



Quarterly Coal Report October–December 2022

April 2023

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Contacts

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If you have general question about coal statistics, contact our customer inquiry line at 202-586-8800 or by [email](#).

Preface

We publish 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 contains U.S. coke production, consumption, stocks, imports, and exports data. The fourth-quarter 2022 QCR includes detailed quarterly coal data from October 2022 to December 2022 and aggregated quarterly historical coal data for 2016 through fourth-quarter 2022.

All data for 2021 and previous years are final. All data for 2022 are preliminary.

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Table ES-1. U.S. coal summary statistics, 2016 - 2022

(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
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	22,540	166,774	-
April - June	187,098	2,197	2,123	23,430	166,866	21,836	163,264	-
July - September	196,440	2,333	2,609	23,430	203,482	24,571	145,060	-
October - December	193,933	1,357	2,301	23,999	172,796	27,998	142,957	-
Total	774,609	7,803	9,951		716,856	96,945		4,596
2018								
January - March	187,743	1,367	2,996	24,736	168,149	27,528	130,682	-
April - June	180,829	1,546	2,122	22,997	156,607	30,538	125,809	-
July - September	194,731	1,439	2,695	22,537	194,219	29,602	105,478	-
October - December	192,863	1,602	2,618	21,692	169,131	28,575	108,104	-
Total	756,167	5,954	10,431		688,105	116,244		5,363
2019								
January - March	179,817	1,689	2,649	24,160	157,746	25,213	101,990	-
April - June	179,781	1,604	1,946	24,529	129,609	25,929	122,358	-
July - September	181,461	1,681	1,576	27,714	167,226	21,960	116,478	-
October - December	165,250	1,723	1,833	31,320	131,962	20,663	133,940	-
Total	706,309	6,697	8,003		586,543	93,765		5,238
2020								
January - March	149,198	1,339	1,862	30,829	109,626	19,911	150,413	-
April - June	116,218	1,127	1,392	29,510	96,336	14,848	155,189	-
July - September	135,881	1,345	1,825	25,537	148,290	15,260	133,018	-
October - December	134,137	1,326	1,801	23,640	122,441	19,048	136,182	-
Total	535,434	5,137	6,880		476,693	69,067		7,129
2021								
January - March	140,130	1,074	2,077	22,629	138,861	20,740	113,926	-
April - June	142,674	1,530	1,560	22,361	124,505	22,017	113,366	-
July - September	148,272	1,134	2,024	19,042	167,886	20,595	82,107	-
October - December	146,355	1,650	2,002	19,013	114,426	21,763	96,343	-
Total	577,431	5,388	7,663		545,679	85,115		4,154
2022								
January - March	148,992	1,322	1,777	20,953*	133,735	20,186	90,453	-
April - June	145,658	1,636	1,744	20,927*	117,902	23,001	91,472	-
July - September	154,270	1,970	1,902	17,515*	145,185	20,739	84,451	-
October - December	145,666	1,385	1,742	17,770*	115,816	20,839	94,255	-
Total	594,586	6,314	7,166		512,638	84,765		13,992
2021 January - December	577,431	5,388	7,663		545,679	85,115		-
2020 January - December	535,434	5,137	6,880		476,693	69,067		-

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, 2016 - 2022

(thousand short tons)

Year and quarter	Production	Imports	Producer and distributor stocks ¹	Consumption ²	Exports
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	2,951	234
July - September	3,411	5	465	3,087	278
October - December	3,386	25	558	2,860	458
Total	12,948	58		11,815	1,212
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	207
October - December	3,545	35	354	3,268	354
Total	13,806	117		12,976	1,151
2019					
January - March	3,170	6	331	3,008	190
April - June	3,348	40	401	3,097	222
July - September	3,214	30	408	2,995	242
October - December	3,137	40	440	2,832	313
Total	12,870	116		11,932	967
2020					
January - March	3,046	6	452	2,852	188
April - June	2,452	26	633	2,180	117
July - September	2,306	57	563	2,323	111
October - December	2,550	72	481	2,436	268
Total	10,353	162		9,791	683
2021					
January - March	3,101	16	489	2,856	253
April - June	3,205	31	469	2,669	587
July - September	3,105	20	292	2,727	575
October - December	3,134	50	352	2,457	668
Total	12,545	117		10,708	2,083
2022					
January - March	2,881	8	419	2,297	526
April - June	2,838	24	310	2,206	765
July - September	2,843	13	303	2,327	535
October - December	2,832	22	301	2,351	506
Total	11,394	67		9,181	2,332
2021 January - December	12,545	117		10,708	2,083
2020 January - December	10,353	162		9,791	683

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, 2016 - 2022
(thousand short tons)

This table is suspended due to no coal refining activity during the current reporting period.

Production

Table 1. U.S. coal production, 2016 - 2022

(thousand short tons)

Year	January - March	April - June	July - September	October - December	Total
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	179,817	179,781	181,461	165,250	706,309
2020	149,198	116,218	135,881	134,137	535,434
2021	140,130	142,674	148,272	146,355	577,431
2022	148,992	145,658	154,270	145,666	594,586

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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Alabama	2,566	2,774	1,975	10,408	9,444	10.2
Alaska	294	237	273	1,014	1,042	-2.7
Colorado	2,961	3,456	3,484	12,782	11,875	7.6
Illinois	8,907	9,184	7,798	38,280	36,614	4.6
Indiana	6,332	6,046	4,959	23,512	19,470	20.8
Kentucky Total	7,098	7,092	6,917	28,450	26,426	7.7
Eastern (Kentucky)	3,071	2,986	2,798	12,020	10,130	18.7
Western (Kentucky)	4,027	4,106	4,119	16,430	16,296	0.8
Louisiana	81	81	74	307	300	2.3
Maryland	319	356	296	1,353	1,263	7.1
Mississippi	764	914	703	3,369	3,201	5.2
Missouri	24	14	7	74	44	66.5
Montana	6,503	7,427	7,454	28,233	28,580	-1.2
New Mexico	2,292	2,969	2,840	10,550	9,265	13.9
North Dakota	6,093	7,440	6,222	26,731	26,513	0.8
Ohio	571	574	741	2,492	2,759	-9.7
Oklahoma	s	1	s	2	1	245.1
Pennsylvania Total	10,283	9,253	10,005	39,773	42,354	-6.1
Anthracite (Pennsylvania)	658	614	610	2,485	2,043	21.7
Bituminous (Pennsylvania)	9,626	8,639	9,394	37,288	40,311	-7.5
Tennessee	-	-	-	s	-	-
Texas	4,455	4,369	4,838	17,084	17,250	-1.0
Utah	2,158	2,926	3,075	10,723	12,434	-13.8
Virginia	2,745	2,857	2,692	10,746	10,741	s
West Virginia Total	20,488	21,107	19,886	83,444	78,451	6.4
Northern (West Virginia)	11,547	12,155	11,631	46,971	44,460	5.6
Southern (West Virginia)	8,941	8,952	8,256	36,474	33,990	7.3
Wyoming	60,587	65,042	61,943	244,860	238,773	2.5
Appalachia Total	40,044	39,907	38,392	160,237	155,141	3.3
Appalachia Central	14,757	14,795	13,745	59,240	54,861	8.0
Appalachia Northern	22,721	22,338	22,672	90,589	90,836	-0.3
Appalachia Southern	2,566	2,774	1,975	10,408	9,444	10.2
Interior Region Total	24,589	24,716	22,498	99,056	93,176	6.3
Illinois Basin	19,265	19,335	16,876	78,222	72,380	8.1
Interior	5,324	5,380	5,622	20,834	20,796	0.2
Western Region Total	80,888	89,497	85,291	334,894	328,481	2.0
Powder River Basin	63,735	68,704	65,457	258,486	251,324	2.8
Uinta Region	4,851	6,130	6,280	22,453	23,298	-3.6
Western	12,302	14,663	13,553	53,954	53,860	0.2
East of Mississippi River	60,073	60,156	55,972	241,827	230,722	4.8
West of Mississippi River	85,448	93,963	90,210	352,360	346,076	1.8
U.S. Subtotal	145,521	154,119	146,181	594,187	576,799	3.0
Refuse recovery	144	151	174	399	633	-37.0
U.S. Total	145,666	154,270	146,355	594,586	577,431	3.0

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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic	977	957	1,076	3,934	4,013	-2.0
East North Central	1,687	1,710	1,753	6,651	7,262	-8.4
South Atlantic	150	161	286	737	1,235	-40.3
East South Central	122	135	147	547	645	-15.2
U.S. Total	2,936	2,963	3,263	11,868	13,155	-9.8
Coke Total	2,832	2,843	3,134	11,394	12,545	-9.2
Breeze Total	104	120	129	474	610	-22.3

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.'

Exports and imports

Table 4. U.S. coal exports and imports, 2016 - 2022

(thousand short tons)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
2016	14,153	2,698	14,223	2,292	12,552	2,733	19,343	2,124	60,271	9,846
2017	22,540	1,915	21,836	2,197	24,571	2,333	27,998	1,357	96,945	7,803
2018	27,528	1,367	30,538	1,546	29,602	1,439	28,575	1,602	116,244	5,954
2019	25,213	1,689	25,929	1,604	21,960	1,681	20,663	1,723	93,765	6,697
2020	19,911	1,339	14,848	1,127	15,260	1,345	19,048	1,326	69,067	5,137
2021	20,740	1,074	22,017	1,530	20,595	1,134	21,763	1,650	85,115	5,388
2022	20,186	1,322	23,001	1,636	20,739	1,970	20,839	1,385	84,765	6,314

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, 2016 - 2022

(dollars per short ton)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
2016	61.41	63.97	65.79	66.30	67.24	62.70	92.57	71.32	73.66	65.75
2017	112.14	74.81	111.24	79.43	99.17	79.43	89.43	86.54	102.09	79.53
2018	106.94	71.87	103.75	82.95	99.48	91.02	108.69	83.08	104.63	82.39
2019	110.18	78.43	112.21	84.78	103.09	81.65	93.22	75.66	105.34	80.04
2020	90.15	69.46	90.61	74.92	88.83	72.17	83.35	71.10	88.08	71.79
2021	88.81	71.56	93.80	81.99	115.84	95.84	159.38	110.28	114.69	91.49
2022	184.49	86.50	231.68	103.54	205.71	134.59	189.72	141.72	203.77	118.04

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, 2016 - 2022

(short tons and dollars per short ton)

Year and quarter	Australia	Canada	Colombia	Indonesia	China	Venezuela	Other countries	Total
2016	121,967	1,078,480	7,890,800	613,944	6,955	-	134,212	9,846,358
2017	700	891,734	6,112,092	699,453	6,474	46	92,153	7,802,652
2018	-	770,364	4,060,581	915,188	28,624	-	179,398	5,954,155
2019	-	817,190	5,033,032	655,398	54,715	-	136,802	6,697,137
2020	-	448,719	3,655,196	639,982	109,814	-	283,659	5,137,370
2021								
January - March	-	150,434	765,421	114,247	16,447	-	27,217	1,073,766
April - June	-	333,011	904,314	108,013	26,336	-	158,690	1,530,364
July - September	-	287,273	573,514	116,569	26,033	-	130,534	1,133,923
October - December	-	263,514	1,123,637	155,339	47,927	-	59,878	1,650,295
U.S. Total	-	1,034,232	3,366,886	494,168	116,743	-	376,319	5,388,348
2022								
January - March	-	333,641	895,327	61,968	30,302	-	426	1,321,664
April - June	-	546,184	972,409	58,575	58,977	-	-	1,636,145
July - September	-	562,730	1,273,513	17,011	72,767	-	44,285	1,970,306
October - December	-	330,128	902,518	-	57,066	-	95,680	1,385,392
U.S. Total	-	1,772,683	4,043,767	137,554	219,112	-	140,391	6,313,507

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

2016	47.66	77.40	65.10	52.17	126.99	-	85.65	65.75
2017	74.89	189.83	64.39	64.11	97.33	103.33	132.12	79.53
2018	-	191.25	61.39	75.42	132.01	-	117.88	82.39
2019	-	184.33	62.77	67.10	96.13	-	148.37	80.04
2020	-	129.46	60.54	74.23	84.43	-	115.10	71.79
2021								
January - March	-	114.46	60.06	64.77	187.53	-	116.19	71.56
April - June	-	120.97	60.79	64.77	141.15	-	122.84	81.99
July - September	-	141.72	70.43	64.77	134.56	-	126.54	95.84
October - December	-	246.21	81.33	67.93	107.28	-	167.44	110.28
U.S. Total	-	157.70	69.12	65.76	132.31	-	130.74	91.49
2022								
January - March	-	113.78	75.51	64.77	155.04	-	95.94	86.50
April - June	-	141.45	85.52	64.77	88.02	-	-	103.54
July - September	-	146.66	121.59	237.02	115.14	-	347.71	134.59
October - December	-	213.69	101.51	-	102.90	-	295.89	141.72
U.S. Total	-	151.35	98.23	86.07	110.17	-	311.63	118.04

- = 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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	1,841,792	1,654,573	1,957,607	6,204,408	7,754,578	-20.0
Canada*	1,420,682	1,249,544	1,530,966	4,256,659	4,586,777	-7.2
Dominican Republic	246,349	68,678	60,889	605,813	1,493,763	-59.4
Guatemala	36,444	133,140	114,978	470,455	613,432	-23.3
Honduras	55,116	93,718	58,457	245,836	190,692	28.9
Jamaica	-	20	36,375	71,748	106,223	-32.5
Mexico	83,091	41,568	155,617	410,384	617,109	-33.5
Panama	-	-	106	14,710	67,953	-78.4
Trinidad and Tobago	33	67,905	22	128,615	58,008	121.7
Other**	77	-	197	188	20,621	-99.1
South America Total	1,493,190	2,249,102	1,822,447	7,674,597	7,398,433	3.7
Argentina	12	82,812	18,872	296,695	110,943	167.4
Brazil	1,492,597	1,938,803	1,300,294	6,502,615	6,252,053	4.0
Chile	107	184,783	466,611	610,617	805,244	-24.2
Ecuador	-	42,484	36,382	119,199	73,041	63.2
Peru	-	43	127	144,633	100,212	44.3
Uruguay	-	85	-	85	56,630	-99.8
Other**	474	92	161	753	310	142.9
Europe Total	9,128,603	8,683,426	6,358,578	33,048,787	22,340,638	47.9
Austria	192,278	296,767	371,556	1,119,392	1,296,827	-13.7
Belgium	183,913	209,686	148,878	638,603	286,401	123.0
Croatia	187,035	241,877	272,470	1,400,518	1,162,150	20.5
Denmark (Except Greenland)	-	-	-	110,839	62,595	77.1
Finland	237,263	329,004	193,874	869,762	658,690	32.0
France	754,161	413,386	201,693	1,816,558	760,936	138.7
Germany, Federal Republic of	1,423,822	1,016,500	514,596	4,117,383	2,019,161	103.9
Italy	312,873	332,347	217,279	1,431,915	1,060,474	35.0
Netherlands	3,772,326	2,926,346	2,123,524	11,842,896	7,322,459	61.7
Poland	697,796	777,437	338,601	2,509,350	1,161,547	116.0
Romania	40,273	4	44,150	354,709	159,733	122.1
Slovakia	-	-	-	62,233	55,336	12.5
Spain	251,344	291,683	228,752	1,114,248	685,764	62.5
Sweden	177,440	265,422	81,651	584,611	474,670	23.2
Switzerland	-	-	-	-	87,510	-
Turkey	242,665	841,497	251,887	1,832,319	906,424	102.1
Ukraine	-	-	904,285	422,859	2,622,595	-83.9
United Kingdom	591,828	648,029	465,347	2,532,822	1,515,406	67.1
Other**	63,586	93,441	35	287,770	41,960	NM
Asia Total	7,573,071	6,816,707	10,546,805	32,255,110	42,174,836	-23.5
China	468,457	780,952	3,077,545	2,906,032	12,446,808	-76.7
Hong Kong	74	-	-	74	80,061	-99.9
India	3,903,722	3,011,043	3,121,165	15,458,519	15,291,914	1.1
Japan	2,258,373	1,604,277	2,831,030	8,244,071	7,563,602	9.0
Jordan	-	-	22	-	63,970	-
Pakistan	-	64,485	120,545	64,506	247,992	-74.0
South Korea (Republic of Korea)	837,346	1,351,341	1,394,356	5,226,136	6,376,627	-18.0
Other**	105,099	4,609	2,142	355,772	103,862	242.5
Australia and Oceania Total	-	-	353	591	840	-29.6
Other**	-	-	353	591	840	-29.6
Africa Total	802,743	1,334,784	1,077,579	5,581,657	5,446,033	2.5
Egypt	629,277	642,556	306,853	2,962,607	2,683,291	10.4
Ghana	-	-	-	-	84,436	-
Kenya	-	-	-	-	162,384	-

Continent and country of destination	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Morocco	146,683	630,939	741,035	2,330,044	2,136,328	9.1
South Africa	26,738	61,289	29,621	241,427	211,030	14.4
Togo	-	-	-	47,516	99,642	-52.3
Other**	45	-	70	63	68,922	-99.9
Total	20,839,399	20,738,592	21,763,369	84,765,150	85,115,358	-0.4

* 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 2021.

- = 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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	178.27	170.08	92.97	162.42	88.35	83.8
Canada*	187.27	170.24	92.30	163.79	94.16	73.9
Dominican Republic	151.20	183.36	106.97	176.05	58.82	199.3
Guatemala	287.76	211.83	125.13	179.22	106.64	68.1
Honduras	90.72	80.48	72.58	85.48	66.28	29.0
Jamaica	-	318.45	90.72	68.48	75.44	-9.2
Mexico	114.18	123.26	78.47	146.45	105.81	38.4
Panama	-	-	67.92	77.39	100.38	-22.9
Trinidad and Tobago	496.36	224.13	498.82	251.22	96.04	161.6
Other**	427.77	-	50.96	470.35	75.12	NM
South America Total	222.14	228.23	184.82	236.21	126.93	86.1
Argentina	582.83	199.49	168.43	185.04	84.66	118.6
Brazil	221.91	221.25	229.20	246.52	135.18	82.4
Chile	472.74	354.72	73.17	222.85	68.49	225.4
Ecuador	-	51.65	33.89	50.04	236.80	-78.9
Peru	-	296.67	1,607.10	84.97	86.53	-1.8
Uruguay	-	540.00	-	540.00	58.32	NM
Other**	872.14	425.27	259.82	688.53	425.33	61.9
Europe Total	207.40	228.07	192.51	230.81	136.83	68.7
Austria	232.02	233.72	193.12	312.42	132.09	136.5
Belgium	187.11	242.13	199.28	214.50	168.12	27.6
Croatia	201.60	285.35	308.01	277.22	190.34	45.6
Denmark (Except Greenland)	-	-	-	216.16	190.82	13.3
Finland	233.19	276.27	202.30	290.96	142.92	103.6
France	160.28	228.89	255.31	242.65	154.40	57.2
Germany, Federal Republic of	198.07	188.71	138.62	207.50	101.49	104.5
Italy	268.92	302.76	328.52	311.51	171.99	81.1
Netherlands	199.09	199.08	144.14	201.64	106.29	89.7
Poland	234.38	202.38	256.63	242.49	164.96	47.0
Romania	259.06	897.50	276.52	206.05	161.95	27.2
Slovakia	-	-	-	329.56	115.00	186.6
Spain	257.96	254.95	179.91	245.34	148.21	65.5
Sweden	226.52	399.60	167.72	322.70	141.04	128.8
Switzerland	-	-	-	-	108.86	-
Turkey	211.95	259.43	222.64	259.43	162.10	60.0
Ukraine	-	-	245.67	324.98	182.84	77.7
United Kingdom	227.78	222.54	144.02	190.59	126.64	50.5
Other**	281.78	325.82	644.11	302.64	158.66	90.7
Asia Total	166.88	190.97	155.53	190.84	111.34	71.4
China	178.25	218.98	268.41	280.36	188.54	48.7
Hong Kong	375.00	-	-	375.00	222.26	68.7
India	162.20	206.31	140.08	207.72	84.85	144.8
Japan	162.19	188.06	100.98	169.46	91.35	85.5
Jordan	-	-	247.27	-	90.75	-
Pakistan	-	136.08	62.43	136.23	60.68	124.5
South Korea (Republic of Korea)	182.72	146.73	59.52	119.71	48.76	145.5
Other**	263.97	175.84	313.54	275.94	103.84	165.7
Australia and Oceania Total	-	-	300.41	312.18	319.52	-2.3
Other**	-	-	300.41	312.18	319.52	-2.3
Africa Total	170.13	141.75	79.20	119.81	70.65	69.6
Egypt	186.23	195.04	72.37	135.34	63.91	111.8
Ghana	-	-	-	-	63.50	-
Kenya	-	-	-	-	59.05	-

Continent and country of destination	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Morocco	72.57	77.00	70.57	77.09	70.35	9.6
South Africa	326.49	249.60	365.39	321.22	178.37	80.1
Togo	-	-	-	222.26	63.50	250.0
Other**	222.22	-	241.01	446.19	58.65	NM
Total	189.72	205.71	159.38	203.77	114.69	77.7

* 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 2021.

- = No data reported.

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

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

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

Table 9. U.S. steam coal exports

(short tons)

Continent and country of destination	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	770,303	626,812	854,111	2,849,944	3,974,772	-28.3
Canada*	451,662	353,110	472,867	1,350,589	1,111,424	21.5
Dominican Republic	180,567	68,678	60,848	502,552	1,493,722	-66.4
Guatemala	70	70,090	100,258	371,031	598,712	-38.0
Honduras	55,116	93,718	58,457	245,836	190,692	28.9
Jamaica	-	20	36,375	71,748	106,223	-32.5
Mexico	82,778	41,030	124,981	293,041	385,502	-24.0
Panama	-	-	106	14,710	67,745	-78.3
Trinidad and Tobago	33	166	22	249	131	90.1
Other**	77	-	197	188	20,621	-99.1
South America Total	3,054	550,410	674,848	1,469,105	1,670,493	-12.1
Argentina	12	37,604	22	37,702	202	NM
Brazil	2,461	285,319	171,545	556,116	690,815	-19.5
Chile	107	184,783	466,611	610,617	749,283	-18.5
Ecuador	-	42,484	36,382	119,199	73,041	63.2
Peru	-	43	127	144,633	100,212	44.3
Uruguay	-	85	-	85	56,630	-99.8
Other**	474	92	161	753	310	142.9
Europe Total	4,481,190	3,433,736	2,094,912	13,539,002	6,412,730	111.1
Belgium	55,759	11,078	-	103,213	22,093	367.2
Croatia	40,033	5,512	-	243,233	-	-
Denmark (Except Greenland)	-	-	-	110,839	62,595	77.1
Finland	50,564	23,038	-	73,602	122	NM
France	478,406	31,472	-	521,281	86,272	NM
Germany, Federal Republic of	876,582	589,993	174,430	2,540,522	910,224	179.1
Italy	63	42	10,726	213	109,488	-99.8
Netherlands	2,053,138	1,773,754	1,245,992	6,386,195	3,970,670	60.8
Poland	336,311	320,526	-	974,477	177,778	448.1
Romania	-	4	-	160,601	42,439	278.4
Spain	159,803	86,964	70,895	394,236	142,174	177.3
Sweden	-	30,801	-	30,801	-	-
Turkey	71,650	141,198	86,602	332,449	86,934	282.4
Ukraine	-	-	245,754	-	245,809	-
United Kingdom	338,990	410,490	260,478	1,600,780	555,588	188.1
Other**	19,891	8,864	35	66,560	544	NM
Asia Total	3,500,576	3,343,004	5,405,531	15,520,778	22,851,255	-32.1
China	61,229	172,597	138,104	234,031	1,018,865	-77.0
Hong Kong	74	-	-	74	-	-
India	1,904,377	1,142,253	2,103,830	7,018,366	11,726,129	-40.1
Japan	997,375	990,762	1,768,668	4,173,789	4,221,948	-1.1
Jordan	-	-	22	-	63,970	-
Pakistan	-	64,485	120,545	64,506	247,992	-74.0
South Korea (Republic of Korea)	535,488	968,298	1,272,220	3,946,328	5,468,489	-27.8
Other**	2,033	4,609	2,142	83,684	103,862	-19.4
Australia and Oceania Total	-	-	323	591	810	-27.0
Other**	-	-	323	591	810	-27.0
Africa Total	802,743	1,196,599	1,047,987	4,974,914	5,235,053	-5.0
Egypt	629,277	565,380	306,853	2,570,262	2,683,291	-4.2
Ghana	-	-	-	-	84,436	-
Kenya	-	-	-	-	162,384	-
Morocco	146,683	630,939	741,035	2,330,044	2,136,328	9.1
South Africa	26,738	280	29	27,029	50	NM
Togo	-	-	-	47,516	99,642	-52.3

Continent and country of destination	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Other**	45	-	70	63	68,922	-99.9
Total	9,557,866	9,150,561	10,077,712	38,354,334	40,145,113	-4.5

* 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 2021.

- = 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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	144.24	125.12	83.59	129.88	76.38	70.0
Canada*	152.02	112.90	78.02	121.30	77.83	55.9
Dominican Republic	154.67	183.36	106.95	183.80	58.82	212.5
Guatemala	481.43	190.04	128.05	158.95	106.68	49.0
Honduras	90.72	80.48	72.58	85.48	66.28	29.0
Jamaica	-	318.45	90.72	68.48	75.44	-9.2
Mexico	113.95	122.47	60.67	94.58	94.21	0.4
Panama	-	-	67.92	77.39	100.30	-22.8
Trinidad and Tobago	496.36	431.30	498.82	451.57	441.93	2.2
Other**	427.77	-	50.96	470.35	75.12	NM
South America Total	368.54	212.82	76.43	156.69	85.66	82.9
Argentina	582.83	249.48	297.82	249.78	325.10	-23.2
Brazil	265.97	139.92	92.99	118.48	90.08	31.5
Chile	472.74	354.72	73.17	222.85	68.59	224.9
Ecuador	-	51.65	33.89	50.04	236.80	-78.9
Peru	-	296.67	1,607.10	84.97	86.53	-1.8
Uruguay	-	540.00	-	540.00	58.32	NM
Other**	872.14	425.27	259.82	688.53	425.33	61.9
Europe Total	162.84	162.16	72.65	133.62	71.73	86.3
Belgium	65.60	226.80	-	119.56	152.06	-21.4
Croatia	63.83	181.42	-	73.35	-	-
Denmark (Except Greenland)	-	-	-	216.16	190.82	13.3
Finland	245.10	280.32	-	256.12	170.22	50.5
France	137.88	226.80	-	146.30	63.50	130.4
Germany, Federal Republic of	177.86	159.63	67.64	151.12	67.54	123.7
Italy	682.67	640.62	142.55	547.87	88.04	NM
Netherlands	154.01	153.30	75.03	124.39	68.08	82.7
Poland	177.78	126.88	-	133.04	80.28	65.7
Romania	-	897.50	-	54.16	63.50	-14.7
Spain	241.15	249.80	59.04	188.87	70.35	168.5
Sweden	-	219.49	-	219.49	-	-
Turkey	90.72	209.02	90.72	147.91	92.44	60.0
Ukraine	-	-	47.45	-	47.51	-
United Kingdom	188.90	177.26	83.10	126.70	91.46	38.5
Other**	208.41	242.42	644.11	148.22	469.74	-68.4
Asia Total	97.47	101.70	62.10	83.56	58.83	42.0
China	68.87	89.86	168.23	84.71	109.39	-22.6
Hong Kong	375.00	-	-	375.00	-	-
India	104.60	143.78	73.53	103.60	63.94	62.0
Japan	61.14	112.20	58.29	77.39	62.56	23.7
Jordan	-	-	247.27	-	90.75	-
Pakistan	-	136.08	62.43	136.23	60.68	124.5
South Korea (Republic of Korea)	142.17	40.79	36.52	53.33	34.29	55.5
Other**	308.77	175.84	313.54	91.11	103.84	-12.3
Australia and Oceania Total	-	-	316.60	312.18	326.69	-4.4
Other**	-	-	316.60	312.18	326.69	-4.4
Africa Total	170.13	136.71	71.18	110.51	66.33	66.6
Egypt	186.23	203.24	72.37	136.46	63.91	113.5
Ghana	-	-	-	-	63.50	-
Kenya	-	-	-	-	59.05	-
Morocco	72.57	77.00	70.57	77.09	70.35	9.6
South Africa	326.49	317.20	2,714.10	326.49	3,081.24	-89.4
Togo	-	-	-	222.26	63.50	250.0

Continent and country of destination	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Other**	222.22	-	241.01	446.19	58.65	NM
Total	138.08	137.25	68.03	110.97	64.73	71.4

* 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 2021.

- = No data reported.

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

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

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

Table 11. U.S. metallurgical coal exports

(short tons)

Continent and country of destination	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	1,071,489	1,027,761	1,103,496	3,354,464	3,779,806	-11.3
Canada*	969,020	896,434	1,058,099	2,906,070	3,475,353	-16.4
Dominican Republic	65,782	-	41	103,261	41	NM
Guatemala	36,374	63,050	14,720	99,424	14,720	NM
Mexico	313	538	30,636	117,343	231,607	-49.3
Panama	-	-	-	-	208	-
Trinidad and Tobago	-	67,739	-	128,366	57,877	121.8
South America Total	1,490,136	1,698,692	1,147,599	6,205,492	5,727,940	8.3
Argentina	-	45,208	18,850	258,993	110,741	133.9
Brazil	1,490,136	1,653,484	1,128,749	5,946,499	5,561,238	6.9
Chile	-	-	-	-	55,961	-
Europe Total	4,647,413	5,249,690	4,263,666	19,509,785	15,927,908	22.5
Austria	192,278	296,767	371,556	1,119,392	1,296,827	-13.7
Belgium	128,154	198,608	148,878	535,390	264,308	102.6
Croatia	147,002	236,365	272,470	1,157,285	1,162,150	-0.4
Finland	186,699	305,966	193,874	796,160	658,568	20.9
France	275,755	381,914	201,693	1,295,277	674,664	92.0
Germany, Federal Republic of	547,240	426,507	340,166	1,576,861	1,108,937	42.2
Italy	312,810	332,305	206,553	1,431,702	950,986	50.5
Netherlands	1,719,188	1,152,592	877,532	5,456,701	3,351,789	62.8
Poland	361,485	456,911	338,601	1,534,873	983,769	56.0
Romania	40,273	-	44,150	194,108	117,294	65.5
Slovakia	-	-	-	62,233	55,336	12.5
Spain	91,541	204,719	157,857	720,012	543,590	32.5
Sweden	177,440	234,621	81,651	553,810	474,670	16.7
Switzerland	-	-	-	-	87,510	-
Turkey	171,015	700,299	165,285	1,499,870	819,490	83.0
Ukraine	-	-	658,531	422,859	2,376,786	-82.2
United Kingdom	252,838	237,539	204,869	932,042	959,818	-2.9
Other**	43,695	84,577	-	221,210	41,416	434.1
Asia Total	4,072,495	3,473,703	5,141,274	16,734,332	19,323,581	-13.4
China	407,228	608,355	2,939,441	2,672,001	11,427,943	-76.6
Hong Kong	-	-	-	-	80,061	-
India	1,999,345	1,868,790	1,017,335	8,440,153	3,565,785	136.7
Japan	1,260,998	613,515	1,062,362	4,070,282	3,341,654	21.8
South Korea (Republic of Korea)	301,858	383,043	122,136	1,279,808	908,138	40.9
Other**	103,066	-	-	272,088	-	-
Australia and Oceania Total	-	-	30	-	30	-
Other**	-	-	30	-	30	-
Africa Total	-	138,185	29,592	606,743	210,980	187.6
Egypt	-	77,176	-	392,345	-	-
South Africa	-	61,009	29,592	214,398	210,980	1.6
Total	11,281,533	11,588,031	11,685,657	46,410,816	44,970,245	3.2

* 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 2021.

- = 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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	202.73	197.50	100.23	190.07	100.93	88.3
Canada*	203.71	192.82	98.69	183.54	99.39	84.7
Dominican Republic	141.69	-	128.32	138.34	128.32	7.8
Guatemala	287.39	236.06	105.24	254.84	105.24	142.2
Mexico	172.63	183.36	151.11	275.97	125.13	120.5
Panama	-	-	-	-	128.70	-
Trinidad and Tobago	-	223.62	-	250.83	95.25	163.3
South America Total	221.84	233.22	248.56	255.04	138.97	83.5
Argentina	-	157.90	168.28	175.62	84.22	108.5
Brazil	221.84	235.28	249.90	258.49	140.78	83.6
Chile	-	-	-	-	67.13	-
Europe Total	250.36	271.18	251.40	298.25	163.04	82.9
Austria	232.02	233.72	193.12	312.42	132.09	136.5
Belgium	239.98	242.99	199.28	232.80	169.47	37.4
Croatia	239.12	287.77	308.01	320.06	190.34	68.2
Finland	229.97	275.97	202.30	294.18	142.92	105.8
France	199.14	229.06	255.31	281.43	166.02	69.5
Germany, Federal Republic of	230.44	228.94	175.01	298.34	129.35	130.6
Italy	268.83	302.72	338.18	311.48	181.66	71.5
Netherlands	252.92	269.52	242.25	292.04	151.56	92.7
Poland	287.04	255.33	256.63	311.98	180.26	73.1
Romania	259.06	-	276.52	331.72	197.58	67.9
Slovakia	-	-	-	329.56	115.00	186.6
Spain	287.31	257.14	234.20	276.26	168.57	63.9
Sweden	226.52	423.24	167.72	328.44	141.04	132.9
Switzerland	-	-	-	-	108.86	-
Turkey	262.74	269.59	291.77	284.15	169.49	67.7
Ukraine	-	-	319.65	324.98	196.84	65.1
United Kingdom	279.90	300.79	221.47	300.33	147.00	104.3
Other**	315.18	334.56	-	349.10	154.57	125.9
Asia Total	226.54	276.88	253.76	290.34	173.42	67.4
China	194.70	255.62	273.12	297.49	195.59	52.1
Hong Kong	-	-	-	-	222.26	-
India	217.07	244.53	277.70	294.31	153.64	91.6
Japan	242.11	310.57	172.05	263.88	127.71	106.6
South Korea (Republic of Korea)	254.66	414.53	299.06	324.41	135.93	138.7
Other**	263.08	-	-	332.79	-	-
Australia and Oceania Total	-	-	126.00	-	126.00	-
Other**	-	-	126.00	-	126.00	-
Africa Total	-	185.42	363.09	196.06	177.68	10.3
Egypt	-	134.93	-	128.02	-	-
South Africa	-	249.29	363.09	320.56	177.68	80.4
Total	233.47	259.77	238.17	280.47	159.28	76.1

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

** Includes countries with coal exports less than or equal to 50,000 short tons in 2021.

- = No data reported.

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

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

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

(short tons)

Customs district	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Eastern Total	14,002,405	12,302,101	12,793,532	53,085,811	52,393,263	1.3
Baltimore, MD	5,281,323	3,373,225	4,450,354	18,445,631	19,959,704	-7.6
Boston, MA	-	-	-	-	53,537	-
Buffalo, NY	720,079	555,904	646,319	1,902,266	2,223,420	-14.4
New York City, NY	1,641	3,717	3,400	9,682	9,094	6.5
Norfolk, VA	7,853,587	8,246,956	7,642,267	32,175,671	29,813,538	7.9
Ogdensburg, NY	38,794	62,626	42,160	292,402	164,551	77.7
Philadelphia, PA	106,981	59,502	8,844	259,702	168,880	53.8
Portland, ME	-	-	28	72	82	-12.2
St. Albans, VT	-	171	160	385	457	-15.8
Southern Total	5,287,678	6,282,854	5,350,695	22,813,479	21,329,119	7.0
Charleston, SC	-	-	17	1	113	-99.1
Dallas/Fort Worth, TX	-	-	6	-	6	-
El Paso, TX	36,707	38,580	58,472	133,290	179,888	-25.9
Houston-Galveston, TX	171,445	258,129	314,912	980,546	754,387	30.0
Laredo, TX	1,523	2,974	43,582	73,247	51,543	42.1
Miami, FL	32	66	215	362	331	9.4
Mobile, AL	2,277,212	2,654,430	2,171,999	9,540,245	9,056,578	5.3
New Orleans, LA	2,800,483	3,328,591	2,761,471	12,083,455	11,286,048	7.1
San Juan, PR	-	-	-	3	-	-
Savannah, GA	69	84	21	535	214	150.0
Tampa, FL	207	-	-	1,795	-	-
Wilmington, NC	-	-	-	-	11	-
Western Total	1,205,623	1,654,897	3,104,126	7,560,271	9,976,343	-24.2
Anchorage, AK	74	-	-	74	-	-
Great Falls, MT	34,211	21	350	34,729	3,771	NM
Honolulu, HI	-	-	-	41	-	-
Los Angeles, CA	208,269	345,267	366,014	1,136,618	1,055,390	7.7
Nogales, AZ	9,839	10	23,196	16,652	57,437	-71.0
Portland, OR	-	89,477	-	89,477	-	-
San Diego, CA	50	4	53	130	125	4.0
San Francisco, CA	357,445	254,635	782,664	1,624,002	2,354,812	-31.0
Seattle, WA	595,735	965,483	1,931,849	4,658,548	6,504,808	-28.4
Northern Total	334,343	496,327	511,568	1,288,773	1,406,785	-8.4
Chicago, IL	33,055	-	-	46,205	54	NM
Cleveland, OH	236,508	412,525	437,452	1,045,639	1,279,946	-18.3
Detroit, MI	35,986	16,702	6,819	90,027	44,506	102.3
Duluth, MN	-	-	-	131	18	NM
Minneapolis, MN	26,834	63,991	65,002	90,825	65,002	39.7
Pembina, ND	1,960	3,109	2,295	15,946	17,259	-7.6
Other Ports	9,350	2,413	3,448	16,816	9,848	70.8
Total	20,839,399	20,738,592	21,763,369	84,765,150	85,115,358	-0.4

- = No data reported.

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

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

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

Table 14. Steam coal exports by customs district

(short tons)

Customs district	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Eastern Total	4,929,562	3,322,571	3,341,770	15,524,406	16,617,993	-6.6
Baltimore, MD	3,227,654	1,900,677	2,686,462	10,432,434	13,218,981	-21.1
Boston, MA	-	-	-	-	53,537	-
Buffalo, NY	2,194	2,530	1,895	9,773	5,778	69.1
New York City, NY	1,641	3,717	3,400	9,682	9,094	6.5
Norfolk, VA	1,553,422	1,294,905	600,489	4,526,682	3,124,195	44.9
Ogdensburg, NY	37,670	61,111	40,618	285,886	157,044	82.0
Philadelphia, PA	106,981	59,502	8,844	259,702	49,224	427.6
Portland, ME	-	-	28	72	82	-12.2
St. Albans, VT	-	129	34	175	58	201.7
Southern Total	3,328,999	4,015,860	3,528,886	14,970,923	13,392,381	11.8
Charleston, SC	-	-	-	1	79	-98.7
Dallas/Fort Worth, TX	-	-	6	-	6	-
El Paso, TX	36,633	38,580	58,472	133,216	179,888	-25.9
Houston-Galveston, TX	135,071	195,079	300,192	881,122	683,706	28.9
Laredo, TX	1,284	2,440	43,260	71,700	49,538	44.7
Miami, FL	32	66	174	362	290	24.8
Mobile, AL	441,464	592,175	365,290	2,176,013	1,384,280	57.2
New Orleans, LA	2,714,239	3,187,436	2,761,471	11,706,193	11,094,369	5.5
San Juan, PR	-	-	-	3	-	-
Savannah, GA	69	84	21	518	214	142.1
Tampa, FL	207	-	-	1,795	-	-
Wilmington, NC	-	-	-	-	11	-
Western Total	1,205,623	1,654,893	3,104,047	7,560,245	9,967,911	-24.2
Anchorage, AK	74	-	-	74	-	-
Great Falls, MT	34,211	21	350	34,707	3,771	NM
Honolulu, HI	-	-	-	41	-	-
Los Angeles, CA	208,269	345,267	365,935	1,136,618	1,055,311	7.7
Nogales, AZ	9,839	10	23,196	16,652	49,084	-66.1
Portland, OR	-	89,477	-	89,477	-	-
San Diego, CA	50	-	53	126	125	0.8
San Francisco, CA	357,445	254,635	782,664	1,624,002	2,354,812	-31.0
Seattle, WA	595,735	965,483	1,931,849	4,658,548	6,504,808	-28.4
Northern Total	84,332	154,824	99,561	281,944	156,980	79.6
Chicago, IL	33,055	-	-	33,124	54	NM
Cleveland, OH	13,331	71,022	25,445	96,603	48,501	99.2
Detroit, MI	35,986	16,702	6,819	72,149	26,146	175.9
Duluth, MN	-	-	-	131	18	NM
Minneapolis, MN	-	63,991	65,002	63,991	65,002	-1.6
Pembina, ND	1,960	3,109	2,295	15,946	17,259	-7.6
Other Ports	9,350	2,413	3,448	16,816	9,848	70.8
Total	9,557,866	9,150,561	10,077,712	38,354,334	40,145,113	-4.5

- = No data reported.

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

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

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

Table 15. Metallurgical coal exports by customs district

(short tons)

Customs district	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Eastern Total	9,072,843	8,979,530	9,451,762	37,561,405	35,775,270	5.0
Baltimore, MD	2,053,669	1,472,548	1,763,892	8,013,197	6,740,723	18.9
Buffalo, NY	717,885	553,374	644,424	1,892,493	2,217,642	-14.7
Norfolk, VA	6,300,165	6,952,051	7,041,778	27,648,989	26,689,343	3.6
Ogdensburg, NY	1,124	1,515	1,542	6,516	7,507	-13.2
Philadelphia, PA	-	-	-	-	119,656	-
St. Albans, VT	-	42	126	210	399	-47.4
Southern Total	1,958,679	2,266,994	1,821,809	7,842,556	7,936,738	-1.2
Charleston, SC	-	-	17	-	34	-
El Paso, TX	74	-	-	74	-	-
Houston-Galveston, TX	36,374	63,050	14,720	99,424	70,681	40.7
Laredo, TX	239	534	322	1,547	2,005	-22.8
Miami, FL	-	-	41	-	41	-
Mobile, AL	1,835,748	2,062,255	1,806,709	7,364,232	7,672,298	-4.0
New Orleans, LA	86,244	141,155	-	377,262	191,679	96.8
Savannah, GA	-	-	-	17	-	-
Western Total	-	4	79	26	8,432	-99.7
Great Falls, MT	-	-	-	22	-	-
Los Angeles, CA	-	-	79	-	79	-
Nogales, AZ	-	-	-	-	8,353	-
San Diego, CA	-	4	-	4	-	-
Northern Total	250,011	341,503	412,007	1,006,829	1,249,805	-19.4
Chicago, IL	-	-	-	13,081	-	-
Cleveland, OH	223,177	341,503	412,007	949,036	1,231,445	-22.9
Detroit, MI	-	-	-	17,878	18,360	-2.6
Minneapolis, MN	26,834	-	-	26,834	-	-
Total	11,281,533	11,588,031	11,685,657	46,410,816	44,970,245	3.2

- = 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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	324,991	329,223	469,640	1,253,738	1,481,301	-15.4
Canada*	295,215	270,505	375,417	1,049,314	1,158,811	-9.4
Mexico	29,582	58,412	93,982	203,441	321,660	-36.8
Other**	194	306	241	983	830	18.4
South America Total	143,260	41,134	70,496	310,109	249,090	24.5
Brazil	143,239	41,117	70,476	309,944	213,346	45.3
Other**	21	17	20	165	35,744	-99.5
Europe Total	37,445	164,121	127,258	763,309	260,798	192.7
Netherlands	20,761	78,262	81,622	243,038	81,622	197.8
Other**	16,684	85,859	11,174	441,737	55,125	NM
United Kingdom	-	-	34,462	78,534	124,051	-36.7
Asia Total	11	813	255	4,235	1,055	301.4
Other**	11	813	255	4,235	1,055	301.4
Australia and Oceania Total	44	22	420	501	702	-28.6
Other**	44	22	420	501	702	-28.6
Africa Total	-	-	-	-	90,172	-
Other**	-	-	-	-	21,247	-
South Africa	-	-	-	-	68,925	-
Total	505,751	535,313	668,069	2,331,892	2,083,118	11.9

* 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 2021.

- = No data reported.

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

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

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

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

(dollars per short ton)

Continent and country of destination	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	389.18	386.13	283.61	372.73	280.08	33.1
Canada*	392.33	378.73	256.53	363.52	253.52	43.4
Mexico	356.45	419.04	390.95	418.94	374.88	11.8
Other**	591.26	649.06	618.51	634.54	627.87	1.1
South America Total	448.11	648.73	71.61	356.23	145.15	145.4
Brazil	448.07	648.64	71.45	356.12	158.72	124.4
Other**	747.62	857.82	639.85	550.79	64.13	NM
Europe Total	200.88	406.80	140.21	259.26	184.89	40.2
Netherlands	215.00	441.60	90.72	294.95	90.72	225.1
Other**	183.30	375.08	94.77	250.06	115.21	117.0
United Kingdom	-	-	272.15	200.51	277.83	-27.8
Asia Total	389.82	632.68	516.55	713.43	737.16	-3.2
Other**	389.82	632.68	516.55	713.43	737.16	-3.2
Australia and Oceania Total	216.36	216.36	494.15	288.44	484.77	-40.5
Other**	216.36	216.36	494.15	288.44	484.77	-40.5
Africa Total	-	-	-	-	280.46	-
Other**	-	-	-	-	90.72	-
South Africa	-	-	-	-	338.94	-
Total	391.92	413.01	234.15	333.99	252.35	32.4

* 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 2021.

- = 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 18. U.S. coal imports

(short tons)

Continent and country of origin	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	337,220	563,378	263,547	1,780,447	1,034,265	72.1
Canada	330,128	562,730	263,514	1,772,683	1,034,232	71.4
Mexico	7,092	648	33	7,764	33	NM
South America Total	933,203	1,273,513	1,123,637	4,074,452	3,366,893	21.0
Colombia	902,518	1,273,513	1,123,637	4,043,767	3,366,886	20.1
Peru	30,685	-	-	30,685	7	NM
Europe Total	57,903	16,355	59,845	74,660	339,903	-78.0
Belgium	36,927	-	-	36,927	-	-
France	-	-	-	402	-	-
Germany, Federal Republic of	-	-	424	-	1,326	-
Ireland	20,976	-	-	20,976	-	-
Russia	-	-	59,394	-	338,550	-
Spain	-	16,355	-	16,355	-	-
United Kingdom	-	-	27	-	27	-
Asia Total	57,066	89,778	203,266	356,666	610,911	-41.6
China	57,066	72,767	47,927	219,112	116,743	87.7
Indonesia	-	17,011	155,339	137,554	494,168	-72.2
Africa Total	-	27,282	-	27,282	36,376	-25.0
South Africa	-	27,282	-	27,282	36,376	-25.0
Total	1,385,392	1,970,306	1,650,295	6,313,507	5,388,348	17.2

- = No data reported.

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

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

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

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

(dollars per short ton)

Continent and country of origin	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	212.92	146.69	246.24	151.47	157.71	-4.0
Canada	213.69	146.66	246.21	151.35	157.70	-4.0
Mexico	177.17	178.54	465.85	178.12	465.85	-61.8
South America Total	105.55	121.59	81.33	99.18	69.12	43.5
Colombia	101.51	121.59	81.33	98.23	69.12	42.1
Peru	224.41	-	-	224.41	289.14	-22.4
Europe Total	348.32	533.41	167.27	387.39	132.52	192.3
Belgium	364.12	-	-	364.12	-	-
France	-	-	-	75.00	-	-
Germany, Federal Republic of	-	-	110.49	-	86.23	-
Ireland	320.50	-	-	320.50	-	-
Russia	-	-	167.57	-	132.68	-
Spain	-	533.41	-	533.41	-	-
United Kingdom	-	-	413.15	-	413.15	-
Asia Total	102.90	138.23	77.20	100.88	78.48	28.5
China	102.90	115.14	107.28	110.17	132.31	-16.7
Indonesia	-	237.02	67.93	86.07	65.76	30.9
Africa Total	-	240.41	-	240.41	113.78	111.3
South Africa	-	240.41	-	240.41	113.78	111.3
U.S. Total*	141.72	134.59	110.28	118.04	91.49	29.0

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

- = No data reported.

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

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

Table 20. Coal imports by customs district

(short tons)

Customs district	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Eastern Total	57	47,340	42,467	48,047	85,302	-43.7
Boston, MA	-	-	-	402	-	-
Buffalo, NY	36	-	15	263	390	-32.6
Ogdensburg, NY	-	-	13	-	13	-
Portland, ME	-	47,340	42,439	47,340	84,878	-44.2
St. Albans, VT	21	-	-	42	21	100.0
Southern Total	1,055,264	1,326,870	1,188,669	4,339,173	3,773,860	15.0
Charleston, SC	-	-	-	-	40,383	-
Houston-Galveston, TX	-	-	15,037	6,520	61,199	-89.3
Laredo, TX	7,092	648	33	7,764	40	NM
Miami, FL	-	202	117	244	1,798	-86.4
Mobile, AL	670,933	668,158	596,059	2,357,667	1,774,824	32.8
New Orleans, LA	124,678	72,565	68,507	279,960	215,650	29.8
San Juan, PR	177,243	517,543	434,244	1,430,309	1,382,886	3.4
Tampa, FL	75,318	67,754	74,672	256,709	297,080	-13.6
Western Total	185,230	488,203	282,735	1,535,112	1,073,862	43.0
Great Falls, MT	184,187	453,283	125,385	1,278,786	485,748	163.3
Honolulu, HI	-	33,366	155,339	252,993	559,237	-54.8
San Francisco, CA	-	-	-	-	31	-
Seattle, WA	1,043	1,554	2,011	3,333	28,846	-88.4
Northern Total	144,841	107,893	136,424	391,175	455,324	-14.1
Chicago, IL	-	-	-	30,355	63,655	-52.3
Cleveland, OH	-	-	328	9	1,080	-99.2
Detroit, MI	131,822	90,367	118,510	293,656	307,327	-4.4
Duluth, MN	528	440	502	2,204	3,694	-40.3
Pembina, ND	12,491	17,086	17,084	64,951	79,568	-18.4
Total	1,385,392	1,970,306	1,650,295	6,313,507	5,388,348	17.2

- = No data reported.

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

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

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

Table 21. U.S. coke imports

(short tons)

Continent and country of origin	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	537	8,927	27,869	11,145	56,838	-80.4
Canada	537	8,927	27,869	11,145	56,838	-80.4
Europe Total	17,357	-	15,138	34,784	39,337	-11.6
Czech Republic	17,349	-	15,138	34,713	38,592	-10.1
Germany, Federal Republic of	2	-	-	2	316	-99.4
Italy	-	-	-	-	375	-
Netherlands	-	-	-	21	28	-25.0
United Kingdom	6	-	-	48	26	84.6
Asia Total	1	989	1,122	1,941	3,002	-35.3
China	-	989	725	1,872	1,258	48.8
Hong Kong	-	-	29	-	102	-
India	-	-	44	68	132	-48.5
Japan	1	-	192	1	1,378	-99.9
Saudi Arabia	-	-	132	-	132	-
Africa Total	4,098	3,261	6,004	19,523	17,958	8.7
Mozambique	217	218	-	892	62	NM
South Africa	3,881	3,043	6,004	18,631	17,896	4.1
U.S. Total	21,993	13,177	50,133	67,393	117,135	-42.5

- = No data reported.

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

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

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

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

(dollars per short ton)

Continent and country of origin	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
North America Total	350.64	372.23	177.64	438.47	179.08	144.8
Canada	350.64	372.23	177.64	438.47	179.08	144.8
Europe Total	456.89	-	254.01	457.39	293.14	56.0
Czech Republic	456.41	-	254.01	456.40	290.70	57.0
Germany, Federal Republic of	1,360.50	-	-	1,360.50	559.28	143.3
Italy	-	-	-	-	270.32	-
Netherlands	-	-	-	416.19	379.46	9.7
United Kingdom	1,550.00	-	-	1,154.38	913.46	26.4
Asia Total	5,610.00	1,984.65	1,120.42	1,759.82	720.50	144.2
China	-	1,984.65	1,452.24	1,780.78	1,142.71	55.8
Hong Kong	-	-	1,117.10	-	1,170.47	-
India	-	-	1,083.41	1,126.19	791.74	42.2
Japan	5,610.00	-	297.34	5,610.00	315.27	NM
Saudi Arabia	-	-	508.23	-	508.23	-
Africa Total	604.75	551.13	492.39	516.24	419.96	22.9
Mozambique	448.92	403.93	-	406.67	354.74	14.6
South Africa	613.46	561.68	492.39	521.49	420.19	24.1
U.S. Total	482.08	537.53	259.50	508.82	268.19	89.7

- = No data reported.

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

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

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

Receipts and prices

Table 23. Coal receipts at coke plants by census division

(thousand short tons)

Census division	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic	1,308	1,284	1,375	5,475	5,370	2.0
East North Central	2,342	2,337	2,321	9,113	9,899	-7.9
South Atlantic	188	206	411	849	1,760	-51.7
East South Central	139	185	150	616	664	-7.3
U.S. Total	3,977	4,011	4,257	16,053	17,694	-9.3

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

(dollars per short ton)

Census division	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic	w	w	w	w	w	w
East North Central	214.02	209.54	147.85	211.51	134.54	57.2
South Atlantic	w	w	w	w	w	w
East South Central	w	w	w	w	w	w
U.S. Total	199.89	196.87	132.60	195.61	122.37	59.9

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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Coke						
Sales	3,428	3,360	1,720	10,101	6,956	45.2
Average Price	215.56	223.47	317.54	278.18	304.39	-8.6
Breeze						
Sales	232	170	118	664	433	53.3
Average Price	56.03	47.00	100.86	74.04	89.59	-17.4

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

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

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

(thousand short tons)

Census division and state	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic	178	180	181	720	693	3.9
New York	72	70	43	266	203	30.7
Pennsylvania	106	110	137	454	490	-7.3
East North Central	1,096	1,096	1,299	4,183	4,656	-10.2
Illinois	443	502	478	1,855	2,001	-7.3
Indiana	319	361	378	1,219	1,433	-14.9
Michigan	113	76	139	285	310	-8.1
Ohio	84	85	110	377	420	-10.4
Wisconsin	137	72	195	448	492	-9.0
West North Central	2,646	2,781	2,842	11,289	10,935	3.2
Iowa	553	625	419	2,329	2,048	13.7
Kansas	19	22	10	93	47	96.9
Minnesota	234	145	271	870	781	11.4
Missouri	227	241	241	890	950	-6.4
Nebraska	221	238	277	970	983	-1.4
North Dakota	1,319	1,443	1,566	5,858	5,928	-1.2
South Dakota	73	66	58	280	198	41.6
South Atlantic	503	533	531	2,029	2,103	-3.5
Florida	34	45	75	177	234	-24.7
Georgia	56	67	60	246	273	-9.7
Maryland	122	127	120	443	414	7.0
North Carolina	107	79	95	394	375	5.3
South Carolina	23	37	21	105	122	-14.1
Virginia	102	100	87	402	386	4.2
West Virginia	58	78	73	262	300	-12.4
East South Central	663	620	638	2,708	2,554	6.0
Alabama	148	149	175	665	683	-2.6
Kentucky	201	188	188	827	667	23.9
Mississippi	16	18	12	72	69	4.5
Tennessee	298	266	264	1,145	1,136	0.7
West South Central	227	231	248	981	816	20.2
Arkansas	34	44	41	138	142	-2.7
Louisiana	81	81	75	330	292	12.9
Oklahoma	41	47	63	227	132	71.4
Texas	71	59	69	285	249	14.7
Mountain	701	642	706	2,626	2,630	-0.2
Arizona	51	61	62	244	281	-13.2
Colorado	56	34	42	161	146	10.4
Idaho	12	13	12	40	81	-51.2
Montana	92	43	82	229	221	3.5
Nevada	53	62	60	240	204	17.5
New Mexico	17	18	9	62	55	12.1
Utah	86	80	102	323	350	-7.6
Wyoming	334	331	337	1,327	1,291	2.8
Pacific	353	413	353	1,449	1,370	5.8
Alaska	s	s	s	1	1	s
California	330	376	307	1,314	1,227	7.1
Oregon	9	17	21	58	61	-5.9
Washington	14	19	25	76	80	-4.6
U.S. Total	6,367	6,495	6,797	25,985	25,758	0.9

- = No data reported.

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

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Industrial, Commercial & Institutional Coal Users' and Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

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

(dollars per short ton)

Census division and state	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic	108.33	104.85	93.47	103.11	87.46	17.9
New York	w	w	w	w	w	w
Pennsylvania	w	w	w	w	w	w
East North Central	89.51	84.77	72.53	82.97	71.02	16.8
Illinois	w	w	w	w	w	w
Indiana	w	w	w	w	w	w
Michigan	141.01	111.38	83.33	116.35	87.60	32.8
Ohio	124.67	129.54	99.32	127.09	104.07	22.1
Wisconsin	85.31	106.11	81.81	92.03	85.24	8.0
West North Central	34.07	30.91	29.28	31.17	28.27	10.3
Iowa	33.39	33.09	34.39	32.90	33.69	-2.3
Kansas	w	w	w	w	w	w
Minnesota	56.84	58.91	50.78	54.18	49.46	9.5
Missouri	72.44	63.51	50.55	62.41	48.22	29.4
Nebraska	25.40	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
South Atlantic	160.04	150.14	106.86	144.95	97.46	48.7
Florida	181.31	192.02	120.60	183.56	110.43	66.2
Georgia	w	188.66	132.73	w	w	w
Maryland	w	w	w	w	w	w
North Carolina	194.84	156.79	102.12	149.70	97.85	53.0
South Carolina	178.28	162.47	113.53	142.14	106.87	33.0
Virginia	138.06	144.27	88.49	130.79	89.29	46.5
West Virginia	w	w	w	w	w	w
East South Central	134.23	139.73	103.53	128.77	97.77	31.7
Alabama	w	w	w	w	w	w
Kentucky	138.93	140.25	121.24	133.56	104.78	27.5
Mississippi	w	w	w	w	w	w
Tennessee	114.94	128.59	92.88	114.59	90.92	26.0
West South Central	92.10	91.68	72.94	87.30	75.43	15.7
Arkansas	w	w	w	w	w	w
Louisiana	w	w	w	w	w	w
Oklahoma	118.84	w	77.53	w	w	w
Texas	114.56	108.69	92.12	103.74	91.75	13.1
Mountain	71.30	70.30	59.72	68.78	61.08	12.6
Arizona	w	w	w	w	w	w
Colorado	w	w	w	w	w	w
Idaho	186.91	151.42	w	176.97	w	w
Montana	51.28	60.57	37.89	53.08	45.09	17.7
Nevada	114.18	96.38	79.66	95.92	78.58	22.1
New Mexico	w	w	w	w	w	w
Utah	68.57	58.93	52.35	59.63	50.63	17.8
Wyoming	59.58	56.53	52.89	56.25	51.52	9.2
Pacific	90.42	96.95	81.37	90.69	83.06	9.2
California	90.42	97.67	81.85	91.34	83.16	9.8
Oregon	w	w	w	w	w	w
Washington	w	w	w	w	w	w
U.S. Total	75.36	72.37	59.74	69.76	57.89	20.5

- = 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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
311 Food Manufacturing	1,663	1,576	1,650	6,512	6,378	2.1
312 Beverage and Tobacco Product Mfg.	4	2	4	13	14	-9.4
313 Textile Mills	2	4	10	14	39	-63.7
322 Paper Manufacturing	358	293	431	1,431	1,521	-5.9
324 Petroleum and Coal Products	1,137	1,331	1,422	5,326	5,459	-2.4
325 Chemical Manufacturing	755	727	710	2,957	2,937	0.7
327 Nonmetallic Mineral Products Mfg.	1,897	2,012	1,968	7,528	6,919	8.8
331 Primary Metal Manufacturing	269	268	286	1,054	1,294	-18.6
333 Machinery Manufacturing	5	11	22	78	82	-4.5
339 Miscellaneous Manufacturing	278	271	297	1,073	1,116	-3.9
U.S. Total	6,367	6,495	6,797	25,985	25,758	0.9

* Includes coal gasification projects.

** Excludes coke plants.

- = No data reported.

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

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

Table 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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
311 Food Manufacturing	42.32	38.96	39.19	39.10	38.03	2.8
312 Beverage and Tobacco Product Mfg.	w	w	w	w	w	w
313 Textile Mills	264.29	w	w	w	w	w
322 Paper Manufacturing	161.23	139.94	95.48	130.51	92.58	41.0
324 Petroleum and Coal Products	w	w	w	w	w	w
325 Chemical Manufacturing	95.54	99.68	84.69	95.84	83.78	14.4
327 Nonmetallic Mineral Products Mfg.	98.51	98.73	77.00	93.94	73.15	28.4
331 Primary Metal Manufacturing	178.16	190.16	145.74	185.88	139.25	33.5
333 Machinery Manufacturing	w	w	w	w	w	w
339 Miscellaneous Manufacturing	73.84	70.23	59.30	67.96	58.71	15.8
U.S. Total	75.36	72.37	59.74	69.76	57.89	20.5

* 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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic	s	1	1	2	6	-62.6
Pennsylvania	s	1	1	2	6	-62.6
East North Central	26	37	35	130	136	-4.1
Illinois	17	19	21	75	86	-13.3
Indiana	9	18	14	56	50	11.8
West North Central	32	33	32	129	104	24.8
Iowa	23	22	19	89	73	20.8
Minnesota	1	s	1	6	3	128.0
Missouri	3	5	5	12	12	2.2
North Dakota	4	7	7	23	16	41.2
South Atlantic	22	8	15	44	74	-40.9
North Carolina	19	7	11	36	49	-27.1
Virginia	3	1	4	8	25	-68.0
East South Central	-	s	-	s	1	-62.2
Kentucky	-	s	-	s	1	-62.2
Mountain	4	s	2	10	7	37.9
Colorado	-	-	-	-	s	-
Montana	1	-	-	1	1	1.0
Wyoming	3	s	2	9	6	55.1
Pacific	134	120	129	472	454	4.1
Alaska	134	120	129	472	454	4.1
U.S. Total	217	199	214	788	781	0.9

- = No data reported.

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

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of 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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic	w	w	w	w	124.33	w
Pennsylvania	w	w	w	w	124.33	w
East North Central	61.50	64.15	53.80	59.64	53.86	10.7
Illinois	w	w	w	w	w	w
Indiana	w	w	w	w	w	w
West North Central	88.24	87.00	79.72	86.07	81.58	5.5
Iowa	w	w	w	w	w	w
Minnesota	w	w	w	w	w	w
Missouri	w	w	w	w	w	w
North Dakota	w	w	w	w	w	w
South Atlantic	w	w	136.28	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
Kentucky	-	w	-	w	w	w
Mountain	w	w	w	w	w	w
Colorado	-	-	-	-	83.07	-
Montana	w	-	-	w	w	w
Wyoming	w	w	w	w	w	w
Pacific	89.79	88.69	w	88.72	w	w
Alaska	89.79	88.69	w	88.72	w	w
U.S. Total	100.50	88.24	83.69	89.85	83.00	8.3

- = No data reported.

w = Data withheld to avoid disclosure.

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

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

Consumption

Table 32. U.S. coal consumption by end-use sector, 2016 - 2022

(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	
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	145,189	4,463	3,056	4,718	7,774	172	148	320	157,746
April - June	117,771	4,660	2,611	4,392	7,003	105	71	176	129,609
July - September	155,612	4,455	2,515	4,491	7,006	112	42	154	167,226
October - December	120,034	4,389	2,711	4,601	7,312	131	96	227	131,962
Total	538,606	17,967	10,892	18,203	29,095	519	357	876	586,543
2020									
January - March	97,975	4,276	2,684	4,385	7,069	149	157	306	109,626
April - June	87,101	3,455	2,114	3,523	5,637	92	50	143	96,336
July - September	139,009	3,162	2,228	3,743	5,971	106	43	148	148,290
October - December	111,742	3,520	2,428	4,555	6,983	127	70	196	122,441
Total	435,827	14,414	9,453	16,207	25,660	473	320	793	476,693
2021									
January - March	127,648	4,361	2,486	4,094	6,579	167	105	272	138,861
April - June	113,708	4,489	2,299	3,857	6,156	103	50	153	124,505
July - September	157,021	4,366	2,456	3,878	6,334	119	47	165	167,886
October - December	103,057	4,372	2,461	4,316	6,777	145	75	220	114,426
Total	501,435	17,589	9,700	16,145	25,845	534	277	811	545,679
2022									
January - March	122,656	4,153	2,580	4,102	6,682	122	122	244	133,735
April - June	107,257	3,949	2,539	4,014	6,553	98	45	142	117,902
July - September	134,755	3,932	2,462	3,858	6,320	148	30	177	145,185
October - December	105,269	3,975	2,557	3,779	6,336	141	95	236	115,816
Total	469,938	16,009	10,138	15,753	25,891	508	292	800	512,638
2021 January - December	501,435	17,589	9,700	16,145	25,845	534	277	811	545,679
2020 January - December	435,827	14,414	9,453	16,207	25,660	473	320	793	476,693

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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic	1,361	1,316	1,400	5,427	5,292	2.5
East North Central	2,283	2,276	2,401	9,033	9,847	-8.3
South Atlantic	203	209	405	983	1,697	-42.1
East South Central	129	132	167	566	752	-24.7
U.S. Total	3,975	3,932	4,372	16,009	17,589	-9.0

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

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

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

(thousand short tons)

Census division and state	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic	176	168	172	703	679	3.5
New York	72	61	55	241	211	14.2
Pennsylvania	104	107	116	461	468	-1.3
East North Central	1,004	1,071	1,138	4,241	4,588	-7.6
Illinois	441	511	452	1,866	1,983	-5.9
Indiana	309	317	311	1,229	1,354	-9.2
Michigan	74	70	106	313	304	3.0
Ohio	82	91	113	376	424	-11.3
Wisconsin	98	82	156	456	524	-13.0
West North Central	2,690	2,728	2,847	11,299	10,887	3.8
Iowa	557	624	403	2,362	2,051	15.2
Kansas	25	23	22	86	57	51.8
Minnesota	260	133	274	880	784	12.2
Missouri	204	250	222	845	928	-8.9
Nebraska	232	219	271	972	976	-0.3
North Dakota	1,344	1,399	1,604	5,891	5,872	0.3
South Dakota	68	80	51	263	220	19.4
South Atlantic	490	510	552	1,969	2,160	-8.9
Florida	38	48	76	188	235	-20.0
Georgia	56	64	61	261	288	-9.3
Maryland	114	125	111	425	405	5.0
North Carolina	96	82	95	375	374	0.3
South Carolina	28	31	33	93	130	-28.5
Virginia	99	86	98	367	411	-10.7
West Virginia	60	73	76	261	319	-18.3
East South Central	629	616	689	2,590	2,622	-1.2
Alabama	156	159	178	655	692	-5.3
Kentucky	190	202	192	801	681	17.7
Mississippi	18	17	22	69	74	-6.9
Tennessee	265	238	297	1,065	1,175	-9.4
West South Central	205	220	248	947	848	11.6
Arkansas	35	36	38	141	150	-5.8
Louisiana	82	82	76	332	292	13.8
Oklahoma	29	31	57	201	148	35.3
Texas	59	70	78	273	258	5.6
Mountain	727	658	749	2,695	2,701	-0.2
Arizona	60	61	70	260	273	-5.0
Colorado	42	34	45	153	144	6.2
Idaho	26	9	35	76	125	-38.8
Montana	98	52	95	250	232	7.9
Nevada	43	52	66	212	242	-12.4
New Mexico	18	17	10	62	57	9.9
Utah	85	102	91	318	335	-5.2
Wyoming	355	331	337	1,364	1,293	5.5
Pacific	417	352	383	1,449	1,360	6.5
Alaska	s	s	s	1	1	s
California	377	323	323	1,322	1,223	8.1
Oregon	21	12	36	48	57	-16.7
Washington	18	16	23	78	79	-1.4
U.S. Total	6,336	6,320	6,777	25,891	25,845	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' and Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

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

NAICS code	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
311 Food Manufacturing	1,683	1,511	1,632	6,582	6,366	3.4
312 Beverage and Tobacco Product Mfg.	3	2	4	12	14	-13.6
313 Textile Mills	1	2	9	12	36	-67.5
322 Paper Manufacturing	331	272	418	1,438	1,581	-9.1
324 Petroleum and Coal Products	1,161	1,325	1,435	5,349	5,419	-1.3
325 Chemical Manufacturing	738	698	767	2,895	3,041	-4.8
327 Nonmetallic Mineral Products Mfg.	1,856	1,957	1,925	7,355	6,956	5.7
331 Primary Metal Manufacturing	250	253	270	1,047	1,246	-16.0
333 Machinery Manufacturing	17	21	26	87	82	5.7
339 Miscellaneous Manufacturing	295	278	290	1,116	1,104	1.1
U.S. Total	6,336	6,320	6,777	25,891	25,845	0.2

* Includes coal gasification projects.

** Excludes coke plants.

- = No data reported.

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

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

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

(thousand short tons)

Census division and state	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic	s	-	1	3	7	-55.8
Pennsylvania	s	-	1	3	7	-55.8
East North Central	25	33	28	130	131	-0.4
Illinois	15	18	17	74	83	-10.8
Indiana	9	15	11	57	48	17.4
West North Central	40	29	34	131	116	13.1
Iowa	29	23	23	91	82	11.9
Minnesota	1	s	1	4	6	-35.2
Missouri	3	4	5	12	12	1.8
North Dakota	6	2	5	24	16	45.3
South Atlantic	18	8	8	45	55	-16.8
North Carolina	14	7	4	37	46	-20.8
Virginia	4	s	3	9	8	5.9
East South Central	-	-	-	1	3	-76.7
Kentucky	-	-	-	1	3	-76.7
Mountain	4	s	2	11	7	45.8
Colorado	s	-	-	s	s	-47.4
Montana	1	-	s	2	1	28.4
Wyoming	3	s	2	9	6	55.1
Pacific	149	107	147	478	492	-2.7
Alaska	149	107	147	478	492	-2.7
U.S. Total	236	177	220	800	811	-1.3

- = No data reported.

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

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

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

Stocks

Table 37. U.S. coal stocks, 2016 - 2022

(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			
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	126,008	1,508	2,891	275	130,682	24,736	155,418
June 30	121,041	1,616	2,896	256	125,809	22,997	148,806
September 30	100,384	1,811	3,023	260	105,478	22,537	128,015
December 31	102,793	1,807	3,258	247	108,104	21,692	129,796
2019							
March 31	96,932	2,005	2,832	221	101,990	24,160	126,150
June 30	116,875	2,296	2,985	201	122,358	24,529	146,887
September 30	110,615	2,463	3,168	232	116,478	27,714	144,192
December 31	128,102	2,333	3,258	246	133,940	31,320	165,260
2020							
March 31	145,034	2,148	3,020	212	150,413	30,829	181,242
June 30	149,935	2,022	3,019	213	155,189	29,510	184,699
September 30	127,902	1,975	2,907	234	133,018	25,537	158,555
December 31	131,431	1,654	2,848	250	136,182	23,640	159,822
2021							
March 31	109,614	1,545	2,538	229	113,926	22,629	136,555
June 30	108,678	1,853	2,625	210	113,366	22,361	135,727
September 30	77,476	1,794	2,636	201	82,107	19,042	101,149
December 31	91,884	1,658	2,624	176	96,343	19,013	115,356
2022							
March 31	86,304	1,590	2,402	157	90,453	20,953*	111,406
June 30	87,319	1,620	2,374	158	91,472	20,927*	112,399
September 30	80,089	1,646	2,529	187	84,451	17,515*	101,966
December 31	89,963	1,627	2,499	167	94,255	17,770*	112,025

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, 2022	September 30, 2022	December 31, 2021	Percent change (December 31) 2022 versus 2021
Middle Atlantic	496	544	442	12.2
East North Central	932	894	886	5.2
South Atlantic	71	85	233	-69.5
East South Central	128	123	98	31.1
U.S. Total	1,627	1,646	1,658	-1.9

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of 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, 2022	September 30, 2022	December 31, 2021	Percent change (December 31) 2022 versus 2021
Middle Atlantic	206	204	216	-4.5
New York	56	56	57	-1.2
Pennsylvania	150	148	159	-5.7
East North Central	472	385	634	-25.5
Illinois	48	46	138	-65.4
Indiana	217	213	243	-10.5
Michigan	106	68	138	-23.5
Ohio	20	18	19	9.2
Wisconsin	80	40	96	-16.0
West North Central	528	577	559	-5.5
Iowa	141	145	175	-19.2
Kansas	11	18	5	129.9
Minnesota	24	51	34	-28.9
Missouri	77	59	53	44.7
Nebraska	35	46	40	-11.5
North Dakota	202	227	234	-13.8
South Dakota	37	32	17	113.4
South Atlantic	310	312	255	21.9
Florida	43	48	50	-14.7
Georgia	45	44	39	13.9
Maryland	33	24	15	113.9
North Carolina	81	70	66	23.1
South Carolina	37	42	35	7.2
Virginia	48	60	28	72.7
West Virginia	23	24	21	10.8
East South Central	242	224	150	61.1
Alabama	63	74	59	6.8
Kentucky	62	50	41	48.9
Mississippi	5	7	3	93.6
Tennessee	112	94	47	138.5
West South Central	236	221	230	2.7
Arkansas	26	26	28	-7.4
Louisiana	2	3	4	-55.9
Oklahoma	110	98	84	31.2
Texas	98	94	114	-13.9
Mountain	378	420	453	-16.7
Arizona	16	25	32	-49.5
Colorado	18	11	17	5.1
Idaho	140	155	172	-18.3
Montana	24	30	42	-41.2
Nevada	45	37	16	178.4
New Mexico	2	3	2	5.1
Utah	52	49	43	21.4
Wyoming	80	111	130	-38.7
Pacific	127	186	128	-0.6
California	107	150	116	-7.9
Oregon	16	28	6	169.0
Washington	4	8	5	-30.8
U.S. Total	2,499	2,529	2,624	-4.8

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

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

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

(thousand short tons)

NAICS code	December 31, 2022	September 30, 2022	December 31, 2021	Percent change (December 31) 2022 versus 2021
311 Food Manufacturing	491	513	636	-22.7
312 Beverage and Tobacco Product Mfg.	1	s	1	136.6
313 Textile Mills	10	9	7	33.5
322 Paper Manufacturing	195	183	196	-0.5
324 Petroleum and Coal Products	179	203	203	-11.8
325 Chemical Manufacturing	167	164	118	41.7
327 Nonmetallic Mineral Products Mfg.	1,185	1,168	1,122	5.6
331 Primary Metal Manufacturing	154	133	156	-1.1
333 Machinery Manufacturing	10	22	19	-48.3
339 Miscellaneous Manufacturing	108	134	168	-35.6
U.S. Total	2,499	2,529	2,624	-4.8

* 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, 2022	September 30, 2022	December 31, 2021	Percent change (December 31) 2022 versus 2021
Middle Atlantic	68	17	12	459.6
East North Central	222	290	324	-31.4
South Atlantic	30	36	64	-53.1
East South Central	36	30	63	-42.4
U.S. Total	357	373	464	-23.0
Coke Total	301	303	352	-14.5
Breeze Total	56	69	112	-49.8

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

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

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

(thousand short tons)

Census division and state	December 31, 2022	September 30, 2022	December 31, 2021	Percent change (December 31) 2022 versus 2021
Middle Atlantic	20	20	21	-3.5
Pennsylvania	20	20	21	-3.5
East North Central	24	23	25	-4.0
Illinois	21	20	21	-0.8
Indiana	3	3	4	-22.6
West North Central	17	26	26	-35.0
Iowa	5	12	14	-61.8
Minnesota	6	6	5	20.3
Missouri	1	1	1	-26.6
North Dakota	5	7	6	-20.8
South Atlantic	40	37	43	-6.2
District of Columbia	3	3	3	s
North Carolina	30	25	31	-2.9
Virginia	8	9	10	-18.4
East South Central	4	4	4	-13.0
Kentucky	4	4	4	-13.0
Mountain	2	3	3	-28.2
Colorado	s	s	1	-24.6
Montana	2	2	3	-30.1
Wyoming	s	s	s	s
Pacific	59	74	54	10.7
Alaska	59	74	54	10.7
U.S. Total	167	187	176	-5.3

- = No data reported.

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

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

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

Quality

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

Census division and state ¹	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic						
Btu	14,238	14,150	14,204	14,180	14,231	-0.4
Sulfur	1.11	1.13	1.13	1.13	1.13	-0.3
Ash	7.32	7.44	7.49	7.34	7.40	-0.8
New York						
Btu	12,679	12,745	12,698	12,723	12,707	0.1
Sulfur	2.20	2.22	2.22	2.21	2.20	0.2
Ash	9.57	9.51	9.44	9.54	9.31	2.5
Pennsylvania						
Btu	14,317	14,221	14,247	14,245	14,283	-0.3
Sulfur	1.05	1.07	1.10	1.08	1.09	-1.3
Ash	7.21	7.33	7.44	7.24	7.33	-1.3
East North Central						
Btu	13,469	13,402	13,325	13,418	13,433	-0.1
Sulfur	1.16	1.19	1.23	1.21	1.21	0.8
Ash	7.42	7.48	7.67	7.46	7.45	0.2
Illinois						
Btu	11,977	11,847	11,931	12,008	11,823	1.6
Sulfur	2.14	2.13	2.51	2.30	2.25	2.2
Ash	7.43	7.24	7.66	7.47	7.50	-0.4
Indiana						
Btu	13,858	13,746	14,014	13,902	14,124	-1.6
Sulfur	0.96	0.92	0.98	0.91	0.98	-7.4
Ash	7.36	7.41	7.62	7.40	7.48	-1.2
Michigan						
Btu	14,014	13,834	12,937	13,550	12,966	4.5
Sulfur	0.72	0.71	0.71	0.72	0.70	3.4
Ash	7.45	7.69	8.72	7.64	7.86	-2.8
Ohio						
Btu	14,195	14,212	14,212	14,202	14,261	-0.4
Sulfur	1.05	1.03	1.00	1.03	0.98	5.3
Ash	7.59	7.63	7.31	7.49	7.22	3.8
Wisconsin						
Btu	11,040	11,497	10,732	10,948	10,790	1.5
Sulfur	0.61	1.01	0.85	0.88	0.90	-2.9
Ash	6.62	8.16	6.82	7.06	6.92	2.0
West North Central						
Btu	8,380	8,219	8,242	8,237	8,232	0.1
Sulfur	0.79	0.77	0.80	0.77	0.84	-8.4
Ash	6.48	6.23	6.27	6.15	6.31	-2.5
Iowa						
Btu	9,122	8,932	9,140	8,968	9,090	-1.3
Sulfur	0.69	0.51	0.80	0.53	0.68	-23.0
Ash	5.58	4.78	5.28	4.98	5.20	-4.3
Kansas						
Btu	11,083	10,138	10,740	10,497	10,674	-1.7
Sulfur	2.15	2.63	2.02	2.26	2.39	-5.5
Ash	10.85	16.99	12.01	13.66	12.73	7.3
Minnesota						
Btu	9,312	9,235	9,339	9,306	9,329	-0.2
Sulfur	0.35	0.33	0.35	0.35	0.35	-0.8
Ash	4.25	4.30	4.18	4.26	4.24	0.5
Missouri						
Btu	11,216	11,176	11,297	11,183	11,247	-0.6
Sulfur	2.19	2.05	2.20	2.12	2.43	-12.8
Ash	8.67	8.40	8.33	8.54	8.51	0.4
Nebraska						

Census division and state¹	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Btu	8,845	8,769	8,718	8,767	8,711	0.7
Sulfur	0.29	0.22	0.22	0.23	0.22	7.7
Ash	5.04	4.58	4.53	4.66	4.53	2.8
North Dakota						
Btu	7,321	7,202	7,249	7,228	7,208	0.3
Sulfur	0.77	0.80	0.78	0.82	0.81	0.1
Ash	7.16	6.88	6.89	6.73	6.88	-2.2
South Dakota						
Btu	8,008	8,025	8,020	8,015	8,249	-2.8
Sulfur	0.34	0.35	0.35	0.35	0.45	-22.4
Ash	4.52	4.58	5.19	4.85	5.69	-14.9
South Atlantic						
Btu	13,033	12,993	13,373	13,117	13,463	-2.6
Sulfur	1.20	1.19	1.15	1.16	1.08	7.6
Ash	10.68	11.19	9.56	10.43	9.25	12.7
Florida						
Btu	11,255	12,002	12,560	12,017	12,618	-4.8
Sulfur	2.37	2.79	2.12	2.46	1.84	33.6
Ash	10.15	9.88	9.30	10.02	9.55	4.9
Georgia						
Btu	12,670	12,606	12,483	12,488	12,618	-1.0
Sulfur	0.93	0.87	0.97	0.93	0.89	4.4
Ash	7.98	10.72	10.72	10.20	9.17	11.2
Maryland						
Btu	11,177	10,816	11,603	11,096	11,751	-5.6
Sulfur	1.48	1.47	1.59	1.38	1.46	-5.0
Ash	21.76	25.00	20.80	22.59	20.62	9.5
North Carolina						
Btu	13,384	13,365	13,425	13,402	13,526	-0.9
Sulfur	1.25	0.89	0.89	1.00	0.90	11.3
Ash	8.19	8.28	8.44	8.17	7.34	11.2
South Carolina						
Btu	13,001	13,199	13,056	12,909	13,033	-0.9
Sulfur	1.34	1.32	1.52	1.55	1.30	18.8
Ash	9.89	8.66	8.85	9.13	7.88	15.8
Virginia						
Btu	13,986	14,007	14,154	14,020	14,100	-0.6
Sulfur	0.98	0.94	0.80	0.92	0.83	10.8
Ash	7.61	7.21	7.09	7.35	7.26	1.3
West Virginia						
Btu	12,942	13,000	13,705	13,362	13,767	-2.9
Sulfur	1.14	1.36	1.20	1.26	1.13	10.9
Ash	10.44	9.59	7.60	8.65	8.10	6.8
East South Central						
Btu	13,391	13,264	13,173	13,231	13,256	-0.2
Sulfur	1.31	1.29	1.35	1.31	1.32	-1.0
Ash	7.46	7.82	7.90	7.58	7.61	-0.3
Alabama						
Btu	13,857	13,734	13,509	13,606	13,626	-0.1
Sulfur	1.06	1.02	1.17	1.13	1.15	-1.8
Ash	8.06	8.21	8.51	8.15	8.18	-0.5
Kentucky						
Btu	13,323	12,752	12,796	12,938	12,774	1.3
Sulfur	1.46	1.47	1.38	1.39	1.34	3.2
Ash	7.16	7.73	7.28	7.28	7.00	4.0
Mississippi						
Btu	14,763	14,742	15,041	14,734	14,780	-0.3
Sulfur	0.81	0.88	0.81	0.81	0.77	5.2
Ash	3.40	3.84	3.23	3.73	3.53	5.6
Tennessee						
Btu	12,912	12,936	12,943	12,928	13,009	-0.6

Census division and state¹	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Sulfur	1.48	1.53	1.57	1.50	1.56	-3.9
Ash	7.31	7.66	7.80	7.40	7.52	-1.6
West South Central						
Btu	9,932	10,208	10,097	10,097	10,165	-0.7
Sulfur	0.70	0.70	0.61	0.66	0.67	-1.6
Ash	8.46	7.98	7.47	7.91	7.54	4.9
Arkansas						
Btu	11,201	11,316	11,483	11,323	11,516	-1.7
Sulfur	1.43	1.12	1.15	1.19	1.22	-2.0
Ash	10.27	9.06	8.37	9.21	8.64	6.6
Louisiana						
Btu	7,489	7,489	7,489	7,489	7,489	s
Sulfur	0.58	0.52	0.57	0.55	0.53	3.2
Ash	6.42	7.52	7.29	7.21	6.74	7.1
Oklahoma						
Btu	10,826	12,135	10,729	11,240	11,994	-6.3
Sulfur	0.56	0.80	0.50	0.64	0.63	2.1
Ash	6.30	7.68	6.85	7.11	6.49	9.5
Texas						
Btu	11,584	11,579	11,550	11,613	11,564	0.4
Sulfur	0.57	0.54	0.45	0.54	0.54	-0.1
Ash	11.15	8.03	7.69	8.72	8.42	3.7
Mountain						
Btu	10,321	10,719	10,543	10,600	10,718	-1.1
Sulfur	0.53	0.54	0.46	0.51	0.48	5.9
Ash	6.39	6.54	6.44	6.52	6.56	-0.6
Arizona						
Btu	11,331	11,318	11,775	11,532	11,621	-0.8
Sulfur	0.65	0.69	0.59	0.65	0.66	-0.7
Ash	10.00	10.64	8.87	9.28	9.82	-5.4
Colorado						
Btu	11,653	11,900	11,951	11,819	12,062	-2.0
Sulfur	0.71	0.53	0.52	0.61	0.56	8.5
Ash	8.87	8.22	8.40	8.45	9.02	-6.3
Idaho						
Btu	12,168	12,084	12,081	12,297	12,198	0.8
Sulfur	0.52	0.51	0.42	0.58	0.40	46.4
Ash	9.66	8.83	11.37	9.26	9.62	-3.8
Montana						
Btu	8,554	9,681	8,484	9,081	9,019	0.7
Sulfur	0.35	0.38	0.39	0.35	0.39	-10.5
Ash	5.01	5.54	5.72	5.15	5.66	-9.1
Nevada						
Btu	11,597	11,432	11,653	11,516	11,680	-1.4
Sulfur	0.48	0.47	0.39	0.46	0.39	18.2
Ash	10.03	9.49	9.01	9.86	9.10	8.3
New Mexico						
Btu	11,928	12,241	12,342	12,205	12,264	-0.5
Sulfur	0.83	0.67	0.62	0.71	0.67	4.8
Ash	12.38	9.60	9.45	10.31	10.06	2.5
Utah						
Btu	11,379	11,678	11,443	11,631	11,535	0.8
Sulfur	0.45	0.41	0.44	0.44	0.42	5.1
Ash	9.19	10.14	10.07	10.24	10.13	1.1
Wyoming						
Btu	9,809	10,122	10,069	10,000	10,128	-1.3
Sulfur	0.54	0.57	0.45	0.52	0.48	7.3
Ash	4.08	4.08	4.13	4.24	4.01	5.8
Pacific						
Btu	11,125	11,260	11,377	11,254	11,416	-1.4
Sulfur	0.45	0.40	0.38	0.43	0.39	8.8

Census division and state ¹	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Ash	8.35	7.82	8.91	8.11	9.10	-10.9
California						
Btu	11,206	11,359	11,538	11,366	11,551	-1.6
Sulfur	0.46	0.41	0.38	0.42	0.40	6.3
Ash	8.43	7.89	9.29	8.21	9.39	-12.6
Oregon						
Btu	10,864	11,197	11,367	11,162	11,373	-1.9
Sulfur	0.32	0.33	0.34	0.64	0.35	83.6
Ash	10.45	9.73	8.64	10.48	9.38	11.6
Washington						
Btu	9,340	9,401	9,387	9,395	9,380	0.2
Sulfur	0.33	0.33	0.36	0.35	0.35	-1.2
Ash	5.01	4.79	4.43	4.66	4.48	4.1
U.S. Total						
Btu	11,872	11,777	11,823	11,775	11,936	-1.3
Sulfur	1.00	1.00	1.02	1.00	1.02	-1.9
Ash	7.37	7.40	7.42	7.28	7.33	-0.7

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

- = No data reported.

s = Absolute percentage less than 0.05.

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of 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 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Middle Atlantic						
Btu	12,757	13,420	12,480	13,078	12,607	3.7
Sulfur	0.64	1.06	0.65	0.78	0.83	-5.5
Ash	6.35	10.07	5.90	6.72	6.69	0.5
Pennsylvania						
Btu	12,757	13,420	12,480	13,078	12,607	3.7
Sulfur	0.64	1.06	0.65	0.78	0.83	-5.5
Ash	6.35	10.07	5.90	6.72	6.69	0.5
East North Central						
Btu	11,046	11,051	11,167	11,114	11,170	-0.5
Sulfur	2.99	3.12	3.05	2.99	2.97	0.6
Ash	10.40	10.22	9.53	10.03	9.66	3.8
Illinois						
Btu	11,044	11,077	11,181	11,089	11,150	-0.5
Sulfur	3.04	3.19	3.29	3.18	3.27	-2.9
Ash	10.46	9.98	9.69	10.06	9.76	3.1
Indiana						
Btu	11,050	11,022	11,144	11,147	11,204	-0.5
Sulfur	2.88	3.05	2.69	2.73	2.45	11.5
Ash	10.28	10.48	9.29	9.98	9.48	5.2
West North Central						
Btu	10,657	10,891	10,858	10,696	10,945	-2.3
Sulfur	2.34	2.37	2.15	2.26	2.25	0.4
Ash	8.84	8.80	7.40	8.26	7.67	7.7
Iowa						
Btu	10,941	11,302	11,426	11,138	11,306	-1.5
Sulfur	2.74	2.82	2.70	2.77	2.63	5.3
Ash	9.39	9.36	7.83	8.96	8.22	8.9
Minnesota						
Btu	9,323	9,406	9,411	8,866	9,454	-6.2
Sulfur	0.33	0.33	0.29	0.29	0.31	-5.0
Ash	4.70	4.33	4.06	4.70	3.99	17.7
Missouri						
Btu	11,419	11,475	11,486	11,444	11,478	-0.3
Sulfur	3.00	3.05	3.03	3.03	2.85	6.1
Ash	9.37	8.99	9.58	9.00	8.76	2.7
North Dakota						
Btu	9,011	9,103	9,143	9,083	9,158	-0.8
Sulfur	0.34	0.35	0.37	0.39	0.39	-0.5
Ash	6.75	6.80	5.21	6.13	5.00	22.5
South Atlantic						
Btu	12,992	13,046	12,832	12,942	13,097	-1.2
Sulfur	1.33	1.64	1.63	1.44	1.44	s
Ash	8.21	7.82	6.58	8.25	7.34	12.5
North Carolina						
Btu	12,926	12,905	12,667	12,818	12,639	1.4
Sulfur	1.42	1.80	1.85	1.58	1.81	-12.6
Ash	8.61	8.45	6.58	8.83	8.61	2.5
Virginia						
Btu	13,405	13,926	13,305	13,495	13,999	-3.6
Sulfur	0.75	0.66	1.02	0.80	0.71	12.4
Ash	5.71	3.83	6.59	5.68	4.83	17.6
East South Central						
Btu	-	13,565	-	13,232	13,041	1.5
Sulfur	-	0.76	-	0.60	0.80	-25.0
Ash	-	5.48	-	4.53	6.46	-29.9
Kentucky						

Census division and state ¹	October - December 2022	July - September 2022	October - December 2021	Year to date		Percent change
				2022	2021	
Btu	-	13,565	-	13,232	13,041	1.5
Sulfur	-	0.76	-	0.60	0.80	-25.0
Ash	-	5.48	-	4.53	6.46	-29.9
Mountain						
Btu	11,171	11,566	11,656	11,428	11,389	0.3
Sulfur	0.53	0.47	0.48	0.48	0.50	-3.9
Ash	12.08	12.20	9.90	11.20	9.86	13.6
Colorado						
Btu	-	-	-	-	11,545	-
Sulfur	-	-	-	-	0.52	-
Ash	-	-	-	-	9.79	-
Montana						
Btu	10,689	-	-	10,689	10,484	2.0
Sulfur	0.74	-	-	0.74	0.55	34.5
Ash	10.67	-	-	10.67	7.73	38.0
Wyoming						
Btu	11,348	11,566	11,656	11,515	11,542	-0.2
Sulfur	0.45	0.47	0.48	0.45	0.49	-8.1
Ash	12.60	12.20	9.90	11.26	10.25	9.9
Pacific						
Btu	7,704	7,582	7,497	7,582	7,488	1.3
Sulfur	0.20	0.24	0.12	0.18	0.13	31.8
Ash	6.43	7.59	4.97	6.73	5.38	25.1
Alaska						
Btu	7,704	7,582	7,497	7,582	7,488	1.3
Sulfur	0.20	0.24	0.12	0.18	0.13	31.8
Ash	6.43	7.59	4.97	6.73	5.38	25.1
U.S. Total						
Btu	9,129	9,024	9,034	9,041	9,200	-1.7
Sulfur	0.96	1.19	1.01	1.06	1.04	1.7
Ash	7.53	8.29	6.24	7.67	6.67	15.0

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

- = No data reported.

s = Absolute percentage less than 0.05.

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