11,581	11,641	11,504	11,545	11,471	0.6
Sulfur	0.45	0.44	0.47	0.47	0.55	-14.3

Census division and state ¹	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Ash	10.22	10.40	11.07	10.50	11.38	-7.7
Wyoming						
Btu	9,828	9,927	9,877	9,880	9,751	1.3
Sulfur	0.70	0.70	0.57	0.71	0.50	41.5
Ash	5.11	4.67	4.55	4.93	4.98	-0.9
Pacific						
Btu	11,568	11,548	11,410	11,531	11,382	1.3
Sulfur	0.41	0.44	0.60	0.46	0.57	-20.4
Ash	10.28	9.99	11.49	10.28	11.26	-8.7
California						
Btu	11,638	11,673	11,489	11,619	11,496	1.1
Sulfur	0.41	0.44	0.61	0.46	0.59	-21.5
Ash	10.48	10.39	11.80	10.58	11.66	-9.3
Oregon						
Btu	11,837	11,830	11,362	11,759	11,362	3.5
Sulfur	0.36	0.43	0.53	0.47	0.53	-12.1
Ash	9.30	9.60	10.59	9.66	10.59	-8.8
Washington						
Btu	9,275	9,463	9,483	9,427	9,404	0.2
Sulfur	0.34	0.35	0.35	0.34	0.33	3.0
Ash	4.53	4.03	4.44	4.08	4.37	-6.6
U.S. Total						
Btu	11,925	11,922	11,825	11,852	11,775	0.7
Sulfur	1.00	1.03	1.29	1.00	1.11	-9.3
Ash	7.46	7.44	7.45	7.44	7.50	-0.9

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

- = No data reported.

s = Absolute percentage less than 0.05.

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of 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	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Middle Atlantic						
Btu	-	12,402	14,814	12,915	13,112	-1.5
Sulfur	-	0.76	1.00	0.84	0.77	8.1
Ash	-	7.88	5.83	7.05	8.51	-17.2
Pennsylvania						
Btu	-	12,402	14,814	12,915	13,112	-1.5
Sulfur	-	0.76	1.00	0.84	0.77	8.1
Ash	-	7.88	5.83	7.05	8.51	-17.2
East North Central						
Btu	11,432	11,410	11,389	11,565	11,552	0.1
Sulfur	3.14	3.03	3.01	2.79	2.73	1.9
Ash	9.65	9.34	9.40	9.15	9.31	-1.7
Illinois						
Btu	11,520	11,442	11,464	11,400	11,273	1.1
Sulfur	3.32	3.19	3.14	3.18	3.17	0.3
Ash	10.02	9.60	9.67	9.49	9.64	-1.6
Indiana						
Btu	11,317	11,360	11,271	11,279	11,392	-1.0
Sulfur	2.90	2.78	2.80	2.66	2.54	4.8
Ash	9.17	8.95	8.98	8.99	9.27	-3.1
Wisconsin						
Btu	-	-	-	13,375	13,375	s
Sulfur	-	-	-	0.78	0.78	s
Ash	-	-	-	7.65	7.65	s
West North Central						
Btu	11,304	10,771	11,401	10,482	10,739	-2.4
Sulfur	2.29	1.98	2.67	1.90	2.19	-13.2
Ash	8.66	8.40	8.70	9.08	8.60	5.6
Iowa						
Btu	11,490	11,435	11,410	11,440	11,387	0.5
Sulfur	2.45	2.47	2.64	2.55	2.66	-4.4
Ash	8.73	8.36	8.77	8.62	8.67	-0.6
Minnesota						
Btu	-	9,086	9,226	9,265	8,827	5.0
Sulfur	-	0.38	0.28	0.37	0.27	38.0
Ash	-	4.18	4.13	4.48	5.78	-22.5
Missouri						
Btu	-	-	11,415	11,372	11,408	-0.3
Sulfur	-	-	2.95	3.13	2.99	4.7
Ash	-	-	8.31	8.69	8.45	2.9
North Dakota						
Btu	9,025	8,771	-	8,566	8,672	-1.2
Sulfur	0.34	0.53	-	0.56	0.62	-9.7
Ash	7.75	8.68	-	10.26	9.10	12.7
South Atlantic						
Btu	12,847	12,882	12,983	12,996	13,069	-0.6
Sulfur	1.65	1.80	1.37	1.67	1.42	17.9
Ash	9.97	9.08	9.15	9.10	9.17	-0.7
District of Columbia						
Btu	-	-	-	-	13,156	-
Sulfur	-	-	-	-	0.58	-
Ash	-	-	-	-	6.85	-
North Carolina						
Btu	12,951	12,857	13,113	12,919	13,137	-1.7
Sulfur	1.99	1.88	1.50	1.96	1.58	24.6
Ash	9.81	9.20	9.02	9.55	9.34	2.3
Virginia						

Census division and state ¹	July - September 2018	April - June 2018	July - September 2017	Year to date		Percent change
				2018	2017	
Btu	12,594	13,235	12,456	13,231	12,746	3.8
Sulfur	0.83	0.59	0.84	0.79	0.79	-0.6
Ash	10.36	7.31	9.67	7.75	8.69	-10.9
East South Central						
Btu	13,569	13,161	12,857	13,570	13,070	3.8
Sulfur	0.76	0.80	0.77	0.78	0.77	1.5
Ash	6.12	2.64	6.51	4.51	6.01	-24.9
Kentucky						
Btu	13,569	13,161	12,857	13,570	13,070	3.8
Sulfur	0.76	0.80	0.77	0.78	0.77	1.5
Ash	6.12	2.64	6.51	4.51	6.01	-24.9
Mountain						
Btu	11,259	10,782	11,623	11,422	11,343	0.7
Sulfur	0.46	0.36	0.47	0.44	0.45	-1.7
Ash	8.09	7.61	10.01	9.10	10.44	-12.9
Colorado						
Btu	-	-	-	-	11,447	-
Sulfur	-	-	-	-	0.45	-
Ash	-	-	-	-	10.69	-
Montana						
Btu	11,290	10,616	10,500	11,021	10,454	5.4
Sulfur	0.46	0.33	0.49	0.41	0.48	-14.7
Ash	7.81	7.16	7.11	7.63	7.08	7.8
Wyoming						
Btu	10,710	11,322	11,768	11,645	11,465	1.6
Sulfur	0.38	0.47	0.47	0.46	0.45	3.1
Ash	13.08	9.08	10.39	9.91	10.91	-9.1
Pacific						
Btu	7,448	7,668	7,472	7,552	7,485	0.9
Sulfur	0.18	0.17	0.12	0.15	0.12	24.9
Ash	7.50	7.81	4.70	6.75	5.78	16.7
Alaska						
Btu	7,448	7,668	7,472	7,552	7,485	0.9
Sulfur	0.18	0.17	0.12	0.15	0.12	24.9
Ash	7.50	7.81	4.70	6.75	5.78	16.7
U.S. Total						
Btu	9,542	9,328	9,583	9,617	9,652	-0.4
Sulfur	1.28	1.16	1.12	1.19	1.10	7.8
Ash	8.40	8.27	6.71	7.91	7.40	7.0

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.'