



Independent Statistics & Analysis
U.S. Energy Information
Administration

Quarterly Coal Report October–December 2019

April 2020



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Preface

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

The *Quarterly Coal Report* (QCR) provides information about U.S. coal production, exports, imports, receipts, prices, consumption, quality, stocks, and refined coal data to a wide audience, including Congress, federal and state agencies, the coal industry, and the general public. In addition, the QCR offers U.S. coke production, consumption, stocks, imports, and exports data. The fourth-quarter 2019 QCR includes detailed quarterly coal data for October 2019–December 2019 and aggregated quarterly historical coal data for 2013 through fourth-quarter 2019.

All data for 2018 and previous years are final. All data for 2019 are preliminary.

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Table ES-1. U.S. coal summary statistics, 2013 - 2019

(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
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	187,743	1,367	2,996	24,736	168,149	27,221	131,096	-
April - June	180,829	1,546	2,122	22,997	156,607	30,876	126,162	-
July - September	194,731	1,439	2,695	22,537	194,219	29,067	105,774	-
October - December	192,863	1,602	2,618	21,692	169,131	28,469	108,355	-
Total	756,167	5,954	10,431		688,105	115,632		5,725
2019								
January - March	179,536	1,689	2,723	23,158*	157,857	25,210	102,160	-
April - June	179,176	1,604	2,264	21,878*	129,854	25,315	123,193	-
July - September	181,356	1,681	2,195	23,073*	167,792	21,918	116,815	-
October - December	165,191	1,723	2,082	24,438*	131,841	20,408	134,334	-
Total	705,259	6,697	9,264		587,344	92,852		12,298
2018 January - December	756,167	5,954	10,431		688,105	115,632		-
2017 January - December	774,609	7,777	9,951		716,856	96,953		-

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, 2013 - 2019

(thousand short tons)

Year and quarter	Production	Imports	Producer and distributor stocks ¹	Consumption ²	Exports
2013					
January - March	3,841	57	573	3,763	167
April - June	3,954	42	757	3,599	212
July - September	3,742	31	778	3,539	213
October - December	3,783	8	872	3,450	247
Total	15,320	138		14,351	840
2014					
January - March	3,483	2	718	3,515	124
April - June	3,718	38	751	3,531	192
July - September	4,036	12	786	3,697	316
October - December	3,917	25	797	3,616	315
Total	15,154	77		14,359	946
2015					
January - March	3,611	3	1,044	3,204	163
April - June	3,511	10	1,127	3,135	302
July - September	3,507	74	785	3,770	152
October - December	3,126	54	707	3,018	239
Total	13,755	140		13,128	857
2016					
January - March	2,950	4	831	2,757	72
April - June	2,927	95	765	2,919	169
July - September	2,987	73	656	2,877	291
October - December	2,992	57	579	2,659	467
Total	11,855	229		11,212	1,000
2017					
January - March	3,027	1	448	2,918	242
April - June	3,124	27	414	2,953	231
July - September	3,411	5	465	3,087	278
October - December	3,386	25	558	2,860	458
Total	12,948	58		11,818	1,209
2018					
January - March	3,219	4	405	3,072	304
April - June	3,479	68	440	3,225	286
July - September	3,564	10	396	3,412	206
October - December	3,545	35	354	3,268	354
Total	13,806	117		12,976	1,151
2019					
January - March	3,323	6	361	3,131	190
April - June	3,495	40	430	3,245	222
July - September	3,363	30	435	3,146	242
October - December	3,284	40	475	2,970	313
Total	13,464	116		12,492	967
2018 January - December	13,806	117		12,976	1,151
2017 January - December	12,948	58		11,818	1,209

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, 2013 - 2019

(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			
2013							
January - March	-	2,733	2,334	5,067	24.60	4,989	-
April - June	-	2,105	1,910	4,015	25.24	3,615	-
July - September	54	3,279	2,823	6,156	26.93	6,197	-
October - December	733	3,848	2,635	7,216	29.01	6,111	-
Total	786	11,966	9,701	22,454	26.77	20,912	-
2014							
January - March	486	4,887	2,623	7,996	29.13	7,717	-
April - June	552	3,985	2,737	7,273	28.16	6,909	-
July - September	426	7,550	3,181	11,157	30.08	10,113	-
October - December	1,130	8,549	2,841	12,520	28.13	11,105	-
Total	2,594	24,972	11,381	38,946	28.90	35,843	-
2015							
January - March	1,475	7,784	3,212	12,471	29.07	11,403	-
April - June	1,355	7,435	3,146	11,936	28.67	11,237	-
July - September	w	w	w	w	w	w	w
October - December	w	w	w	w	w	w	w
Total	w	w	w	w	w	w	w
2016							
January - March	w	w	w	w	w	w	w
April - June	w	w	w	w	w	w	w
July - September	w	w	w	w	w	w	w
October - December	w	w	w	w	w	w	w
Total	w	w	w	w	w	w	w
2017							
January - March	w	w	w	w	w	w	w
April - June	w	w	w	w	w	w	w
July - September	15,073	17,625	3,186	35,884	35.69	33,556	33,556
October - December	13,245	17,509	2,798	33,552	35.75	31,894	31,894
Total	w	w	w	w	w	w	w
2018							
January - March	14,908	16,401	4,016	35,326	36.93	46,972	46,972
April - June	15,458	14,820	4,959	35,236	37.01	33,989	33,989
July - September	19,199	18,761	4,302	42,262	36.51	41,867	41,867
October - December	18,144	19,317	3,951	41,412	36.45	38,320	38,320
Total	67,710	69,299	17,228	154,237	36.71	161,148	161,148
2019							
January - March	17,083	15,688	3,660	36,431	36.41	36,210	36,210
April - June	14,789	25,509	4,580	44,878	34.99	40,809	40,809
July - September	20,057	28,731	5,655	54,443	33.69	53,059	53,059
October - December	15,968	23,335	5,419	44,722	30.81	43,499	43,499
Total	67,898	93,262	19,314	180,475	33.85	173,576	173,576

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, 2013 - 2019

(thousand short tons)

Year	January - March	April - June	July - September	October - December	Total
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	187,743	180,829	194,731	192,863	756,167
2019	179,536	179,176	181,356	165,191	705,259

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

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

Table 2. Coal production by state

(thousand short tons)

Coal-producing region and state	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Alabama	2,985	3,399	3,666	14,130	14,783	-4.4
Alaska	243	234	291	975	902	8.1
Arizona	-	579	1,612	3,843	6,550	-41.3
Colorado	2,866	3,323	3,343	12,504	14,026	-10.8
Illinois	9,073	11,568	12,327	45,486	49,457	-8.0
Indiana	7,107	7,620	9,083	31,898	34,598	-7.8
Kentucky Total	7,707	8,752	9,762	35,902	39,582	-9.3
Eastern (Kentucky)	2,676	3,285	4,038	13,528	16,923	-20.1
Western (Kentucky)	5,032	5,467	5,724	22,374	22,659	-1.3
Louisiana	328	470	292	1,409	1,483	-5.0
Maryland	352	372	351	1,479	1,298	13.9
Mississippi	593	726	669	2,697	2,940	-8.2
Missouri	41	50	65	189	259	-26.9
Montana	8,334	10,584	10,906	34,468	38,610	-10.7
New Mexico	3,393	3,636	3,984	14,742	10,792	36.6
North Dakota	6,996	6,842	7,305	26,997	29,643	-8.9
Ohio	1,635	1,823	2,457	7,779	8,993	-13.5
Oklahoma	47	60	94	227	716	-68.3
Pennsylvania Total	12,488	11,392	12,649	49,996	49,883	0.2
Anthracite (Pennsylvania)	766	630	489	2,588	1,811	42.9
Bituminous (Pennsylvania)	11,722	10,762	12,159	47,408	48,072	-1.4
Tennessee	111	146	56	436	232	87.9
Texas	5,351	6,409	5,630	23,307	24,823	-6.1
Utah	3,173	3,164	3,433	14,417	13,619	5.9
Virginia	2,785	3,259	3,221	12,332	12,715	-3.0
West Virginia Total	21,003	22,872	23,345	92,754	95,349	-2.7
Northern (West Virginia)	11,017	11,211	11,907	47,084	46,115	2.1
Southern (West Virginia)	9,986	11,662	11,438	45,670	49,234	-7.2
Wyoming	68,495	74,005	78,146	276,909	304,188	-9.0
Appalachia Total	44,035	46,549	49,782	192,434	200,177	-3.9
Appalachia Central	15,558	18,352	18,753	71,966	79,105	-9.0
Appalachia Northern	25,492	24,798	27,363	106,338	106,289	s
Appalachia Southern	2,985	3,399	3,666	14,130	14,783	-4.4
Interior Region Total	27,571	32,370	33,885	127,588	136,935	-6.8
Illinois Basin	21,212	24,655	27,135	99,759	106,714	-6.5
Interior	6,359	7,715	6,750	27,829	30,221	-7.9
Western Region Total	93,500	102,367	109,021	384,853	418,329	-8.0
Powder River Basin	72,336	79,980	83,889	294,170	324,211	-9.3
Uinta Region	5,787	6,226	6,543	26,023	26,535	-1.9
Western	15,377	16,161	18,589	64,660	67,583	-4.3
East of Mississippi River	65,840	71,930	77,585	294,890	309,831	-4.8
West of Mississippi River	99,266	109,356	115,103	409,985	445,611	-8.0
U.S. Subtotal	165,106	181,286	192,688	704,875	755,442	-6.7
Refuse recovery	85	70	175	384	726	-47.1
U.S. Total	165,191	181,356	192,863	705,259	756,167	-6.7

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

Table 3. Coke and breeze production at coke plants

(thousand short tons)

Census division	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Middle Atlantic	930	989	1,157	4,017	4,353	-7.7
East North Central	1,973	1,963	1,971	7,899	7,810	1.1
South Atlantic	350	353	346	1,376	1,301	5.8
East South Central	204	207	250	850	1,043	-18.6
U.S. Total	3,457	3,512	3,724	14,142	14,508	-2.5
Coke Total	3,284	3,363	3,545	13,464	13,806	-2.5
Breeze Total	173	149	179	678	701	-3.4

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.'

Exports and imports

Table 4. U.S. coal exports and imports, 2013 - 2019

(thousand short tons)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
2013	31,835	1,429	29,427	2,756	28,589	2,398	27,809	2,323	117,659	8,906
2014	27,584	2,450	24,674	3,574	22,723	3,151	22,276	2,174	97,257	11,350
2015	21,979	3,009	19,766	2,640	16,914	2,965	15,299	2,705	73,958	11,318
2016	14,153	2,698	14,223	2,292	12,552	2,733	19,343	2,124	60,271	9,846
2017	22,307	1,915	21,796	2,197	24,644	2,308	28,206	1,357	96,953	7,777
2018	27,221	1,367	30,876	1,546	29,067	1,439	28,469	1,602	115,632	5,954
2019	25,210	1,689	25,315	1,604	21,918	1,681	20,408	1,723	92,852	6,697

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, 2013 - 2019

(dollars per short ton)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
2013	99.68	86.87	96.77	83.18	91.64	81.66	91.46	83.12	95.06	83.35
2014	90.72	78.15	86.24	80.46	85.69	80.60	84.94	85.48	87.08	80.96
2015	82.31	69.95	80.14	74.40	73.52	71.85	68.61	70.48	76.89	71.61
2016	61.41	63.97	65.79	66.30	67.24	62.70	92.57	71.32	73.66	65.75
2017	110.44	74.81	110.65	79.44	98.79	79.71	90.59	86.54	101.75	79.62
2018	105.78	71.48	103.26	82.95	99.30	91.02	108.58	83.07	104.17	82.30
2019	110.36	78.43	112.20	84.78	104.43	81.65	93.94	75.66	105.85	80.04

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, 2013 - 2019

(short tons and dollars per short ton)

Year and quarter	Australia	Canada	Colombia	Indonesia	China	Venezuela	Other countries	Total
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	700	891,734	6,086,612	699,453	6,474	46	92,153	7,777,172
2018								
January - March	-	105,103	1,032,860	196,457	4,962	-	27,580	1,366,962
April - June	-	210,538	1,057,691	265,469	3,978	-	8,724	1,546,400
July - September	-	256,680	839,988	255,835	13,312	-	72,895	1,438,710
October - December	-	198,038	1,130,042	197,427	6,372	-	70,199	1,602,078
U.S. Total	-	770,359	4,060,581	915,188	28,624	-	179,398	5,954,150
2019								
January - March	-	146,411	1,305,247	198,104	5,037	-	34,000	1,688,799
April - June	-	233,037	1,147,247	187,599	10,533	-	25,336	1,603,752
July - September	-	215,753	1,249,816	133,890	7,511	-	74,304	1,681,274
October - December	-	221,989	1,330,632	135,805	31,634	-	3,162	1,723,222
U.S. Total	-	817,190	5,032,942	655,398	54,715	-	136,802	6,697,047

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

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	74.89	189.83	64.44	64.11	97.33	103.33	132.12	79.62
2018								
January - March	-	181.51	58.37	74.05	162.88	-	108.36	71.48
April - June	-	212.64	59.31	71.57	260.72	-	84.50	82.95
July - September	-	186.35	61.92	78.15	74.93	-	138.82	91.02
October - December	-	180.03	65.24	78.42	146.86	-	104.02	83.07
U.S. Total	-	191.25	61.26	75.42	132.01	-	117.88	82.30
2019								
January - March	-	190.57	65.86	62.20	77.31	-	172.73	78.43
April - June	-	195.79	64.32	62.15	172.54	-	121.19	84.78
July - September	-	192.93	60.76	59.79	76.33	-	149.84	81.65
October - December	-	159.83	60.28	88.27	78.38	-	69.61	75.66
U.S. Total	-	184.33	62.76	67.10	96.13	-	148.37	80.04

- = No data reported.

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

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

Table 7. U.S. coal exports

(short tons)

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	2,576,101	2,723,493	3,567,039	9,518,195	12,541,071	-24.1
Canada*	1,566,174	1,717,298	1,922,294	5,117,610	5,726,402	-10.6
Dominica	-	-	-	-	50,486	-
Dominican Republic	256,342	182,635	98,882	899,083	251,695	257.2
Guatemala	-	172	81,488	164,184	285,329	-42.5
Honduras	37,540	43,376	93,211	165,929	216,322	-23.3
Jamaica	-	36,578	36,376	105,328	72,772	44.7
Mexico	539,345	626,502	1,213,488	2,529,742	5,418,604	-53.3
Panama	22	800	432	822	152,994	-99.5
Trinidad and Tobago	176,517	115,844	120,868	534,871	366,058	46.1
Other**	161	288	-	626	409	53.1
South America Total	1,968,772	1,909,351	2,583,002	8,776,367	10,329,432	-15.0
Argentina	143,896	45,050	240,262	366,467	784,219	-53.3
Brazil	1,770,518	1,667,409	2,216,980	7,514,838	8,595,068	-12.6
Chile	53,913	196,327	124,466	837,151	868,605	-3.6
Other**	445	565	1,294	57,911	81,540	-29.0
Europe Total	7,436,488	7,520,590	11,882,983	33,264,247	43,807,515	-24.1
Austria	334,939	505,090	562,480	2,189,380	1,048,430	108.8
Belgium	151,688	183,819	260,230	658,124	1,093,844	-39.8
Bosnia and Herzegovina	-	-	69,939	20,393	69,939	-70.8
Croatia	348,970	460,326	417,887	1,794,758	2,323,071	-22.7
Denmark (Except Greenland)	-	-	64,080	-	64,080	-
Finland	189,693	184,410	148,716	530,960	531,418	-0.1
France	272,156	292,642	426,825	1,279,953	1,704,998	-24.9
Germany, Federal Republic of	443,128	345,201	858,913	1,792,998	3,568,331	-49.8
Greece	-	-	-	106,400	85,704	24.1
Italy	806,708	544,493	990,234	2,673,094	3,407,875	-21.6
Luxembourg	-	-	-	-	63,235	-
Netherlands	2,077,423	1,831,205	3,817,403	10,057,625	12,362,341	-18.6
Norway	7,828	16,781	16,915	49,407	68,879	-28.3
Poland	374,429	243,444	429,665	1,465,078	1,825,888	-19.8
Portugal	-	157,079	82,673	678,535	580,695	16.8
Romania	148,420	175,516	62,391	570,308	345,390	65.1
Slovakia	-	-	-	72,210	55,139	31.0
Slovenia	-	-	-	59,778	127,242	-53.0
Spain	86,611	91,517	388,947	619,246	1,832,788	-66.2
Sweden	144,568	84,476	52,052	496,747	572,801	-13.3
Turkey	630,593	483,146	400,827	1,805,670	3,062,852	-41.0
Ukraine	1,225,082	1,487,165	1,247,359	4,918,822	4,816,809	2.1
United Kingdom	194,087	421,825	1,585,282	1,387,195	4,194,270	-66.9
Other**	165	12,455	165	37,566	1,496	NM
Asia Total	6,728,597	7,776,315	8,530,318	32,458,606	40,280,708	-19.4
China	319,340	116,364	143,682	1,173,104	2,615,707	-55.2
India	2,541,471	2,258,358	3,471,318	12,834,361	17,187,540	-25.3
Japan	2,443,021	2,807,997	2,986,596	10,987,779	10,390,808	5.7
Jordan	-	-	-	-	59,039	-
Pakistan	-	22	23	83	191,537	-100.0
South Korea (Republic of Korea)	1,353,248	2,589,804	1,808,916	7,361,134	9,320,837	-21.0
Thailand	199	372	116,945	1,058	503,623	-99.8
Other**	71,318	3,398	2,838	101,087	11,617	NM
Australia and Oceania Total	19	42	52	1,186	334	255.1
Other**	19	42	52	1,186	334	255.1
Africa Total	1,698,333	1,988,614	1,905,574	8,833,516	8,672,992	1.9

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Central African Republic	-	-	-	-	89,546	-
Egypt	965,203	1,147,716	675,829	4,741,834	3,830,476	23.8
Ghana	23,038	30,314	-	81,585	55,866	46.0
Morocco	582,508	650,495	1,152,562	3,512,465	4,285,976	-18.0
Senegal	45,745	36,430	-	115,244	71,450	61.3
South Africa	-	24,321	77,183	103,136	157,600	-34.6
Togo	51,287	99,323	-	248,640	164,059	51.6
Other**	30,552	15	-	30,612	18,019	69.9
Total	20,408,310	21,918,405	28,468,968	92,852,117	115,632,052	-19.7

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

** Includes countries with coal exports less than or equal to 50,000 short tons in 2018.

- = No data reported.

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

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

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

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

(dollars per short ton)

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	97.29	101.96	82.70	96.50	79.35	21.6
Canada*	113.06	117.15	99.00	115.89	105.34	10.0
Dominica	-	-	-	-	45.32	-
Dominican Republic	94.10	93.20	57.45	88.19	59.65	47.8
Guatemala	-	317.44	72.68	70.21	64.07	9.6
Honduras	61.47	58.97	77.74	61.41	64.37	-4.6
Jamaica	-	63.50	54.43	71.53	54.47	31.3
Mexico	59.99	63.24	52.47	58.84	49.21	19.6
Panama	300.00	220.65	79.93	222.77	56.20	296.4
Trinidad and Tobago	83.36	127.01	166.66	126.66	172.13	-26.4
Other**	323.27	201.67	-	252.43	314.97	-19.9
South America Total	111.70	121.63	145.17	127.00	135.53	-6.3
Argentina	93.38	160.65	180.02	141.23	177.96	-20.6
Brazil	114.98	128.89	145.67	134.53	138.96	-3.2
Chile	47.13	49.98	66.48	55.91	68.30	-18.1
Other**	800.23	480.14	377.77	88.11	82.26	7.1
Europe Total	101.06	119.93	118.41	120.22	117.78	2.1
Austria	122.78	139.96	188.58	161.17	181.38	-11.1
Belgium	146.91	122.82	152.04	154.54	158.28	-2.4
Bosnia and Herzegovina	-	-	144.07	143.33	144.07	-0.5
Croatia	137.12	146.80	183.44	156.00	154.42	1.0
Denmark (Except Greenland)	-	-	91.63	-	91.63	-
Finland	147.32	163.62	168.18	164.17	158.93	3.3
France	118.76	152.96	148.69	141.77	138.30	2.5
Germany, Federal Republic of	67.73	61.53	72.29	78.11	98.80	-20.9
Greece	-	-	-	63.15	75.27	-16.1
Italy	89.42	104.11	99.48	105.45	112.45	-6.2
Luxembourg	-	-	-	-	158.31	-
Netherlands	89.13	98.53	99.30	97.73	91.06	7.3
Norway	131.55	133.81	139.36	138.75	143.93	-3.6
Poland	91.93	125.78	142.16	112.49	136.14	-17.4
Portugal	-	72.76	108.86	90.81	68.77	32.0
Romania	72.70	63.50	115.31	93.25	86.17	8.2
Slovakia	-	-	-	135.02	144.66	-6.7
Slovenia	-	-	-	70.76	63.50	11.4
Spain	130.24	184.29	102.22	155.08	108.79	42.5
Sweden	116.69	143.93	167.68	144.36	149.08	-3.2
Turkey	98.80	132.41	138.32	120.84	131.86	-8.4
Ukraine	107.26	133.08	178.16	146.30	166.66	-12.2
United Kingdom	126.66	140.81	85.09	121.88	92.43	31.9
Other**	99.53	166.03	95.55	165.61	103.26	60.4
Asia Total	86.68	92.77	102.77	98.03	96.45	1.6
China	109.45	107.89	109.59	109.15	119.11	-8.4
India	85.04	98.62	95.95	96.17	96.94	-0.8
Japan	99.85	116.56	129.41	118.33	119.31	-0.8
Jordan	-	-	-	-	69.17	-
Pakistan	-	547.77	123.04	268.51	56.76	373.1
South Korea (Republic of Korea)	62.41	61.16	73.42	69.73	66.04	5.6
Thailand	242.19	303.60	68.30	296.97	69.47	327.5
Other**	52.15	89.74	197.45	58.84	181.27	-67.5
Australia and Oceania Total	444.63	439.31	640.85	160.12	462.47	-65.4
Other**	444.63	439.31	640.85	160.12	462.47	-65.4
Africa Total	65.84	78.25	72.11	69.54	69.76	-0.3

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Central African Republic	-	-	-	-	144.38	-
Egypt	66.55	83.70	76.99	70.89	71.33	-0.6
Ghana	63.50	63.50	-	63.50	55.39	14.6
Morocco	65.15	69.28	66.72	66.21	64.41	2.8
Senegal	63.50	63.50	-	63.50	55.61	14.2
South Africa	-	160.94	109.77	141.94	147.52	-3.8
Togo	63.50	63.50	-	65.85	62.95	4.6
Other**	65.32	606.73	-	66.01	117.80	-44.0
Total	93.94	104.43	108.58	105.85	104.17	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 2018.

- = No data reported.

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

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

Table 9. U.S. steam coal exports

(short tons)

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	953,314	1,050,774	1,920,827	4,290,540	7,006,895	-38.8
Canada*	249,667	283,830	386,018	910,710	1,058,152	-13.9
Dominica	-	-	-	-	50,486	-
Dominican Republic	120,593	53,352	98,882	565,708	251,695	124.8
Guatemala	-	172	81,488	164,184	285,329	-42.5
Honduras	37,540	43,376	93,211	165,929	216,322	-23.3
Jamaica	-	36,578	36,376	105,328	72,772	44.7
Mexico	429,441	516,534	1,103,552	2,145,354	4,734,559	-54.7
Panama	22	800	432	822	152,994	-99.5
Trinidad and Tobago	115,890	115,844	120,868	231,879	184,177	25.9
Other**	161	288	-	626	409	53.1
South America Total	109,056	211,051	157,831	1,138,028	1,231,618	-7.6
Argentina	45,581	39	-	45,738	96,218	-52.5
Brazil	9,117	14,120	32,071	197,228	185,255	6.5
Chile	53,913	196,327	124,466	837,151	868,605	-3.6
Other**	445	565	1,294	57,911	81,540	-29.0
Europe Total	2,112,313	1,718,472	5,335,236	9,284,251	16,517,375	-43.8
Austria	-	-	-	42	375	-88.8
Belgium	16,469	76,746	38,175	114,026	38,218	198.4
Bosnia and Herzegovina	-	-	-	20,393	-	-
Croatia	-	23,041	-	23,041	90,345	-74.5
Denmark (Except Greenland)	-	-	64,080	-	64,080	-
Finland	-	-	-	101	14,331	-99.3
France	11,420	-	92,558	89,364	433,550	-79.4
Germany, Federal Republic of	169,909	345,201	637,020	1,178,415	2,182,766	-46.0
Greece	-	-	-	106,400	85,704	24.1
Italy	325,578	67	445,087	613,512	1,397,982	-56.1
Netherlands	986,106	895,560	2,211,790	4,959,331	6,164,865	-19.6
Norway	-	205	-	206	4,189	-95.1
Poland	159,184	85,227	143,349	481,448	707,509	-32.0
Portugal	-	157,079	82,673	500,159	497,736	0.5
Romania	36,069	-	-	36,069	41,201	-12.5
Slovakia	-	-	-	39	23	69.6
Slovenia	-	-	-	59,778	-	-
Spain	1,225	42,983	255,535	158,085	1,075,546	-85.3
Sweden	-	-	-	-	34,074	-
Turkey	130,682	546	38,092	215,866	514,480	-58.0
Ukraine	275,402	57,511	116,091	332,913	226,826	46.8
United Kingdom	104	33,976	1,210,621	393,781	2,942,079	-86.6
Other**	165	330	165	1,282	1,496	-14.3
Asia Total	3,439,449	4,244,747	4,829,084	17,268,899	23,500,513	-26.5
China	993	1,228	382	4,225	372,301	-98.9
India	1,459,463	1,204,539	2,556,630	8,128,132	11,531,728	-29.5
Japan	1,034,175	1,204,987	1,128,181	4,339,511	4,400,612	-1.4
Jordan	-	-	-	-	59,039	-
Pakistan	-	22	23	83	191,537	-100.0
South Korea (Republic of Korea)	873,401	1,830,301	1,024,195	4,713,842	6,430,776	-26.7
Thailand	99	272	116,835	758	503,207	-99.8
Other**	71,318	3,398	2,838	82,348	11,313	NM
Australia and Oceania Total	19	42	52	1,186	334	255.1
Other**	19	42	52	1,186	334	255.1
Africa Total	1,157,650	1,221,740	1,053,351	5,756,309	5,862,143	-1.8
Egypt	824,166	1,020,955	423,580	4,136,255	3,235,113	27.9

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Ghana	23,038	-	-	51,271	55,866	-8.2
Morocco	182,862	127,065	629,750	1,236,335	2,317,116	-46.6
Senegal	45,745	-	-	78,814	71,450	10.3
South Africa	-	24,321	21	24,321	520	NM
Togo	51,287	49,384	-	198,701	164,059	21.1
Other**	30,552	15	-	30,612	18,019	69.9
Total	7,771,801	8,446,826	13,296,381	37,739,213	54,118,878	-30.3

* 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 2018.

- = No data reported.

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

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

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

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

(dollars per short ton)

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	62.64	70.51	60.51	62.33	53.97	15.5
Canada*	86.78	92.84	79.86	86.92	95.04	-8.5
Dominica	-	-	-	-	45.32	-
Dominican Republic	77.47	102.51	57.45	80.47	59.65	34.9
Guatemala	-	317.44	72.68	70.21	64.07	9.6
Honduras	61.47	58.97	77.74	61.41	64.37	-4.6
Jamaica	-	63.50	54.43	71.53	54.47	31.3
Mexico	43.29	43.35	40.22	42.24	38.81	8.8
Panama	300.00	220.65	79.93	222.77	56.20	296.4
Trinidad and Tobago	66.84	127.01	166.66	97.12	171.90	-43.5
Other**	323.27	201.67	-	252.43	314.97	-19.9
South America Total	74.14	54.78	74.24	67.71	80.97	-16.4
Argentina	80.74	249.64	-	81.56	172.33	-52.7
Brazil	165.41	103.83	92.11	108.63	92.37	17.6
Chile	47.13	49.98	66.48	55.91	68.30	-18.1
Other**	800.23	480.14	377.77	88.11	82.26	7.1
Europe Total	57.36	65.93	72.13	64.17	69.04	-7.1
Austria	-	-	-	493.90	27.66	NM
Belgium	90.72	58.97	111.75	65.20	112.06	-41.8
Bosnia and Herzegovina	-	-	-	143.33	-	-
Croatia	-	63.50	-	63.50	87.08	-27.1
Denmark (Except Greenland)	-	-	91.63	-	91.63	-
Finland	-	-	-	435.38	181.41	140.0
France	90.72	-	58.97	63.02	61.85	1.9
Germany, Federal Republic of	38.74	61.53	66.78	58.92	62.73	-6.1
Greece	-	-	-	63.15	75.27	-16.1
Italy	78.80	574.78	65.33	71.74	64.95	10.5
Netherlands	54.58	62.14	71.67	61.91	67.83	-8.7
Norway	-	317.07	-	328.64	140.61	133.7
Poland	48.38	59.65	74.25	57.07	82.32	-30.7
Portugal	-	72.76	108.86	91.79	69.65	31.8
Romania	63.50	-	-	63.50	63.50	s
Slovakia	-	-	-	2,223.26	2,044.35	8.8
Slovenia	-	-	-	70.76	-	-
Spain	280.46	178.28	57.86	119.99	67.09	78.8
Sweden	-	-	-	-	181.16	-
Turkey	77.45	477.11	56.33	73.53	83.74	-12.2
Ukraine	43.75	63.50	185.42	47.16	125.90	-62.5
United Kingdom	416.69	64.92	66.91	51.69	66.03	-21.7
Other**	99.53	99.53	95.55	90.64	103.26	-12.2
Asia Total	56.69	54.96	71.98	64.83	63.98	1.3
China	298.68	162.85	381.54	231.56	35.73	NM
India	60.59	68.88	80.48	73.49	74.66	-1.6
Japan	72.26	74.14	85.00	78.39	75.04	4.5
Jordan	-	-	-	-	69.17	-
Pakistan	-	547.77	123.04	268.51	56.76	373.1
South Korea (Republic of Korea)	31.80	32.98	36.38	37.30	38.45	-3.0
Thailand	332.81	359.14	68.21	354.13	69.43	410.1
Other**	52.15	89.74	197.45	59.57	183.45	-67.5
Australia and Oceania Total	444.63	439.31	640.85	160.12	462.47	-65.4
Other**	444.63	439.31	640.85	160.12	462.47	-65.4
Africa Total	62.63	77.39	67.95	65.77	63.77	3.1
Egypt	62.39	80.37	65.64	65.88	62.86	4.8

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Ghana	63.50	-	-	63.50	55.39	14.6
Morocco	62.70	42.84	69.38	63.63	65.00	-2.1
Senegal	63.50	-	-	63.50	55.61	14.2
South Africa	-	160.94	3,460.71	160.94	669.98	-76.0
Togo	63.50	63.50	-	66.44	62.95	5.5
Other**	65.32	606.73	-	66.01	117.80	-44.0
Total	58.73	62.37	70.09	64.62	64.60	s

* 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 2018.

- = No data reported.

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

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

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

Table 11. U.S. metallurgical coal exports

(short tons)

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	1,622,787	1,672,719	1,646,212	5,227,655	5,534,176	-5.5
Canada*	1,316,507	1,433,468	1,536,276	4,206,900	4,668,250	-9.9
Dominican Republic	135,749	129,283	-	333,375	-	-
Mexico	109,904	109,968	109,936	384,388	684,045	-43.8
Trinidad and Tobago	60,627	-	-	302,992	181,881	66.6
South America Total	1,859,716	1,698,300	2,425,171	7,638,339	9,097,814	-16.0
Argentina	98,315	45,011	240,262	320,729	688,001	-53.4
Brazil	1,761,401	1,653,289	2,184,909	7,317,610	8,409,813	-13.0
Europe Total	5,324,175	5,802,118	6,547,747	23,979,996	27,290,140	-12.1
Austria	334,939	505,090	562,480	2,189,338	1,048,055	108.9
Belgium	135,219	107,073	222,055	544,098	1,055,626	-48.5
Bosnia and Herzegovina	-	-	69,939	-	69,939	-
Croatia	348,970	437,285	417,887	1,771,717	2,232,726	-20.6
Finland	189,693	184,410	148,716	530,859	517,087	2.7
France	260,736	292,642	334,267	1,190,589	1,271,448	-6.4
Germany, Federal Republic of	273,219	-	221,893	614,583	1,385,565	-55.6
Italy	481,130	544,426	545,147	2,059,582	2,009,893	2.5
Luxembourg	-	-	-	-	63,235	-
Netherlands	1,091,317	935,645	1,605,613	5,098,294	6,197,476	-17.7
Norway	7,828	16,576	16,915	49,201	64,690	-23.9
Poland	215,245	158,217	286,316	983,630	1,118,379	-12.0
Portugal	-	-	-	178,376	82,959	115.0
Romania	112,351	175,516	62,391	534,239	304,189	75.6
Slovakia	-	-	-	72,171	55,116	30.9
Slovenia	-	-	-	-	127,242	-
Spain	85,386	48,534	133,412	461,161	757,242	-39.1
Sweden	144,568	84,476	52,052	496,747	538,727	-7.8
Turkey	499,911	482,600	362,735	1,589,804	2,548,372	-37.6
Ukraine	949,680	1,429,654	1,131,268	4,585,909	4,589,983	-0.1
United Kingdom	193,983	387,849	374,661	993,414	1,252,191	-20.7
Other**	-	12,125	-	36,284	-	-
Asia Total	3,289,148	3,531,568	3,701,234	15,189,707	16,780,195	-9.5
China	318,347	115,136	143,300	1,168,879	2,243,406	-47.9
India	1,082,008	1,053,819	914,688	4,706,229	5,655,812	-16.8
Japan	1,408,846	1,603,010	1,858,415	6,648,268	5,990,196	11.0
South Korea (Republic of Korea)	479,847	759,503	784,721	2,647,292	2,890,061	-8.4
Thailand	100	100	110	300	416	-27.9
Other**	-	-	-	18,739	304	NM
Africa Total	540,683	766,874	852,223	3,077,207	2,810,849	9.5
Central African Republic	-	-	-	-	89,546	-
Egypt	141,037	126,761	252,249	605,579	595,363	1.7
Ghana	-	30,314	-	30,314	-	-
Morocco	399,646	523,430	522,812	2,276,130	1,968,860	15.6
Senegal	-	36,430	-	36,430	-	-
South Africa	-	-	77,162	78,815	157,080	-49.8
Togo	-	49,939	-	49,939	-	-
Total	12,636,509	13,471,579	15,172,587	55,112,904	61,513,174	-10.4

* 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 2018.

- = No data reported.

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

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

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

Table 12. Average price of U.S. metallurgical coal exports

(dollars per short ton)

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	117.65	121.72	108.59	124.55	111.47	11.7
Canada*	118.05	121.96	103.81	122.16	107.68	13.4
Dominican Republic	108.86	89.36	-	101.30	-	-
Mexico	125.22	156.64	175.38	151.44	121.18	25.0
Trinidad and Tobago	114.94	-	-	149.27	172.37	-13.4
South America Total	113.90	129.94	149.78	135.84	142.91	-4.9
Argentina	99.24	160.57	180.02	149.74	178.74	-16.2
Brazil	114.72	129.10	146.46	135.23	139.98	-3.4
Europe Total	118.40	135.93	156.12	141.92	147.28	-3.6
Austria	122.78	139.96	188.58	161.16	181.43	-11.2
Belgium	153.75	168.59	158.96	173.26	159.95	8.3
Bosnia and Herzegovina	-	-	144.07	-	144.07	-
Croatia	137.12	151.19	183.44	157.20	157.14	s
Finland	147.32	163.62	168.18	164.12	158.31	3.7
France	119.99	152.96	173.54	147.68	164.37	-10.2
Germany, Federal Republic of	85.75	-	88.10	114.89	155.61	-26.2
Italy	96.60	104.06	127.36	115.50	145.50	-20.6
Luxembourg	-	-	-	-	158.31	-
Netherlands	120.34	133.38	137.37	132.57	114.16	16.1
Norway	131.55	131.54	139.36	137.95	144.15	-4.3
Poland	124.15	161.40	176.16	139.61	170.19	-18.0
Portugal	-	-	-	88.05	63.50	38.7
Romania	75.65	63.50	115.31	95.26	89.24	6.7
Slovakia	-	-	-	133.89	143.87	-6.9
Slovenia	-	-	-	-	63.50	-
Spain	128.09	189.60	187.19	167.11	168.03	-0.5
Sweden	116.69	143.93	167.68	144.36	147.05	-1.8
Turkey	104.37	132.02	146.93	127.26	141.57	-10.1
Ukraine	125.68	135.88	177.41	153.50	168.68	-9.0
United Kingdom	126.51	147.45	143.82	149.70	154.46	-3.1
Other**	-	167.84	-	168.26	-	-
Asia Total	118.04	138.22	142.94	135.79	141.91	-4.3
China	108.86	107.30	108.86	108.71	132.95	-18.2
India	118.01	132.62	139.17	135.35	142.36	-4.9
Japan	120.09	148.45	156.37	144.39	151.83	-4.9
South Korea (Republic of Korea)	118.12	129.07	121.76	127.46	127.44	s
Thailand	152.48	152.55	166.35	152.52	117.31	30.0
Other**	-	-	-	55.61	100.00	-44.4
Africa Total	72.69	79.61	77.25	76.59	82.24	-6.9
Central African Republic	-	-	-	-	144.38	-
Egypt	90.87	110.53	96.05	105.12	117.39	-10.5
Ghana	-	63.50	-	63.50	-	-
Morocco	66.28	75.70	63.51	67.61	63.72	6.1
Senegal	-	63.50	-	63.50	-	-
South Africa	-	-	108.86	136.08	145.79	-6.7
Togo	-	63.50	-	63.50	-	-
Total	115.59	130.80	142.31	134.09	138.98	-3.5

* 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 2018.

- = 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	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Eastern Total	12,810,456	12,845,229	15,726,786	56,767,885	66,046,409	-14.0
Baltimore, MD	4,094,736	4,160,517	4,699,727	20,867,521	21,526,000	-3.1
Buffalo, NY	812,565	943,300	945,330	2,783,102	3,045,373	-8.6
New York City, NY	2,098	3,529	1,046	10,184	91,805	-88.9
Norfolk, VA	7,832,030	7,686,655	9,968,505	32,932,371	41,160,205	-20.0
Ogdensburg, NY	32,044	22,901	64,381	90,736	133,370	-32.0
Philadelphia, PA	36,752	28,207	47,496	83,227	88,472	-5.9
Portland, ME	173	99	120	560	609	-8.0
St. Albans, VT	58	21	181	184	530	-65.3
Washington, DC	-	-	-	-	45	-
Southern Total	5,090,924	5,355,129	9,434,922	25,091,829	35,021,787	-28.4
Charleston, SC	-	-	19	161	277	-41.9
Dallas/Fort Worth, TX	-	-	-	-	83	-
El Paso, TX	52,249	63,982	42,479	230,038	166,025	38.6
Houston-Galveston, TX	57,088	112,815	121,617	617,823	968,086	-36.2
Laredo, TX	377,818	453,346	587,544	1,573,467	2,280,955	-31.0
Miami, FL	382	90	831	1,798	6,101	-70.5
Mobile, AL	2,333,224	2,650,012	3,191,884	11,311,966	11,351,779	-0.4
New Orleans, LA	2,269,775	2,074,694	5,490,292	11,300,851	20,184,157	-44.0
Port Arthur, TX	-	-	-	54,013	60,627	-10.9
Savannah, GA	346	142	225	1,568	2,968	-47.2
Tampa, FL	42	48	31	144	729	-80.2
Western Total	1,907,043	3,034,206	2,536,246	9,198,665	12,362,998	-25.6
Anchorage, AK	-	-	-	-	50	-
Great Falls, MT	66	23	171	400	2,590	-84.6
Honolulu, HI	-	-	-	-	1	-
Los Angeles, CA	413,657	264,932	317,025	1,368,045	1,391,732	-1.7
Nogales, AZ	128	46	383,812	291,328	1,399,049	-79.2
Portland, OR	-	10	-	10	6	66.7
San Diego, CA	22	-	74	278	536	-48.1
San Francisco, CA	522,362	822,326	726,816	2,731,633	2,940,389	-7.1
Seattle, WA	970,808	1,946,869	1,108,348	4,806,971	6,628,645	-27.5
Northern Total	582,314	669,146	762,649	1,740,501	2,180,512	-20.2
Chicago, IL	-	-	-	64	79	-19.0
Cleveland, OH	497,423	558,567	642,028	1,494,505	1,628,634	-8.2
Detroit, MI	46,459	37,921	114,902	127,027	327,946	-61.3
Duluth, MN	165	-	140	204	3,865	-94.7
Minneapolis, MN	34,733	67,584	-	102,317	202,785	-49.5
Pembina, ND	3,534	5,074	5,579	16,384	17,203	-4.8
Other Ports	17,573	14,695	8,365	53,237	20,346	161.7
Total	20,408,310	21,918,405	28,468,968	92,852,117	115,632,052	-19.7

- = 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 14. Steam coal exports by customs district

(short tons)

Customs district	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Eastern Total	2,638,660	2,431,101	4,286,620	13,836,249	17,623,743	-21.5
Baltimore, MD	1,994,811	1,910,282	2,620,330	10,909,230	11,143,855	-2.1
Buffalo, NY	2,092	33,576	35,438	39,467	43,429	-9.1
New York City, NY	2,098	3,529	1,046	10,184	91,717	-88.9
Norfolk, VA	572,741	435,790	1,519,702	2,713,403	6,144,168	-55.8
Ogdensburg, NY	29,935	19,618	62,307	80,120	111,023	-27.8
Philadelphia, PA	36,752	28,207	47,496	83,227	88,472	-5.9
Portland, ME	173	99	120	560	609	-8.0
St. Albans, VT	58	-	181	58	425	-86.4
Washington, DC	-	-	-	-	45	-
Southern Total	3,130,136	2,818,118	6,327,000	14,363,304	23,575,322	-39.1
Charleston, SC	-	-	19	-	277	-
El Paso, TX	52,249	63,982	42,479	230,020	166,025	38.5
Houston-Galveston, TX	57,088	112,815	121,617	617,823	968,001	-36.2
Laredo, TX	377,042	452,506	586,785	1,569,715	2,247,035	-30.1
Miami, FL	382	90	831	1,798	6,101	-70.5
Mobile, AL	381,140	172,118	244,740	970,838	690,685	40.6
New Orleans, LA	2,261,947	2,016,517	5,330,283	10,917,685	19,433,491	-43.8
Port Arthur, TX	-	-	-	54,013	60,627	-10.9
Savannah, GA	246	42	215	1,268	2,351	-46.1
Tampa, FL	42	48	31	144	729	-80.2
Western Total	1,907,043	3,034,206	2,536,057	9,198,445	12,362,809	-25.6
Anchorage, AK	-	-	-	-	50	-
Great Falls, MT	66	23	171	400	2,590	-84.6
Honolulu, HI	-	-	-	-	1	-
Los Angeles, CA	413,657	264,932	316,836	1,367,825	1,391,543	-1.7
Nogales, AZ	128	46	383,812	291,328	1,399,049	-79.2
Portland, OR	-	10	-	10	6	66.7
San Diego, CA	22	-	74	278	536	-48.1
San Francisco, CA	522,362	822,326	726,816	2,731,633	2,940,389	-7.1
Seattle, WA	970,808	1,946,869	1,108,348	4,806,971	6,628,645	-27.5
Northern Total	78,529	153,946	138,339	296,050	536,658	-44.8
Chicago, IL	-	-	-	64	79	-19.0
Cleveland, OH	25,353	61,426	101,629	118,028	222,872	-47.0
Detroit, MI	14,744	19,862	30,991	59,053	153,417	-61.5
Duluth, MN	165	-	140	204	3,865	-94.7
Minneapolis, MN	34,733	67,584	-	102,317	139,676	-26.7
Pembina, ND	3,534	5,074	5,579	16,384	16,749	-2.2
Other Ports	17,433	9,455	8,365	45,165	20,346	122.0
Total	7,771,801	8,446,826	13,296,381	37,739,213	54,118,878	-30.3

- = No data reported.

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

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

Table 15. Metallurgical coal exports by customs district

(short tons)

Customs district	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Eastern Total	10,171,796	10,414,128	11,440,166	42,931,636	48,422,666	-11.3
Baltimore, MD	2,099,925	2,250,235	2,079,397	9,958,291	10,382,145	-4.1
Buffalo, NY	810,473	909,724	909,892	2,743,635	3,001,944	-8.6
New York City, NY	-	-	-	-	88	-
Norfolk, VA	7,259,289	7,250,865	8,448,803	30,218,968	35,016,037	-13.7
Ogdensburg, NY	2,109	3,283	2,074	10,616	22,347	-52.5
St. Albans, VT	-	21	-	126	105	20.0
Southern Total	1,960,788	2,537,011	3,107,922	10,728,525	11,446,465	-6.3
Charleston, SC	-	-	-	161	-	-
Dallas/Fort Worth, TX	-	-	-	-	83	-
El Paso, TX	-	-	-	18	-	-
Houston-Galveston, TX	-	-	-	-	85	-
Laredo, TX	776	840	759	3,752	33,920	-88.9
Mobile, AL	1,952,084	2,477,894	2,947,144	10,341,128	10,661,094	-3.0
New Orleans, LA	7,828	58,177	160,009	383,166	750,666	-49.0
Savannah, GA	100	100	10	300	617	-51.4
Western Total	-	-	189	220	189	16.4
Los Angeles, CA	-	-	189	220	189	16.4
Northern Total	503,785	515,200	624,310	1,444,451	1,643,854	-12.1
Cleveland, OH	472,070	497,141	540,399	1,376,477	1,405,762	-2.1
Detroit, MI	31,715	18,059	83,911	67,974	174,529	-61.1
Minneapolis, MN	-	-	-	-	63,109	-
Pembina, ND	-	-	-	-	454	-
Other Ports	140	5,240	-	8,072	-	-
Total	12,636,509	13,471,579	15,172,587	55,112,904	61,513,174	-10.4

- = No data reported.

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

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

Table 16. U.S. coke exports

(short tons)

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	312,543	241,351	346,104	940,149	1,020,382	-7.9
Canada*	289,890	219,124	299,335	835,196	789,752	5.8
Mexico	22,293	21,991	46,702	103,979	229,731	-54.7
Other**	360	236	67	974	899	8.3
South America Total	1	-	-	44	41	7.3
Other**	1	-	-	44	41	7.3
Europe Total	11	-	7,597	405	108,062	-99.6
Other**	11	-	7,597	405	45,528	-99.1
Ukraine	-	-	-	-	62,534	-
Asia Total	71	230	233	954	1,316	-27.5
Other**	71	230	233	954	1,316	-27.5
Australia and Oceania Total	226	234	209	630	604	4.3
Other**	226	234	209	630	604	4.3
Africa Total	-	-	-	25,165	20,478	22.9
Other**	-	-	-	25,165	20,478	22.9
Total	312,852	241,815	354,143	967,347	1,150,883	-15.9

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

** Includes countries with coal exports less than or equal to 50,000 short tons in 2018.

- = No data reported.

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

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

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

(dollars per short ton)

Continent and country of destination	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	245.15	307.60	237.98	284.10	266.79	6.5
Canada*	232.78	297.02	230.75	275.00	256.78	7.1
Mexico	405.09	410.08	283.48	355.23	299.89	18.5
Other**	298.27	580.37	792.72	495.99	601.86	-17.6
South America Total	7,523.00	-	-	756.61	515.22	46.9
Other**	7,523.00	-	-	756.61	515.22	46.9
Europe Total	399.82	-	155.61	402.81	233.02	72.9
Other**	399.82	-	155.61	402.81	211.67	90.3
Ukraine	-	-	-	-	248.57	-
Asia Total	856.03	995.24	539.08	927.90	714.10	29.9
Other**	856.03	995.24	539.08	927.90	714.10	29.9
Australia and Oceania Total	600.69	602.37	455.49	555.70	445.43	24.8
Other**	600.69	602.37	455.49	555.70	445.43	24.8
Africa Total	-	-	-	90.72	90.72	s
Other**	-	-	-	90.72	90.72	s
Total	245.57	308.54	236.54	279.95	261.10	7.2

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

** Includes countries with coal exports less than or equal to 50,000 short tons in 2018.

- = No data reported.

s = Absolute percentage less than 0.05.

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

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

Table 18. U.S. coal imports

(short tons)

Continent and country of origin	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	222,313	215,849	198,220	818,595	770,984	6.2
Canada	221,989	215,753	198,038	817,190	770,359	6.1
Dominican Republic	313	-	-	313	-	-
Mexico	11	96	182	1,092	625	74.7
South America Total	1,330,694	1,250,667	1,130,165	5,034,025	4,061,012	24.0
Brazil	-	789	-	813	-	-
Colombia	1,330,632	1,249,816	1,130,042	5,032,942	4,060,581	23.9
Peru	62	62	123	270	431	-37.4
Europe Total	2,538	73,357	48,877	109,825	109,145	0.6
Cyprus	-	35,128	-	35,128	-	-
Germany, Federal Republic of	2,509	2,488	375	5,742	1,183	385.4
Greece	8	-	-	16	-	-
Luxembourg	-	-	-	-	1,102	-
Russia	-	35,741	48,502	68,729	78,908	-12.9
Ukraine	-	-	-	-	27,377	-
United Kingdom	21	-	-	210	575	-63.5
Asia Total	167,439	141,401	213,788	710,113	965,605	-26.5
China	31,634	7,511	6,372	54,715	28,624	91.2
Hong Kong	-	-	9,989	-	21,602	-
Indonesia	135,805	133,890	197,427	655,398	915,188	-28.4
Japan	-	-	-	-	10	-
Philippines	-	-	-	-	181	-
Africa Total	238	-	11,028	24,489	47,404	-48.3
Egypt	238	-	-	238	-	-
South Africa	-	-	11,028	24,251	47,404	-48.8
Total	1,723,222	1,681,274	1,602,078	6,697,047	5,954,150	12.5

- = No data reported.

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

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

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

(dollars per short ton)

Continent and country of origin	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	159.72	192.91	179.98	184.23	191.22	-3.7
Canada	159.83	192.93	180.03	184.33	191.25	-3.6
Dominican Republic	65.90	-	-	65.90	-	-
Mexico	482.64	134.89	119.73	142.44	160.05	-11.0
South America Total	60.29	60.78	65.26	62.78	61.28	2.4
Brazil	-	74.18	-	81.09	-	-
Colombia	60.28	60.76	65.24	62.76	61.26	2.4
Peru	277.42	276.98	271.59	272.10	264.59	2.8
Europe Total	62.69	150.57	106.35	155.14	126.07	23.1
Cyprus	-	148.59	-	148.59	-	-
Germany, Federal Republic of	59.45	58.97	74.87	61.23	75.65	-19.1
Greece	280.88	-	-	282.44	-	-
Luxembourg	-	-	-	-	490.09	-
Russia	-	158.89	106.59	166.25	128.21	29.7
Ukraine	-	-	-	-	107.41	-
United Kingdom	367.38	-	-	170.12	125.95	35.1
Asia Total	86.40	60.66	80.30	69.33	77.09	-10.1
China	78.38	76.33	146.86	96.13	132.01	-27.2
Hong Kong	-	-	74.93	-	74.93	-
Indonesia	88.27	59.79	78.42	67.10	75.42	-11.0
Japan	-	-	-	-	221.00	-
Philippines	-	-	-	-	65.78	-
Africa Total	75.00	-	117.93	120.21	116.89	2.8
Egypt	75.00	-	-	75.00	-	-
South Africa	-	-	117.93	120.65	116.89	3.2
U.S. Total*	75.66	81.65	83.07	80.04	82.30	-2.7

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

- = No data reported.

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

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

Table 20. Coal imports by customs district

(short tons)

Customs district	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Eastern Total	34,565	423	84,281	154,707	283,756	-45.5
Baltimore, MD	-	44	460	44	1,114	-96.1
Boston, MA	-	-	-	-	120,163	-
Buffalo, NY	-	40	-	243	207	17.4
New York City, NY	238	-	323	593	1,094	-45.8
Ogdensburg, NY	-	339	-	339	-	-
Portland, ME	34,327	-	83,498	153,488	161,178	-4.8
Southern Total	1,328,346	1,328,633	1,121,957	5,062,925	4,102,634	23.4
Charleston, SC	-	35,710	-	35,710	-	-
Houston-Galveston, TX	14,049	851	123	15,704	4,542	245.8
Laredo, TX	11	-	182	22	239	-90.8
Miami, FL	-	-	33,135	33,827	104,240	-67.5
Mobile, AL	746,077	703,842	467,318	2,759,580	2,303,784	19.8
New Orleans, LA	17,647	7,467	26,540	75,690	54,871	37.9
San Juan, PR	435,031	507,978	475,594	1,736,201	1,318,785	31.7
Savannah, GA	21	-	-	43	-	-
Tampa, FL	115,510	72,785	119,065	406,148	316,173	28.5
Western Total	201,425	175,533	256,858	887,640	1,031,012	-13.9
Columbia-Snake, OR	-	-	-	-	181	-
Great Falls, MT	62,193	39,485	57,885	219,279	231,679	-5.4
Honolulu, HI	135,805	133,890	197,427	655,398	795,025	-17.6
Nogales, AZ	-	96	-	1,070	386	177.2
San Francisco, CA	-	31	-	62	150	-58.7
Seattle, WA	3,427	2,031	1,546	11,831	3,591	229.5
Northern Total	158,886	176,685	138,982	591,775	536,748	10.3
Chicago, IL	32,296	-	-	32,326	215	NM
Cleveland, OH	-	-	375	745	1,166	-36.1
Detroit, MI	67,761	102,686	64,161	303,117	284,411	6.6
Duluth, MN	544	1,704	258	3,451	1,066	223.7
Pembina, ND	58,285	72,295	74,188	252,136	249,890	0.9
Total	1,723,222	1,681,274	1,602,078	6,697,047	5,954,150	12.5

- = No data reported.

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

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

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

Table 21. U.S. coke imports

(short tons)

Continent and country of origin	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	18,587	4,065	14,586	35,498	37,829	-6.2
Canada	18,587	4,065	14,586	35,498	37,829	-6.2
South America Total	-	-	-	12,100	38,094	-68.2
Chile	-	-	-	12,100	16,819	-28.1
Colombia	-	-	-	-	21,275	-
Europe Total	18,370	23,041	17,668	53,388	26,322	102.8
Czech Republic	16,672	17,012	17,649	33,684	25,933	29.9
Germany, Federal Republic of	-	-	11	-	159	-
Italy	42	6,020	-	6,710	196	NM
Poland	-	-	-	11,322	-	-
United Kingdom	1,656	9	8	1,672	34	NM
Asia Total	696	805	412	2,957	2,957	s
China	34	-	107	106	155	-31.6
Hong Kong	-	21	-	21	-	-
Indonesia	-	-	-	-	56	-
Japan	662	784	305	2,830	2,349	20.5
Saudi Arabia	-	-	-	-	397	-
Africa Total	1,919	2,051	2,322	11,718	11,533	1.6
Egypt	-	-	-	14	14	s
South Africa	1,919	2,051	2,322	11,704	11,519	1.6
U.S. Total	39,572	29,962	34,988	115,661	116,735	-0.9

- = 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	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
North America Total	148.36	168.56	233.65	182.42	271.09	-32.7
Canada	148.36	168.56	233.65	182.42	271.09	-32.7
South America Total	-	-	-	185.00	131.79	40.4
Chile	-	-	-	185.00	122.96	50.5
Colombia	-	-	-	-	138.76	-
Europe Total	339.16	369.81	332.93	354.05	331.87	6.7
Czech Republic	344.74	349.27	332.39	347.03	330.53	5.0
Germany, Federal Republic of	-	-	890.64	-	505.68	-
Italy	352.02	427.24	-	421.45	286.97	46.9
Poland	-	-	-	344.73	-	-
United Kingdom	282.66	777.78	750.00	288.33	797.06	-63.8
Asia Total	387.04	342.55	425.14	353.52	390.69	-9.5
China	1,742.41	-	731.40	1,135.47	724.06	56.8
Hong Kong	-	1,309.52	-	1,309.52	-	-
Indonesia	-	-	-	-	1,183.13	-
Japan	317.43	316.64	317.70	317.13	317.70	-0.2
Saudi Arabia	-	-	-	-	580.69	-
Africa Total	610.04	509.93	621.75	573.69	494.73	16.0
Egypt	-	-	-	2,997.93	3,405.00	-12.0
South Africa	610.04	509.93	621.75	570.79	491.19	16.2
U.S. Total	263.52	351.36	311.79	305.93	264.46	15.7

- = No data reported.

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

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

Receipts and prices

Table 23. Coal receipts at coke plants by census division

(thousand short tons)

Census division	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Middle Atlantic	1,098	1,385	1,487	5,461	5,812	-6.0
East North Central	2,463	2,513	2,505	10,193	9,688	5.2
South Atlantic	437	461	424	1,829	1,691	8.1
East South Central	230	262	309	1,031	1,291	-20.1
U.S. Total	4,229	4,621	4,726	18,514	18,482	0.2

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	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Middle Atlantic	w	w	w	w	w	w
East North Central	150.38	160.46	140.71	156.47	138.28	13.2
South Atlantic	w	w	w	w	w	w
East South Central	w	w	w	w	w	w
U.S. Total	143.06	149.04	131.36	145.88	128.75	13.3

w = Data withheld to avoid disclosure.

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

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

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

(thousand short tons and dollars per short ton)

Commodity	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Coke						
Sales	1,616	1,660	1,700	6,513	6,830	-4.6
Average Price	402.19	334.77	293.72	354.76	299.71	18.4
Breeze						
Sales	159	109	149	494	555	-11.0
Average Price	131.05	95.98	100.79	106.22	88.05	20.6

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	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
New England	5	5	6	20	25	-18.8
Maine	5	4	5	18	22	-16.8
Massachusetts	s	1	1	3	4	-30.6
Middle Atlantic	190	227	217	845	879	-3.8
New York	78	107	63	341	296	15.2
Pennsylvania	112	120	154	504	583	-13.5
East North Central	1,744	1,572	1,761	6,155	6,496	-5.2
Illinois	632	632	643	2,468	2,586	-4.6
Indiana	620	462	550	1,855	1,847	0.5
Michigan	153	157	160	551	652	-15.4
Ohio	105	112	121	443	505	-12.3
Wisconsin	235	208	288	839	906	-7.5
West North Central	2,839	2,783	3,284	11,214	12,189	-8.0
Iowa	598	654	546	2,378	2,374	0.2
Kansas	13	22	29	88	101	-12.5
Minnesota	259	131	348	912	963	-5.3
Missouri	204	214	223	816	855	-4.6
Nebraska	265	226	318	973	1,163	-16.3
North Dakota	1,466	1,482	1,774	5,817	6,544	-11.1
South Dakota	35	55	45	229	189	21.6
South Atlantic	541	607	764	2,618	2,892	-9.5
Florida	32	113	155	424	529	-19.9
Georgia	97	74	79	355	345	2.8
Maryland	99	103	165	468	542	-13.6
North Carolina	92	80	97	376	402	-6.4
South Carolina	19	29	52	144	204	-29.1
Virginia	111	111	131	460	493	-6.7
West Virginia	90	98	86	390	376	3.6
East South Central	649	668	783	2,733	3,132	-12.7
Alabama	161	188	240	787	925	-14.9
Kentucky	158	165	222	689	784	-12.1
Mississippi	19	-	-	19	-	-
Tennessee	311	315	322	1,238	1,424	-13.1
West South Central	258	292	329	1,098	1,324	-17.1
Arkansas	38	42	50	156	190	-17.7
Louisiana	44	52	58	194	245	-21.1
Oklahoma	82	59	66	267	323	-17.3
Texas	94	139	155	480	566	-15.1
Mountain	770	769	866	3,031	3,143	-3.6
Arizona	40	86	75	280	288	-3.1
Colorado	38	42	59	187	195	-4.0
Idaho	19	33	20	67	90	-25.4
Montana	94	37	95	205	241	-14.7
Nevada	80	78	91	292	302	-3.2
New Mexico	12	18	19	61	72	-14.8
Utah	109	99	88	383	366	4.7
Wyoming	378	375	419	1,555	1,589	-2.2
Pacific	414	288	367	1,470	1,537	-4.4
Alaska	s	s	s	1	1	s
California	381	259	332	1,337	1,418	-5.7
Oregon	12	12	11	51	46	11.1
Washington	22	17	23	81	73	11.2
U.S. Total	7,409	7,211	8,378	29,184	31,617	-7.7

- = 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.

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

(dollars per short ton)

Census division and state	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
New England	w	w	w	w	w	w
Maine	w	w	w	w	w	w
Massachusetts	w	w	w	w	w	w
Middle Atlantic	87.11	85.89	96.42	85.97	94.64	-9.2
New York	w	w	w	w	120.38	w
Pennsylvania	w	w	w	w	81.33	w
East North Central	80.04	77.97	75.25	77.98	72.56	7.5
Illinois	w	45.15	w	w	45.53	w
Indiana	w	109.17	w	w	92.15	w
Michigan	98.78	90.89	93.75	97.61	86.96	12.2
Ohio	101.56	104.61	98.24	100.50	99.33	1.2
Wisconsin	83.82	84.29	86.83	84.36	84.49	-0.2
West North Central	28.74	28.18	26.81	28.84	28.32	1.8
Iowa	34.82	36.26	34.60	35.74	39.53	-9.6
Kansas	w	w	w	w	w	w
Minnesota	48.45	48.18	47.01	48.90	48.04	1.8
Missouri	53.44	53.67	47.56	53.60	49.57	8.1
Nebraska	24.25	w	25.41	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic	101.44	100.77	98.68	101.78	99.11	2.7
Florida	w	113.22	w	w	w	w
Georgia	106.19	107.25	102.91	106.43	102.08	4.3
Maryland	w	w	w	w	w	w
North Carolina	102.70	98.66	95.93	105.01	96.36	9.0
South Carolina	112.94	102.82	99.45	102.25	99.82	2.4
Virginia	101.65	97.91	93.66	99.15	92.18	7.6
West Virginia	w	w	155.73	w	w	w
East South Central	97.26	95.29	89.41	96.16	87.67	9.7
Alabama	w	91.90	93.75	w	w	w
Kentucky	106.27	106.52	89.55	103.17	88.59	16.5
Mississippi	w	-	-	w	-	-
Tennessee	91.50	91.41	86.08	91.56	82.48	11.0
West South Central	76.27	77.81	77.87	78.70	76.36	3.1
Arkansas	w	w	w	w	w	w
Louisiana	w	w	w	w	w	w
Oklahoma	w	88.32	69.19	w	w	w
Texas	85.90	79.72	85.86	84.92	87.32	-2.7
Mountain	57.90	63.30	56.00	59.59	56.36	5.7
Arizona	w	w	w	w	w	w
Colorado	w	w	w	w	57.77	w
Idaho	w	110.49	w	w	w	w
Montana	45.95	58.04	38.17	50.96	41.29	23.4
Nevada	75.80	77.61	71.79	77.91	75.09	3.8
New Mexico	w	w	w	w	w	w
Utah	56.66	56.73	53.61	57.77	53.65	7.7
Wyoming	47.70	48.64	47.12	47.78	46.57	2.6
Pacific	78.80	80.09	77.50	79.97	81.44	-1.8
California	78.71	80.36	77.46	79.64	81.73	-2.6
Oregon	w	w	w	w	w	w
Washington	w	w	w	w	w	w
U.S. Total	61.11	61.02	58.47	61.37	59.01	4.0

- = No data reported.

w = Data withheld to avoid disclosure.

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

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

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

NAICS code	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
311 Food Manufacturing	2,024	1,733	2,064	7,351	7,573	-2.9
312 Beverage and Tobacco Product Mfg.	5	2	4	15	17	-11.4
313 Textile Mills	11	6	22	54	84	-35.4
322 Paper Manufacturing	563	455	652	2,224	2,602	-14.5
324 Petroleum and Coal Products	1,311	1,375	1,633	5,362	6,113	-12.3
325 Chemical Manufacturing	844	722	796	3,243	3,475	-6.7
327 Nonmetallic Mineral Products Mfg.	1,957	2,138	2,331	7,901	8,460	-6.6
331 Primary Metal Manufacturing	427	455	539	1,829	2,019	-9.4
333 Machinery Manufacturing	16	16	11	42	23	79.4
339 Miscellaneous Manufacturing	252	310	327	1,164	1,250	-6.9
U.S. Total	7,409	7,211	8,378	29,184	31,617	-7.7

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

NAICS code	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
311 Food Manufacturing	41.96	41.72	41.20	41.94	42.17	-0.5
312 Beverage and Tobacco Product Mfg.	w	w	w	w	w	w
313 Textile Mills	113.23	117.00	113.58	114.28	113.89	0.3
322 Paper Manufacturing	91.74	92.72	86.58	91.29	84.81	7.6
324 Petroleum and Coal Products	w	w	w	w	w	w
325 Chemical Manufacturing	83.87	80.21	75.97	81.00	74.14	9.3
327 Nonmetallic Mineral Products Mfg.	75.99	76.45	77.26	77.31	76.90	0.5
331 Primary Metal Manufacturing	138.17	134.89	115.93	130.83	118.03	10.8
333 Machinery Manufacturing	w	w	w	w	w	w
339 Miscellaneous Manufacturing	53.84	55.08	52.03	54.29	52.84	2.7
U.S. Total	61.11	61.02	58.47	61.37	59.01	4.0

* Includes coal gasification projects.

** Excludes coke plants.

- = No data reported.

w = Data withheld to avoid disclosure.

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

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

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

(thousand short tons)

Census division and state	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Middle Atlantic	3	-	3	10	14	-26.1
Pennsylvania	3	-	3	10	14	-26.1
East North Central	38	31	36	161	180	-10.7
Illinois	19	19	21	87	108	-19.3
Indiana	14	11	9	53	52	3.5
Wisconsin	6	-	6	20	20	-0.5
West North Central	55	26	54	164	172	-4.5
Iowa	29	24	23	99	95	3.6
Minnesota	1	-	1	6	3	91.0
Missouri	3	s	7	9	13	-33.4
North Dakota	21	3	23	50	60	-16.2
South Atlantic	27	14	34	85	95	-10.9
North Carolina	20	12	25	68	71	-4.0
Virginia	7	2	9	17	24	-30.9
East South Central	1	-	s	5	5	1.3
Kentucky	1	-	s	5	5	1.3
Mountain	3	1	2	8	11	-29.3
Montana	1	1	-	2	3	-52.1
Wyoming	2	s	2	6	8	-20.5
Pacific	98	113	111	430	431	-0.3
Alaska	98	113	111	430	431	-0.3
U.S. Total	225	185	241	863	908	-5.0

- = 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.'

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

(dollars per short ton)

Census division and state	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Middle Atlantic	130.16	-	107.76	112.96	105.17	7.4
Pennsylvania	130.16	-	107.76	112.96	105.17	7.4
East North Central	69.36	51.60	72.07	69.11	66.83	3.4
Illinois	w	w	w	w	w	w
Indiana	w	w	w	w	w	w
Wisconsin	157.96	-	153.50	157.23	154.28	1.9
West North Central	78.07	86.08	76.88	81.03	79.36	2.1
Iowa	w	w	w	w	w	w
Minnesota	w	-	w	w	w	w
Missouri	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Atlantic	139.09	w	139.13	w	w	w
North Carolina	w	w	w	w	w	w
Virginia	w	w	w	w	w	w
East South Central	w	-	w	w	w	w
Kentucky	w	-	w	w	w	w
Mountain	w	w	w	w	w	w
Montana	w	w	-	w	w	w
Wyoming	w	w	w	w	w	w
Pacific	w	w	w	w	w	w
Alaska	w	w	w	w	w	w
U.S. Total	88.73	82.82	89.41	86.34	83.86	3.0

- = No data reported.

w = Data withheld to avoid disclosure.

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

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

Consumption

Table 32. U.S. coal consumption by end-use sector, 2013 - 2019

(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	
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	3,483	5,051	8,534	194	179	373	173,712
April - June	154,230	4,325	3,095	5,013	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	3,315	5,056	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	155,420	4,228	3,473	4,673	8,146	192	162	354	168,149
April - June	144,112	4,610	2,909	4,782	7,691	122	72	194	156,607
July - September	181,691	4,762	2,853	4,738	7,591	127	48	175	194,219
October - December	155,993	4,737	2,999	5,154	8,152	136	113	248	169,131
Total	637,217	18,337	12,233	19,347	31,580	577	395	972	688,105
2019									
January - March	145,292	4,463	3,039	4,743	7,783	165	155	320	157,857
April - June	118,007	4,660	2,712	4,299	7,011	109	67	176	129,854
July - September	156,169	4,455	2,597	4,417	7,014	125	29	154	167,792
October - December	119,947	4,346	2,895	4,425	7,321	128	99	227	131,841
Total	539,415	17,924	11,244	17,885	29,129	526	350	876	587,344
2018 January - December	637,217	18,337	12,233	19,347	31,580	577	395	972	688,105
2017 January - December	664,993	17,538	12,975	20,289	33,264	610	451	1,061	716,856

1 The electric power sector (electric utilities and independent power producers) comprises electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity or electricity and heat to the public (i.e. NAICS 22 plants). The reported coal consumption is the total for producing electricity and useful thermal output.

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

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

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

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

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

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

Table 33. Coal carbonized at coke plants by census division

(thousand short tons)

Census division	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Middle Atlantic	1,300	1,351	1,513	5,505	5,731	-3.9
East North Central	2,421	2,442	2,477	9,772	9,694	0.8
South Atlantic	437	430	445	1,711	1,671	2.4
East South Central	188	232	302	935	1,242	-24.7
U.S. Total	4,346	4,455	4,737	17,924	18,337	-2.3

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

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

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

(thousand short tons)

Census division and state	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
New England	5	5	6	21	25	-16.1
Maine	4	4	5	18	21	-13.4
Massachusetts	1	1	1	3	4	-29.9
Middle Atlantic	195	228	206	847	856	-1.1
New York	89	104	58	349	281	24.3
Pennsylvania	105	124	147	498	576	-13.5
East North Central	1,580	1,528	1,555	6,084	6,361	-4.4
Illinois	632	637	621	2,488	2,560	-2.8
Indiana	514	476	442	1,792	1,773	1.1
Michigan	130	135	119	553	621	-10.9
Ohio	108	106	120	439	508	-13.5
Wisconsin	195	174	252	812	900	-9.8
West North Central	2,811	2,731	3,288	11,258	12,349	-8.8
Iowa	586	568	565	2,326	2,399	-3.1
Kansas	16	20	40	80	117	-31.8
Minnesota	259	168	338	995	1,076	-7.5
Missouri	215	226	206	822	838	-2.0
Nebraska	264	241	304	1,007	1,138	-11.6
North Dakota	1,419	1,449	1,785	5,810	6,599	-12.0
South Dakota	51	59	49	218	181	20.8
South Atlantic	569	587	755	2,548	2,853	-10.7
Florida	62	110	136	417	514	-19.0
Georgia	77	69	83	312	336	-7.2
Maryland	103	102	158	471	540	-12.8
North Carolina	91	79	101	361	398	-9.2
South Carolina	39	30	58	161	200	-19.5
Virginia	103	107	128	457	494	-7.5
West Virginia	94	90	91	370	371	-0.5
East South Central	645	660	739	2,740	3,111	-11.9
Alabama	169	192	229	803	932	-13.9
Kentucky	160	152	205	689	767	-10.2
Mississippi	19	-	-	19	-	-
Tennessee	297	316	305	1,230	1,412	-12.9
West South Central	266	282	319	1,122	1,305	-14.0
Arkansas	43	41	42	172	175	-1.3
Louisiana	47	52	58	205	245	-16.2
Oklahoma	61	58	79	241	356	-32.2
Texas	116	131	140	503	530	-5.0
Mountain	819	729	885	3,055	3,146	-2.9
Arizona	67	75	84	282	280	0.6
Colorado	35	36	61	187	179	4.8
Idaho	37	14	35	101	122	-16.8
Montana	87	31	90	198	235	-16.0
Nevada	75	70	74	286	295	-3.2
New Mexico	12	18	20	60	73	-18.6
Utah	102	100	99	382	378	0.9
Wyoming	404	384	422	1,559	1,583	-1.5
Pacific	431	264	400	1,455	1,574	-7.6
Alaska	s	s	s	1	1	s
California	373	246	348	1,323	1,438	-8.0
Oregon	35	-	33	52	61	-14.2
Washington	21	17	20	79	74	7.2
U.S. Total	7,321	7,014	8,152	29,129	31,580	-7.8

- = No data reported.

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

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

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

NAICS code	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
311 Food Manufacturing	1,998	1,659	2,054	7,357	7,646	-3.8
312 Beverage and Tobacco Product Mfg.	4	2	4	15	17	-15.1
313 Textile Mills	12	7	21	57	83	-31.8
322 Paper Manufacturing	481	446	652	2,151	2,632	-18.3
324 Petroleum and Coal Products	1,260	1,365	1,629	5,350	6,127	-12.7
325 Chemical Manufacturing	836	703	819	3,200	3,530	-9.3
327 Nonmetallic Mineral Products Mfg.	2,047	2,022	2,174	7,939	8,229	-3.5
331 Primary Metal Manufacturing	388	477	471	1,823	2,053	-11.2
333 Machinery Manufacturing	18	17	6	49	45	8.9
336 Transportation Equipment Mfg.	-	-	-	-	2	-
339 Miscellaneous Manufacturing	278	316	323	1,190	1,216	-2.2
U.S. Total	7,321	7,014	8,152	29,129	31,580	-7.8

* Includes coal gasification projects.

** Excludes coke plants.

- = No data reported.

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

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

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

(thousand short tons)

Census division and state	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Middle Atlantic	3	s	2	12	14	-15.3
Pennsylvania	3	s	2	12	14	-15.3
East North Central	37	34	35	169	195	-13.4
Illinois	18	21	19	87	112	-22.0
Indiana	14	13	11	61	63	-2.4
Wisconsin	4	-	5	20	20	0.3
West North Central	45	25	49	165	181	-8.7
Iowa	24	25	25	99	104	-5.5
Minnesota	1	-	2	5	6	-26.4
Missouri	2	s	6	9	12	-26.0
North Dakota	18	-	17	53	58	-8.9
South Atlantic	21	7	27	80	107	-25.1
District of Columbia	-	-	-	s	1	-87.3
North Carolina	15	7	20	58	78	-25.8
Virginia	5	1	6	22	27	-20.0
East South Central	1	-	s	6	5	15.4
Kentucky	1	-	s	6	5	15.4
Mountain	3	s	4	8	11	-25.1
Montana	s	-	1	2	3	-37.4
Wyoming	2	s	2	6	8	-20.5
Pacific	117	87	131	435	458	-5.0
Alaska	117	87	131	435	458	-5.0
U.S. Total	227	154	248	876	972	-9.8

- = No data reported.

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

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

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

Stocks

Table 37. U.S. coal stocks, 2013 - 2019

(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			
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	126,422	1,508	2,891	275	131,096	24,736	155,832
June 30	121,394	1,616	2,896	256	126,162	22,997	149,159
September 30	100,680	1,811	3,023	260	105,774	22,537	128,311
December 31	103,043	1,807	3,258	247	108,355	21,692	130,047
2019							
March 31	97,102	2,005	2,832	221	102,160	23,158*	125,318
June 30	117,710	2,296	2,985	201	123,193	21,878*	145,071
September 30	110,952	2,463	3,168	232	116,815	23,073*	139,888
December 31	128,497	2,333	3,258	246	134,334	24,438*	158,772

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

2 Manufacturing plants only.

* Estimated.

- = No data reported.

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

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

Table 38. Coal stocks at coke plants by census division

(thousand short tons)

Census division	December 31, 2019	September 30, 2019	December 31, 2018	Percent change (December 31) 2019 versus 2018
Middle Atlantic	446	642	444	0.5
East North Central	1,371	1,341	1,015	35.1
South Atlantic	229	235	151	51.7
East South Central	286	245	197	45.7
U.S. Total	2,333	2,463	1,807	29.1

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

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

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

(thousand short tons)

Census division and state	December 31, 2019	September 30, 2019	December 31, 2018	Percent change (December 31) 2019 versus 2018
New England	1	1	5	-87.1
Maine	1	s	1	-29.4
Massachusetts	-	1	4	-100.0
Middle Atlantic	234	241	248	-5.7
New York	78	89	91	-15.2
Pennsylvania	156	152	157	-0.2
East North Central	839	672	790	6.2
Illinois	119	119	139	-14.5
Indiana	312	208	269	16.2
Michigan	233	209	237	-1.4
Ohio	25	27	19	29.9
Wisconsin	149	108	126	18.8
West North Central	522	501	567	-7.8
Iowa	163	152	117	40.2
Kansas	19	23	10	80.0
Minnesota	35	36	95	-62.9
Missouri	66	82	87	-24.0
Nebraska	44	43	78	-44.4
North Dakota	155	109	148	4.6
South Dakota	40	57	31	29.6
South Atlantic	463	491	396	16.9
Florida	97	129	92	6.1
Georgia	103	83	59	75.8
Maryland	9	14	14	-32.2
North Carolina	53	50	39	37.1
South Carolina	55	74	72	-23.5
Virginia	60	52	57	5.6
West Virginia	86	90	65	31.9
East South Central	201	192	206	-2.2
Alabama	70	80	84	-15.9
Kentucky	33	33	36	-9.3
Mississippi	4	-	-	-
Tennessee	94	79	86	9.5
West South Central	324	336	392	-17.3
Arkansas	30	36	46	-35.0
Louisiana	6	5	9	-31.8
Oklahoma	108	86	84	29.1
Texas	180	209	253	-28.9
Mountain	539	583	539	-0.1
Arizona	32	59	35	-7.4
Colorado	28	23	29	-5.2
Idaho	223	237	244	-8.9
Montana	51	44	45	13.6
Nevada	34	31	36	-3.7
New Mexico	4	3	2	146.2
Utah	57	50	42	37.2
Wyoming	110	137	107	2.7
Pacific	136	152	116	17.0
California	122	115	103	18.6
Oregon	6	30	7	-19.2
Washington	7	7	5	37.2
U.S. Total	3,258	3,168	3,258	s

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

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

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

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

(thousand short tons)

NAICS code	December 31, 2019	September 30, 2019	December 31, 2018	Percent change (December 31) 2019 versus 2018
311 Food Manufacturing	618	593	637	-2.9
312 Beverage and Tobacco Product Mfg.	2	1	1	53.7
313 Textile Mills	11	11	14	-21.8
322 Paper Manufacturing	398	318	321	23.8
324 Petroleum and Coal Products	175	124	164	7.1
325 Chemical Manufacturing	287	270	224	28.3
327 Nonmetallic Mineral Products Mfg.	1,370	1,467	1,483	-7.6
331 Primary Metal Manufacturing	265	228	270	-1.8
333 Machinery Manufacturing	14	16	19	-25.2
339 Miscellaneous Manufacturing	118	140	125	-5.8
U.S. Total	3,258	3,168	3,258	s

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

(thousand short tons)

Census division	December 31, 2019	September 30, 2019	December 31, 2018	Percent change (December 31) 2019 versus 2018
Middle Atlantic	142	82	85	66.6
East North Central	253	330	224	13.2
South Atlantic	53	45	47	14.2
East South Central	125	88	99	26.1
U.S. Total	574	545	455	26.1
Coke Total	475	435	354	34.2
Breeze Total	100	110	102	-2.1

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

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

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

(thousand short tons)

Census division and state	December 31, 2019	September 30, 2019	December 31, 2018	Percent change (December 31) 2019 versus 2018
Middle Atlantic	37	37	42	-12.0
Pennsylvania	37	37	42	-12.0
East North Central	21	20	31	-29.7
Illinois	17	17	19	-6.2
Indiana	1	1	9	-86.9
Wisconsin	3	2	3	1.5
West North Central	36	26	35	0.3
Iowa	17	12	15	13.2
Minnesota	7	6	5	24.9
Missouri	1	-	1	-40.3
North Dakota	11	8	14	-19.0
South Atlantic	46	40	41	12.4
District of Columbia	3	3	3	-6.1
North Carolina	33	29	23	44.9
Virginia	10	9	15	-33.1
East South Central	7	7	8	-12.5
Kentucky	7	7	8	-12.5
Mountain	3	3	3	-12.9
Colorado	1	1	1	s
Montana	2	2	2	-17.7
Wyoming	s	s	s	s
Pacific	97	100	87	11.3
Alaska	97	100	87	11.3
U.S. Total	246	232	247	-0.2

- = No data reported.

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

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

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

Quality

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

Census division and state ¹	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
New England						
Btu	12,340	12,322	12,658	12,332	12,682	-2.8
Sulfur	0.77	0.76	0.76	0.76	0.77	-1.3
Ash	5.89	8.76	7.18	7.94	7.59	4.7
Maine						
Btu	12,336	12,312	12,773	12,318	12,748	-3.4
Sulfur	0.77	0.76	0.73	0.76	0.75	2.2
Ash	5.72	8.76	7.39	7.99	7.29	9.5
Massachusetts						
Btu	12,405	12,405	12,189	12,428	12,290	1.1
Sulfur	0.75	0.75	0.90	0.78	0.94	-17.2
Ash	8.80	8.80	6.32	7.63	9.33	-18.2
Middle Atlantic						
Btu	14,179	14,131	14,079	14,114	14,080	0.2
Sulfur	1.14	1.15	1.09	1.14	1.10	2.8
Ash	7.46	7.34	7.44	7.62	7.68	-0.8
New York						
Btu	12,737	12,702	13,072	12,740	13,371	-4.7
Sulfur	2.23	2.24	1.89	2.24	1.77	26.9
Ash	9.38	9.26	7.93	9.35	7.75	20.6
Pennsylvania						
Btu	14,272	14,233	14,118	14,193	14,123	0.5
Sulfur	1.07	1.07	1.06	1.07	1.06	0.7
Ash	7.33	7.21	7.42	7.52	7.68	-2.0
East North Central						
Btu	13,049	13,215	13,126	13,208	13,179	0.2
Sulfur	1.09	1.13	1.16	1.12	1.17	-3.6
Ash	7.21	7.25	7.52	7.26	7.33	-1.0
Illinois						
Btu	11,317	11,273	11,382	11,482	11,390	0.8
Sulfur	1.95	2.14	2.27	2.00	2.14	-6.3
Ash	7.26	7.49	7.49	7.42	7.47	-0.7
Indiana						
Btu	13,702	14,003	13,784	13,954	13,952	s
Sulfur	0.86	0.88	0.83	0.88	0.85	3.9
Ash	7.04	7.06	7.39	7.11	7.22	-1.6
Michigan						
Btu	13,027	13,108	13,139	13,061	13,150	-0.7
Sulfur	0.78	0.75	0.80	0.76	0.84	-9.7
Ash	7.31	7.19	7.75	7.09	7.40	-4.3
Ohio						
Btu	14,187	14,261	14,190	14,232	14,167	0.5
Sulfur	0.99	0.99	1.04	0.98	1.01	-3.0
Ash	7.38	7.33	7.60	7.44	7.37	1.0
Wisconsin						
Btu	10,771	10,727	10,983	10,650	10,879	-2.1
Sulfur	0.69	0.65	0.79	0.69	0.83	-17.3
Ash	7.20	7.24	7.55	7.15	7.16	-0.1
West North Central						
Btu	8,300	8,293	8,213	8,279	8,229	0.6
Sulfur	0.83	0.94	0.73	0.88	0.81	8.6
Ash	6.12	6.35	6.23	6.28	6.29	-0.2
Iowa						
Btu	9,123	9,331	9,016	9,201	9,153	0.5
Sulfur	0.70	0.98	0.57	0.84	0.78	8.0
Ash	5.32	5.64	4.93	5.37	5.15	4.3
Kansas						

Census division and state¹	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Btu	11,700	11,572	10,494	11,415	10,792	5.8
Sulfur	2.47	2.93	1.93	2.59	2.04	27.1
Ash	8.23	12.91	13.28	12.16	12.77	-4.8
Minnesota						
Btu	9,366	9,349	9,133	9,260	9,113	1.6
Sulfur	0.36	0.35	0.31	0.34	0.30	10.6
Ash	4.20	4.14	4.50	4.31	4.52	-4.7
Missouri						
Btu	11,177	11,177	11,137	11,171	11,225	-0.5
Sulfur	2.33	2.34	2.31	2.28	2.34	-2.6
Ash	8.41	8.68	8.78	8.58	8.72	-1.6
Nebraska						
Btu	8,716	8,696	8,867	8,703	8,932	-2.6
Sulfur	0.22	0.22	0.23	0.22	0.24	-7.4
Ash	4.61	4.51	4.75	4.56	4.80	-4.9
North Dakota						
Btu	7,271	7,212	7,259	7,218	7,204	0.2
Sulfur	0.86	0.87	0.73	0.88	0.78	12.3
Ash	6.73	6.72	6.80	6.84	6.81	0.4
South Dakota						
Btu	8,320	8,386	8,334	8,411	8,357	0.6
Sulfur	0.50	0.52	0.52	0.54	0.56	-2.6
Ash	5.91	6.01	5.96	6.15	6.33	-2.8
South Atlantic						
Btu	13,480	13,399	13,178	13,340	13,345	s
Sulfur	1.08	1.10	1.14	1.10	1.11	-1.1
Ash	9.51	9.62	10.12	9.66	9.75	-0.9
Florida						
Btu	12,382	12,162	12,402	12,367	12,575	-1.7
Sulfur	1.17	1.12	1.13	1.11	1.01	9.4
Ash	9.94	10.47	9.58	10.62	10.23	3.7
Georgia						
Btu	12,429	12,434	12,532	12,568	12,546	0.2
Sulfur	1.05	0.79	1.01	0.94	0.97	-3.2
Ash	11.23	11.21	9.98	10.47	9.97	5.1
Maryland						
Btu	11,158	11,237	10,811	10,781	11,035	-2.3
Sulfur	1.68	1.63	1.85	1.65	1.80	-8.6
Ash	24.85	24.38	24.34	23.53	23.51	0.1
North Carolina						
Btu	13,546	13,501	13,508	13,490	13,532	-0.3
Sulfur	0.91	0.91	0.93	0.93	0.93	0.4
Ash	6.94	7.58	7.11	7.39	7.40	-0.1
South Carolina						
Btu	13,335	13,284	13,317	13,274	13,315	-0.3
Sulfur	1.04	1.68	1.75	1.58	1.65	-3.8
Ash	7.75	7.17	8.68	7.96	8.44	-5.6
Virginia						
Btu	14,107	14,124	14,047	14,093	14,118	-0.2
Sulfur	0.85	0.84	0.83	0.84	0.85	-1.2
Ash	7.35	7.42	7.29	7.48	7.31	2.3
West Virginia						
Btu	13,987	13,927	13,939	13,954	14,029	-0.5
Sulfur	1.27	1.37	1.16	1.30	1.24	4.8
Ash	7.03	7.23	6.86	7.18	6.86	4.7
East South Central						
Btu	13,406	13,456	13,376	13,417	13,400	0.1
Sulfur	1.33	1.40	1.23	1.32	1.21	8.9
Ash	7.13	7.51	7.25	7.29	7.35	-0.9
Alabama						
Btu	13,716	13,767	13,699	13,721	13,799	-0.6

Census division and state¹	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Sulfur	1.07	1.15	1.03	1.08	1.04	4.0
Ash	7.49	7.38	6.89	7.37	6.92	6.5
Kentucky						
Btu	13,042	13,008	13,051	13,067	12,949	0.9
Sulfur	1.21	1.41	1.10	1.27	1.07	17.9
Ash	7.25	8.65	8.43	7.58	8.08	-6.1
Mississippi						
Btu	14,849	-	-	14,849	-	-
Sulfur	0.81	-	-	0.81	-	-
Ash	3.43	-	-	3.43	-	-
Tennessee						
Btu	13,111	13,245	13,049	13,144	13,028	0.9
Sulfur	1.74	1.75	1.66	1.70	1.54	9.9
Ash	6.85	7.11	7.06	7.05	7.61	-7.3
West South Central						
Btu	9,649	9,954	10,019	9,843	9,910	-0.7
Sulfur	0.54	0.69	0.65	0.65	0.62	4.4
Ash	7.98	8.40	8.28	8.42	8.35	0.8
Arkansas						
Btu	11,876	11,673	11,745	11,730	11,633	0.8
Sulfur	0.97	1.27	1.20	1.14	1.20	-4.7
Ash	9.70	9.74	10.29	9.85	10.50	-6.2
Louisiana						
Btu	7,799	7,939	8,172	7,831	8,083	-3.1
Sulfur	0.56	0.59	0.78	0.61	0.74	-18.0
Ash	5.80	5.49	6.16	5.70	6.34	-10.1
Oklahoma						
Btu	9,591	10,723	9,991	10,225	9,868	3.6
Sulfur	0.30	0.42	0.32	0.37	0.33	11.4
Ash	5.21	5.58	4.98	5.39	5.31	1.5
Texas						
Btu	9,676	9,864	10,165	9,829	10,148	-3.1
Sulfur	0.58	0.66	0.55	0.67	0.55	21.6
Ash	10.71	10.29	9.82	10.73	10.23	4.9
Mountain						
Btu	10,354	10,708	10,411	10,528	10,502	0.2
Sulfur	0.47	0.57	0.59	0.54	0.60	-10.8
Ash	7.25	7.67	6.96	7.25	7.08	2.5
Arizona						
Btu	11,841	11,625	11,582	11,623	11,654	-0.3
Sulfur	0.76	0.65	0.66	0.65	0.68	-4.9
Ash	12.46	12.30	12.19	12.44	11.54	7.8
Colorado						
Btu	11,886	12,117	10,674	11,427	10,730	6.5
Sulfur	0.57	0.73	0.59	0.59	0.50	17.8
Ash	9.46	9.66	8.08	8.63	8.09	6.7
Idaho						
Btu	11,853	11,678	11,898	11,674	11,593	0.7
Sulfur	0.53	0.52	0.51	0.53	0.49	7.6
Ash	10.76	10.49	9.99	10.03	10.01	0.1
Montana						
Btu	8,412	9,745	8,664	8,942	9,109	-1.8
Sulfur	0.33	0.45	0.36	0.37	0.38	-4.0
Ash	5.75	4.85	5.77	5.53	5.73	-3.4
Nevada						
Btu	11,675	11,743	11,594	11,685	11,596	0.8
Sulfur	0.46	0.48	0.43	0.48	0.43	12.6
Ash	9.94	9.59	9.92	9.81	9.32	5.2
New Mexico						
Btu	12,255	12,211	12,255	12,225	12,230	s
Sulfur	0.67	0.78	0.95	0.79	0.78	1.0

Census division and state ¹	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Ash	10.36	10.14	10.41	10.37	10.62	-2.3
Utah						
Btu	11,346	11,362	11,410	11,396	11,513	-1.0
Sulfur	0.44	0.41	0.46	0.42	0.46	-9.2
Ash	11.26	11.02	10.62	11.12	10.53	5.6
Wyoming						
Btu	9,821	9,884	9,935	9,883	9,894	-0.1
Sulfur	0.47	0.60	0.69	0.57	0.70	-19.2
Ash	4.85	4.99	4.42	4.71	4.80	-1.9
Pacific						
Btu	11,589	11,625	11,242	11,540	11,462	0.7
Sulfur	0.54	0.47	0.42	0.46	0.45	2.4
Ash	10.83	11.88	10.95	10.68	10.44	2.3
California						
Btu	11,726	11,778	11,370	11,674	11,560	1.0
Sulfur	0.55	0.48	0.43	0.47	0.45	3.4
Ash	11.23	12.37	11.39	11.07	10.77	2.8
Oregon						
Btu	11,144	11,337	11,459	11,396	11,687	-2.5
Sulfur	0.42	0.49	0.38	0.41	0.45	-7.4
Ash	10.06	12.46	11.47	11.07	10.09	9.7
Washington						
Btu	9,400	9,452	9,329	9,404	9,395	0.1
Sulfur	0.33	0.33	0.36	0.33	0.35	-6.5
Ash	4.17	3.92	4.41	4.07	4.19	-2.9
U.S. Total						
Btu	11,771	11,933	11,731	11,896	11,820	0.6
Sulfur	0.98	1.04	0.98	1.01	1.00	1.4
Ash	7.31	7.45	7.48	7.43	7.45	-0.3

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	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Middle Atlantic						
Btu	12,721	-	12,777	13,039	12,890	1.2
Sulfur	0.57	-	0.86	0.81	0.84	-3.8
Ash	6.12	-	6.92	7.40	7.02	5.4
Pennsylvania						
Btu	12,721	-	12,777	13,039	12,890	1.2
Sulfur	0.57	-	0.86	0.81	0.84	-3.8
Ash	6.12	-	6.92	7.40	7.02	5.4
East North Central						
Btu	11,613	11,292	11,661	11,679	11,584	0.8
Sulfur	2.72	3.06	2.51	2.72	2.73	-0.6
Ash	9.29	9.90	9.50	9.39	9.22	1.8
Illinois						
Btu	11,338	11,324	11,360	11,480	11,393	0.8
Sulfur	3.38	3.37	3.34	3.34	3.21	3.8
Ash	10.07	10.41	9.99	9.88	9.59	3.1
Indiana						
Btu	11,255	11,238	11,319	11,368	11,286	0.7
Sulfur	2.64	2.54	1.69	2.43	2.49	-2.1
Ash	8.93	9.04	9.48	9.24	9.08	1.8
Wisconsin						
Btu	13,375	-	13,375	13,375	13,375	s
Sulfur	0.78	-	0.78	0.78	0.78	s
Ash	7.65	-	7.65	7.65	7.65	s
West North Central						
Btu	10,290	11,126	10,380	10,483	10,450	0.3
Sulfur	1.94	2.49	1.79	1.95	1.87	4.5
Ash	8.55	8.36	8.41	8.15	8.87	-8.1
Iowa						
Btu	11,370	11,368	11,788	11,351	11,525	-1.5
Sulfur	2.90	2.72	2.71	2.71	2.59	4.7
Ash	8.59	8.67	8.27	8.62	8.54	1.0
Minnesota						
Btu	9,492	-	9,209	9,109	9,241	-1.4
Sulfur	0.35	-	0.42	0.29	0.39	-26.1
Ash	4.09	-	4.83	4.82	4.63	4.2
Missouri						
Btu	11,440	11,395	11,290	11,375	11,327	0.4
Sulfur	3.06	2.94	2.97	3.00	3.04	-1.5
Ash	7.97	8.46	8.57	8.15	8.62	-5.5
North Dakota						
Btu	8,658	8,958	8,716	8,799	8,623	2.0
Sulfur	0.52	0.40	0.56	0.49	0.56	-11.7
Ash	8.87	5.60	8.71	7.64	9.68	-21.1
South Atlantic						
Btu	13,177	13,358	12,913	13,012	12,966	0.3
Sulfur	1.38	1.85	1.65	1.70	1.66	1.8
Ash	7.32	7.10	9.18	8.60	9.13	-5.8
North Carolina						
Btu	13,091	13,313	12,805	12,879	12,879	s
Sulfur	1.57	2.08	1.99	1.92	1.97	-2.4
Ash	7.86	7.50	9.95	9.37	9.69	-3.3
Virginia						
Btu	13,425	13,573	13,208	13,548	13,223	2.5
Sulfur	0.84	0.73	0.73	0.77	0.77	-0.2
Ash	5.76	5.16	7.07	5.49	7.49	-26.8
East South Central						

Census division and state ¹	October - December 2019	July - September 2019	October - December 2018	Year to date		Percent change
				2019	2018	
Btu	12,837	-	13,509	12,990	13,567	-4.2
Sulfur	0.78	-	0.79	0.78	0.78	-0.6
Ash	4.68	-	6.29	6.11	4.62	32.3
Kentucky						
Btu	12,837	-	13,509	12,990	13,567	-4.2
Sulfur	0.78	-	0.79	0.78	0.78	-0.6
Ash	4.68	-	6.29	6.11	4.62	32.3
Mountain						
Btu	11,417	10,783	11,475	11,287	11,433	-1.3
Sulfur	0.45	0.39	0.45	0.44	0.44	-1.0
Ash	10.15	7.77	11.70	11.06	9.66	14.5
Montana						
Btu	10,590	10,590	-	10,590	11,021	-3.9
Sulfur	0.36	0.36	-	0.36	0.41	-12.6
Ash	6.50	6.50	-	6.50	7.63	-14.8
Wyoming						
Btu	11,602	11,452	11,475	11,451	11,594	-1.2
Sulfur	0.47	0.48	0.45	0.46	0.46	0.4
Ash	10.97	12.17	11.70	12.13	10.45	16.1
Pacific						
Btu	7,431	7,605	7,595	7,542	7,563	-0.3
Sulfur	0.17	0.17	0.14	0.16	0.15	8.7
Ash	7.95	8.07	6.50	7.58	6.68	13.5
Alaska						
Btu	7,431	7,605	7,595	7,542	7,563	-0.3
Sulfur	0.17	0.17	0.14	0.16	0.15	8.7
Ash	7.95	8.07	6.50	7.58	6.68	13.5
U.S. Total						
Btu	9,679	9,176	9,681	9,542	9,634	-1.0
Sulfur	1.19	1.11	1.09	1.14	1.16	-1.7
Ash	8.23	8.34	7.81	8.15	7.89	3.3

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.'