



# Quarterly Coal Report January–March 2023

July 2023

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## Contacts

If you need more information about the data in this report, email the [coal data team](#).

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, and stocks as well as about refined coal 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 first-quarter 2023 QCR includes detailed quarterly coal data from January 2023 to March 2023 and aggregated quarterly historical coal data for 2017 through first-quarter 2023.

All data for 2021 and previous years are final. All data for 2022 and 2023 are preliminary.

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**Table ES-1. U.S. coal summary statistics, 2017 - 2023**

(thousand short tons)

Year and quarter	Production <sup>1</sup>	Imports	Waste coal supplied	Producer and distributor stocks <sup>2</sup>	Consumption	Exports	Consumer stocks <sup>2</sup>	Losses and unaccounted for <sup>3</sup>
<b>2017</b>								
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	-
<b>Total</b>	<b>774,609</b>	<b>7,803</b>	<b>9,951</b>		<b>716,856</b>	<b>96,945</b>		<b>4,596</b>
<b>2018</b>								
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	-
<b>Total</b>	<b>756,167</b>	<b>5,954</b>	<b>10,431</b>		<b>688,105</b>	<b>116,244</b>		<b>5,363</b>
<b>2019</b>								
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	-
<b>Total</b>	<b>706,309</b>	<b>6,697</b>	<b>8,003</b>		<b>586,543</b>	<b>93,765</b>		<b>5,238</b>
<b>2020</b>								
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	-
<b>Total</b>	<b>535,434</b>	<b>5,137</b>	<b>6,880</b>		<b>476,693</b>	<b>69,067</b>		<b>7,129</b>
<b>2021</b>								
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	-
<b>Total</b>	<b>577,431</b>	<b>5,388</b>	<b>7,663</b>		<b>545,679</b>	<b>85,115</b>		<b>4,154</b>
<b>2022</b>								
January - March	148,992	1,322	1,777	20,953*	133,735	20,401	90,453	-
April - June	145,658	1,636	1,744	20,927*	117,902	23,433	91,472	-
July - September	154,270	1,970	1,902	17,515*	145,185	21,114	84,451	-
October - December	145,666	1,385	1,742	17,770*	115,816	21,007	94,255	-
<b>Total</b>	<b>594,586</b>	<b>6,313</b>	<b>7,166</b>		<b>512,638</b>	<b>85,956</b>		<b>12,802</b>
<b>2023</b>								
January - March	148,706	1,020	1,487	19,753*	100,305	24,620	114,336	-
<b>Total</b>	<b>148,706</b>	<b>1,020</b>	<b>1,487</b>		<b>100,305</b>	<b>24,620</b>		<b>4,225</b>
<b>2022 January - March</b>	<b>148,992</b>	<b>1,322</b>	<b>1,777</b>		<b>133,735</b>	<b>20,401</b>		-
<b>2021 January - March</b>	<b>140,130</b>	<b>1,074</b>	<b>2,077</b>		<b>138,861</b>	<b>20,740</b>		-

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, 2017 - 2023**

(thousand short tons)

Year and quarter	Production	Imports	Producer and distributor stocks <sup>1</sup>	Consumption <sup>2</sup>	Exports
<b>2017</b>					
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
<b>Total</b>	<b>12,948</b>	<b>58</b>		<b>11,815</b>	<b>1,212</b>
<b>2018</b>					
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
<b>Total</b>	<b>13,806</b>	<b>117</b>		<b>12,976</b>	<b>1,151</b>
<b>2019</b>					
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
<b>Total</b>	<b>12,870</b>	<b>116</b>		<b>11,932</b>	<b>967</b>
<b>2020</b>					
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
<b>Total</b>	<b>10,353</b>	<b>162</b>		<b>9,791</b>	<b>683</b>
<b>2021</b>					
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
<b>Total</b>	<b>12,545</b>	<b>117</b>		<b>10,708</b>	<b>2,083</b>
<b>2022</b>					
January - March	2,881	8	419	2,331	491
April - June	2,838	24	310	2,209	762
July - September	2,843	13	303	2,303	560
October - December	2,832	22	301	2,351	506
<b>Total</b>	<b>11,394</b>	<b>67</b>		<b>9,194</b>	<b>2,318</b>
<b>2023</b>					
January - March	2,822	6	374	2,450	304
<b>Total</b>	<b>2,822</b>	<b>6</b>		<b>2,450</b>	<b>304</b>
<b>2022 January - March</b>	<b>2,881</b>	<b>8</b>		<b>2,331</b>	<b>491</b>
<b>2021 January - March</b>	<b>3,101</b>	<b>16</b>		<b>2,856</b>	<b>253</b>

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 &amp; 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.'

## Production

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**Table 1. U.S. coal production, 2017 - 2023**

(thousand short tons)

<b>Year</b>	<b>January - March</b>	<b>April - June</b>	<b>July - September</b>	<b>October - December</b>	<b>Total</b>
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
2023	148,706	-	-	-	148,706

- = No data reported.

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

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

**Table 2. Coal production by state**

(thousand short tons)

Coal-producing region and state	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
Alabama	2,768	2,566	2,585	2,768	2,585	7.1
Alaska	284	294	273	284	273	4.1
Colorado	2,792	2,961	2,806	2,792	2,806	-0.5
Illinois	9,822	8,907	9,307	9,822	9,307	5.5
Indiana	6,711	6,332	5,279	6,711	5,279	27.1
<b>Kentucky Total</b>	<b>7,603</b>	<b>7,098</b>	<b>7,101</b>	<b>7,603</b>	<b>7,101</b>	<b>7.1</b>
Eastern (Kentucky)	3,173	3,071	2,821	3,173	2,821	12.5
Western (Kentucky)	4,430	4,027	4,280	4,430	4,280	3.5
Louisiana	77	81	61	77	61	26.3
Maryland	320	319	313	320	313	2.2
Mississippi	589	764	740	589	740	-20.4
Missouri	36	24	17	36	17	103.4
Montana	6,916	6,503	7,011	6,916	7,011	-1.3
New Mexico	2,116	2,292	2,782	2,116	2,782	-23.9
North Dakota	6,728	6,093	7,161	6,728	7,161	-6.0
Ohio	497	571	717	497	717	-30.7
Oklahoma	s	s	s	s	s	-55.2
<b>Pennsylvania Total</b>	<b>10,663</b>	<b>10,283</b>	<b>10,263</b>	<b>10,663</b>	<b>10,263</b>	<b>3.9</b>
Anthracite (Pennsylvania)	634	658	615	634	615	3.1
Bituminous (Pennsylvania)	10,029	9,626	9,647	10,029	9,647	4.0
Texas	3,726	4,455	4,096	3,726	4,096	-9.0
Utah	2,035	2,158	3,245	2,035	3,245	-37.3
Virginia	2,981	2,745	2,619	2,981	2,619	13.8
<b>West Virginia Total</b>	<b>22,320</b>	<b>20,488</b>	<b>20,814</b>	<b>22,320</b>	<b>20,814</b>	<b>7.2</b>
Northern (West Virginia)	11,818	11,547	11,713	11,818	11,713	0.9
Southern (West Virginia)	10,503	8,941	9,102	10,503	9,102	15.4
Wyoming	59,564	60,587	61,758	59,564	61,758	-3.6
<b>Appalachia Total</b>	<b>42,723</b>	<b>40,044</b>	<b>40,133</b>	<b>42,723</b>	<b>40,133</b>	<b>6.5</b>
Appalachia Central	16,657	14,757	14,543	16,657	14,543	14.5
Appalachia Northern	23,297	22,721	23,005	23,297	23,005	1.3
Appalachia Southern	2,768	2,566	2,585	2,768	2,585	7.1
<b>Interior Region Total</b>	<b>25,389</b>	<b>24,589</b>	<b>23,780</b>	<b>25,389</b>	<b>23,780</b>	<b>6.8</b>
Illinois Basin	20,962	19,265	18,866	20,962	18,866	11.1
Interior	4,427	5,324	4,915	4,427	4,915	-9.9
<b>Western Region Total</b>	<b>80,436</b>	<b>80,888</b>	<b>85,035</b>	<b>80,436</b>	<b>85,035</b>	<b>-5.4</b>
Powder River Basin	62,996	63,735	65,231	62,996	65,231	-3.4
Uinta Region	4,618	4,851	5,801	4,618	5,801	-20.4
Western	12,822	12,302	14,004	12,822	14,004	-8.4
<b>East of Mississippi River</b>	<b>64,274</b>	<b>60,073</b>	<b>59,738</b>	<b>64,274</b>	<b>59,738</b>	<b>7.6</b>
<b>West of Mississippi River</b>	<b>84,274</b>	<b>85,448</b>	<b>89,210</b>	<b>84,274</b>	<b>89,210</b>	<b>-5.5</b>
<b>U.S. Subtotal</b>	<b>148,548</b>	<b>145,521</b>	<b>148,948</b>	<b>148,548</b>	<b>148,948</b>	<b>-0.3</b>
<b>Refuse recovery</b>	<b>158</b>	<b>144</b>	<b>44</b>	<b>158</b>	<b>44</b>	<b>260.4</b>
<b>U.S. Total</b>	<b>148,706</b>	<b>145,666</b>	<b>148,992</b>	<b>148,706</b>	<b>148,992</b>	<b>-0.2</b>

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	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
Middle Atlantic	1,006	977	989	1,006	989	1.7
East North Central	1,682	1,687	1,598	1,682	1,598	5.2
South Atlantic	142	150	261	142	261	-45.5
East South Central	112	122	145	112	145	-22.5
<b>U.S. Total</b>	<b>2,942</b>	<b>2,936</b>	<b>2,993</b>	<b>2,942</b>	<b>2,993</b>	<b>-1.7</b>
<b>Coke Total</b>	<b>2,822</b>	<b>2,832</b>	<b>2,881</b>	<b>2,822</b>	<b>2,881</b>	<b>-2.1</b>
<b>Breeze Total</b>	<b>120</b>	<b>104</b>	<b>112</b>	<b>120</b>	<b>112</b>	<b>7.9</b>

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 &amp; 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

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**Table 4. U.S. coal exports and imports, 2017 - 2023**

(thousand short tons)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
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	20,401	1,322	23,433	1,636	21,114	1,970	21,007	1,385	85,956	6,313
2023	24,620	1,020	-	-	-	-	-	-	24,620	1,020

- = No data reported.

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

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

**Table 5. Average price of U.S. coal exports and imports, 2017 - 2023**

(dollars per short ton)

Year	January - March		April - June		July - September		October - December		Total	
	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports	Exports	Imports
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	187.20	86.50	238.23	103.54	205.99	134.59	191.33	141.73	206.74	118.04
2023	177.89	147.05	-	-	-	-	-	-	177.89	147.05

- = No data reported.

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

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



**Table 6. Quantity and average price of U.S. coal imports by origin, 2017 - 2023**

(short tons and dollars per short ton)

Year and quarter	Australia	Canada	Colombia	Indonesia	China	Venezuela	Other countries	Total
<b>2017</b>	<b>700</b>	<b>891,734</b>	<b>6,112,092</b>	<b>699,453</b>	<b>6,474</b>	<b>46</b>	<b>92,153</b>	<b>7,802,652</b>
<b>2018</b>	-	<b>770,364</b>	<b>4,060,581</b>	<b>915,188</b>	<b>28,624</b>	-	<b>179,398</b>	<b>5,954,155</b>
<b>2019</b>	-	<b>817,190</b>	<b>5,033,032</b>	<b>655,398</b>	<b>54,715</b>	-	<b>136,802</b>	<b>6,697,137</b>
<b>2020</b>	-	<b>448,719</b>	<b>3,655,196</b>	<b>639,982</b>	<b>109,814</b>	-	<b>283,659</b>	<b>5,137,370</b>
<b>2021</b>	-	<b>1,034,232</b>	<b>3,366,886</b>	<b>494,168</b>	<b>116,743</b>	-	<b>376,319</b>	<b>5,388,348</b>
<b>2022</b>								
January - March	-	333,642	895,327	61,968	30,302	-	426	1,321,665
April - June	-	546,183	972,409	58,575	58,977	-	-	1,636,144
July - September	-	562,782	1,273,513	17,011	72,767	-	44,285	1,970,358
October - December	-	330,036	902,518	-	57,066	-	95,680	1,385,300
<b>U.S. Total</b>	-	<b>1,772,643</b>	<b>4,043,767</b>	<b>137,554</b>	<b>219,112</b>	-	<b>140,391</b>	<b>6,313,467</b>
<b>2023</b>								
January - March	-	151,005	692,014	-	61,300	-	115,947	1,020,266
<b>U.S. Total</b>	-	<b>151,005</b>	<b>692,014</b>	-	<b>61,300</b>	-	<b>115,947</b>	<b>1,020,266</b>

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

<b>2017</b>	<b>74.89</b>	<b>189.83</b>	<b>64.39</b>	<b>64.11</b>	<b>97.33</b>	<b>103.33</b>	<b>132.12</b>	<b>79.53</b>
<b>2018</b>	-	<b>191.25</b>	<b>61.39</b>	<b>75.42</b>	<b>132.01</b>	-	<b>117.88</b>	<b>82.39</b>
<b>2019</b>	-	<b>184.33</b>	<b>62.77</b>	<b>67.10</b>	<b>96.13</b>	-	<b>148.37</b>	<b>80.04</b>
<b>2020</b>	-	<b>129.46</b>	<b>60.54</b>	<b>74.23</b>	<b>84.43</b>	-	<b>115.10</b>	<b>71.79</b>
<b>2021</b>	-	<b>157.70</b>	<b>69.12</b>	<b>65.76</b>	<b>132.31</b>	-	<b>130.74</b>	<b>91.49</b>
<b>2022</b>								
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	-	146.65	121.59	237.02	115.14	-	347.71	134.59
October - December	-	213.73	101.51	-	102.90	-	295.89	141.73
<b>U.S. Total</b>	-	<b>151.35</b>	<b>98.23</b>	<b>86.07</b>	<b>110.17</b>	-	<b>311.63</b>	<b>118.04</b>
<b>2023</b>								
January - March	-	250.43	114.36	-	122.31	-	220.64	147.05
<b>U.S. Total</b>	-	<b>250.43</b>	<b>114.36</b>	-	<b>122.31</b>	-	<b>220.64</b>	<b>147.05</b>

- = No data reported.

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

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

**Table 7. U.S. coal exports**

(short tons)

Continent and country of destination	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>1,114,527</b>	<b>1,868,036</b>	<b>901,575</b>	<b>1,114,527</b>	<b>901,575</b>	<b>23.6</b>
Canada*	672,836	1,446,926	422,205	672,836	422,205	59.4
Dominican Republic	256,324	246,349	53,356	256,324	53,356	380.4
Guatemala	590	36,444	89,461	590	89,461	-99.3
Honduras	55,116	55,116	36,375	55,116	36,375	51.5
Jamaica	3	-	35,358	3	35,358	-100.0
Mexico	68,993	83,091	189,444	68,993	189,444	-63.6
Trinidad and Tobago	60,657	33	60,650	60,657	60,650	s
Other**	8	77	14,726	8	14,726	-99.9
<b>South America Total</b>	<b>2,385,533</b>	<b>1,493,190</b>	<b>1,750,621</b>	<b>2,385,533</b>	<b>1,750,621</b>	<b>36.3</b>
Argentina	137,167	12	98,463	137,167	98,463	39.3
Brazil	2,050,883	1,492,597	1,311,298	2,050,883	1,311,298	56.4
Chile	160,059	107	235,126	160,059	235,126	-31.9
Ecuador	36,382	-	32,849	36,382	32,849	10.8
Peru	64	-	72,814	64	72,814	-99.9
Other**	978	474	71	978	71	NM
<b>Europe Total</b>	<b>8,180,781</b>	<b>9,225,360</b>	<b>7,855,833</b>	<b>8,180,781</b>	<b>7,855,833</b>	<b>4.1</b>
Austria	510,410	192,278	229,107	510,410	229,107	122.8
Belgium	392,790	207,469	86,943	392,790	86,943	351.8
Croatia	397,087	187,035	534,237	397,087	534,237	-25.7
Denmark (Except Greenland)	-	-	32,524	-	32,524	-
Finland	88,337	297,173	156,777	88,337	156,777	-43.7
France	616,382	789,410	313,706	616,382	313,706	96.5
Germany, Federal Republic of	1,020,811	1,417,577	840,081	1,020,811	840,081	21.5
Italy	686,618	313,170	509,150	686,618	509,150	34.9
Netherlands	2,735,964	3,757,599	2,809,505	2,735,964	2,809,505	-2.6
Norway	25,023	28,372	12,941	25,023	12,941	93.4
Poland	571,512	697,797	385,964	571,512	385,964	48.1
Romania	61,295	40,273	158,131	61,295	158,131	-61.2
Spain	285,312	251,344	481,933	285,312	481,933	-40.8
Sweden	36,423	177,440	88,397	36,423	88,397	-58.8
Turkey	301,938	242,665	420,970	301,938	420,970	-28.3
Ukraine	-	-	422,859	-	422,859	-
United Kingdom	339,424	590,544	372,519	339,424	372,519	-8.9
Other**	111,455	35,214	89	111,455	89	NM
<b>Asia Total</b>	<b>11,284,095</b>	<b>7,618,134</b>	<b>8,374,447</b>	<b>11,284,095</b>	<b>8,374,447</b>	<b>34.7</b>
China	1,786,186	476,739	582,109	1,786,186	582,109	206.8
India	5,615,669	3,909,572	4,133,946	5,615,669	4,133,946	35.8
Indonesia	128,372	104	72,513	128,372	72,513	77.0
Japan	2,074,185	2,289,284	2,191,492	2,074,185	2,191,492	-5.4
Pakistan	-	-	21	-	21	-
Singapore	394,290	103,066	-	394,290	-	-
South Korea (Republic of Korea)	1,284,150	837,346	1,391,616	1,284,150	1,391,616	-7.7
Vietnam	102	2	-	102	-	-
Other**	1,141	2,021	2,750	1,141	2,750	-58.5
<b>Australia and Oceania Total</b>	<b>-</b>	<b>-</b>	<b>253</b>	<b>-</b>	<b>253</b>	<b>-</b>
Other**	-	-	253	-	253	-
<b>Africa Total</b>	<b>1,654,918</b>	<b>802,743</b>	<b>1,518,471</b>	<b>1,654,918</b>	<b>1,518,471</b>	<b>9.0</b>
Egypt	1,035,635	629,277	760,307	1,035,635	760,307	36.2
Morocco	502,032	146,683	670,675	502,032	670,675	-25.1
South Africa	65,036	26,738	87,471	65,036	87,471	-25.6
Other**	52,215	45	18	52,215	18	NM
<b>Total</b>	<b>24,619,854</b>	<b>21,007,463</b>	<b>20,401,200</b>	<b>24,619,854</b>	<b>20,401,200</b>	<b>20.7</b>

\* 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 2022.

- = No data reported.

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

s = Absolute percentage less than 0.05.

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

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

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

(dollars per short ton)

Continent and country of destination	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>163.14</b>	<b>179.03</b>	<b>105.51</b>	<b>163.14</b>	<b>105.51</b>	<b>54.6</b>
Canada*	182.91	188.10	87.20	182.91	87.20	109.8
Dominican Republic	114.32	151.20	90.72	114.32	90.72	26.0
Guatemala	381.49	287.76	93.12	381.49	93.12	309.7
Honduras	90.72	90.72	81.65	90.72	81.65	11.1
Jamaica	1,354.33	-	45.36	1,354.33	45.36	NM
Mexico	131.48	114.18	118.05	131.48	118.05	11.4
Trinidad and Tobago	249.82	496.36	281.28	249.82	281.28	-11.2
Other**	438.75	427.77	77.65	438.75	77.65	465.0
<b>South America Total</b>	<b>222.94</b>	<b>222.14</b>	<b>219.27</b>	<b>222.94</b>	<b>219.27</b>	<b>1.7</b>
Argentina	170.96	582.83	207.62	170.96	207.62	-17.7
Brazil	240.83	221.91	249.30	240.83	249.30	-3.4
Chile	78.01	472.74	124.04	78.01	124.04	-37.1
Ecuador	51.48	-	51.33	51.48	51.33	0.3
Peru	415.41	-	77.21	415.41	77.21	438.0
Other**	71.83	872.14	493.37	71.83	493.37	-85.4
<b>Europe Total</b>	<b>201.25</b>	<b>208.74</b>	<b>225.59</b>	<b>201.25</b>	<b>225.59</b>	<b>-10.8</b>
Austria	231.76	232.02	352.11	231.76	352.11	-34.2
Belgium	163.91	214.10	294.24	163.91	294.24	-44.3
Croatia	219.13	218.25	245.28	219.13	245.28	-10.7
Denmark (Except Greenland)	-	-	58.06	-	58.06	-
Finland	226.85	235.83	296.36	226.85	296.36	-23.5
France	175.94	169.30	310.23	175.94	310.23	-43.3
Germany, Federal Republic of	179.12	194.95	181.42	179.12	181.42	-1.3
Italy	240.27	266.15	337.23	240.27	337.23	-28.8
Netherlands	178.26	199.46	179.45	178.26	179.45	-0.7
Norway	397.47	325.91	269.97	397.47	269.97	47.2
Poland	252.53	234.38	306.52	252.53	306.52	-17.6
Romania	226.80	259.06	171.72	226.80	171.72	32.1
Spain	232.83	257.96	221.98	232.83	221.98	4.9
Sweden	226.97	226.52	275.04	226.97	275.04	-17.5
Turkey	235.92	211.95	230.36	235.92	230.36	2.4
Ukraine	-	-	324.98	-	324.98	-
United Kingdom	223.47	227.80	124.08	223.47	124.08	80.1
Other**	203.92	246.21	638.11	203.92	638.11	-68.0
<b>Asia Total</b>	<b>163.71</b>	<b>169.47</b>	<b>171.16</b>	<b>163.71</b>	<b>171.16</b>	<b>-4.4</b>
China	212.90	176.73	344.22	212.90	344.22	-38.2
India	152.64	161.98	197.25	152.64	197.25	-22.6
Indonesia	158.23	315.72	63.73	158.23	63.73	148.3
Japan	162.92	171.55	133.43	162.92	133.43	22.1
Pakistan	-	-	594.62	-	594.62	-
Singapore	251.22	263.08	-	251.22	-	-
South Korea (Republic of Korea)	118.46	182.72	85.96	118.46	85.96	37.8
Vietnam	141.76	1,323.00	-	141.76	-	-
Other**	398.14	314.08	323.89	398.14	323.89	22.9
<b>Australia and Oceania Total</b>	<b>-</b>	<b>-</b>	<b>306.32</b>	<b>-</b>	<b>306.32</b>	<b>-</b>
Other**	-	-	306.32	-	306.32	-
<b>Africa Total</b>	<b>104.02</b>	<b>170.13</b>	<b>88.59</b>	<b>104.02</b>	<b>88.59</b>	<b>17.4</b>
Egypt	107.34	186.23	81.57	107.34	81.57	31.6
Morocco	78.76	72.57	68.17	78.76	68.17	15.5
South Africa	220.46	326.49	305.93	220.46	305.93	-27.9
Other**	136.08	222.22	1,006.11	136.08	1,006.11	-86.5
<b>Total</b>	<b>177.89</b>	<b>191.33</b>	<b>187.20</b>	<b>177.89</b>	<b>187.20</b>	<b>-5.0</b>

\* 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 2022.

- = No data reported.

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

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

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

**Table 9. U.S. steam coal exports**

(short tons)

Continent and country of destination	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>776,946</b>	<b>796,547</b>	<b>578,899</b>	<b>776,946</b>	<b>578,899</b>	<b>34.2</b>
Canada*	396,185	477,906	210,069	396,185	210,069	88.6
Dominican Republic	256,324	180,567	53,356	256,324	53,356	380.4
Guatemala	590	70	89,461	590	89,461	-99.3
Honduras	55,116	55,116	36,375	55,116	36,375	51.5
Jamaica	3	-	35,358	3	35,358	-100.0
Mexico	68,690	82,778	139,531	68,690	139,531	-50.8
Trinidad and Tobago	30	33	23	30	23	30.4
Other**	8	77	14,726	8	14,726	-99.9
<b>South America Total</b>	<b>388,920</b>	<b>3,054</b>	<b>451,612</b>	<b>388,920</b>	<b>451,612</b>	<b>-13.9</b>
Argentina	90,539	12	53	90,539	53	NM
Brazil	100,898	2,461	110,699	100,898	110,699	-8.9
Chile	160,059	107	235,126	160,059	235,126	-31.9
Ecuador	36,382	-	32,849	36,382	32,849	10.8
Peru	64	-	72,814	64	72,814	-99.9
Other**	978	474	71	978	71	NM
<b>Europe Total</b>	<b>3,703,456</b>	<b>4,481,813</b>	<b>2,968,300</b>	<b>3,703,456</b>	<b>2,968,300</b>	<b>24.8</b>
Belgium	263,820	55,759	2	263,820	2	NM
Croatia	94,363	40,033	173,228	94,363	173,228	-45.5
Denmark (Except Greenland)	-	-	32,524	-	32,524	-
Finland	-	50,564	-	-	-	-
France	258,390	478,406	-	258,390	-	-
Germany, Federal Republic of	682,504	877,204	609,908	682,504	609,908	11.9
Italy	254,152	63	43	254,152	43	NM
Netherlands	1,576,397	2,053,138	1,508,914	1,576,397	1,508,914	4.5
Norway	10,254	8,818	-	10,254	-	-
Poland	166,237	336,312	58,173	166,237	58,173	185.8
Romania	61,295	-	86,180	61,295	86,180	-28.9
Spain	106,534	159,803	146,011	106,534	146,011	-27.0
Turkey	470	71,650	114,089	470	114,089	-99.6
United Kingdom	142,556	338,990	239,139	142,556	239,139	-40.4
Other**	86,484	11,073	89	86,484	89	NM
<b>Asia Total</b>	<b>5,788,135</b>	<b>3,525,232</b>	<b>4,540,319</b>	<b>5,788,135</b>	<b>4,540,319</b>	<b>27.5</b>
China	114,414	61,229	76	114,414	76	NM
India	3,689,419	1,910,227	2,222,975	3,689,419	2,222,975	66.0
Indonesia	67,745	104	72,513	67,745	72,513	-6.6
Japan	1,059,228	1,016,161	1,110,430	1,059,228	1,110,430	-4.6
Pakistan	-	-	21	-	21	-
Singapore	46	-	-	46	-	-
South Korea (Republic of Korea)	856,040	535,488	1,131,554	856,040	1,131,554	-24.3
Vietnam	102	2	-	102	-	-
Other**	1,141	2,021	2,750	1,141	2,750	-58.5
<b>Australia and Oceania Total</b>	<b>-</b>	<b>-</b>	<b>253</b>	<b>-</b>	<b>253</b>	<b>-</b>
Other**	-	-	253	-	253	-
<b>Africa Total</b>	<b>1,530,627</b>	<b>802,743</b>	<b>1,364,310</b>	<b>1,530,627</b>	<b>1,364,310</b>	<b>12.2</b>
Egypt	976,380	629,277	693,617	976,380	693,617	40.8
Morocco	502,032	146,683	670,675	502,032	670,675	-25.1
South Africa	-	26,738	-	-	-	-
Other**	52,215	45	18	52,215	18	NM
<b>Total</b>	<b>12,188,084</b>	<b>9,609,389</b>	<b>9,903,693</b>	<b>12,188,084</b>	<b>9,903,693</b>	<b>23.1</b>

\* 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 2022.

- = No data reported.

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

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

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

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

(dollars per short ton)

Continent and country of destination	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>144.10</b>	<b>147.15</b>	<b>74.51</b>	<b>144.10</b>	<b>74.51</b>	<b>93.4</b>
Canada*	172.61	156.44	74.57	172.61	74.57	131.5
Dominican Republic	114.32	154.67	90.72	114.32	90.72	26.0
Guatemala	381.49	481.43	93.12	381.49	93.12	309.7
Honduras	90.72	90.72	81.65	90.72	81.65	11.1
Jamaica	1,354.33	-	45.36	1,354.33	45.36	NM
Mexico	131.29	113.95	61.45	131.29	61.45	113.7
Trinidad and Tobago	546.00	496.36	417.30	546.00	417.30	30.8
Other**	438.75	427.77	77.65	438.75	77.65	465.0
<b>South America Total</b>	<b>153.49</b>	<b>368.54</b>	<b>115.75</b>	<b>153.49</b>	<b>115.75</b>	<b>32.6</b>
Argentina	177.87	582.83	316.40	177.87	316.40	-43.8
Brazil	288.75	265.97	142.25	288.75	142.25	103.0
Chile	78.01	472.74	124.04	78.01	124.04	-37.1
Ecuador	51.48	-	51.33	51.48	51.33	0.3
Peru	415.41	-	77.21	415.41	77.21	438.0
Other**	71.83	872.14	493.37	71.83	493.37	-85.4
<b>Europe Total</b>	<b>144.94</b>	<b>161.61</b>	<b>87.57</b>	<b>144.94</b>	<b>87.57</b>	<b>65.5</b>
Belgium	134.88	65.60	4,961.00	134.88	4,961.00	-97.3
Croatia	125.76	63.83	64.56	125.76	64.56	94.8
Denmark (Except Greenland)	-	-	58.06	-	58.06	-
Finland	-	245.10	-	-	-	-
France	107.61	137.88	-	107.61	-	-
Germany, Federal Republic of	125.80	171.52	104.02	125.80	104.02	20.9
Italy	165.88	682.67	602.40	165.88	602.40	-72.5
Netherlands	133.72	154.01	86.50	133.72	86.50	54.6
Norway	347.88	239.49	-	347.88	-	-
Poland	284.40	177.78	90.72	284.40	90.72	213.5
Romania	226.80	-	51.34	226.80	51.34	341.8
Spain	225.58	241.15	94.01	225.58	94.01	140.0
Turkey	296.85	90.72	106.58	296.85	106.58	178.5
United Kingdom	126.81	188.90	72.07	126.81	72.07	76.0
Other**	181.78	183.65	638.11	181.78	638.11	-71.5
<b>Asia Total</b>	<b>103.45</b>	<b>97.16</b>	<b>75.98</b>	<b>103.45</b>	<b>75.98</b>	<b>36.2</b>
China	196.77	68.87	492.75	196.77	492.75	-60.1
India	107.76	104.32	101.18	107.76	101.18	6.5
Indonesia	184.96	315.72	63.73	184.96	63.73	190.2
Japan	110.72	61.23	65.60	110.72	65.60	68.8
Pakistan	-	-	594.62	-	594.62	-
Singapore	317.37	-	-	317.37	-	-
South Korea (Republic of Korea)	56.51	142.17	36.78	56.51	36.78	53.6
Vietnam	141.76	1,323.00	-	141.76	-	-
Other**	398.14	314.08	323.89	398.14	323.89	22.9
<b>Australia and Oceania Total</b>	<b>-</b>	<b>-</b>	<b>306.32</b>	<b>-</b>	<b>306.32</b>	<b>-</b>
Other**	-	-	306.32	-	306.32	-
<b>Africa Total</b>	<b>99.54</b>	<b>170.13</b>	<b>71.89</b>	<b>99.54</b>	<b>71.89</b>	<b>38.5</b>
Egypt	108.27	186.23	75.46	108.27	75.46	43.5
Morocco	78.76	72.57	68.17	78.76	68.17	15.5
South Africa	-	326.49	-	-	-	-
Other**	136.08	222.22	1,006.11	136.08	1,006.11	-86.5
<b>Total</b>	<b>119.75</b>	<b>137.54</b>	<b>80.62</b>	<b>119.75</b>	<b>80.62</b>	<b>48.5</b>

\* 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 2022.

- = No data reported.



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

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

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

**Table 11. U.S. metallurgical coal exports**

(short tons)

Continent and country of destination	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>337,581</b>	<b>1,071,489</b>	<b>322,676</b>	<b>337,581</b>	<b>322,676</b>	<b>4.6</b>
Canada*	276,651	969,020	212,136	276,651	212,136	30.4
Dominican Republic	-	65,782	-	-	-	-
Guatemala	-	36,374	-	-	-	-
Mexico	303	313	49,913	303	49,913	-99.4
Trinidad and Tobago	60,627	-	60,627	60,627	60,627	s
<b>South America Total</b>	<b>1,996,613</b>	<b>1,490,136</b>	<b>1,299,009</b>	<b>1,996,613</b>	<b>1,299,009</b>	<b>53.7</b>
Argentina	46,628	-	98,410	46,628	98,410	-52.6
Brazil	1,949,985	1,490,136	1,200,599	1,949,985	1,200,599	62.4
<b>Europe Total</b>	<b>4,477,325</b>	<b>4,743,547</b>	<b>4,887,533</b>	<b>4,477,325</b>	<b>4,887,533</b>	<b>-8.4</b>
Austria	510,410	192,278	229,107	510,410	229,107	122.8
Belgium	128,970	151,710	86,941	128,970	86,941	48.3
Croatia	302,724	147,002	361,009	302,724	361,009	-16.1
Finland	88,337	246,609	156,777	88,337	156,777	-43.7
France	357,992	311,004	313,706	357,992	313,706	14.1
Germany, Federal Republic of	338,307	540,373	230,173	338,307	230,173	47.0
Italy	432,466	313,107	509,107	432,466	509,107	-15.1
Netherlands	1,159,567	1,704,461	1,300,591	1,159,567	1,300,591	-10.8
Norway	14,769	19,554	12,941	14,769	12,941	14.1
Poland	405,275	361,485	327,791	405,275	327,791	23.6
Romania	-	40,273	71,951	-	71,951	-
Spain	178,778	91,541	335,922	178,778	335,922	-46.8
Sweden	36,423	177,440	88,397	36,423	88,397	-58.8
Turkey	301,468	171,015	306,881	301,468	306,881	-1.8
Ukraine	-	-	422,859	-	422,859	-
United Kingdom	196,868	251,554	133,380	196,868	133,380	47.6
Other**	24,971	24,141	-	24,971	-	-
<b>Asia Total</b>	<b>5,495,960</b>	<b>4,092,902</b>	<b>3,834,128</b>	<b>5,495,960</b>	<b>3,834,128</b>	<b>43.3</b>
China	1,671,772	415,510	582,033	1,671,772	582,033	187.2
India	1,926,250	1,999,345	1,910,971	1,926,250	1,910,971	0.8
Indonesia	60,627	-	-	60,627	-	-
Japan	1,014,957	1,273,123	1,081,062	1,014,957	1,081,062	-6.1
Singapore	394,244	103,066	-	394,244	-	-
South Korea (Republic of Korea)	428,110	301,858	260,062	428,110	260,062	64.6
<b>Africa Total</b>	<b>124,291</b>	<b>-</b>	<b>154,161</b>	<b>124,291</b>	<b>154,161</b>	<b>-19.4</b>
Egypt	59,255	-	66,690	59,255	66,690	-11.1
South Africa	65,036	-	87,471	65,036	87,471	-25.6
<b>Total</b>	<b>12,431,770</b>	<b>11,398,074</b>	<b>10,497,507</b>	<b>12,431,770</b>	<b>10,497,507</b>	<b>18.4</b>

\* 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 2022.

- = No data reported.

s = Absolute percentage less than 0.05.

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

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

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

(dollars per short ton)

Continent and country of destination	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>206.97</b>	<b>202.73</b>	<b>161.12</b>	<b>206.97</b>	<b>161.12</b>	<b>28.5</b>
Canada*	197.65	203.71	99.70	197.65	99.70	98.2
Dominican Republic	-	141.69	-	-	-	-
Guatemala	-	287.39	-	-	-	-
Mexico	174.71	172.63	276.25	174.71	276.25	-36.8
Trinidad and Tobago	249.68	-	281.23	249.68	281.23	-11.2
<b>South America Total</b>	<b>236.46</b>	<b>221.84</b>	<b>255.26</b>	<b>236.46</b>	<b>255.26</b>	<b>-7.4</b>
Argentina	157.54	-	207.56	157.54	207.56	-24.1
Brazil	238.35	221.84	259.17	238.35	259.17	-8.0
<b>Europe Total</b>	<b>247.83</b>	<b>253.27</b>	<b>309.40</b>	<b>247.83</b>	<b>309.40</b>	<b>-19.9</b>
Austria	231.76	232.02	352.11	231.76	352.11	-34.2
Belgium	223.30	268.68	294.14	223.30	294.14	-24.1
Croatia	248.24	260.31	331.99	248.24	331.99	-25.2
Finland	226.85	233.93	296.36	226.85	296.36	-23.5
France	225.27	217.62	310.23	225.27	310.23	-27.4
Germany, Federal Republic of	286.70	232.99	386.50	286.70	386.50	-25.8
Italy	283.98	266.06	337.21	283.98	337.21	-15.8
Netherlands	238.82	254.22	287.30	238.82	287.30	-16.9
Norway	431.90	364.89	269.97	431.90	269.97	60.0
Poland	239.45	287.04	344.81	239.45	344.81	-30.6
Romania	-	259.06	315.90	-	315.90	-
Spain	237.14	287.31	277.61	237.14	277.61	-14.6
Sweden	226.97	226.52	275.04	226.97	275.04	-17.5
Turkey	235.83	262.74	276.37	235.83	276.37	-14.7
Ukraine	-	-	324.98	-	324.98	-
United Kingdom	293.47	280.21	217.33	293.47	217.33	35.0
Other**	280.61	274.91	-	280.61	-	-
<b>Asia Total</b>	<b>227.18</b>	<b>231.75</b>	<b>283.87</b>	<b>227.18</b>	<b>283.87</b>	<b>-20.0</b>
China	214.01	192.63	344.20	214.01	344.20	-37.8
India	238.59	217.07	308.99	238.59	308.99	-22.8
Indonesia	128.37	-	-	128.37	-	-
Japan	217.40	259.61	203.09	217.40	203.09	7.0
Singapore	251.22	263.08	-	251.22	-	-
South Korea (Republic of Korea)	242.32	254.66	299.98	242.32	299.98	-19.2
<b>Africa Total</b>	<b>159.25</b>	<b>-</b>	<b>236.38</b>	<b>159.25</b>	<b>236.38</b>	<b>-32.6</b>
Egypt	92.08	-	145.15	92.08	145.15	-36.6
South Africa	220.46	-	305.93	220.46	305.93	-27.9
<b>Total</b>	<b>234.88</b>	<b>236.68</b>	<b>287.75</b>	<b>234.88</b>	<b>287.75</b>	<b>-18.4</b>

\* 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 2022.

- = No data reported.

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

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

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

(short tons)

Customs district	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Eastern Total</b>	<b>16,315,487</b>	<b>13,998,771</b>	<b>12,891,755</b>	<b>16,315,487</b>	<b>12,891,755</b>	<b>26.6</b>
Baltimore, MD	7,036,660	5,299,595	4,842,044	7,036,660	4,842,044	45.3
Buffalo, NY	234,150	720,079	154,629	234,150	154,629	51.4
New York City, NY	763	1,641	1,788	763	1,788	-57.3
Norfolk, VA	8,882,733	7,831,681	7,816,607	8,882,733	7,816,607	13.6
Ogdensburg, NY	140,723	38,794	76,549	140,723	76,549	83.8
Philadelphia, PA	20,419	106,981	93	20,419	93	NM
Portland, ME	39	-	-	39	-	-
St. Albans, VT	-	-	45	-	45	-
<b>Southern Total</b>	<b>6,679,508</b>	<b>5,414,346</b>	<b>5,196,338</b>	<b>6,679,508</b>	<b>5,196,338</b>	<b>28.5</b>
El Paso, TX	20,753	36,707	35,721	20,753	35,721	-41.9
Houston-Galveston, TX	134,341	171,445	250,814	134,341	250,814	-46.4
Laredo, TX	2,562	1,523	65,126	2,562	65,126	-96.1
Miami, FL	126	32	185	126	185	-31.9
Mobile, AL	2,951,773	2,404,209	2,078,143	2,951,773	2,078,143	42.0
New Orleans, LA	3,567,712	2,800,154	2,766,069	3,567,712	2,766,069	29.0
San Juan, PR	519	-	3	519	3	NM
Savannah, GA	281	69	277	281	277	1.4
Tampa, FL	1,441	207	-	1,441	-	-
<b>Western Total</b>	<b>1,545,330</b>	<b>1,249,064</b>	<b>2,244,952</b>	<b>1,545,330</b>	<b>2,244,952</b>	<b>-31.2</b>
Anchorage, AK	-	74	-	-	-	-
Great Falls, MT	15,251	34,211	227	15,251	227	NM
Honolulu, HI	-	-	41	-	41	-
Los Angeles, CA	231,418	208,269	228,850	231,418	228,850	1.1
Nogales, AZ	45,639	9,839	2,599	45,639	2,599	NM
San Diego, CA	22	50	76	22	76	-71.1
San Francisco, CA	291,011	376,231	395,383	291,011	395,383	-26.4
Seattle, WA	961,989	620,390	1,617,776	961,989	1,617,776	-40.5
<b>Northern Total</b>	<b>75,835</b>	<b>335,932</b>	<b>65,320</b>	<b>75,835</b>	<b>65,320</b>	<b>16.1</b>
Chicago, IL	-	33,055	-	-	-	-
Cleveland, OH	61,729	236,508	57,490	61,729	57,490	7.4
Detroit, MI	10,183	37,575	4,801	10,183	4,801	112.1
Duluth, MN	103	-	24	103	24	329.2
Minneapolis, MN	-	26,834	-	-	-	-
Pembina, ND	3,820	1,960	3,005	3,820	3,005	27.1
<b>Other Ports</b>	<b>3,694</b>	<b>9,350</b>	<b>2,835</b>	<b>3,694</b>	<b>2,835</b>	<b>30.3</b>
<b>Total</b>	<b>24,619,854</b>	<b>21,007,463</b>	<b>20,401,200</b>	<b>24,619,854</b>	<b>20,401,200</b>	<b>20.7</b>

- = No data reported.

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

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

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

**Table 14. Steam coal exports by customs district**

(short tons)

Customs district	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Eastern Total</b>	<b>6,568,766</b>	<b>4,936,054</b>	<b>3,948,854</b>	<b>6,568,766</b>	<b>3,948,854</b>	<b>66.3</b>
Baltimore, MD	4,477,837	3,233,504	2,989,722	4,477,837	2,989,722	49.8
Buffalo, NY	22,861	2,194	2,376	22,861	2,376	NM
New York City, NY	763	1,641	1,788	763	1,788	-57.3
Norfolk, VA	1,909,623	1,554,064	880,568	1,909,623	880,568	116.9
Ogdensburg, NY	137,224	37,670	74,283	137,224	74,283	84.7
Philadelphia, PA	20,419	106,981	93	20,419	93	NM
Portland, ME	39	-	-	39	-	-
St. Albans, VT	-	-	24	-	24	-
<b>Southern Total</b>	<b>4,056,322</b>	<b>3,329,000</b>	<b>3,699,328</b>	<b>4,056,322</b>	<b>3,699,328</b>	<b>9.7</b>
El Paso, TX	20,753	36,633	35,721	20,753	35,721	-41.9
Houston-Galveston, TX	134,319	135,071	250,814	134,319	250,814	-46.4
Laredo, TX	2,259	1,284	64,760	2,259	64,760	-96.5
Miami, FL	126	32	185	126	185	-31.9
Mobile, AL	788,476	441,464	594,440	788,476	594,440	32.6
New Orleans, LA	3,108,148	2,714,240	2,753,128	3,108,148	2,753,128	12.9
San Juan, PR	519	-	3	519	3	NM
Savannah, GA	281	69	277	281	277	1.4
Tampa, FL	1,441	207	-	1,441	-	-
<b>Western Total</b>	<b>1,545,330</b>	<b>1,249,064</b>	<b>2,244,952</b>	<b>1,545,330</b>	<b>2,244,952</b>	<b>-31.2</b>
Anchorage, AK	-	74	-	-	-	-
Great Falls, MT	15,251	34,211	227	15,251	227	NM
Honolulu, HI	-	-	41	-	41	-
Los Angeles, CA	231,418	208,269	228,850	231,418	228,850	1.1
Nogales, AZ	45,639	9,839	2,599	45,639	2,599	NM
San Diego, CA	22	50	76	22	76	-71.1
San Francisco, CA	291,011	376,231	395,383	291,011	395,383	-26.4
Seattle, WA	961,989	620,390	1,617,776	961,989	1,617,776	-40.5
<b>Northern Total</b>	<b>13,972</b>	<b>85,921</b>	<b>7,724</b>	<b>13,972</b>	<b>7,724</b>	<b>80.9</b>
Chicago, IL	-	33,055	-	-	-	-
Cleveland, OH	-	13,331	-	-	-	-
Detroit, MI	10,183	37,575	4,695	10,183	4,695	116.9
Duluth, MN	103	-	24	103	24	329.2
Pembina, ND	3,686	1,960	3,005	3,686	3,005	22.7
<b>Other Ports</b>	<b>3,694</b>	<b>9,350</b>	<b>2,835</b>	<b>3,694</b>	<b>2,835</b>	<b>30.3</b>
<b>Total</b>	<b>12,188,084</b>	<b>9,609,389</b>	<b>9,903,693</b>	<b>12,188,084</b>	<b>9,903,693</b>	<b>23.1</b>

- = No data reported.

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

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

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

**Table 15. Metallurgical coal exports by customs district**

(short tons)

Customs district	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Eastern Total</b>	<b>9,746,721</b>	<b>9,062,717</b>	<b>8,942,901</b>	<b>9,746,721</b>	<b>8,942,901</b>	<b>9.0</b>
Baltimore, MD	2,558,823	2,066,091	1,852,322	2,558,823	1,852,322	38.1
Buffalo, NY	211,289	717,885	152,253	211,289	152,253	38.8
Norfolk, VA	6,973,110	6,277,617	6,936,039	6,973,110	6,936,039	0.5
Ogdensburg, NY	3,499	1,124	2,266	3,499	2,266	54.4
St. Albans, VT	-	-	21	-	21	-
<b>Southern Total</b>	<b>2,623,186</b>	<b>2,085,346</b>	<b>1,497,010</b>	<b>2,623,186</b>	<b>1,497,010</b>	<b>75.2</b>
El Paso, TX	-	74	-	-	-	-
Houston-Galveston, TX	22	36,374	-	22	-	-
Laredo, TX	303	239	366	303	366	-17.2
Mobile, AL	2,163,297	1,962,745	1,483,703	2,163,297	1,483,703	45.8
New Orleans, LA	459,564	85,914	12,941	459,564	12,941	NM
<b>Northern Total</b>	<b>61,863</b>	<b>250,011</b>	<b>57,596</b>	<b>61,863</b>	<b>57,596</b>	<b>7.4</b>
Cleveland, OH	61,729	223,177	57,490	61,729	57,490	7.4
Detroit, MI	-	-	106	-	106	-
Minneapolis, MN	-	26,834	-	-	-	-
Pembina, ND	134	-	-	134	-	-
<b>Total</b>	<b>12,431,770</b>	<b>11,398,074</b>	<b>10,497,507</b>	<b>12,431,770</b>	<b>10,497,507</b>	<b>18.4</b>

- = No data reported.

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

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

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

**Table 16. U.S. coke exports**

(short tons)

Continent and country of destination	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>179,737</b>	<b>325,170</b>	<b>246,549</b>	<b>179,737</b>	<b>246,549</b>	<b>-27.1</b>
Canada*	124,702	295,394	179,770	124,702	179,770	-30.6
Mexico	54,735	29,582	66,600	54,735	66,600	-17.8
Other**	300	194	179	300	179	67.6
<b>South America Total</b>	<b>93,692</b>	<b>143,260</b>	<b>34,785</b>	<b>93,692</b>	<b>34,785</b>	<b>169.3</b>
Brazil	93,692	143,239	34,723	93,692	34,723	169.8
Other**	-	21	62	-	62	-
<b>Europe Total</b>	<b>30,477</b>	<b>37,445</b>	<b>209,535</b>	<b>30,477</b>	<b>209,535</b>	<b>-85.5</b>
Netherlands	-	20,761	103,066	-	103,066	-
Other**	163	5,661	15,875	163	15,875	-99.0
Spain	30,314	11,023	90,594	30,314	90,594	-66.5
<b>Asia Total</b>	<b>111</b>	<b>11</b>	<b>175</b>	<b>111</b>	<b>175</b>	<b>-36.6</b>
Other**	111	11	175	111	175	-36.6
<b>Australia and Oceania Total</b>	<b>22</b>	<b>44</b>	<b>225</b>	<b>22</b>	<b>225</b>	<b>-90.2</b>
Other**	22	44	225	22	225	-90.2
<b>Total</b>	<b>304,039</b>	<b>505,930</b>	<b>491,269</b>	<b>304,039</b>	<b>491,269</b>	<b>-38.1</b>

\* 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 2022.

- = No data reported.

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

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

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

(dollars per short ton)

Continent and country of destination	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>470.51</b>	<b>389.28</b>	<b>350.85</b>	<b>470.51</b>	<b>350.85</b>	<b>34.1</b>
Canada*	490.27	392.43	327.29	490.27	327.29	49.8
Mexico	424.02	356.45	413.57	424.02	413.57	2.5
Other**	738.33	591.26	680.17	738.33	680.17	8.6
<b>South America Total</b>	<b>454.77</b>	<b>448.11</b>	<b>272.37</b>	<b>454.77</b>	<b>272.37</b>	<b>67.0</b>
Brazil	454.77	448.07	272.15	454.77	272.15	67.1
Other**	-	747.62	392.79	-	392.79	-
<b>Europe Total</b>	<b>223.25</b>	<b>200.88</b>	<b>218.41</b>	<b>223.25</b>	<b>218.41</b>	<b>2.2</b>
Netherlands	-	215.00	218.79	-	218.79	-
Other**	407.57	186.94	92.54	407.57	92.54	340.4
Spain	222.26	181.44	240.03	222.26	240.03	-7.4
<b>Asia Total</b>	<b>937.96</b>	<b>389.82</b>	<b>905.93</b>	<b>937.96</b>	<b>905.93</b>	<b>3.5</b>
Other**	937.96	389.82	905.93	937.96	905.93	3.5
<b>Australia and Oceania Total</b>	<b>261.82</b>	<b>216.36</b>	<b>174.01</b>	<b>261.82</b>	<b>174.01</b>	<b>50.5</b>
Other**	261.82	216.36	174.01	261.82	174.01	50.5
<b>Total</b>	<b>441.03</b>	<b>391.98</b>	<b>288.92</b>	<b>441.03</b>	<b>288.92</b>	<b>52.6</b>

\* 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 2022.

- = No data reported.

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

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



**Table 18. U.S. coal imports**

(short tons)

Continent and country of origin	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>153,124</b>	<b>337,128</b>	<b>333,666</b>	<b>153,124</b>	<b>333,666</b>	<b>-54.1</b>
Canada	151,005	330,036	333,642	151,005	333,642	-54.7
Mexico	2,119	7,092	24	2,119	24	NM
<b>South America Total</b>	<b>730,236</b>	<b>933,203</b>	<b>895,327</b>	<b>730,236</b>	<b>895,327</b>	<b>-18.4</b>
Colombia	692,014	902,518	895,327	692,014	895,327	-22.7
Peru	38,222	30,685	-	38,222	-	-
<b>Europe Total</b>	<b>39,229</b>	<b>57,903</b>	<b>402</b>	<b>39,229</b>	<b>402</b>	<b>NM</b>
Belgium	-	36,927	-	-	-	-
France	-	-	402	-	402	-
Ireland	39,227	20,976	-	39,227	-	-
United Kingdom	2	-	-	2	-	-
<b>Asia Total</b>	<b>61,300</b>	<b>57,066</b>	<b>92,270</b>	<b>61,300</b>	<b>92,270</b>	<b>-33.6</b>
China	61,300	57,066	30,302	61,300	30,302	102.3
Indonesia	-	-	61,968	-	61,968	-
<b>Africa Total</b>	<b>36,377</b>	<b>-</b>	<b>-</b>	<b>36,377</b>	<b>-</b>	<b>-</b>
South Africa	36,377	-	-	36,377	-	-
<b>Total</b>	<b>1,020,266</b>	<b>1,385,300</b>	<b>1,321,665</b>	<b>1,020,266</b>	<b>1,321,665</b>	<b>-22.8</b>

- = 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	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>249.04</b>	<b>212.96</b>	<b>113.80</b>	<b>249.04</b>	<b>113.80</b>	<b>118.8</b>
Canada	250.43	213.73	113.78	250.43	113.78	120.1
Mexico	149.91	177.17	446.63	149.91	446.63	-66.4
<b>South America Total</b>	<b>119.37</b>	<b>105.55</b>	<b>75.51</b>	<b>119.37</b>	<b>75.51</b>	<b>58.1</b>
Colombia	114.36	101.51	75.51	114.36	75.51	51.5
Peru	210.16	224.41	-	210.16	-	-
<b>Europe Total</b>	<b>176.97</b>	<b>348.32</b>	<b>75.00</b>	<b>176.97</b>	<b>75.00</b>	<b>136.0</b>
Belgium	-	364.12	-	-	-	-
France	-	-	75.00	-	75.00	-
Ireland	176.90	320.50	-	176.90	-	-
United Kingdom	1,633.50	-	-	1,633.50	-	-
<b>Asia Total</b>	<b>122.31</b>	<b>102.90</b>	<b>94.42</b>	<b>122.31</b>	<b>94.42</b>	<b>29.5</b>
China	122.31	102.90	155.04	122.31	155.04	-21.1
Indonesia	-	-	64.77	-	64.77	-
<b>Africa Total</b>	<b>282.87</b>	-	-	<b>282.87</b>	-	-
South Africa	282.87	-	-	282.87	-	-
<b>U.S. Total*</b>	<b>147.05</b>	<b>141.73</b>	<b>86.50</b>	<b>147.05</b>	<b>86.50</b>	<b>70.0</b>

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

- = No data reported.

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

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

**Table 20. Coal imports by customs district**

(short tons)

Customs district	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Eastern Total</b>	<b>46,914</b>	<b>57</b>	<b>501</b>	<b>46,914</b>	<b>501</b>	<b>NM</b>
Boston, MA	-	-	402	-	402	-
Buffalo, NY	11	36	78	11	78	-85.9
Portland, ME	46,903	-	-	46,903	-	-
St. Albans, VT	-	21	21	-	21	-
<b>Southern Total</b>	<b>822,351</b>	<b>1,055,264</b>	<b>925,653</b>	<b>822,351</b>	<b>925,653</b>	<b>-11.2</b>
Houston-Galveston, TX	27,192	-	6,520	27,192	6,520	317.1
Laredo, TX	2,119	7,092	24	2,119	24	NM
Miami, FL	207	-	42	207	42	392.9
Mobile, AL	370,163	670,933	560,402	370,163	560,402	-33.9
New Orleans, LA	81,688	124,678	23,740	81,688	23,740	244.1
San Juan, PR	301,755	177,243	259,790	301,755	259,790	16.2
Tampa, FL	39,227	75,318	75,135	39,227	75,135	-47.8
<b>Western Total</b>	<b>104,469</b>	<b>185,191</b>	<b>375,846</b>	<b>104,469</b>	<b>375,846</b>	<b>-72.2</b>
Great Falls, MT	103,701	184,148	259,338	103,701	259,338	-60.0
Honolulu, HI	-	-	116,505	-	116,505	-
San Francisco, CA	3	-	-	3	-	-
Seattle, WA	765	1,043	3	765	3	NM
<b>Northern Total</b>	<b>46,532</b>	<b>144,788</b>	<b>19,665</b>	<b>46,532</b>	<b>19,665</b>	<b>136.6</b>
Cleveland, OH	72	-	9	72	9	NM
Detroit, MI	27,161	131,822	126	27,161	126	NM
Duluth, MN	2,327	528	838	2,327	838	177.7
Pembina, ND	16,970	12,438	18,692	16,970	18,692	-9.2
St. Louis, MO	2	-	-	2	-	-
<b>Total</b>	<b>1,020,266</b>	<b>1,385,300</b>	<b>1,321,665</b>	<b>1,020,266</b>	<b>1,321,665</b>	<b>-22.8</b>

- = No data reported.

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

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

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

**Table 21. U.S. coke imports**

(short tons)

Continent and country of origin	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>196</b>	<b>537</b>	<b>228</b>	<b>196</b>	<b>228</b>	<b>-14.0</b>
Canada	196	537	228	196	228	-14.0
<b>Europe Total</b>	<b>14</b>	<b>17,357</b>	<b>42</b>	<b>14</b>	<b>42</b>	<b>-66.7</b>
Czech Republic	-	17,349	-	-	-	-
Germany, Federal Republic of	-	2	-	-	-	-
Netherlands	-	-	21	-	21	-
United Kingdom	14	6	21	14	21	-33.3
<b>Asia Total</b>	<b>281</b>	<b>1</b>	<b>814</b>	<b>281</b>	<b>814</b>	<b>-65.5</b>
China	108	-	746	108	746	-85.5
India	45	-	68	45	68	-33.8
Indonesia	13	-	-	13	-	-
Japan	3	1	-	3	-	-
United Arab Emirates	112	-	-	112	-	-
<b>Africa Total</b>	<b>5,284</b>	<b>4,098</b>	<b>7,414</b>	<b>5,284</b>	<b>7,414</b>	<b>-28.7</b>
Mozambique	110	217	457	110	457	-75.9
South Africa	5,174	3,881	6,957	5,174	6,957	-25.6
<b>U.S. Total</b>	<b>5,775</b>	<b>21,993</b>	<b>8,498</b>	<b>5,775</b>	<b>8,498</b>	<b>-32.0</b>

- = No data reported.

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

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

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

(dollars per short ton)

Continent and country of origin	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>North America Total</b>	<b>293.75</b>	<b>350.64</b>	<b>272.80</b>	<b>293.75</b>	<b>272.80</b>	<b>7.7</b>
Canada	293.75	350.64	272.80	293.75	272.80	7.7
<b>Europe Total</b>	<b>1,992.86</b>	<b>456.89</b>	<b>631.90</b>	<b>1,992.86</b>	<b>631.90</b>	<b>215.4</b>
Czech Republic	-	456.41	-	-	-	-
Germany, Federal Republic of	-	1,360.50	-	-	-	-
Netherlands	-	-	416.19	-	416.19	-
United Kingdom	1,992.86	1,550.00	847.62	1,992.86	847.62	135.1
<b>Asia Total</b>	<b>1,244.95</b>	<b>5,610.00</b>	<b>1,627.35</b>	<b>1,244.95</b>	<b>1,627.35</b>	<b>-23.5</b>
China	1,987.22	-	1,673.03	1,987.22	1,673.03	18.8
India	933.78	-	1,126.19	933.78	1,126.19	-17.1
Indonesia	2,788.46	-	-	2,788.46	-	-
Japan	3,440.33	5,610.00	-	3,440.33	-	-
United Arab Emirates	416.26	-	-	416.26	-	-
<b>Africa Total</b>	<b>581.13</b>	<b>604.75</b>	<b>437.74</b>	<b>581.13</b>	<b>437.74</b>	<b>32.8</b>
Mozambique	469.64	448.92	387.93	469.64	387.93	21.1
South Africa	583.50	613.46	441.01	583.50	441.01	32.3
<b>U.S. Total</b>	<b>607.10</b>	<b>482.08</b>	<b>548.22</b>	<b>607.10</b>	<b>548.22</b>	<b>10.7</b>

- = No data reported.

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

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

## Receipts and prices

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**Table 23. Coal receipts at coke plants by census division**

(thousand short tons)

Census division	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
Middle Atlantic	1,432	1,308	1,494	1,432	1,494	-4.2
East North Central	2,298	2,342	2,129	2,298	2,129	7.9
South Atlantic	194	188	262	194	262	-26.2
East South Central	125	139	171	125	171	-26.9
<b>U.S. Total</b>	<b>4,049</b>	<b>3,977</b>	<b>4,056</b>	<b>4,049</b>	<b>4,056</b>	<b>-0.2</b>

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 &amp; 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	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
Middle Atlantic	w	w	w	w	w	w
East North Central	224.78	214.02	201.08	224.78	201.08	11.8
South Atlantic	w	w	w	w	w	w
East South Central	w	w	w	w	w	w
<b>U.S. Total</b>	<b>206.99</b>	<b>199.89</b>	<b>185.30</b>	<b>206.99</b>	<b>185.30</b>	<b>11.7</b>

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 &amp; 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	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Coke</b>						
Sales	1,487	3,428	1,546	1,487	1,546	-3.8
Average Price	446.43	215.56	379.03	446.43	379.03	17.8
<b>Breeze</b>						
Sales	98	232	72	98	72	36.1
Average Price	155.93	56.03	87.12	155.93	87.12	79.0

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 &amp; 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	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Middle Atlantic</b>	<b>194</b>	<b>178</b>	<b>142</b>	<b>194</b>	<b>142</b>	<b>36.8</b>
New York	86	72	27	86	27	220.8
Pennsylvania	108	106	115	108	115	-5.9
<b>East North Central</b>	<b>933</b>	<b>1,096</b>	<b>940</b>	<b>933</b>	<b>940</b>	<b>-0.8</b>
Illinois	427	443	463	427	463	-7.9
Indiana	283	319	198	283	198	43.2
Michigan	54	113	43	54	43	25.7
Ohio	100	84	110	100	110	-9.5
Wisconsin	69	137	126	69	126	-45.0
<b>West North Central</b>	<b>2,875</b>	<b>2,646</b>	<b>2,973</b>	<b>2,875</b>	<b>2,973</b>	<b>-3.3</b>
Iowa	557	553	526	557	526	5.9
Kansas	31	19	25	31	25	22.9
Minnesota	352	234	279	352	279	26.3
Missouri	209	227	185	209	185	13.0
Nebraska	251	221	279	251	279	-10.3
North Dakota	1,409	1,319	1,606	1,409	1,606	-12.2
South Dakota	66	73	73	66	73	-9.6
<b>South Atlantic</b>	<b>432</b>	<b>503</b>	<b>501</b>	<b>432</b>	<b>501</b>	<b>-13.8</b>
Florida	31	34	46	31	46	-31.8
Georgia	63	56	64	63	64	-2.0
Maryland	62	122	71	62	71	-12.7
North Carolina	85	107	108	85	108	-21.7
South Carolina	32	23	33	32	33	-2.9
Virginia	109	102	123	109	123	-11.2
West Virginia	49	58	55	49	55	-10.9
<b>East South Central</b>	<b>617</b>	<b>663</b>	<b>682</b>	<b>617</b>	<b>682</b>	<b>-9.5</b>
Alabama	130	148	178	130	178	-26.7
Kentucky	186	201	209	186	209	-10.9
Mississippi	19	16	16	19	16	19.9
Tennessee	282	298	280	282	280	0.8
<b>West South Central</b>	<b>275</b>	<b>227</b>	<b>287</b>	<b>275</b>	<b>287</b>	<b>-4.5</b>
Arkansas	44	34	35	44	35	26.5
Louisiana	78	81	85	78	85	-8.0
Oklahoma	82	41	89	82	89	-8.5
Texas	70	71	78	70	78	-9.9
<b>Mountain</b>	<b>568</b>	<b>701</b>	<b>662</b>	<b>568</b>	<b>662</b>	<b>-14.2</b>
Arizona	63	51	67	63	67	-7.0
Colorado	47	56	33	47	33	42.3
Idaho	5	12	4	5	4	13.8
Montana	53	92	50	53	50	5.5
Nevada	39	53	71	39	71	-45.1
New Mexico	14	17	15	14	15	-7.0
Utah	60	86	75	60	75	-20.3
Wyoming	288	334	347	288	347	-17.0
<b>Pacific</b>	<b>335</b>	<b>353</b>	<b>365</b>	<b>335</b>	<b>365</b>	<b>-8.3</b>
Alaska	s	s	s	s	s	s
California	312	330	329	312	329	-5.2
Oregon	s	9	15	s	15	-98.4
Washington	22	14	20	22	20	9.5
<b>U.S. Total</b>	<b>6,228</b>	<b>6,367</b>	<b>6,552</b>	<b>6,228</b>	<b>6,552</b>	<b>-5.0</b>

- = 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 &amp; 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	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Middle Atlantic</b>	<b>123.86</b>	<b>108.33</b>	<b>103.27</b>	<b>123.86</b>	<b>103.27</b>	<b>19.9</b>
New York	w	w	w	w	w	w
Pennsylvania	w	w	w	w	w	w
<b>East North Central</b>	<b>106.74</b>	<b>89.51</b>	<b>73.56</b>	<b>106.74</b>	<b>73.56</b>	<b>45.1</b>
Illinois	w	w	w	w	w	w
Indiana	w	w	w	w	w	w
Michigan	126.41	141.01	91.07	126.41	91.07	38.8
Ohio	152.47	124.67	118.57	152.47	118.57	28.6
Wisconsin	111.67	85.31	92.49	111.67	92.49	20.7
<b>West North Central</b>	<b>36.49</b>	<b>34.07</b>	<b>29.69</b>	<b>36.49</b>	<b>29.69</b>	<b>22.9</b>
Iowa	34.67	33.39	w	34.67	w	w
Kansas	w	w	w	w	w	w
Minnesota	57.34	56.84	51.31	57.34	51.31	11.8
Missouri	83.81	72.44	54.60	83.81	54.60	53.5
Nebraska	w	25.40	24.97	w	w	w
North Dakota	w	w	w	w	w	w
South Dakota	w	w	w	w	w	w
<b>South Atlantic</b>	<b>175.04</b>	<b>160.04</b>	<b>128.46</b>	<b>175.04</b>	<b>128.46</b>	<b>36.3</b>
Florida	w	181.31	144.47	w	w	w
Georgia	w	w	190.95	w	w	w
Maryland	w	w	w	w	w	w
North Carolina	187.89	194.84	116.47	187.89	116.47	61.3
South Carolina	207.62	178.28	105.53	207.62	105.53	96.7
Virginia	163.10	138.06	107.04	163.10	107.04	52.4
West Virginia	w	w	w	w	w	w
<b>East South Central</b>	<b>157.42</b>	<b>134.23</b>	<b>115.02</b>	<b>157.42</b>	<b>115.02</b>	<b>36.9</b>
Alabama	w	w	w	w	w	w
Kentucky	144.87	138.93	113.15	144.87	113.15	28.0
Mississippi	w	w	w	w	w	w
Tennessee	150.88	114.94	106.01	150.88	106.01	42.3
<b>West South Central</b>	<b>104.37</b>	<b>92.10</b>	<b>75.87</b>	<b>104.37</b>	<b>75.87</b>	<b>37.6</b>
Arkansas	w	w	w	w	w	w
Louisiana	w	w	w	w	w	w
Oklahoma	131.70	118.84	90.33	131.70	90.33	45.8
Texas	110.22	114.56	95.44	110.22	95.44	15.5
<b>Mountain</b>	<b>75.36</b>	<b>71.30</b>	<b>64.74</b>	<b>75.36</b>	<b>64.74</b>	<b>16.4</b>
Arizona	w	w	w	w	w	w
Colorado	w	w	w	w	w	w
Idaho	w	186.91	w	w	w	w
Montana	64.04	51.28	41.15	64.04	41.15	55.6
Nevada	110.34	114.18	86.57	110.34	86.57	27.5
New Mexico	w	w	w	w	w	w
Utah	73.43	68.57	54.48	73.43	54.48	34.8
Wyoming	62.41	59.58	54.42	62.41	54.42	14.7
<b>Pacific</b>	<b>112.90</b>	<b>90.42</b>	<b>83.18</b>	<b>112.90</b>	<b>83.18</b>	<b>35.7</b>
California	113.94	90.42	83.50	113.94	83.50	36.5
Oregon	w	w	w	w	w	w
Washington	w	w	w	w	w	w
<b>U.S. Total</b>	<b>81.96</b>	<b>75.36</b>	<b>62.53</b>	<b>81.96</b>	<b>62.53</b>	<b>31.1</b>

- = 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 &amp; 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		January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
					2023	2022	
311	Food Manufacturing	1,814	1,663	1,679	1,814	1,679	8.0
312	Beverage and Tobacco Product Mfg.	3	4	3	3	3	13.5
313	Textile Mills	3	2	6	3	6	-55.8
322	Paper Manufacturing	366	358	442	366	442	-17.0
324	Petroleum and Coal Products	1,156	1,137	1,485	1,156	1,485	-22.1
325	Chemical Manufacturing	729	755	750	729	750	-2.8
327	Nonmetallic Mineral Products Mfg.	1,675	1,897	1,699	1,675	1,699	-1.4
331	Primary Metal Manufacturing	264	269	210	264	210	25.8
333	Machinery Manufacturing	25	5	29	25	29	-14.0
339	Miscellaneous Manufacturing	192	278	251	192	251	-23.4
<b>U.S. Total</b>		<b>6,228</b>	<b>6,367</b>	<b>6,552</b>	<b>6,228</b>	<b>6,552</b>	<b>-5.0</b>

\* 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		January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
					2023	2022	
311	Food Manufacturing	41.62	42.32	38.10	41.62	38.10	9.2
312	Beverage and Tobacco Product Mfg.	w	w	w	w	w	w
313	Textile Mills	236.33	264.29	141.56	236.33	141.56	66.9
322	Paper Manufacturing	161.56	161.23	109.54	161.56	109.54	47.5
324	Petroleum and Coal Products	w	w	w	w	w	w
325	Chemical Manufacturing	117.77	95.54	89.96	117.77	89.96	30.9
327	Nonmetallic Mineral Products Mfg.	108.50	98.51	84.10	108.50	84.10	29.0
331	Primary Metal Manufacturing	256.00	178.16	190.14	256.00	190.14	34.6
333	Machinery Manufacturing	w	w	w	w	w	w
339	Miscellaneous Manufacturing	72.74	73.84	61.14	72.74	61.14	19.0
<b>U.S. Total</b>		<b>81.96</b>	<b>75.36</b>	<b>62.53</b>	<b>81.96</b>	<b>62.53</b>	<b>31.1</b>

\* 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	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Middle Atlantic</b>	<b>1</b>	<b>s</b>	<b>1</b>	<b>1</b>	<b>1</b>	<b>-9.7</b>
Pennsylvania	1	s	1	1	1	-9.7
<b>East North Central</b>	<b>41</b>	<b>26</b>	<b>49</b>	<b>41</b>	<b>49</b>	<b>-17.1</b>
Illinois	31	17	26	31	26	19.7
Indiana	10	9	23	10	23	-58.1
<b>West North Central</b>	<b>21</b>	<b>32</b>	<b>36</b>	<b>21</b>	<b>36</b>	<b>-42.3</b>
Iowa	10	23	22	10	22	-55.7
Minnesota	1	1	5	1	5	-69.1
Missouri	2	3	4	2	4	-53.9
North Dakota	8	4	5	8	5	47.1
<b>South Atlantic</b>	<b>16</b>	<b>22</b>	<b>9</b>	<b>16</b>	<b>9</b>	<b>78.2</b>
North Carolina	9	19	5	9	5	59.5
Virginia	7	3	4	7	4	106.7
<b>East South Central</b>	<b>-</b>	<b>-</b>	<b>s</b>	<b>-</b>	<b>s</b>	<b>-</b>
Kentucky	-	-	s	-	s	-
<b>Mountain</b>	<b>s</b>	<b>4</b>	<b>5</b>	<b>s</b>	<b>5</b>	<b>-93.1</b>
Montana	-	1	-	-	-	-
Wyoming	s	3	5	s	5	-93.1
<b>Pacific</b>	<b>148</b>	<b>134</b>	<b>125</b>	<b>148</b>	<b>125</b>	<b>18.4</b>
Alaska	148	134	125	148	125	18.4
<b>U.S. Total</b>	<b>227</b>	<b>217</b>	<b>225</b>	<b>227</b>	<b>225</b>	<b>0.6</b>

- = 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 &amp; 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	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Middle Atlantic</b>	w	w	w	w	w	w
Pennsylvania	w	w	w	w	w	w
<b>East North Central</b>	<b>68.55</b>	<b>61.50</b>	<b>58.44</b>	<b>68.55</b>	<b>58.44</b>	<b>17.3</b>
Illinois	w	w	w	w	w	w
Indiana	w	w	w	w	w	w
<b>West North Central</b>	<b>120.20</b>	<b>88.24</b>	<b>85.36</b>	<b>120.20</b>	<b>85.36</b>	<b>40.8</b>
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
<b>South Atlantic</b>	<b>235.53</b>	<b>w</b>	<b>141.36</b>	<b>w</b>	<b>w</b>	<b>w</b>
North Carolina	w	w	w	w	w	w
Virginia	w	w	w	w	w	w
<b>East South Central</b>	-	-	<b>w</b>	-	<b>w</b>	-
Kentucky	-	-	w	-	w	-
<b>Mountain</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Montana	-	w	-	w	-	-
Wyoming	w	w	w	w	w	w
<b>Pacific</b>	<b>w</b>	<b>89.79</b>	<b>w</b>	<b>w</b>	<b>w</b>	<b>w</b>
Alaska	w	89.79	w	w	w	w
<b>U.S. Total</b>	<b>100.01</b>	<b>100.50</b>	<b>84.07</b>	<b>100.01</b>	<b>84.07</b>	<b>19.0</b>

- = 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 &amp; Institutional Coal Users.'

## Consumption

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**Table 32. U.S. coal consumption by end-use sector, 2017 - 2023**

(thousand short tons)

Year and quarter	Electric power sector <sup>1</sup>	Coke plants	Other Industrial			Commercial and institutional			Total
			CHP <sup>2</sup>	Non-CHP <sup>3</sup>	Total	CHP <sup>4</sup>	Non-CHP <sup>5</sup>	Total	
<b>2017</b>									
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
<b>Total</b>	<b>664,993</b>	<b>17,538</b>	<b>12,975</b>	<b>20,289</b>	<b>33,264</b>	<b>610</b>	<b>451</b>	<b>1,061</b>	<b>716,856</b>
<b>2018</b>									
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
<b>Total</b>	<b>637,217</b>	<b>18,337</b>	<b>12,233</b>	<b>19,347</b>	<b>31,580</b>	<b>577</b>	<b>395</b>	<b>972</b>	<b>688,105</b>
<b>2019</b>									
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
<b>Total</b>	<b>538,606</b>	<b>17,967</b>	<b>10,892</b>	<b>18,203</b>	<b>29,095</b>	<b>519</b>	<b>357</b>	<b>876</b>	<b>586,543</b>
<b>2020</b>									
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
<b>Total</b>	<b>435,827</b>	<b>14,414</b>	<b>9,453</b>	<b>16,207</b>	<b>25,660</b>	<b>473</b>	<b>320</b>	<b>793</b>	<b>476,693</b>
<b>2021</b>									
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
<b>Total</b>	<b>501,435</b>	<b>17,589</b>	<b>9,700</b>	<b>16,145</b>	<b>25,845</b>	<b>534</b>	<b>277</b>	<b>811</b>	<b>545,679</b>
<b>2022</b>									
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
<b>Total</b>	<b>469,938</b>	<b>16,009</b>	<b>10,138</b>	<b>15,753</b>	<b>25,891</b>	<b>508</b>	<b>292</b>	<b>800</b>	<b>512,638</b>
<b>2023</b>									
January - March	89,783	4,025	2,430	3,835	6,265	115	116	231	100,305
<b>Total</b>	<b>89,783</b>	<b>4,025</b>	<b>2,430</b>	<b>3,835</b>	<b>6,265</b>	<b>115</b>	<b>116</b>	<b>231</b>	<b>100,305</b>
<b>2022 January - March</b>	<b>122,656</b>	<b>4,153</b>	<b>2,580</b>	<b>4,102</b>	<b>6,682</b>	<b>122</b>	<b>122</b>	<b>244</b>	<b>133,735</b>
<b>2021 January - March</b>	<b>127,648</b>	<b>4,361</b>	<b>2,486</b>	<b>4,094</b>	<b>6,579</b>	<b>167</b>	<b>105</b>	<b>272</b>	<b>138,861</b>

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	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
Middle Atlantic	1,390	1,361	1,366	1,390	1,366	1.8
East North Central	2,306	2,283	2,261	2,306	2,261	2.0
South Atlantic	200	203	357	200	357	-44.1
East South Central	130	129	169	130	169	-23.2
<b>U.S. Total</b>	<b>4,025</b>	<b>3,975</b>	<b>4,153</b>	<b>4,025</b>	<b>4,153</b>	<b>-3.1</b>

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	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Middle Atlantic</b>	<b>214</b>	<b>176</b>	<b>150</b>	<b>214</b>	<b>150</b>	<b>43.1</b>
New York	105	72	23	105	23	352.1
Pennsylvania	110	104	127	110	127	-13.5
<b>East North Central</b>	<b>1,034</b>	<b>1,004</b>	<b>1,102</b>	<b>1,034</b>	<b>1,102</b>	<b>-6.2</b>
Illinois	455	441	476	455	476	-4.4
Indiana	319	309	280	319	280	14.1
Michigan	75	74	92	75	92	-18.7
Ohio	95	82	108	95	108	-11.8
Wisconsin	90	98	146	90	146	-38.6
<b>West North Central</b>	<b>2,827</b>	<b>2,690</b>	<b>3,021</b>	<b>2,827</b>	<b>3,021</b>	<b>-6.4</b>
Iowa	532	557	562	532	562	-5.4
Kansas	28	25	16	28	16	80.7
Minnesota	332	260	269	332	269	23.3
Missouri	180	204	160	180	160	12.4
Nebraska	247	232	267	247	267	-7.5
North Dakota	1,440	1,344	1,689	1,440	1,689	-14.8
South Dakota	68	68	57	68	57	19.1
<b>South Atlantic</b>	<b>409</b>	<b>490</b>	<b>485</b>	<b>409</b>	<b>485</b>	<b>-15.6</b>
Florida	27	38	53	27	53	-49.0
Georgia	53	56	82	53	82	-35.0
Maryland	66	114	76	66	76	-12.1
North Carolina	83	96	107	83	107	-22.5
South Carolina	25	28	19	25	19	37.0
Virginia	101	99	94	101	94	7.2
West Virginia	54	60	55	54	55	-2.2
<b>East South Central</b>	<b>613</b>	<b>629</b>	<b>636</b>	<b>613</b>	<b>636</b>	<b>-3.5</b>
Alabama	119	156	160	119	160	-25.3
Kentucky	179	190	196	179	196	-8.5
Mississippi	20	18	17	20	17	16.3
Tennessee	294	265	262	294	262	12.2
<b>West South Central</b>	<b>201</b>	<b>205</b>	<b>257</b>	<b>201</b>	<b>257</b>	<b>-21.8</b>
Arkansas	37	35	31	37	31	19.8
Louisiana	76	82	85	76	85	-10.8
Oklahoma	38	29	65	38	65	-42.0
Texas	51	59	77	51	77	-33.9
<b>Mountain</b>	<b>605</b>	<b>727</b>	<b>678</b>	<b>605</b>	<b>678</b>	<b>-10.8</b>
Arizona	61	60	73	61	73	-15.5
Colorado	30	42	26	30	26	15.3
Idaho	21	26	33	21	33	-35.6
Montana	52	98	65	52	65	-19.8
Nevada	46	43	57	46	57	-19.1
New Mexico	13	18	15	13	15	-10.2
Utah	64	85	52	64	52	21.9
Wyoming	318	355	358	318	358	-11.2
<b>Pacific</b>	<b>360</b>	<b>417</b>	<b>354</b>	<b>360</b>	<b>354</b>	<b>1.8</b>
Alaska	s	s	s	s	s	s
California	328	377	315	328	315	4.0
Oregon	10	21	15	10	15	-35.9
Washington	22	18	23	22	23	-4.3
<b>U.S. Total</b>	<b>6,265</b>	<b>6,336</b>	<b>6,682</b>	<b>6,265</b>	<b>6,682</b>	<b>-6.2</b>

- = 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 &amp; 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		January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
					2023	2022	
311	Food Manufacturing	1,875	1,683	1,766	1,875	1,766	6.1
312	Beverage and Tobacco Product Mfg.	3	3	3	3	3	12.3
313	Textile Mills	2	1	5	2	5	-50.1
322	Paper Manufacturing	328	331	443	328	443	-26.0
324	Petroleum and Coal Products	1,140	1,161	1,531	1,140	1,531	-25.6
325	Chemical Manufacturing	758	738	735	758	735	3.0
327	Nonmetallic Mineral Products Mfg.	1,621	1,856	1,644	1,621	1,644	-1.4
331	Primary Metal Manufacturing	302	250	266	302	266	13.7
333	Machinery Manufacturing	10	17	20	10	20	-50.2
339	Miscellaneous Manufacturing	226	295	269	226	269	-15.9
<b>U.S. Total</b>		<b>6,265</b>	<b>6,336</b>	<b>6,682</b>	<b>6,265</b>	<b>6,682</b>	<b>-6.2</b>

\* 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	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Middle Atlantic</b>	<b>1</b>	<b>s</b>	<b>2</b>	<b>1</b>	<b>2</b>	<b>-45.1</b>
Pennsylvania	1	s	2	1	2	-45.1
<b>East North Central</b>	<b>40</b>	<b>25</b>	<b>48</b>	<b>40</b>	<b>48</b>	<b>-18.3</b>
Illinois	29	15	25	29	25	16.3
Indiana	11	9	24	11	24	-54.2
<b>West North Central</b>	<b>27</b>	<b>40</b>	<b>41</b>	<b>27</b>	<b>41</b>	<b>-35.0</b>
Iowa	14	29	24	14	24	-40.3
Minnesota	2	1	3	2	3	-26.8
Missouri	3	3	5	3	5	-49.0
North Dakota	8	6	10	8	10	-17.4
<b>South Atlantic</b>	<b>15</b>	<b>18</b>	<b>17</b>	<b>15</b>	<b>17</b>	<b>-12.0</b>
North Carolina	9	14	14	9	14	-34.9
Virginia	6	4	3	6	3	82.4
<b>East South Central</b>	<b>-</b>	<b>-</b>	<b>1</b>	<b>-</b>	<b>1</b>	<b>-</b>
Kentucky	-	-	1	-	1	-
<b>Mountain</b>	<b>1</b>	<b>4</b>	<b>6</b>	<b>1</b>	<b>6</b>	<b>-89.3</b>
Colorado	-	s	s	-	s	-
Montana	s	1	1	s	1	-60.0
Wyoming	s	3	5	s	5	-93.1
<b>Pacific</b>	<b>148</b>	<b>149</b>	<b>128</b>	<b>148</b>	<b>128</b>	<b>15.5</b>
Alaska	148	149	128	148	128	15.5
<b>U.S. Total</b>	<b>231</b>	<b>236</b>	<b>244</b>	<b>231</b>	<b>244</b>	<b>-5.1</b>

- = 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 &amp; Institutional Coal Users.'

## Stocks

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**Table 37. U.S. coal stocks, 2017 - 2023**

(thousand short tons)

Last day of quarter	Coal consumers				Total	Coal producers and distributors	Total
	Electric power sector <sup>1</sup>	Coke plants	Other industrial <sup>2</sup>	Commercial and institutional users			
<b>2017</b>							
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
<b>2018</b>							
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
<b>2019</b>							
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
<b>2020</b>							
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
<b>2021</b>							
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
<b>2022</b>							
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
<b>2023</b>							
March 31	110,073	1,650	2,451	162	114,336	19,753*	134,089

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)

<b>Census division</b>	<b>March 31, 2023</b>	<b>December 31, 2022</b>	<b>March 31, 2022</b>	<b>Percent change (March 31) 2023 versus 2022</b>
Middle Atlantic	538	496	567	-5.2
East North Central	914	932	764	19.6
South Atlantic	79	71	159	-50.3
East South Central	119	128	99	20.3
<b>U.S. Total</b>	<b>1,650</b>	<b>1,627</b>	<b>1,590</b>	<b>3.8</b>

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 &amp; 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	March 31, 2023	December 31, 2022	March 31, 2022	Percent change (March 31) 2023 versus 2022
<b>Middle Atlantic</b>	<b>186</b>	<b>206</b>	<b>207</b>	<b>-10.3</b>
New York	37	56	61	-39.1
Pennsylvania	148	150	146	1.7
<b>East North Central</b>	<b>369</b>	<b>472</b>	<b>389</b>	<b>-5.2</b>
Illinois	20	48	46	-57.8
Indiana	188	217	159	18.3
Michigan	87	106	86	1.3
Ohio	26	20	22	18.9
Wisconsin	48	80	76	-36.9
<b>West North Central</b>	<b>567</b>	<b>528</b>	<b>505</b>	<b>12.3</b>
Iowa	167	141	139	20.5
Kansas	14	11	14	-4.0
Minnesota	45	24	44	1.7
Missouri	103	77	66	55.8
Nebraska	33	35	55	-39.6
North Dakota	171	202	151	13.5
South Dakota	35	37	37	-5.5
<b>South Atlantic</b>	<b>349</b>	<b>310</b>	<b>275</b>	<b>26.7</b>
Florida	58	43	44	30.0
Georgia	53	45	26	104.3
Maryland	29	33	11	157.8
North Carolina	88	81	65	36.0
South Carolina	45	37	50	-9.9
Virginia	57	48	57	-0.3
West Virginia	20	23	22	-10.2
<b>East South Central</b>	<b>233</b>	<b>242</b>	<b>192</b>	<b>21.7</b>
Alabama	73	63	75	-2.4
Kentucky	66	62	51	29.4
Mississippi	5	5	2	196.0
Tennessee	89	112	64	39.6
<b>West South Central</b>	<b>303</b>	<b>236</b>	<b>253</b>	<b>19.9</b>
Arkansas	33	26	32	3.3
Louisiana	4	2	4	9.4
Oklahoma	154	110	108	42.2
Texas	111	98	108	2.9
<b>Mountain</b>	<b>340</b>	<b>378</b>	<b>437</b>	<b>-22.2</b>
Arizona	17	16	26	-34.5
Colorado	31	18	25	25.8
Idaho	135	140	148	-8.9
Montana	19	24	22	-13.1
Nevada	38	45	30	26.4
New Mexico	3	2	2	26.8
Utah	48	52	65	-26.9
Wyoming	49	80	119	-58.3
<b>Pacific</b>	<b>104</b>	<b>127</b>	<b>145</b>	<b>-28.0</b>
California	94	107	136	-31.0
Oregon	7	16	6	3.6
Washington	4	4	3	47.8
<b>U.S. Total</b>	<b>2,451</b>	<b>2,499</b>	<b>2,402</b>	<b>2.0</b>

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 &amp; 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	March 31, 2023	December 31, 2022	March 31, 2022	Percent change (March 31) 2023 versus 2022
311 Food Manufacturing	430	491	470	-8.4
312 Beverage and Tobacco Product Mfg.	1	1	1	144.3
313 Textile Mills	8	10	8	-8.4
322 Paper Manufacturing	236	195	199	18.1
324 Petroleum and Coal Products	196	179	156	25.1
325 Chemical Manufacturing	129	167	141	-8.2
327 Nonmetallic Mineral Products Mfg.	1,236	1,185	1,153	7.2
331 Primary Metal Manufacturing	117	154	97	20.1
333 Machinery Manufacturing	25	10	28	-10.8
339 Miscellaneous Manufacturing	74	108	150	-50.4
<b>U.S. Total</b>	<b>2,451</b>	<b>2,499</b>	<b>2,402</b>	<b>2.0</b>

\* 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 &amp; Institutional Coal Users.'

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

(thousand short tons)

Census division	March 31, 2023	December 31, 2022	March 31, 2022	Percent change (March 31) 2023 versus 2022
Middle Atlantic	140	68	13	NM
East North Central	246	222	417	-41.0
South Atlantic	28	30	62	-55.2
East South Central	26	36	31	-15.4
<b>U.S. Total</b>	<b>439</b>	<b>357</b>	<b>522</b>	<b>-15.9</b>
<b>Coke Total</b>	<b>374</b>	<b>301</b>	<b>419</b>	<b>-10.8</b>
<b>Breeze Total</b>	<b>65</b>	<b>56</b>	<b>103</b>	<b>-36.8</b>

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

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

Source: U.S. Energy Information Administration (EIA), Form EIA-3, 'Quarterly Survey of Industrial, Commercial &amp; 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	March 31, 2023	December 31, 2022	March 31, 2022	Percent change (March 31) 2023 versus 2022
<b>Middle Atlantic</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>0.9</b>
Pennsylvania	20	20	20	0.9
<b>East North Central</b>	<b>26</b>	<b>24</b>	<b>25</b>	<b>3.9</b>
Illinois	25	21	22	11.3
Indiana	2	3	3	-46.2
<b>West North Central</b>	<b>17</b>	<b>17</b>	<b>21</b>	<b>-15.6</b>
Iowa	7	5	12	-38.7
Minnesota	6	6	7	-21.2
Missouri	-	1	-	-
North Dakota	4	5	1	201.9
<b>South Atlantic</b>	<b>41</b>	<b>40</b>	<b>35</b>	<b>18.1</b>
District of Columbia	3	3	3	s
North Carolina	29	30	22	31.6
Virginia	9	8	10	-7.6
<b>East South Central</b>	<b>4</b>	<b>4</b>	<b>4</b>	<b>1.2</b>
Kentucky	4	4	4	1.2
<b>Mountain</b>	<b>2</b>	<b>2</b>	<b>3</b>	<b>-15.8</b>
Colorado	s	s	s	-4.1
Montana	2	2	2	-19.6
Wyoming	s	s	s	s
<b>Pacific</b>	<b>51</b>	<b>59</b>	<b>50</b>	<b>2.0</b>
Alaska	51	59	50	2.0
<b>U.S. Total</b>	<b>162</b>	<b>167</b>	<b>157</b>	<b>3.1</b>

- = 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 &amp; Institutional Coal Users.'

## Quality

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

Census division and state <sup>1</sup>	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Middle Atlantic</b>						
Btu	14,195	14,238	14,209	14,195	14,209	-0.1
Sulfur	1.14	1.11	1.09	1.14	1.09	4.8
Ash	7.32	7.32	7.32	7.32	7.32	0.1
<b>New York</b>						
Btu	12,716	12,679	12,716	12,716	12,716	s
Sulfur	2.26	2.20	2.26	2.26	2.26	s
Ash	9.30	9.57	9.53	9.30	9.53	-2.4
<b>Pennsylvania</b>						
Btu	14,277	14,317	14,234	14,277	14,234	0.3
Sulfur	1.07	1.05	1.07	1.07	1.07	0.8
Ash	7.21	7.21	7.28	7.21	7.28	-1.0
<b>East North Central</b>						
Btu	13,568	13,469	13,467	13,568	13,467	0.7
Sulfur	1.10	1.16	1.28	1.10	1.28	-14.3
Ash	7.10	7.42	7.49	7.10	7.49	-5.3
<b>Illinois</b>						
Btu	11,710	11,977	12,040	11,710	12,040	-2.7
Sulfur	1.79	2.14	2.47	1.79	2.47	-27.7
Ash	7.03	7.43	7.63	7.03	7.63	-8.0
<b>Indiana</b>						
Btu	14,199	13,858	14,176	14,199	14,176	0.2
Sulfur	0.91	0.96	0.88	0.91	0.88	4.2
Ash	6.82	7.36	7.49	6.82	7.49	-9.0
<b>Michigan</b>						
Btu	13,835	14,014	12,847	13,835	12,847	7.7
Sulfur	0.71	0.72	0.76	0.71	0.76	-6.7
Ash	7.30	7.45	7.90	7.30	7.90	-7.6
<b>Ohio</b>						
Btu	14,218	14,195	14,208	14,218	14,208	0.1
Sulfur	1.02	1.05	1.01	1.02	1.01	0.6
Ash	7.44	7.59	7.36	7.44	7.36	1.0
<b>Wisconsin</b>						
Btu	10,350	11,040	10,763	10,350	10,763	-3.8
Sulfur	0.55	0.61	0.98	0.55	0.98	-44.0
Ash	7.65	6.62	6.96	7.65	6.96	9.9
<b>West North Central</b>						
Btu	8,390	8,380	8,130	8,390	8,130	3.2
Sulfur	0.66	0.79	0.75	0.66	0.75	-11.9
Ash	5.74	6.48	6.33	5.74	6.33	-9.4
<b>Iowa</b>						
Btu	8,868	9,122	8,877	8,868	8,877	-0.1
Sulfur	0.40	0.69	0.39	0.40	0.39	3.5
Ash	5.14	5.58	4.85	5.14	4.85	6.2
<b>Kansas</b>						
Btu	10,884	11,083	10,470	10,884	10,470	4.0
Sulfur	2.32	2.15	2.09	2.32	2.09	11.1
Ash	11.69	10.85	13.18	11.69	13.18	-11.3
<b>Minnesota</b>						
Btu	9,293	9,312	9,344	9,293	9,344	-0.5
Sulfur	0.34	0.35	0.36	0.34	0.36	-6.1
Ash	4.24	4.25	4.21	4.24	4.21	0.8
<b>Missouri</b>						
Btu	11,149	11,216	11,173	11,149	11,173	-0.2
Sulfur	1.58	2.19	2.10	1.58	2.10	-24.6
Ash	8.91	8.67	8.67	8.91	8.67	2.7
<b>Nebraska</b>						

Census division and state¹	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
Btu	8,812	8,845	8,743	8,812	8,743	0.8
Sulfur	0.30	0.29	0.22	0.30	0.22	36.1
Ash	5.01	5.04	4.55	5.01	4.55	10.1
<b>North Dakota</b>						
Btu	7,455	7,321	7,186	7,455	7,186	3.7
Sulfur	0.75	0.77	0.87	0.75	0.87	-14.0
Ash	5.89	7.16	7.17	5.89	7.17	-17.9
<b>South Dakota</b>						
Btu	8,014	8,008	8,019	8,014	8,019	-0.1
Sulfur	0.35	0.34	0.35	0.35	0.35	-1.0
Ash	5.31	4.52	5.07	5.31	5.07	4.7
<b>South Atlantic</b>						
Btu	13,280	13,033	13,430	13,280	13,430	-1.1
Sulfur	1.16	1.20	1.10	1.16	1.10	5.1
Ash	9.88	10.68	9.02	9.88	9.02	9.5
<b>Florida</b>						
Btu	11,709	11,255	12,274	11,709	12,274	-4.6
Sulfur	2.02	2.37	2.47	2.02	2.47	-18.3
Ash	9.23	10.15	10.44	9.23	10.44	-11.6
<b>Georgia</b>						
Btu	12,329	12,670	12,399	12,329	12,399	-0.6
Sulfur	1.17	0.93	0.96	1.17	0.96	22.7
Ash	11.76	7.98	10.64	11.76	10.64	10.5
<b>Maryland</b>						
Btu	11,187	11,177	11,903	11,187	11,903	-6.0
Sulfur	1.75	1.48	1.34	1.75	1.34	31.1
Ash	25.04	21.76	18.69	25.04	18.69	34.0
<b>North Carolina</b>						
Btu	13,539	13,384	13,568	13,539	13,568	-0.2
Sulfur	0.90	1.25	0.92	0.90	0.92	-2.7
Ash	7.93	8.19	7.74	7.93	7.74	2.5
<b>South Carolina</b>						
Btu	13,137	13,001	12,691	13,137	12,691	3.5
Sulfur	1.20	1.34	1.73	1.20	1.73	-30.8
Ash	8.32	9.89	8.72	8.32	8.72	-4.6
<b>Virginia</b>						
Btu	13,991	13,986	14,007	13,991	14,007	-0.1
Sulfur	1.01	0.98	0.84	1.01	0.84	20.4
Ash	7.49	7.61	7.43	7.49	7.43	0.7
<b>West Virginia</b>						
Btu	13,412	12,942	13,865	13,412	13,865	-3.3
Sulfur	1.17	1.14	1.21	1.17	1.21	-3.3
Ash	7.76	10.44	7.37	7.76	7.37	5.3
<b>East South Central</b>						
Btu	13,296	13,391	13,152	13,296	13,152	1.1
Sulfur	1.21	1.31	1.36	1.21	1.36	-11.0
Ash	7.42	7.46	7.79	7.42	7.79	-4.8
<b>Alabama</b>						
Btu	13,801	13,857	13,533	13,801	13,533	2.0
Sulfur	1.12	1.06	1.18	1.12	1.18	-5.6
Ash	7.16	8.06	8.41	7.16	8.41	-14.8
<b>Kentucky</b>						
Btu	12,849	13,323	12,658	12,849	12,658	1.5
Sulfur	1.06	1.46	1.33	1.06	1.33	-20.2
Ash	7.43	7.16	7.86	7.43	7.86	-5.4
<b>Mississippi</b>						
Btu	14,720	14,763	14,677	14,720	14,677	0.3
Sulfur	0.80	0.81	0.73	0.80	0.73	10.3
Ash	3.47	3.40	3.80	3.47	3.80	-8.5
<b>Tennessee</b>						
Btu	13,038	12,912	12,958	13,038	12,958	0.6

Census division and state¹	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
Sulfur	1.42	1.48	1.63	1.42	1.63	-13.3
Ash	7.90	7.31	7.21	7.90	7.21	9.7
<b>West South Central</b>						
Btu	10,105	9,932	9,942	10,105	9,942	1.6
Sulfur	0.67	0.70	0.60	0.67	0.60	11.6
Ash	8.18	8.46	7.63	8.18	7.63	7.2
<b>Arkansas</b>						
Btu	11,783	11,201	11,358	11,783	11,358	3.7
Sulfur	1.29	1.43	1.03	1.29	1.03	25.4
Ash	9.54	10.27	8.85	9.54	8.85	7.7
<b>Louisiana</b>						
Btu	7,489	7,489	7,489	7,489	7,489	s
Sulfur	0.50	0.58	0.55	0.50	0.55	-9.1
Ash	6.65	6.42	7.68	6.65	7.68	-13.4
<b>Oklahoma</b>						
Btu	10,530	10,826	10,239	10,530	10,239	2.8
Sulfur	0.55	0.56	0.56	0.55	0.56	-2.5
Ash	7.34	6.30	6.83	7.34	6.83	7.6
<b>Texas</b>						
Btu	11,456	11,584	11,633	11,456	11,633	-1.5
Sulfur	0.60	0.57	0.50	0.60	0.50	20.2
Ash	9.99	11.15	7.94	9.99	7.94	25.8
<b>Mountain</b>						
Btu	10,570	10,321	10,614	10,570	10,614	-0.4
Sulfur	0.52	0.53	0.46	0.52	0.46	12.9
Ash	6.62	6.39	6.63	6.62	6.63	-0.2
<b>Arizona</b>						
Btu	11,129	11,331	11,744	11,129	11,744	-5.2
Sulfur	0.60	0.65	0.63	0.60	0.63	-5.3
Ash	9.52	10.00	8.61	9.52	8.61	10.6
<b>Colorado</b>						
Btu	11,716	11,653	11,870	11,716	11,870	-1.3
Sulfur	0.52	0.71	0.55	0.52	0.55	-6.0
Ash	9.82	8.87	8.10	9.82	8.10	21.3
<b>Idaho</b>						
Btu	11,280	12,168	12,849	11,280	12,849	-12.2
Sulfur	0.46	0.52	0.53	0.46	0.53	-12.6
Ash	10.56	9.66	8.20	10.56	8.20	28.7
<b>Montana</b>						
Btu	9,546	8,554	8,831	9,546	8,831	8.1
Sulfur	0.35	0.35	0.29	0.35	0.29	19.9
Ash	5.17	5.01	5.01	5.17	5.01	3.2
<b>Nevada</b>						
Btu	11,457	11,597	11,603	11,457	11,603	-1.3
Sulfur	0.47	0.48	0.44	0.47	0.44	5.4
Ash	9.42	10.03	10.49	9.42	10.49	-10.2
<b>New Mexico</b>						
Btu	11,973	11,928	12,361	11,973	12,361	-3.1
Sulfur	0.74	0.83	0.65	0.74	0.65	13.8
Ash	12.48	12.38	9.45	12.48	9.45	32.1
<b>Utah</b>						
Btu	11,376	11,379	11,718	11,376	11,718	-2.9
Sulfur	0.46	0.45	0.45	0.46	0.45	1.6
Ash	9.78	9.19	11.06	9.78	11.06	-11.5
<b>Wyoming</b>						
Btu	10,083	9,809	9,989	10,083	9,989	0.9
Sulfur	0.55	0.54	0.45	0.55	0.45	23.7
Ash	4.35	4.08	4.46	4.35	4.46	-2.5
<b>Pacific</b>						
Btu	11,169	11,125	11,339	11,169	11,339	-1.5
Sulfur	0.44	0.45	0.38	0.44	0.38	13.9

Census division and state <sup>1</sup>	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
Ash	8.10	8.35	8.40	8.10	8.40	-3.6
<b>California</b>						
Btu	11,298	11,206	11,449	11,298	11,449	-1.3
Sulfur	0.45	0.46	0.39	0.45	0.39	15.2
Ash	8.34	8.43	8.56	8.34	8.56	-2.5
<b>Oregon</b>						
Btu	12,237	10,864	11,463	12,237	11,463	6.8
Sulfur	0.35	0.32	0.33	0.35	0.33	6.1
Ash	8.09	10.45	10.37	8.09	10.37	-22.0
<b>Washington</b>						
Btu	9,317	9,340	9,436	9,317	9,436	-1.3
Sulfur	0.30	0.33	0.36	0.30	0.36	-16.7
Ash	4.67	5.01	4.42	4.67	4.42	5.7
<b>U.S. Total</b>						
Btu	11,845	11,872	11,711	11,845	11,711	1.1
Sulfur	0.93	1.00	0.99	0.93	0.99	-6.7
Ash	6.98	7.37	7.26	6.98	7.26	-3.8

<sup>1</sup> 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 <sup>1</sup>	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
<b>Middle Atlantic</b>						
Btu	12,171	12,757	13,047	12,171	13,047	-6.7
Sulfur	0.60	0.64	0.72	0.60	0.72	-16.8
Ash	8.63	6.35	5.57	8.63	5.57	55.1
<b>Pennsylvania</b>						
Btu	12,171	12,757	13,047	12,171	13,047	-6.7
Sulfur	0.60	0.64	0.72	0.60	0.72	-16.8
Ash	8.63	6.35	5.57	8.63	5.57	55.1
<b>East North Central</b>						
Btu	11,169	11,046	11,220	11,169	11,220	-0.5
Sulfur	2.91	2.99	2.85	2.91	2.85	2.4
Ash	9.83	10.40	9.63	9.83	9.63	2.1
<b>Illinois</b>						
Btu	11,142	11,044	11,150	11,142	11,150	-0.1
Sulfur	3.05	3.04	3.24	3.05	3.24	-6.1
Ash	9.84	10.46	9.64	9.84	9.64	2.0
<b>Indiana</b>						
Btu	11,255	11,050	11,298	11,255	11,298	-0.4
Sulfur	2.49	2.88	2.41	2.49	2.41	3.5
Ash	9.81	10.28	9.61	9.81	9.61	2.1
<b>West North Central</b>						
Btu	10,336	10,657	10,619	10,336	10,619	-2.7
Sulfur	1.49	2.34	2.12	1.49	2.12	-29.4
Ash	6.60	8.84	7.50	6.60	7.50	-12.1
<b>Iowa</b>						
Btu	11,196	10,941	11,212	11,196	11,212	-0.1
Sulfur	2.31	2.74	2.75	2.31	2.75	-16.2
Ash	7.89	9.39	8.48	7.89	8.48	-7.0
<b>Minnesota</b>						
Btu	9,503	9,323	8,711	9,503	8,711	9.1
Sulfur	0.32	0.33	0.28	0.32	0.28	15.3
Ash	4.19	4.70	4.71	4.19	4.71	-11.1
<b>Missouri</b>						
Btu	11,320	11,419	11,427	11,320	11,427	-0.9
Sulfur	3.09	3.00	3.02	3.09	3.02	2.3
Ash	8.60	9.37	8.73	8.60	8.73	-1.5
<b>North Dakota</b>						
Btu	9,178	9,011	9,246	9,178	9,246	-0.7
Sulfur	0.31	0.34	0.43	0.31	0.43	-27.9
Ash	4.95	6.75	5.02	4.95	5.02	-1.4
<b>South Atlantic</b>						
Btu	12,737	12,992	12,886	12,737	12,886	-1.2
Sulfur	1.12	1.33	1.42	1.12	1.42	-21.0
Ash	7.54	8.21	7.70	7.54	7.70	-2.1
<b>North Carolina</b>						
Btu	12,952	12,926	12,563	12,952	12,563	3.1
Sulfur	1.35	1.42	1.75	1.35	1.75	-22.9
Ash	9.40	8.61	8.56	9.40	8.56	9.9
<b>Virginia</b>						
Btu	12,484	13,405	13,376	12,484	13,376	-6.7
Sulfur	0.86	0.75	0.92	0.86	0.92	-6.8
Ash	5.36	5.71	6.39	5.36	6.39	-16.2
<b>East South Central</b>						
Btu	-	-	13,150	-	13,150	-
Sulfur	-	-	0.56	-	0.56	-
Ash	-	-	4.29	-	4.29	-
<b>Kentucky</b>						

Census division and state <sup>1</sup>	January - March 2023	October - December 2022	January - March 2022	Year to date		Percent change
				2023	2022	
Btu	-	-	13,150	-	13,150	-
Sulfur	-	-	0.56	-	0.56	-
Ash	-	-	4.29	-	4.29	-
<b>Mountain</b>						
Btu	11,465	11,171	11,594	11,465	11,594	-1.1
Sulfur	0.45	0.53	0.45	0.45	0.45	s
Ash	11.70	12.08	10.60	11.70	10.60	10.4
<b>Montana</b>						
Btu	-	10,689	-	-	-	-
Sulfur	-	0.74	-	-	-	-
Ash	-	10.67	-	-	-	-
<b>Wyoming</b>						
Btu	11,465	11,348	11,594	11,465	11,594	-1.1
Sulfur	0.45	0.45	0.45	0.45	0.45	s
Ash	11.70	12.60	10.60	11.70	10.60	10.4
<b>Pacific</b>						
Btu	7,603	7,704	7,550	7,603	7,550	0.7
Sulfur	0.12	0.20	0.13	0.12	0.13	-9.0
Ash	5.33	6.43	5.78	5.33	5.78	-7.8
<b>Alaska</b>						
Btu	7,603	7,704	7,550	7,603	7,550	0.7
Sulfur	0.12	0.20	0.13	0.12	0.13	-9.0
Ash	5.33	6.43	5.78	5.33	5.78	-7.8
<b>U.S. Total</b>						
Btu	8,883	9,129	9,177	8,883	9,177	-3.2
Sulfur	0.82	0.96	1.10	0.82	1.10	-25.5
Ash	6.44	7.53	7.08	6.44	7.08	-9.0

<sup>1</sup> 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.'