



Annual Coal Report 2024

November 2025

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Contacts

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Preface

The *Annual Coal Report* provides information about U.S. coal production, number of mines, productive capacity, recoverable reserves, employment, productivity, consumption, stocks, and prices to a wide audience, including Congress, federal and state agencies, the coal industry, and the general public. 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.

Coal production, number of mines, employment, and productivity are based on the U.S. Department of Labor's Mine Safety and Health Administration's Form 7000-2, *Quarterly Mine Employment and Coal Production Report*. Productive capacity, recoverable reserves, and prices are based on our Form EIA-7A, *Annual Survey of Coal Production and Preparation*. Consumption and stocks are based on our survey forms.

This report is our 49th annual report on the coal industry, and it continues the series formerly included in the *Minerals Yearbook*, which the U.S. Bureau of Mines previously published. All data for 2024 and previous years are final.

The Office of Energy Production, Conversion, and Delivery acknowledges the cooperation of the respondents who supplied the information published in the *Annual Coal Report*, and we appreciate the valuable assistance of state coal mining agencies and the U.S. Department of Labor, Mine Safety and Health Administration.

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Executive Summary

Production

In 2024, U.S. coal production decreased 11.3% to 512.5 million short tons (MMst) from 2023, and the number of producing mines decreased to 524 mines from 560 mines in 2023. Coal production in basins east of the Mississippi River decreased 6.8%, and production decreased 14.8% in basins west of the Mississippi River.

The Appalachian region's coal production in 2024 was 157.7 MMst, a decrease of 4.7% from 2023. West Virginia's production decreased 5.9% to 79.5 MMst, Eastern Kentucky's production decreased 16.8% to 10.3 MMst, and Pennsylvania's production decreased 4.8% to 40.6 MMst.

Coal production in the Interior region was 83.1 MMst, a decrease of 11.1% from 2023. Production in Indiana decreased 15.3% to 20.1 MMst, production in Illinois decreased 7.2% to 34.2 MMst, and production in Western Kentucky decreased 12.3% to 14.0 MMst. Production in the rest of the Interior region decreased 12.9% to 14.8 MMst.

Coal production in the Western region in 2024 decreased 14.9% to 271.1 MMst. Production in Wyoming, the largest coal-producing state in the region, decreased by 19.6% to 190.7 MMst. Other large producing states in this region include North Dakota, where production increased by 5.5% to 25.4 MMst; Colorado, where production increased by 0.2% to 12.4 MMst; and Montana, where production decreased by 7.2% to 27.0 MMst.

Disposition of coal during 2024 totaled 522.3 MMst, of which 450.8 MMst was marketed as thermal coal and 71.5 MMst was marketed as metallurgical coal. Of the metallurgical coal dispositions, 51.7 MMst was exported, and 14.9 MMst was sold to domestic customers.

Productive capacity

Productive capacity is the maximum amount of coal that can be produced annually as reported by mining companies. In 2024, the collective productive capacity of U.S. coal mines decreased 1.7% to 832.8 MMst. States with a decrease in reported productive capacity include Ohio (-17.9% to 2.5 MMst) and Texas (-16.9% to 14.4 MMst). Major producing states that reported an increase in productive capacity include New Mexico (75.7% to 18.6 MMst), Alabama (60.1% to 24 MMst), and Maryland (21.3% to 1.9MMst).

The overall capacity utilization across all mines decreased to 61.2% in 2024 from 67.8% in 2023. Capacity utilization is measured as the ratio of annual production to the annual productive capacity of mines.

Recoverable reserves

Total U.S. recoverable coal reserves that are technologically and economically feasible to extract as reported by producers fell 5.4% to 10,593 MMst at the end of 2024 from 11,200 MMst at the end of 2023. Although declines were reported for most states, increases were reported for Alabama, New Mexico, and Eastern Kentucky. Recoverable reserves increased in 2024 by 39.6% to 238 MMst in Alabama and rose 11.1% to 31 MMst in New Mexico. Eastern Kentucky 2024 coal reserves rose by 7 short tons (4.6%) to 154 MMst.

Employment

The average number of employees at U.S. coal mines in 2024 decreased from 2023 by 1,416 to 44,060 employees. The average number of employees at underground mines decreased by 400 employees, and average employment at surface mines decreased by 1,114 employees. The average number of employees performing refuse coal recovery in 2024 rose by 98.

Total U.S. productivity as measured by average production per employee hour decreased by 7.6% to 5.22 short tons per employee hour. Average productivity decreased 3.3% to 3.24 tons per employee hour at underground mines and decreased 7.9% to 8.94 tons per employee hour at surface mines during 2024 compared with 2023.

Consumption

U.S. coal consumption in 2024 was 410.9 MMst, a decrease of 3.5% from 2023. Coal consumption in the electric power sector decreased by 13.9 MMst to 373.3 MMst. Coal consumption in the industrial, coke, and commercial and institutional sectors was 37.7 MMst in 2024, a 2.6% decrease from 2023.

Exports

Exports increased by 8.1 MMst in 2024 to 108.3 MMst. Exports to Europe accounted for 22.5% (24.3 MMst) of U.S. exports in 2024. Steam coal exports accounted for 48% (51.7 MMst) of the total, and metallurgical coal accounted for 52% (56.6MMst).

Stocks

U.S. coal stocks in 2024 ended the year at 156.2 MMst, 4.1% less than at the same time in 2023. Stocks in the electric power sector decreased by 5.2 MMst to 128.3 MMst at the end of 2024. Coal stocks held by the other industrial, coke, and commercial sectors, as well as producers and distributors, decreased 1.5 MMst to 28.0 MMst at the end of 2024 compared with the end of 2023.

Sales price

The total average sales price of coal from U.S. mines in 2024 decreased by 2.9% from 2023 to \$52.47 per short ton. The average sales price of thermal coal in 2024 increased by 0.7% from 2023 to \$37.85 per short ton, and the average sales price of metallurgical coal in 2024 decreased by 15.5% from 2023 to \$180.02 per short ton. The average sales price of coal from surface mines increased by 1.2% to \$29.61 per short ton, and the average sales price of coal from underground mines decreased by 9.4% to \$85.88 per short ton. The average sales prices of coal by rank are as follows:

- Average sales price of bituminous coal was \$86.72 per short ton in 2024, a 9.9% decrease from 2023.
- Average sales price of subbituminous coal was \$18.06 per short ton in 2024, a 2.8% increase from 2023.
- Average sales price of lignite coal was \$22.81 per short ton in 2024, a 2.5% increase from 2023.
- Average sales price of anthracite coal was \$156.21 per short ton in 2024, a 5.8% increase from 2023.

Table ES1. Coal Production, 1949-2024

(short tons)

Year	Rank				Mining Method		Location		Total ¹
	Bituminous Coal ¹	Subbituminous Coal	Lignite	Anthracite ¹	Underground	Surface ¹	East of Mississippi River ¹	West of Mississippi River ¹	
1949	437,868,000	-	-	42,702,000	358,854,000	121,716,000	444,199,000	36,371,000	480,570,000
1950	516,311,000	-	-	44,077,000	421,000,000	139,388,000	524,374,000	36,014,000	560,388,000
1951	533,665,000	-	-	42,670,000	442,184,000	134,151,000	541,703,000	34,632,000	576,335,000
1952	466,841,000	-	-	40,583,000	381,173,000	126,251,000	474,755,000	32,669,000	507,424,000
1953	457,290,000	-	-	30,949,000	367,444,000	120,795,000	457,652,000	30,587,000	488,239,000
1954	391,706,000	-	-	29,083,000	305,964,000	114,825,000	395,413,000	25,376,000	420,789,000
1955	464,633,000	-	-	26,205,000	357,964,000	132,874,000	464,218,000	26,620,000	490,838,000
1956	500,874,000	-	-	28,900,000	380,829,000	148,945,000	504,001,000	25,773,000	529,774,000
1957	492,704,000	-	-	25,338,000	373,565,000	144,477,000	493,377,000	24,665,000	518,042,000
1958	410,446,000	-	-	21,171,000	297,583,000	134,034,000	411,315,000	20,302,000	431,617,000
1959	412,028,000	-	-	20,649,000	292,849,000	139,828,000	412,351,000	20,326,000	432,677,000
1960	415,512,000	-	-	18,817,000	292,584,000	141,745,000	413,033,000	21,296,000	434,329,000
1961	402,977,000	-	-	17,446,000	279,551,000	140,872,000	398,642,000	21,781,000	420,423,000
1962	422,149,000	-	-	16,894,000	287,939,000	151,104,000	417,629,000	21,414,000	439,043,000
1963	458,928,000	-	-	18,267,000	308,971,000	168,224,000	453,485,000	23,710,000	477,195,000
1964	486,998,000	-	-	17,184,000	327,697,000	176,485,000	478,494,000	25,688,000	504,182,000
1965	512,088,000	-	-	14,866,000	337,958,000	188,996,000	499,529,000	27,425,000	526,954,000
1966	533,881,000	-	-	12,941,000	342,612,000	204,210,000	518,773,000	28,049,000	546,822,000
1967	552,626,000	-	-	12,256,000	352,391,000	212,491,000	535,973,000	28,909,000	564,882,000
1968	545,245,000	-	-	11,461,000	346,592,000	210,114,000	526,991,000	29,715,000	556,706,000
1969	547,172,000	8,321,000	5,012,000	10,473,000	349,238,000	221,740,000	537,677,000	33,301,000	570,978,000
1970	578,469,000	16,423,000	8,040,000	9,729,000	340,530,000	272,131,000	567,758,000	44,903,000	612,661,000
1971	521,344,000	22,151,000	8,697,000	8,727,000	277,175,000	283,744,000	509,925,000	50,994,000	560,919,000
1972	556,842,000	27,547,000	10,997,000	7,106,000	305,046,000	297,446,000	538,157,000	64,335,000	602,492,000
1973	543,532,000	33,933,000	14,273,000	6,830,000	300,080,000	298,488,000	522,131,000	76,437,000	598,568,000
1974	545,689,000	42,240,000	15,477,000	6,617,000	277,966,000	332,057,000	518,118,000	91,905,000	610,023,000
1975	577,522,000	51,099,000	19,817,000	6,203,000	293,467,000	361,174,000	543,707,000	110,934,000	654,641,000
1976	588,364,000	64,841,000	25,480,000	6,228,000	295,464,000	389,449,000	548,831,000	136,082,000	684,913,000
1977	580,991,000	82,115,000	28,238,000	5,861,000	266,591,000	430,614,000	533,267,000	163,938,000	697,205,000
1978	534,020,000	96,757,000	34,350,000	5,037,000	242,772,000	427,392,000	487,178,000	182,986,000	670,164,000
1979	612,279,000	121,475,000	42,545,000	4,835,000	320,891,000	460,243,000	559,704,000	221,430,000	781,134,000
1980	628,769,000	147,715,000	47,160,000	6,056,000	337,508,000	492,192,000	578,688,000	251,012,000	829,700,000
1981	607,986,000	159,693,000	50,673,000	5,423,000	316,496,000	507,279,000	553,862,000	269,914,000	823,775,000
1982	620,166,000	160,946,000	52,411,000	4,589,000	339,152,000	498,960,000	564,259,000	273,853,000	838,112,000
1983	568,609,000	151,044,000	58,349,000	4,089,000	300,379,000	481,713,000	507,395,000	274,696,000	782,091,000
1984	649,489,000	179,200,000	63,070,000	4,161,735	352,050,000	543,870,000	587,620,000	308,301,000	895,920,767
1985	613,851,000	192,657,000	72,422,000	4,708,375	350,800,000	532,838,000	558,730,000	324,908,000	883,638,117
1986	620,059,000	189,610,000	76,354,000	4,291,951	360,438,000	529,877,000	564,427,000	325,887,000	890,314,708
1987	636,609,000	200,165,000	78,427,000	3,560,459	372,874,000	545,888,000	581,929,000	336,833,000	918,762,162
1988	638,105,000	223,504,000	85,101,000	3,554,509	382,156,000	568,109,000	579,565,000	370,700,000	950,265,278
1989	659,771,000	231,171,000	86,439,000	3,347,996	393,835,000	586,893,000	599,015,000	381,714,000	980,728,790
1990	693,206,000	244,274,000	88,090,000	3,506,247	424,546,000	604,529,000	630,218,000	398,858,000	1,029,075,527
1991	650,700,000	255,325,000	86,514,000	3,445,080	407,225,000	588,759,000	591,294,000	404,690,000	995,983,881
1992	651,842,000	252,158,000	90,062,000	3,482,861	407,239,000	590,306,000	588,575,000	408,970,000	997,544,933
1993	576,652,000	274,901,000	89,549,000	4,322,263	351,053,000	594,371,000	516,219,000	429,205,000	945,424,286
1994	640,260,000	300,517,000	88,081,000	4,646,032	399,103,000	634,401,000	566,289,000	467,216,000	1,033,504,293
1995	613,764,679	327,997,855	86,499,740	4,711,498	396,249,022	636,724,750	544,245,706	488,728,066	1,032,973,772
1996	630,741,292	340,290,580	88,055,815	4,767,826	409,848,871	654,006,642	563,667,655	500,187,858	1,063,855,513
1997	653,827,506	345,071,099	86,341,244	4,691,939	420,657,474	669,274,314	579,369,281	510,562,507	1,089,931,788
1998	640,586,262	385,930,397	85,766,784	5,251,724	417,727,882	699,807,285	570,575,604	546,959,563	1,117,535,167
1999	601,731,551	406,714,233	87,217,912	4,767,752	391,789,870	708,641,558	529,594,228	570,837,200	1,100,431,428
2000	574,275,630	409,203,124	85,560,584	4,572,223	373,658,726	699,952,835	507,517,246	566,094,315	1,073,611,561
2001	611,291,051	434,414,339	80,043,399	1,940,017	380,626,833	747,061,973	528,777,761	598,911,045	1,127,688,806
2002	572,103,243	438,353,294	82,459,406	1,367,118	357,384,967	736,898,094	492,915,076	601,367,985	1,094,283,061
2003	541,475,747	442,618,093	86,366,464	1,292,269	352,784,686	718,967,887	469,246,727	602,505,846	1,071,752,573
2004	561,484,652	465,368,953	83,539,698	1,705,567	367,557,255	744,541,615	484,795,840	627,303,030	1,112,098,870

Year	Rank				Mining Method		Location		Total ¹
	Bituminous Coal ¹	Subbituminous Coal	Lignite	Anthracite ¹	Underground	Surface ¹	East of Mississippi River ¹	West of Mississippi River ¹	
2005	571,177,133	474,675,461	83,941,728	1,703,777	368,611,500	762,886,599	493,801,042	637,697,057	1,131,498,099
2006	561,631,018	515,332,638	84,248,267	1,537,736	359,021,815	803,727,844	490,797,869	671,951,790	1,162,749,659
2007	542,757,594	523,724,347	78,584,915	1,568,489	351,789,934	794,845,411	478,161,383	668,473,962	1,146,635,345
2008	555,267,210	539,145,383	75,683,638	1,712,438	357,079,371	814,729,298	493,342,095	678,466,574	1,171,808,669
2009	504,101,778	496,421,871	72,478,549	1,921,194	332,061,582	742,861,810	449,593,554	625,329,838	1,074,923,392
2010	489,532,051	514,829,513	78,230,494	1,776,090	337,154,614	747,213,534	446,196,808	638,171,340	1,084,368,148
2011	525,995,943	486,295,739	81,101,129	2,234,725	345,605,509	750,022,027	456,446,210	639,181,326	1,095,627,536
2012	485,363,301	449,799,910	78,927,292	2,367,915	342,386,637	674,071,781	423,475,610	592,982,808	1,016,458,418
2013	471,182,631	434,287,168	77,228,703	2,143,277	341,684,553	643,157,226	407,340,833	577,500,946	984,841,779
2014	479,990,818	438,623,717	79,487,116	1,947,107	354,703,991	645,344,767	409,520,451	590,528,307	1,000,048,758
2015	404,426,770	419,514,932	70,857,085	2,141,776	306,821,302	590,119,261	348,977,735	547,962,828	896,940,563
2016	325,147,260	330,242,617	71,309,951	1,664,670	252,106,254	476,258,244	281,627,159	446,737,339	728,364,498
2017	353,519,714	351,502,385	67,674,760	1,912,498	273,128,860	501,480,497	304,429,935	470,179,422	774,609,357
2018	357,226,100	340,007,405	57,037,552	1,896,038	275,361,378	480,805,717	310,662,897	445,504,198	756,167,095
2019	338,954,766	311,551,673	53,191,887	2,610,937	267,372,934	438,936,329	296,045,637	410,263,626	706,309,263
2020	237,916,151	245,781,202	49,364,584	2,372,417	195,529,788	339,904,566	209,010,932	326,423,422	535,434,354
2021	259,900,584	268,055,363	47,364,090	2,111,241	220,597,113	356,834,165	231,355,004	346,076,274	577,431,278
2022	270,525,699	273,617,557	47,526,121	2,485,905	222,143,003	372,012,279	241,914,630	352,240,652	594,155,282
2023	263,087,152	271,074,448	40,875,507	2,916,910	217,930,281	360,023,736	245,000,655	332,953,362	577,954,017
2024	247,968,956	221,491,486	40,016,958	3,062,924	206,167,469	306,372,855	228,644,917	283,895,407	512,540,324

¹ Beginning in 2001, includes a small amount of refuse recovery.

Notes: Totals may not equal sum of components because of independent rounding.

Web Page: For related information, see <http://www.eia.gov/coal/>.

Sources: 1949-1975 Bureau of Mines, Minerals Yearbook, 'Coal Bituminous and Lignite' and 'Coal Pennsylvania Anthracite' chapters. 1976 U.S. Energy Information Administration (EIA), Energy Data Reports, Coal Bituminous and Lignite in 1976 and Coal Pennsylvania Anthracite 1976. 1977 and 1978 EIA, Energy Data Reports, Bituminous Coal and Lignite Production and Mine Operations 1977. 1978, Coal Pennsylvania Anthracite 1977. 1978, and Coal Production, annual reports. 1979 and 1980 EIA, Energy Data Reports, Weekly Coal Report and Coal Production, annual reports. 1981-1988 EIA, Weekly Coal Production and Coal Production, annual reports. 1989-2000 EIA, Coal Industry Annual, annual reports. 2001-2010 EIA, Annual Coal Report, annual reports. 2011 EIA, Quarterly Coal Report October-December 2011 (April 2012), Table 1. EIA, Form EIA-7A, 'Coal Production Report'. and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, 'Quarterly Mine Employment and Coal Production Report'.

Table ES2. Coal Mining Productivity, 1949-2024

(Short Tons per Employee Hour)¹

Year	Mining Method		East of the Mississippi River			West of the Mississippi River			Total ²
	Underground	Surface ²	Underground	Surface ²	Total ²	Underground	Surface ²	Total ²	
1949	0.68	1.92	NA	NA	NA	NA	NA	NA	0.72
1950	0.72	1.96	NA	NA	NA	NA	NA	NA	0.76
1951	0.76	2.00	NA	NA	NA	NA	NA	NA	0.80
1952	0.80	2.10	NA	NA	NA	NA	NA	NA	0.84
1953	0.88	2.22	NA	NA	NA	NA	NA	NA	0.93
1954	1.00	2.48	NA	NA	NA	NA	NA	NA	1.08
1955	1.04	2.65	NA	NA	NA	NA	NA	NA	1.14
1956	1.08	2.67	NA	NA	NA	NA	NA	NA	1.19
1957	1.11	2.73	NA	NA	NA	NA	NA	NA	1.23
1958	1.17	2.73	NA	NA	NA	NA	NA	NA	1.31
1959	1.26	2.87	NA	NA	NA	NA	NA	NA	1.43
1960	1.33	2.91	NA	NA	NA	NA	NA	NA	1.52
1961	1.43	3.16	NA	NA	NA	NA	NA	NA	1.64
1962	1.50	3.40	NA	NA	NA	NA	NA	NA	1.74
1963	1.60	3.66	NA	NA	NA	NA	NA	NA	1.87
1964	1.72	3.76	NA	NA	NA	NA	NA	NA	1.99
1965	1.75	4.10	NA	NA	NA	NA	NA	NA	2.09
1966	1.83	4.28	NA	NA	NA	NA	NA	NA	2.23
1967	1.88	4.48	NA	NA	NA	NA	NA	NA	2.31
1968	1.93	4.33	NA	NA	NA	NA	NA	NA	2.35
1969	1.95	4.50	NA	NA	NA	NA	NA	NA	2.41
1970	1.72	4.53	NA	NA	NA	NA	NA	NA	2.30
1971	1.50	4.49	NA	NA	NA	NA	NA	NA	2.19
1972	1.49	4.54	NA	NA	NA	NA	NA	NA	2.18
1973	1.46	4.58	NA	NA	NA	NA	NA	NA	2.16
1974	1.41	4.74	NA	NA	NA	NA	NA	NA	2.31
1975	1.19	3.26	NA	NA	NA	NA	NA	NA	1.81
1976	1.14	3.25	NA	NA	NA	NA	NA	NA	1.78
1977	1.09	3.16	NA	NA	NA	NA	NA	NA	1.80
1978	1.04	3.03	NA	NA	NA	NA	NA	NA	1.77
1979	1.13	3.08	NA	NA	NA	NA	NA	NA	1.81
1980	1.20	3.21	NA	NA	NA	NA	NA	NA	1.93
1981	1.29	3.42	NA	NA	NA	NA	NA	NA	2.10
1982	1.37	3.36	NA	NA	NA	NA	NA	NA	2.11
1983	1.61	3.81	NA	NA	NA	NA	NA	NA	2.50
1984	1.72	4.03	1.69	2.56	1.98	2.49	8.15	7.07	2.64
1985	1.78	4.24	1.75	2.52	2.00	2.45	8.61	7.40	2.74
1986	2.00	4.60	1.96	2.75	2.21	2.80	9.02	7.90	3.01
1987	2.20	4.98	2.16	2.97	2.42	3.39	9.86	8.73	3.30
1988	2.38	5.32	2.32	2.99	2.54	3.55	10.73	9.38	3.55
1989	2.46	5.61	2.39	3.13	2.63	3.92	11.86	10.21	3.70
1990	2.54	5.94	2.46	3.32	2.73	4.01	12.26	10.41	3.83
1991	2.69	6.38	2.59	3.49	2.86	4.53	12.36	10.79	4.09
1992	2.93	6.59	2.82	3.61	3.07	4.85	12.49	11.03	4.36
1993	2.95	7.23	2.81	3.74	3.11	5.18	13.94	12.14	4.70
1994	3.19	7.67	3.02	3.85	3.28	5.93	15.19	13.22	4.98
1995	3.39	8.48	3.19	4.03	3.45	6.32	16.23	14.18	5.38
1996	3.57	9.05	3.36	4.25	3.63	7.03	17.89	15.66	5.69
1997	3.83	9.46	3.63	4.49	3.89	6.82	18.63	16.04	6.04
1998	3.90	9.58	3.69	4.31	3.89	6.76	18.82	16.27	6.20
1999	3.99	10.39	3.74	4.48	3.97	7.45	19.57	17.18	6.61
2000	4.15	11.01	3.89	4.82	4.18	7.66	20.04	17.62	6.99
2001	4.02	10.58	3.71	4.53	3.98	8.39	20.63	18.32	6.82
2002	3.98	10.36	3.67	4.22	3.86	7.80	20.67	18.06	6.80
2003	4.04	10.75	3.68	4.18	3.85	8.33	21.42	18.67	6.95
2004	3.96	10.55	3.59	3.95	3.72	8.22	22.04	19.00	6.80
2005	3.62	10.03	3.28	3.75	3.44	7.48	21.98	18.50	6.36

Year	Mining Method		East of the Mississippi River			West of the Mississippi River			Total ²
	Underground	Surface ²	Underground	Surface ²	Total ²	Underground	Surface ²	Total ²	
2006	3.37	10.18	3.06	3.74	3.29	6.62	22.26	18.33	6.26
2007	3.34	10.24	3.03	3.74	3.27	6.52	22.35	18.23	6.27
2008	3.15	9.81	2.87	3.58	3.12	6.07	21.85	17.77	5.96
2009	2.99	9.22	2.74	3.33	2.94	5.51	19.85	16.15	5.61
2010	2.89	9.46	2.66	3.24	2.84	5.54	20.25	16.60	5.55
2011	2.72	8.97	2.49	3.04	2.67	5.25	19.59	15.93	5.19
2012	2.84	8.97	2.58	2.99	2.70	5.65	18.15	15.03	5.19
2013	3.07	9.69	2.80	3.16	2.89	6.09	18.35	15.39	5.53
2014	3.35	10.42	3.07	3.27	3.12	6.47	18.86	15.96	5.95
2015	3.45	10.94	3.24	3.24	3.24	5.74	18.20	15.51	6.28
2016	3.83	10.73	3.68	3.22	3.57	5.18	16.54	14.20	6.61
2017	3.77	10.92	3.55	3.16	3.46	6.10	17.91	15.49	6.55
2018	3.68	10.36	3.50	3.07	3.40	5.64	17.38	14.92	6.24
2019	3.60	9.88	3.39	2.91	3.27	5.78	16.89	14.43	5.95
2020	3.60	10.24	3.43	2.78	3.28	5.09	16.37	13.71	6.12
2021	4.03	11.38	3.85	2.81	3.61	5.66	18.94	15.64	6.71
2022	3.62	10.39	3.47	2.58	3.25	5.14	18.52	15.37	6.11
2023	3.35	9.70	3.27	2.46	3.07	4.22	17.98	14.81	5.66
2024	3.24	8.94	3.14	2.37	2.96	4.38	16.59	13.68	5.23

NA=Not available.

1 Data through 1973 for bituminous coal, subbituminous coal, and lignite, and data through 1978 for anthracite, were originally reported in short tons per employee day these data were converted to short tons per employee hour by assuming an eight-hour day. Through 1997, other data were calculated by dividing total production by total labor hours worked by all mine employees except office workers; beginning in 1998, the calculation also includes office workers.

2 Beginning in 2001, includes a small amount of refuse recovery.

3 Through 1978, data for anthracite are not available by mining method, but are included in 'Total'.

Note: Web Page: For related information, see <http://www.eia.gov/coal/>.

Sources: 1949-1975 Bureau of Mines, Minerals Yearbook, 'Coal Bituminous and Lignite' and 'Coal Pennsylvania Anthracite' chapters. 1976 U.S. Energy Information Administration (EIA), Energy Data Reports, Coal Bituminous and Lignite in 1976 and Coal Pennsylvania Anthracite 1976. 1977 and 1978 EIA, Energy Data Reports, Bituminous Coal and Lignite Production and Mine Operations 1977. 1978 and Coal Pennsylvania Anthracite 1977. 1978. 1979 EIA, Energy Data Report, Coal Production 1979. 1980-1988 EIA, Coal Production, annual reports. 1989-2000 EIA, Coal Industry Annual, annual reports. 2001-2010 EIA, Annual Coal Report, annual reports. 2011 EIA, Form EIA-7A, 'Coal Production Report,' and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, 'Quarterly Mine Employment and Coal Production Report'.

Table ES-3 Coke Overview, 1949-2024

(Thousand Short Tons)

Year	Production	Trade			Stock Change ²	Consumption ³
		Imports	Exports	Net Imports ¹		
1949	63,637	279	548	-269	176	63,192
1950	72,718	438	398	40	-659	73,417
1951	79,331	162	1,027	-865	372	78,094
1952	68,254	313	792	-479	419	67,356
1953	78,837	157	520	-363	778	77,696
1954	59,662	116	388	-272	269	59,121
1955	75,302	126	531	-405	-1,248	76,145
1956	74,483	131	656	-525	634	73,324
1957	75,951	118	822	-704	814	74,433
1958	53,604	122	393	-271	675	52,658
1959	55,864	123	460	-337	859	54,668
1960	57,229	126	353	-227	56	56,946
1961	51,711	127	445	-318	-696	52,089
1962	51,910	142	364	-222	-135	51,823
1963	54,278	153	451	-298	-1,022	55,002
1964	62,145	103	524	-421	-913	62,637
1965	66,854	90	834	-744	731	65,379
1966	67,402	96	1,102	-1,006	376	66,020
1967	64,580	92	710	-618	2,390	61,572
1968	63,653	94	792	-698	517	62,438
1969	64,757	173	1,629	-1,456	-2,865	66,166
1970	66,525	153	2,478	-2,325	993	63,207
1971	57,436	174	1,509	-1,335	-588	56,689
1972	60,507	185	1,232	-1,047	-586	60,046
1973	64,325	1,094	1,395	-301	-1,741	65,765
1974	61,581	3,540	1,278	2,262	-249	64,092
1975	57,207	1,819	1,273	546	4,061	53,692
1976	58,333	1,311	1,315	-4	1,495	56,834
1977	53,509	1,829	1,241	588	-47	54,144
1978	49,009	5,722	693	5,029	-2,910	56,948
1979	52,943	3,974	1,440	2,534	1,651	53,826
1980	46,132	659	2,071	-1,412	3,442	41,278
1981	42,786	527	1,170	-643	-1,903	44,046
1982	28,115	120	993	-873	1,466	25,776
1983	25,808	35	665	-630	-4,672	29,850
1984	30,399	582	1,045	-463	199	29,737
1985	28,438	578	1,122	-544	-1,163	29,057
1986	24,917	329	1,004	-675	-486	24,728
1987	26,304	922	574	348	-1,002	27,654
1988	28,945	2,688	1,093	1,595	519	30,021
1989	28,045	2,311	1,085	1,226	337	28,934
1990	27,617	765	572	193	-1	27,811
1991	24,046	1,183	792	391	189	24,248
1992	23,410	2,098	702	1,396	-224	25,030
1993	23,182	2,155	1,062	1,093	-422	24,697
1994	22,686	3,338	986	2,352	-525	25,563
1995	23,749	3,820	1,358	2,462	366	25,845
1996	23,075	2,542	1,622	920	21	23,974
1997	22,116	3,139	1,266	1,873	-29	24,018
1998	20,041	3,834	1,129	2,705	-362	23,108
1999	20,016	3,224	898	2,326	-80	22,422
2000	20,808	3,781	1,146	2,635	201	23,242
2001	18,949	2,526	1,346	1,180	-73	20,202
2002	16,778	3,242	792	2,450	-375	19,603
2003	17,173	2,759	722	2,037	-227	19,436
2004	16,909	6,873	1,319	5,555	-28	22,492
2005	16,719	3,529	1,747	1,782	263	18,239

Year	Production	Trade			Stock Change ²	Consumption ³
		Imports	Exports	Net Imports ¹		
2006	16,404	4,068	1,616	2,451	71	18,784
2007	16,201	2,460	1,444	1,016	-52	17,270
2008	15,646	3,603	1,959	1,644	284	17,006
2009	11,143	347	1,307	-960	-140	10,323
2010	15,022	1,214	1,463	-249	-74	14,847
2011	15,420	1,418	970	448	43	15,825
2012	15,172	1,135	974	161	-139	15,472
2013	15,320	138	840	-703	266	14,351
2014	15,154	77	946	-869	-75	14,359
2015	13,755	140	857	-717	-90	13,128
2016	11,855	229	1,000	-772	-128	11,212
2017	12,948	58	1,212	-1,153	-21	11,815
2018	13,806	117	1,151	-1,034	-204	12,976
2019	12,870	116	967	-852	86	11,932
2020	10,353	162	683	-522	41	9,791
2021	12,545	117	2,083	-1,966	-129	10,708
2022	11,394	67	2,318	-2,251	-51	9,194
2023	11,236	206	1,514	-1,308	-152	10,080
2024	10,977	128	1,629	-1,501	45	9,431

(s)=Less than 0.05 million short tons.

1 Net imports equal imports minus exports. Minus sign indicates exports are greater than imports.

2 Producer and distributor stocks at end of year. A negative value indicates a decrease in stocks; a positive value indicates an increase.

3 'Consumption' is calculated as the sum of production and imports minus exports and stock change.

Notes: Totals may not equal sum of components because of independent rounding.

Web Page: For related information, see <http://www.eia.gov/coal/>.

Sources: 1949-1975 Bureau of Mines, Minerals Yearbook, 'Coke and Coal Chemicals' chapter. 1976-1980 U.S. Energy Information Administration (EIA), Energy Data Report, Coke and Coal Chemicals, annual reports. 1981-2004 EIA, Quarterly Coal Report (QCR) October-December, quarterly reports. 2005 forward EIA, QCR October-December 2011 (April 2012), Table ES-2.

Table ES-4 Nominal²Coal Prices, 1949- 2024

(dollars per short ton)

Year	Bituminous	Subbituminous	Lignite ¹	Anthracite	Total
1949	4.90	*	2.37	8.90	5.24
1950	4.86	*	2.41	9.34	5.19
1951	4.94	*	2.44	9.94	5.29
1952	4.92	*	2.39	9.58	5.27
1953	4.94	*	2.38	9.87	5.23
1954	4.54	*	2.43	8.76	4.81
1955	4.51	*	2.38	8.00	4.69
1956	4.83	*	2.39	8.33	5.01
1957	5.09	*	2.35	9.11	5.28
1958	4.87	*	2.35	9.14	5.07
1959	4.79	*	2.25	8.55	4.95
1960	4.71	*	2.29	8.01	4.83
1961	4.60	*	2.24	8.26	4.73
1962	4.50	*	2.23	7.99	4.62
1963	4.40	*	2.17	8.64	4.55
1964	4.46	*	2.14	8.93	4.60
1965	4.45	*	2.13	8.51	4.55
1966	4.56	*	1.98	8.08	4.62
1967	4.64	*	1.92	8.15	4.69
1968	4.70	*	1.79	8.78	4.75
1969	5.02	*	1.86	9.91	5.08
1970	6.30	*	1.86	11.03	6.34
1971	7.13	*	1.93	12.08	7.15
1972	7.78	*	2.04	12.40	7.72
1973	8.71	*	2.09	13.65	8.59
1974	16.01	*	2.19	22.19	15.82
1975	19.79	*	3.17	32.26	19.35
1976	20.11	*	3.74	33.92	19.56
1977	20.59	*	4.03	34.86	19.95
1978	22.64	*	5.68	35.25	21.86
1979	27.31	9.55	6.48	41.06	23.75
1980	29.17	11.08	7.60	42.51	24.65
1981	31.51	12.18	8.85	44.28	26.40
1982	32.15	13.37	9.79	49.85	27.25
1983	31.11	13.03	9.91	52.29	25.98
1984	30.63	12.41	10.45	48.22	25.61
1985	30.78	12.57	10.68	45.80	25.20
1986	28.84	12.26	10.64	44.12	23.79
1987	28.19	11.32	10.85	43.65	23.07
1988	27.66	10.45	10.06	44.16	22.07
1989	27.40	10.16	9.91	42.93	21.82
1990	27.43	9.70	10.13	39.40	21.76
1991	27.49	9.68	10.89	36.34	21.49
1992	26.78	9.68	10.81	34.24	21.03
1993	26.15	9.33	11.11	32.94	19.85
1994	25.68	8.37	10.77	36.07	19.41
1995	25.56	8.10	10.83	39.78	18.83
1996	25.17	7.87	10.92	36.78	18.50
1997	24.64	7.42	10.91	35.12	18.14
1998	24.87	6.96	11.08	42.91	17.67
1999	23.92	6.87	11.04	35.13	16.63
2000	24.15	7.12	11.41	40.90	16.78
2001	25.67	7.00	13.29	47.67	17.58
2002	26.54	7.64	12.52	47.78	17.89
2003	26.77	8.11	12.20	49.87	17.92
2004	30.75	8.51	12.59	43.52	20.07
2005	36.70	8.93	13.26	47.70	23.34
2006	39.61	10.12	13.83	51.68	24.63

Year	Bituminous	Subbituminous	Lignite ¹	Anthracite	Total
2007	41.24	11.21	14.99	58.92	25.82
2008	51.39	12.31	16.50	60.76	31.25
2009	55.44	13.35	17.26	57.10	33.24
2010	60.88	14.11	18.76	59.51	35.61
2011	68.50	14.07	18.77	75.70	41.01
2012	66.04	15.34	19.60	80.21	39.95
2013	60.61	14.86	19.96	87.82	37.24
2014	55.99	14.72	19.44	90.98	34.83
2015	51.55	14.63	22.09	97.91	31.81
2016	48.24	14.83	19.98	97.61	30.57
2017	55.60	14.29	19.51	93.17	33.72
2018	59.43	13.64	20.21	99.97	35.99
2019	58.93	14.01	19.86	102.22	36.07
2020	50.05	14.43	22.16	90.68	31.41
2021	61.68	14.18	20.10	107.08	36.45
2022	97.96	16.55	21.79	155.03	54.46
2023	96.23	17.56	22.25	165.88	54.04
2024	86.72	18.06	22.81	156.21	52.47

* = Through 1978, subbituminous coal is included in 'Bituminous Coal'.

1 Because of withholding to protect company confidentiality, lignite prices exclude Texas for 1955- 1977 and Montana for 1974 1978. As a result, lignite prices for 1974-1977 are for North Dakota only.

2 See 'Nominal Dollars' in Glossary.

Notes: Prices are free-on-board (F.O.B.) rail/barge prices, which are the F.O.B. prices of coal at the point of first sale, excluding freight or shipping and insurance costs. Prices are for open market and captive coal sales; see 'Captive Coal,' 'Free on Board (F.O.B.),' and 'Open Market Coal' in Glossary.

Web Page: For related information, see <http://www.eia.gov/coal/>.

Sources: 1949-1975 Bureau of Mines (BOM), Minerals Yearbook. 1976 U.S. Energy Information Administration (EIA), Energy Data Report, Coal Bituminous and Lignite in 1976, and BOM, Minerals Yearbook. 1977 and 1978 EIA, Energy Data Reports, Bituminous Coal and Lignite Production and Mine Operations, and Coal Pennsylvania Anthracite. 1979 EIA, Coal Production, and Energy Data Report, Coal Pennsylvania Anthracite. 1980-1992 EIA, Coal Production, annual reports. 1993-2000 EIA, Coal Industry Annual, annual reports and unpublished revisions. 2001-2010 EIA, Annual Coal Report, annual reports. 2011 EIA, Form EIA-7A, 'Coal Production Report,' and U.S. Department of Labor, Mine Safety and Health Administration, Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table ES5. Average Price of U.S. Coal Exports and Imports, 2001-2024

(dollars per short ton)

Year	Exports			Imports		
	Metallurgical Coal	Non-Metallurgical	Coke	Metallurgical Coal	Non-Metallurgical	Coke
2001	41.63	31.88	81.07	45.21	32.53	75.48
2002	45.41	34.51	80.56	44.90	33.93	75.35
2003	44.55	26.94	96.34	47.83	30.24	86.52
2004	63.63	42.03	81.42	54.27	36.06	179.24
2005	81.56	47.64	84.15	101.31	43.35	221.13
2006	90.81	46.25	79.08	109.36	46.15	156.44
2007	88.99	47.90	90.76	96.05	45.31	194.49
2008	134.62	57.35	107.42	117.18	56.75	465.15
2009	117.73	73.63	103.46	115.93	61.40	268.37
2010	145.44	65.54	167.25	180.42	62.47	331.70
2011	185.99	80.42	216.92	263.48	81.11	389.50
2012	152.23	76.16	214.58	186.63	84.27	338.16
2013	115.50	69.23	220.88	148.59	75.41	212.10
2014	99.49	67.05	246.53	105.11	76.83	117.18
2015	89.31	56.44	230.04	96.50	67.16	146.42
2016	84.48	50.76	216.88	73.98	64.86	143.27
2017	137.32	57.14	231.46	212.16	66.04	176.36
2018	140.55	63.36	261.07	200.18	67.04	264.46
2019	137.44	63.76	279.95	191.54	66.18	305.93
2020	104.55	62.51	261.83	136.71	67.40	253.56
2021	159.28	64.73	252.35	169.47	77.05	268.19
2022	284.49	115.20	342.00	157.83	104.57	508.41
2023	207.22	100.38	392.77	266.58	118.48	460.77
2024	169.64	86.12	333.12	258.51	137.82	347.89

Notes: 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.

Sources: 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.'

Coal Production

Table 1. Coal Production and Number of Mines by State and Mine Type, 2024 and 2023

(thousand short tons)

Coal-Producing State and Region ¹	2024		2023		Percent Change	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	18	14,382	20	12,043	-10.0	19.4
Underground	8	13,471	7	11,130	14.3	21.0
Surface	10	911	13	913	-23.1	-0.3
Alaska	1	1,004	1	1,009	-	-0.5
Surface	1	1,004	1	1,009	-	-0.5
Colorado	8	12,391	9	12,371	-11.1	0.2
Underground	4	7,190	5	7,443	-20.0	-3.4
Surface	4	5,201	4	4,928	-	5.5
Illinois	11	34,230	14	36,865	-21.4	-7.2
Underground	8	33,530	8	36,092	-	-7.1
Surface	3	700	6	773	-50.0	-9.5
Indiana	15	20,147	17	23,782	-11.8	-15.3
Underground	4	11,311	4	13,728	-	-17.6
Surface	11	8,836	13	10,054	-15.4	-12.1
Kentucky Total	94	24,309	112	28,346	-16.1	-14.2
Underground	41	18,529	47	21,564	-12.8	-14.1
Surface	53	5,780	65	6,783	-18.5	-14.8
Kentucky (East)	90	10,332	108	12,413	-16.7	-16.8
Underground	37	4,553	43	5,631	-14.0	-19.1
Surface	53	5,780	65	6,783	-18.5	-14.8
Kentucky (West)	4	13,976	4	15,933	-	-12.3
Underground	4	13,976	4	15,933	-	-12.3
Louisiana	1	264	1	289	-	-8.5
Surface	1	264	1	289	-	-8.5
Maryland	12	1,321	12	1,280	-	3.2
Underground	1	504	1	398	-	26.6
Surface	11	817	11	882	-	-7.3
Mississippi	1	2,041	1	2,685	-	-24.0
Surface	1	2,041	1	2,685	-	-24.0
Missouri	1	147	1	140	-	5.5
Surface	1	147	1	140	-	5.5
Montana	4	26,983	4	29,072	-	-7.2
Underground	1	7,068	1	7,581	-	-6.8
Surface	3	19,916	3	21,491	-	-7.3
New Mexico	3	7,199	2	7,987	50.0	-9.9
Surface	3	7,199	2	7,987	50.0	-9.9
North Dakota	4	25,415	4	24,087	-	5.5
Surface	4	25,415	4	24,087	-	5.5
Ohio	10	1,795	9	1,947	11.1	-7.8
Underground	2	780	2	712	-	9.5
Surface	8	1,015	7	1,235	14.3	-17.8
Oklahoma	1	-	1	2	-	-93.4
Surface	1	-	1	2	-	-93.4
Pennsylvania Total	110	40,597	113	42,647	-2.7	-4.8
Underground	28	36,119	29	37,466	-3.5	-3.6
Surface	82	4,478	84	5,181	-2.4	-13.6
Pennsylvania (Anthracite)	40	2,958	41	2,847	-2.4	3.9
Underground	4	52	5	57	-20.0	-9.8
Surface	36	2,906	36	2,789	-	4.2
Pennsylvania (Bituminous)	70	37,639	72	39,801	-2.8	-5.4
Underground	24	36,067	24	37,409	-	-3.6
Surface	46	1,572	48	2,392	-4.2	-34.3
Texas	3	12,297	4	13,815	-25.0	-11.0
Surface	3	12,297	4	13,815	-25.0	-11.0
Utah	4	7,420	6	6,921	-33.3	7.2
Underground	4	7,420	5	6,854	-20.0	8.3

Coal-Producing State and Region ¹	2024		2023		Percent Change	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Surface	-	-	1	67	-	-
Virginia	36	9,750	41	10,548	-12.2	-7.6
Underground	9	7,380	10	7,693	-10.0	-4.1
Surface	27	2,370	31	2,855	-12.9	-17.0
West Virginia Total	164	79,533	165	84,560	-0.6	-5.9
Underground	67	62,865	71	67,268	-5.6	-6.5
Surface	97	16,668	94	17,292	3.2	-3.6
West Virginia (Northern)	11	40,238	15	44,613	-26.7	-9.8
Underground	9	39,991	11	44,181	-18.2	-9.5
Surface	2	248	4	431	-50.0	-42.6
West Virginia (Southern)	153	39,295	150	39,947	2.0	-1.6
Underground	58	22,875	60	23,086	-3.3	-0.9
Surface	95	16,420	90	16,860	5.6	-2.6
Wyoming	15	190,731	15	237,261	-	-19.6
Surface	15	190,731	15	237,261	-	-19.6
Appalachia Total	440	157,710	468	165,439	-6.0	-4.7
Underground	152	125,672	163	130,298	-6.8	-3.6
Surface	288	32,038	305	35,141	-5.6	-8.8
Appalachia Central	279	59,377	299	62,908	-6.7	-5.6
Underground	104	34,808	113	36,410	-8.0	-4.4
Surface	175	24,569	186	26,498	-5.9	-7.3
Appalachia Northern	143	83,951	149	90,487	-4.0	-7.2
Underground	40	77,393	43	82,758	-7.0	-6.5
Surface	103	6,558	106	7,729	-2.8	-15.2
Appalachia Southern	18	14,382	20	12,043	-10.0	19.4
Underground	8	13,471	7	11,130	14.3	21.0
Surface	10	911	13	913	-23.1	-0.3
Interior Region Total	37	83,104	43	93,510	-14.0	-11.1
Underground	16	58,818	16	65,754	-	-10.6
Surface	21	24,286	27	27,756	-22.2	-12.5
Illinois Basin	30	68,354	35	76,581	-14.3	-10.7
Underground	16	58,818	16	65,754	-	-10.6
Surface	14	9,536	19	10,827	-26.3	-11.9
Other Interior	7	14,750	8	16,930	-12.5	-12.9
Surface	7	14,750	8	16,930	-12.5	-12.9
Western Region Total	39	271,142	41	318,708	-4.9	-14.9
Underground	9	21,678	11	21,878	-18.2	-0.9
Surface	30	249,464	30	296,830	-	-16.0
Powder River Basin	15	204,945	15	251,950	-	-18.7
Surface	15	204,945	15	251,950	-	-18.7
Uinta Basin	11	19,229	12	18,518	-8.3	3.8
Underground	7	14,028	8	13,591	-12.5	3.2
Surface	4	5,201	4	4,928	-	5.5
Other Western	13	46,969	14	48,240	-7.1	-2.6
Underground	2	7,650	3	8,288	-33.3	-7.7
Surface	11	39,319	11	39,953	-	-1.6
East of Mississippi River	471	228,105	504	244,704	-6.6	-6.8
West of Mississippi River	45	283,851	48	332,953	-6.3	-14.8
U.S. Subtotal	516	511,956	552	577,657	-6.5	-11.4
Refuse Recovery	8	584	8	297	-	97.1
U.S. Total	524	512,540	560	577,954	-6.4	-11.3

-- No data reported.

¹ For a definition of coal producing regions, see the Glossary.

Note: Totals 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 and Number of Mines by State, County, and Mine Type, 2024

(thousand short tons)

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	8	13,471	10	911	18	14,382
Bibb	-	-	1	34	1	34
Jefferson	3	8,178	2	247	5	8,425
Shelby	-	-	1	1	1	1
Tuscaloosa	3	3,070	4	505	7	3,576
Walker	2	2,223	2	123	4	2,347
Alaska	-	-	1	1,004	1	1,004
Denali	-	-	1	1,004	1	1,004
Colorado	4	7,190	4	5,201	8	12,391
Gunnison	1	3,705	-	-	1	3,705
La Plata	1	582	-	-	1	582
Moffat	-	-	4	5,201	4	5,201
Rio Blanco	1	1,907	-	-	1	1,907
Routt	1	996	-	-	1	996
Illinois	8	33,530	3	700	11	34,230
Franklin	1	6,216	-	-	1	6,216
Hamilton	1	4,773	-	-	1	4,773
Montgomery	1	2,818	-	-	1	2,818
Perry	1	4,114	1	496	2	4,610
Randolph	1	2,132	-	-	1	2,132
Saline	-	-	1	9	1	9
Sangamon	1	246	-	-	1	246
Wabash	-	-	1	194	1	194
Washington	1	6,818	-	-	1	6,818
Williamson	1	6,414	-	-	1	6,414
Indiana	4	11,311	11	8,836	15	20,147
Daviess	-	-	1	409	1	409
Gibson	2	7,414	-	-	2	7,414
Knox	2	3,897	1	84	3	3,982
Pike	-	-	3	627	3	627
Spencer	-	-	1	107	1	107
Sullivan	-	-	1	4,957	1	4,957
Warrick	-	-	4	2,652	4	2,652
Kentucky	41	18,529	53	5,780	94	24,309
Bell	1	28	5	251	6	279
Breathitt	-	-	1	135	1	135
Clay	-	-	1	9	1	9
Floyd	4	144	2	54	6	198
Harlan	11	1,588	7	763	18	2,351
Hopkins	1	4,406	-	-	1	4,406
Johnson	-	-	2	311	2	311
Knott	3	132	1	261	4	393
Knox	1	11	-	-	1	11
Lawrence	-	-	1	2	1	2
Leslie	1	348	1	217	2	566
Letcher	1	60	9	1,322	10	1,382
Magoffin	-	-	2	34	2	34
Martin	-	-	2	218	2	218
Muhlenberg	1	316	-	-	1	316
Perry	3	718	3	814	6	1,532
Pike	11	1,516	11	832	22	2,348
Union	2	9,254	-	-	2	9,254
Whitley	1	8	5	556	6	564
Louisiana	-	-	1	264	1	264
Natchitoches	-	-	1	264	1	264
Maryland	1	504	11	817	12	1,321

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Allegany	-	-	7	740	7	740
Garrett	1	504	4	78	5	581
Mississippi	-	-	1	2,041	1	2,041
Choctaw	-	-	1	2,041	1	2,041
Missouri	-	-	1	147	1	147
Bates	-	-	1	147	1	147
Montana	1	7,068	3	19,916	4	26,983
Big Horn	-	-	2	13,938	2	13,938
Musselshell	1	7,068	-	-	1	7,068
Rosebud	-	-	1	5,978	1	5,978
New Mexico	-	-	3	7,199	3	7,199
Mckinley	-	-	2	2,439	2	2,439
San Juan	-	-	1	4,759	1	4,759
North Dakota	-	-	4	25,415	4	25,415
Mclean	-	-	1	7,400	1	7,400
Mercer	-	-	2	13,774	2	13,774
Oliver	-	-	1	4,240	1	4,240
Ohio	2	780	8	1,015	10	1,795
Athens	-	-	1	59	1	59
Belmont	-	-	1	343	1	343
Harrison	2	780	3	228	5	1,008
Noble	-	-	1	366	1	366
Tuscarawas	-	-	2	19	2	19
Oklahoma	-	-	1	-	1	-
Okmulgee	-	-	1	-	1	-
Pennsylvania	28	36,119	82	4,478	110	40,597
Armstrong	2	661	1	19	3	680
Cambria	2	821	4	279	6	1,100
Carbon	-	-	1	319	1	319
Clarion	-	-	2	1	2	1
Clearfield	3	467	15	507	18	973
Columbia	-	-	1	102	1	102
Dauphin	1	10	-	-	1	10
Fayette	-	-	1	12	1	12
Fulton	-	-	1	23	1	23
Greene	3	21,659	-	-	3	21,659
Indiana	7	2,041	3	61	10	2,102
Jefferson	1	131	1	1	2	131
Lackawanna	-	-	1	5	1	5
Luzerne	-	-	7	389	7	389
Lycoming	-	-	1	33	1	33
Mercer	-	-	1	13	1	13
Northumberland	-	-	10	405	10	405
Schuylkill	3	42	16	1,685	19	1,727
Somerset	4	675	13	587	17	1,261
Washington	1	9,181	-	-	1	9,181
Westmoreland	1	432	3	38	4	470
Texas	-	-	3	12,297	3	12,297
Atascosa	-	-	1	1,596	1	1,596
Limestone	-	-	1	8,917	1	8,917
Robertson	-	-	1	1,783	1	1,783
Utah	4	7,420	-	-	4	7,420
Carbon	1	2,964	-	-	1	2,964
Emery	2	1,357	-	-	2	1,357
Sevier	1	3,099	-	-	1	3,099
Virginia	9	7,380	27	2,370	36	9,750
Buchanan	2	4,251	5	841	7	5,092
Dickenson	3	2,876	5	598	8	3,474
Russell	-	-	3	106	3	106
Tazewell	1	139	6	533	7	672
Wise	3	115	8	292	11	406

Coal-Producing State and County	Underground		Surface		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
West Virginia	67	62,865	97	16,668	164	79,533
Barbour	2	3,444	-	-	2	3,444
Boone	5	2,160	6	793	11	2,953
Clay	1	66	2	141	3	207
Fayette	3	827	9	2,106	12	2,933
Grant	-	-	1	81	1	81
Greenbrier	-	-	2	106	2	106
Kanawha	4	2,024	3	916	7	2,940
Logan	13	7,112	20	2,782	33	9,894
Marion	1	5,645	1	167	2	5,812
Marshall	2	14,559	-	-	2	14,559
Mcdowell	13	1,474	13	737	26	2,212
Mercer	1	90	3	237	4	326
Mingo	2	123	9	2,490	11	2,613
Nicholas	2	1,090	4	260	6	1,350
Ohio	1	6,030	-	-	1	6,030
Raleigh	6	4,419	9	2,670	15	7,089
Taylor	1	3,650	-	-	1	3,650
Tucker	1	1,083	-	-	1	1,083
Wetzel	1	5,579	-	-	1	5,579
Wyoming	8	3,488	15	3,184	23	6,672
Wyoming	-	-	15	190,731	15	190,731
Campbell	-	-	11	170,045	11	170,045
Converse	-	-	1	14,984	1	14,984
Lincoln	-	-	1	2,417	1	2,417
Sweetwater	-	-	2	3,284	2	3,284
U.S. Subtotal	177	206,167	339	305,788	516	511,956
Refuse Recovery	-	-	-	-	8	584
U.S. Total	177	206,167	339	305,788	524	512,540

- = No data reported.

Note: Totals 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. Underground Coal Production by State and Mining Method, 2024

(thousand short tons)

Coal-Producing State and Region ¹	Continuous	Conventional and Other ²	Longwall	Total
Alabama	2,945	-	10,526	13,471
Colorado	1,950	-	5,240	7,190
Illinois	15,332	-	18,198	33,530
Indiana	11,311	-	-	11,311
Kentucky Total	18,187	342	-	18,529
Kentucky (East)	4,211	342	-	4,553
Kentucky (West)	13,976	-	-	13,976
Maryland	504	-	-	504
Montana	707	-	6,361	7,068
Ohio	780	-	-	780
Pennsylvania Total	7,477	47	28,595	36,119
Pennsylvania (Anthracite)	10	42	-	52
Pennsylvania (Bituminous)	7,467	5	28,595	36,067
Utah	2,421	-	4,999	7,420
Virginia	4,278	41	3,061	7,380
West Virginia Total	26,939	145	35,781	62,865
West Virginia (Northern)	4,209	-	35,781	39,991
West Virginia (Southern)	22,730	145	-	22,875
Appalachia Total	47,132	576	77,964	125,672
Appalachia Central	31,218	529	3,061	34,808
Appalachia Northern	12,969	47	64,376	77,393
Appalachia Southern	2,945	-	10,526	13,471
Interior Region Total	40,619	-	18,198	58,818
Illinois Basin	40,619	-	18,198	58,818
Western Region Total	5,078	-	16,600	21,678
Uinta Basin	3,789	-	10,239	14,028
Other Western	1,289	-	6,361	7,650
East of Mississippi River	87,752	576	96,162	184,489
West of Mississippi River	5,078	-	16,600	21,678
U.S. Total	92,830	576	112,762	206,167

- = No data reported.

1 For a definition of coal producing regions, see the Glossary.

2 Mines that: 1. produce coal using shortwall, scoop loading, hand loading, or other methods, or 2. produce less than 50,000 short tons, which are not required to provide data.

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

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 3.1 Surface Coal Production by State and Mining Method, 2024

(thousand short tons)

Coal-Producing State and Region ¹	Contour Strip	Area	Open Pit	Mountaintop Mining	Other ²	Total
Alabama	729	-	-	-	182	911
Alaska	502	-	502	-	-	1,004
Colorado	1,096	-	514	-	3,591	5,201
Illinois	-	591	-	-	108	700
Indiana	218	612	6,682	-	1,325	8,836
Kentucky Total	2,413	1,042	-	-	2,325	5,780
Kentucky (East)	2,413	1,042	-	-	2,325	5,780
Louisiana	-	264	-	-	-	264
Maryland	134	228	-	-	455	817
Mississippi	2,041	-	-	-	-	2,041
Missouri	147	-	-	-	-	147
Montana	13,938	5,978	-	-	-	19,916
New Mexico	2,439	-	4,759	-	-	7,199
North Dakota	21,174	-	4,240	-	-	25,415
Ohio	586	263	-	-	167	1,015
Oklahoma	-	-	-	-	s	s
Pennsylvania Total	1,172	-	2,455	-	851	4,478
Pennsylvania (Anthracite)	1,028	-	1,626	-	252	2,906
Pennsylvania (Bituminous)	144	-	828	-	599	1,572
Texas	-	8,917	3,380	-	-	12,297
Virginia	1,125	157	-	149	939	2,370
West Virginia Total	5,641	2,348	779	1,904	5,995	16,668
West Virginia (Northern)	183	65	-	-	-	248
West Virginia (Southern)	5,459	2,283	779	1,904	5,995	16,420
Wyoming	78,898	434	111,399	-	-	190,731
Appalachia Total	11,801	4,037	3,234	2,053	10,914	32,038
Appalachia Central	8,996	3,482	779	2,053	9,260	24,569
Appalachia Northern	2,076	555	2,455	-	1,473	6,558
Appalachia Southern	729	-	-	-	182	911
Interior Region Total	2,407	10,384	10,061	-	1,433	24,286
Illinois Basin	218	1,203	6,682	-	1,433	9,536
Other Interior	2,189	9,181	3,380	-	s	14,750
Western Region Total	118,047	6,412	121,414	-	3,591	249,464
Powder River Basin	89,985	5,978	108,982	-	-	204,945
Uinta Basin	1,096	-	514	-	3,591	5,201
Other Western	26,966	434	11,919	-	-	39,319
East of Mississippi River	14,061	5,240	9,915	2,053	12,347	43,616
West of Mississippi River	118,195	15,593	124,794	-	3,591	262,173
U.S. Total	132,255	20,833	134,709	2,053	15,938	305,788

- = No data reported.

s = Value is less than 0.5 of the table metric.

1 For a definition of coal producing regions, see the Glossary.

2 Mines that: 1. produce coal using auger, highwall mine, or punch, or 2. produce less than 50,000 short tons, which are not required to provide data.

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

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 4. Coal Production by Coalbed Thickness and Mine Type, 2024

(thousand short tons)

Coal Thickness (inches)	Underground	Surface	Total
Under 7	58	557	614
7 - Under 13	-	237	237
13 - Under 19	484	970	1,454
19 - Under 25	405	3,916	4,320
25 - Under 31	1,073	3,741	4,814
31 - Under 37	9,976	12,141	22,117
37 - Under 43	9,190	4,287	13,477
43 - Under 49	10,043	6,069	16,113
49 - Under 55	19,853	3,560	23,413
55 - Under 61	16,452	3,570	20,022
61 - Under 67	16,816	5,594	22,411
67 - Under 73	22,610	1,992	24,602
73 - Under 79	23,099	1,874	24,973
79 - Under 85	37,801	2,673	40,475
85 - Under 91	11,973	1,262	13,235
91 - Under 97	2,900	787	3,687
97 - Under 103	5,153	205	5,359
103 - Under 109	5,301	6,814	12,115
109 - Under 115	1,888	23	1,911
115 - 120	1,097	2,137	3,234
Over 120	9,768	242,442	252,210
Unknown *	226	936	1,747
U.S. Total	206,167	305,788	512,540

- = No data reported.

* Includes mines with production of less than 50,000 short tons, which are not required to provide data, and refuse recovery.

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

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 5. Coal Production and Coalbed Thickness by Major Coalbeds and Mine Type, 2024

Coalbed ID Number ¹	Coalbed Name	Production (thousand short tons)			Thickness (inches)		
		Underground	Surface	Total	Average ²	Low	High
1699	Wyodak	-	164,945	164,945	776	120	911
0212	Pittsburgh	51,470	244	51,714	79	66	108
0484	Herrin (Illinois No. 6)	34,873	1,266	36,139	73	46	80
0489	No. 9	20,811	2,884	23,695	63	36	94
1701	Smith	-	14,633	14,633	941	794	1,092
1569	Beulah-Zap	-	13,774	13,774	198	124	210
1696	Anderson-Dietz 1-Dietz 2	-	13,054	13,054	960	960	960
0280	Blue Creek	12,672	117	12,790	53	48	66
0084	Lower Kittanning	10,794	1,529	12,323	67	19	114
0036	Pittsburgh	11,184	580	11,763	85	20	97
1570	Hagel	-	10,603	10,603	115	103	122
0344	Pocahontas No. 3	8,096	-	8,096	58	35	66
1808	Rosebud	-	6,499	6,499	269	186	276
0176	Eagle	5,463	586	6,049	42	18	52
1787	Roland	-	5,452	5,452	396	288	450
0168	Lower Elkhorn	4,165	1,256	5,421	41	20	81
1806	Mammoth	5,301	-	5,301	108	108	108
0071	Upper Freeport	4,651	48	4,699	52	4	79
1756	E	3,668	-	3,668	162	162	162
1895	Lower Hiawatha	3,099	-	3,099	132	132	132
1755	D	19	2,993	3,012	130	93	144
1830	Lower O'connor	2,964	-	2,964	180	180	180
0483	Indiana No. 6	-	2,860	2,860	64	36	78
1495	Deadman Zone (D3,d4,d5,d2)	-	2,850	2,850	108	108	108
0506	No. 6	2,818	-	2,818	92	92	92
Major Coalbeds Total		182,047	246,173	428,221	414	4	1,092
Other Coalbeds		23,894	58,680	82,573	82	1	615
Unknown *		226	936	1,747	NA	NA	NA
U.S. Total		206,167	305,788	512,540	359	-	1,092

- = No data reported.

NA = Not Available.

* Includes mines with production of less than 50,000 short tons, which are not required to provide data, and refuse recovery.

¹ The coalbed ID number is a unique code assigned by EIA to each correlated coalbed or to coal-bearing geologic formations, coal groups, or coal zones. See Coalbed name discussion in note below.

² Average thickness is the bed thickness weighted by bed production.

Notes: This table lists the top 25 producing coalbeds. The category 'Other Coalbeds' includes all coalbeds from which less than 4.0 million short tons were produced during the year. In some regions, coalbeds are characteristically discontinuous or uncorrelatable from one location to another, and production is identified by the geological formations, coal groups, or coal zones of the native rock where the coalbeds occur. These types of coalbeds are found primarily in the Rocky Mountain States and even in the Gulf Coast lignite belt. Coalbeds of these types are also included in 'Other Coalbeds,' even though production may exceed 4.0 million short tons. Totals may not equal sum of components due to independent rounding. The coalbed name given is the name most commonly used in the State having the greatest production from that coalbed. The States having greatest production for each coalbed are Wyoming (coalbed codes 1495, 1699, and 1701); West Virginia (coalbed codes 212, 84, 111, 168, 103, 71); Illinois (coalbed code 484); Indiana (coalbed code 489); Pennsylvania (coalbed code 36); North Dakota (coalbed codes 1569, 1570); Montana (coalbed codes 1696, 1808, 204); Virginia (coalbed code 344); Alabama (coalbed code 280); Utah (coalbed code 1847); New Mexico (coalbed code 1003); Colorado (coalbed code 1756); West Virginia (coalbed codes 157, 176); Kentucky (coalbed code 151). In some other States where these are major producing beds, the following alternative coalbed names are also used: coalbed code 484 (Kentucky, Kentucky No 11), coalbed code 489 (Indiana, Indiana No 5), coalbed code 36 (Pennsylvania/Ohio, Pittsburgh No. 8), coalbed code 111 (Kentucky, Hazard No 6).

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 6. Coal Production and Number of Mines by State and Coal Rank, 2024

(thousand short tons)

Coal-Producing State and Region ¹	Bituminous		Subbituminous		Lignite		Anthracite		Total	
	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production	Number of Mines	Production
Alabama	18	14,382	-	-	-	-	-	-	18	14,382
Alaska	-	-	1	1,004	-	-	-	-	1	1,004
Colorado	4	7,190	4	5,201	-	-	-	-	8	12,391
Illinois	11	34,230	-	-	-	-	-	-	11	34,230
Indiana	15	20,147	-	-	-	-	-	-	15	20,147
Kentucky Total	94	24,309	-	-	-	-	-	-	94	24,309
Kentucky (East)	90	10,332	-	-	-	-	-	-	90	10,332
Kentucky (West)	4	13,976	-	-	-	-	-	-	4	13,976
Louisiana	-	-	-	-	1	264	-	-	1	264
Maryland	12	1,321	-	-	-	-	-	-	12	1,321
Mississippi	-	-	-	-	1	2,041	-	-	1	2,041
Missouri	1	147	-	-	-	-	-	-	1	147
Montana	1	7,068	3	19,916	-	-	-	-	4	26,983
New Mexico *	2	2,124	2	5,074	-	-	-	-	3	7,199
North Dakota	-	-	-	-	4	25,415	-	-	4	25,415
Ohio	10	1,795	-	-	-	-	-	-	10	1,795
Oklahoma	1	s	-	-	-	-	-	-	1	s
Pennsylvania Total	70	37,639	-	-	-	-	40	2,958	110	40,597
Pennsylvania (Anthracite)	-	-	-	-	-	-	40	2,958	40	2,958
Pennsylvania (Bituminous)	70	37,639	-	-	-	-	-	-	70	37,639
Texas	-	-	-	-	3	12,297	-	-	3	12,297
Utah	4	7,420	-	-	-	-	-	-	4	7,420
Virginia	36	9,750	-	-	-	-	-	-	36	9,750
West Virginia Total	164	79,533	-	-	-	-	-	-	164	79,533
West Virginia (Northern)	11	40,238	-	-	-	-	-	-	11	40,238
West Virginia (Southern)	153	39,295	-	-	-	-	-	-	153	39,295
Wyoming	1	434	14	190,297	-	-	-	-	15	190,731
Appalachia Total	400	154,752	-	-	-	-	40	2,958	440	157,710
Appalachia Central	279	59,377	-	-	-	-	-	-	279	59,377
Appalachia Northern	103	80,993	-	-	-	-	40	2,958	143	83,951
Appalachia Southern	18	14,382	-	-	-	-	-	-	18	14,382
Interior Region Total	32	68,501	-	-	5	14,602	-	-	37	83,104
Illinois Basin	30	68,354	-	-	-	-	-	-	30	68,354
Other Interior	2	147	-	-	5	14,602	-	-	7	14,750
Western Region Total	12	24,236	24	221,491	4	25,415	-	-	39	271,142
Powder River Basin	-	-	15	204,945	-	-	-	-	15	204,945
Uinta Basin	7	14,028	4	5,201	-	-	-	-	11	19,229
Other Western	5	10,208	5	11,346	4	25,415	-	-	13	46,969
East of Mississippi River	430	223,106	-	-	1	2,041	40	2,958	471	228,105
West of Mississippi River	14	24,384	24	221,491	8	37,976	-	-	45	283,851
U.S. Subtotal	444	247,490	24	221,491	9	40,017	40	2,958	516	511,956
Refuse Recovery	6	479	-	-	-	-	2	105	8	584
U.S. Total	450	247,969	24	221,491	9	40,017	42	3,063	524	512,540

- = No data reported.

s = Value is less than 0.5 of the table metric.

* One mine periodically produces both bituminous and subbituminous coal. When this occurs, it is double counted as a subbituminous and bituminous mine, but is not double counted in the total.

1 For a definition of coal producing regions, see Glossary.

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

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 7. Coal Production by State, Mine Type, and Union Status, 2024

(thousand short tons)

Coal-Producing State and Region ¹	Union		Nonunion		Total	
	Underground	Surface	Underground	Surface	Underground	Surface
Alabama	12,947	-	524	894	13,471	894
Alaska	-	1,004	-	-	-	1,004
Colorado	1,907	1,522	5,283	3,679	7,190	5,201
Illinois	-	-	33,530	691	33,530	691
Indiana	-	-	11,311	8,814	11,311	8,814
Kentucky Total	-	-	18,442	5,659	18,442	5,659
Kentucky (East)	-	-	4,466	5,659	4,466	5,659
Kentucky (West)	-	-	13,976	-	13,976	-
Louisiana	-	-	-	264	-	264
Maryland	-	-	504	783	504	783
Mississippi	-	-	-	2,041	-	2,041
Missouri	-	-	-	147	-	147
Montana	-	6,862	7,068	13,054	7,068	19,916
New Mexico	-	4,759	-	2,439	-	7,199
North Dakota	-	4,240	-	21,174	-	25,415
Ohio	-	-	780	995	780	995
Pennsylvania Total	5,153	1,173	30,941	2,980	36,095	4,153
Pennsylvania (Anthracite)	-	1,173	33	1,563	33	2,736
Pennsylvania (Bituminous)	5,153	-	30,909	1,417	36,062	1,417
Texas	-	8,917	-	3,380	-	12,297
Utah	-	-	7,420	-	7,420	-
Virginia	-	-	7,365	2,290	7,365	2,290
West Virginia Total	25,942	932	36,823	15,428	62,765	16,360
West Virginia (Northern)	25,784	-	14,207	248	39,991	248
West Virginia (Southern)	159	932	22,616	15,180	22,775	16,112
Wyoming	-	5,268	-	185,463	-	190,731
Appalachia Total	44,043	2,105	81,402	29,029	125,445	31,135
Appalachia Central	159	932	34,447	23,129	34,606	24,061
Appalachia Northern	30,937	1,173	46,432	5,006	77,368	6,179
Appalachia Southern	12,947	-	524	894	13,471	894
Interior Region Total	-	8,917	58,818	15,337	58,818	24,254
Illinois Basin	-	-	58,818	9,504	58,818	9,504
Other Interior	-	8,917	-	5,833	-	14,750
Western Region Total	1,907	23,655	19,771	225,810	21,678	249,464
Powder River Basin	-	6,862	-	198,083	-	204,945
Uinta Basin	1,907	1,522	12,120	3,679	14,028	5,201
Other Western	-	15,271	7,650	24,048	7,650	39,319
East of Mississippi River	44,043	2,105	140,220	40,575	184,263	42,680
West of Mississippi River	1,907	32,572	19,771	229,601	21,678	262,173
U.S. Subtotal	45,950	34,677	159,991	270,176	205,941	304,853
Unknown *	-	-	-	-	226	936
U.S. Total	45,950	34,677	159,991	270,176	206,167	305,788

- = No data reported.

* Includes mines with production of less than 50,000 short tons, which are not required to provide data.

¹ For a definition of coal producing regions, see Glossary.

Notes: Totals may not equal sum of components because of independent rounding. Excludes refuse recovery operations.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 8. Coal Disposition by State, 2024

(thousand short tons)

Coal-Producing State	Open Market Sales ¹		Captive Sales / Transactions ²		Exports ³		Total	
	Metallurgical	Non-Metallurgical	Metallurgical	Non-Metallurgical	Metallurgical	Non-Metallurgical	Metallurgical	Non-Metallurgical
Alabama	3	2,791	-	-	7,972	-	7,975	2,791
Alaska	-	1,038	-	-	-	-	-	1,038
Colorado	-	6,737	-	4,485	-	-	-	11,222
Illinois	-	18,711	-	8,949	-	6,644	-	34,305
Indiana	-	7,166	-	9,436	-	-	-	16,602
Kentucky Total	1,005	20,966	-	-	60	-	1,064	20,966
Kentucky (East)	1,005	7,033	-	-	60	-	1,064	7,033
Kentucky (West)	-	13,934	-	-	-	-	-	13,934
Louisiana	-	267	-	-	-	-	-	267
Maryland	432	671	-	-	18	-	450	671
Mississippi	-	1,922	-	-	-	-	-	1,922
Missouri	-	147	-	-	-	-	-	147
Montana	-	14,358	-	7,398	-	5,557	-	27,313
New Mexico	-	5,641	-	1,411	-	-	-	7,052
North Dakota	-	25,141	-	-	-	-	-	25,141
Ohio	-	1,486	-	-	-	214	-	1,700
Pennsylvania Total	3,002	17,784	105	271	3,026	1,274	6,133	19,329
Pennsylvania (Anthracite)	337	2,316	-	115	-	103	337	2,533
Pennsylvania (Bituminous)	2,666	15,468	105	157	3,026	1,170	5,797	16,795
Texas	-	-	-	12,369	-	-	-	12,369
Utah	-	6,649	-	240	-	361	-	7,249
Virginia	1,819	602	75	6	3,225	-	5,119	609
West Virginia Total	9,461	32,166	202	175	18,668	11,981	28,331	44,323
West Virginia (Northern)	380	22,455	-	175	5,434	11,175	5,813	33,806
West Virginia (Southern)	9,081	9,711	202	-	13,234	806	22,518	10,517
Wyoming	-	105,796	-	84,267	-	539	-	190,602
U.S. Subtotal	15,722	270,041	382	129,007	32,969	26,570	49,073	425,618
Adjustments ⁴	-1,215	-	-	-	-	-	-1,215	-
Other Exports *	-	-	-	-	23,618	25,170	23,618	25,170
U.S. Total **	14,507	270,041	382	129,007	56,587	51,740	71,476	450,788

- = No data reported.

* Estimated quantity of coal exported by coal brokers, coal traders and coal terminals reported on the EIA-8A, 'Annual Survey of Coal Stocks and Coal Exports'.

** Excludes mines producing less than 50,000 short tons, which are not required to provide data, and refuse recovery.

1 Open market sales include all coal sold on the open market to other coal companies or consumers; excludes exports.

2 Captive sales transactions include all coal used by the producing company or sold to affiliate or parent companies; excludes exports.

3 State level total and U.S. subtotal include the quantity of coal exported by coal mines only.

4 Adjustments reflect differences in source data. State-level data are sourced from the EIA-7A, 'Annual Survey of Coal Production and Preparation'. Adjustments are estimated using coal consumed for coke production from the EIA-3, 'Quarterly Survey of Industrial, Commercial, & Institutional Users' and metallurgical coal imports from the U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.' US Total Exports are sourced from U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'

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

Table 9. Major U.S. Coal Mines, 2024

Rank	Mine Name / Operating Company	Mine Type	State	Production (short tons)
1	North Antelope Rochelle Mine / Peabody Powder River Mining LLC	Surface	Wyoming	59,793,304
2	Black Thunder / Thunder Basin Coal Company LLC	Surface	Wyoming	44,480,976
3	Antelope Coal Mine / Navajo Transitional Energy Com	Surface	Wyoming	14,984,446
4	Belle Ayr Mine / Eagle Specialty Materials LLC	Surface	Wyoming	14,628,974
5	Spring Creek Mine / Navajo Transitional Energy Com	Surface	Montana	13,053,955
6	Freedom Mine / The Coteau Properties Company	Surface	North Dakota	11,860,169
7	Eagle Butte Mine / Eagle Specialty Materials LLC	Surface	Wyoming	11,035,284
8	Caballo Mine / Peabody Caballo Mining, LLC	Surface	Wyoming	10,788,438
9	Bailey Mine / Consol Pennsylvania Coal Company	Underground	Pennsylvania	10,761,880
10	Enlow Fork Mine / Consol Pennsylvania Coal Company	Underground	Pennsylvania	9,181,023
11	Rawhide Mine / Peabody Caballo Mining, LLC	Surface	Wyoming	9,049,452
12	Marshall County Mine / Marshall County Coal Resources	Underground	West Virginia	9,000,360
13	River View Mine / River View Coal LLC	Underground	Kentucky	8,999,873
14	Kosse Strip / Luminant Mining Company LLC	Surface	Texas	8,916,988
15	Falkirk Mine / Falkirk Mining Company	Surface	North Dakota	7,400,184
16	Bull Mountains Mine No 1 / Signal Peak Energy LLC	Underground	Montana	7,067,888
17	Lively Grove Mine / Prairie State Generating Company	Underground	Illinois	6,817,740
18	Buckskin Mine / Buckskin Mining Company	Surface	Wyoming	6,752,570
19	Mach #1 Mine / Mach Mining LLC	Underground	Illinois	6,413,674
20	Mc#1 Mine / M-Class Mining LLC	Underground	Illinois	6,216,015
21	Tunnel Ridge Mine / Tunnel Ridge, LLC	Underground	West Virginia	6,030,327
22	Rosebud Mine & Crusher/Conveyo / Westmoreland Rosebud Mining LI	Surface	Montana	5,978,039
23	Harvey Mine / Consol Pennsylvania Coal Company	Underground	Pennsylvania	5,743,707
24	Gibson South / Gibson County Coal, LLC	Underground	Indiana	5,698,564
25	Marion County Mine / Marion County Coal Resources,	Underground	West Virginia	5,645,400
26	Harrison County Mine / Harrison County Coal Resources	Underground	West Virginia	5,579,207
27	Ohio County Mine / Ohio County Coal Resources, In	Underground	West Virginia	5,558,609
28	No 7 Mine / Warrior Met Coal Mining, LLC	Underground	Alabama	5,269,294
29	Cumberland Mine / Iron Cumberland LLC	Underground	Pennsylvania	5,153,309
30	Bear Run Mine / Peabody Bear Run Mining LLC	Surface	Indiana	4,957,450
31	Mine No. 1 / Hamilton County Coal, LLC	Underground	Illinois	4,773,185
32	Navajo Mine / Bisti Fuels Company LLC	Surface	New Mexico	4,759,297
33	Cardinal / Warrior Coal LLC	Underground	Kentucky	4,406,080
34	Cordero Rojo Mine / Navajo Transitional Energy Com	Surface	Wyoming	4,314,678
35	Center Mine / Bni Coal, Ltd	Surface	North Dakota	4,240,336
36	Prairie Eagle-Underground / Knight Hawk Coal, LLC	Underground	Illinois	4,113,552
Subtotal				359,424,227
All Other Mines				153,116,097
U.S. Total				512,540,324

Notes: Major mines are mines that produced more than 4 million short tons in 2024. Company listed indicates the firm operating the mine.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 10. Major U.S. Coal Producers, 2024

Rank	Controlling Company Name	Production (thousand short tons)	Percent of Total Production
1	Peabody Energy Corp	95,789	18.7
2	Core Natural Resources Inc	84,312	16.4
3	Navajo Transitional Energy Co	37,112	7.2
4	Alliance Resource Partners LP	32,166	6.3
5	David Michael Jamison Petri E Koivula	26,614	5.2
6	Acnr Holdings Inc	26,100	5.1
7	NACCO Industries Inc	23,480	4.6
8	Alpha Metallurgical Resources Inc	15,518	3.0
9	Foresight Energy Labor LLC	15,447	3.0
10	Vistra Energy	8,917	1.7
11	Seven Global Investments As	8,821	1.7
12	Warrior Met Coal Intermediate Holdco LLC	8,247	1.6
13	Global Mining Group LLC	7,068	1.4
14	Westmoreland Mining Holdings LLC	6,862	1.3
15	Prairie State Energy Campus	6,818	1.3
16	Kiewit Peter Sons' Inc	6,753	1.3
17	Coronado Coal LLC	6,163	1.2
18	Wolverine Fuels LLC	6,108	1.2
19	J Clifford Forrest	5,610	1.1
20	Iron Senergy Holding LLC	5,153	1.0
	Subtotal	433,057	84.5
	All Other Coal Producers	79,483	15.5
	U.S. Total	512,540	100.0

Notes: The listed companies each produced more than 5 million short tons of coal in 2024. A controlling company of a mine is defined as the company 'controlling the coal, particularly the sale of the coal.' Most often, but not always, this is the owner of the mine.

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

Productive Capacity

Table 11. Productive Capacity of Coal Mines by State, 2024 and 2023

(thousand short tons)

Coal-Producing State	2024			2023			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	22,254	1,780	24,033	13,155	1,852	15,008	69.2	-3.9	60.1
Alaska	-	3,000	3,000	-	3,000	3,000	-	-	-
Colorado	13,750	6,885	20,635	13,250	7,600	20,850	3.8	-9.4	-1.0
Illinois	42,496	1,100	43,596	43,879	930	44,809	-3.2	18.3	-2.7
Indiana	14,250	12,737	26,987	14,400	15,780	30,180	-1.0	-19.3	-10.6
Kentucky Total	23,552	6,872	30,424	25,621	8,196	33,817	-8.1	-16.2	-10.0
Kentucky (East)	6,128	6,872	13,000	6,321	8,196	14,517	-3.1	-16.2	-10.5
Kentucky (West)	17,424	-	17,424	19,300	-	19,300	-9.7	-	-9.7
Louisiana	-	385	385	-	385	385	-	-	-
Maryland	600	1,334	1,934	600	994	1,594	-	34.2	21.3
Mississippi	-	3,600	3,600	-	3,600	3,600	-	-	-
Missouri	-	150	150	-	150	150	-	-	-
Montana	11,000	33,500	44,500	11,000	33,500	44,500	-	-	-
New Mexico	-	18,570	18,570	-	10,570	10,570	-	75.7	75.7
North Dakota	-	32,100	32,100	-	32,100	32,100	-	-	-
Ohio	900	1,594	2,494	850	2,188	3,038	5.9	-27.1	-17.9
Pennsylvania Total	41,521	6,715	48,235	42,407	8,022	50,429	-2.1	-16.3	-4.4
Pennsylvania (Anthracite)	45	4,476	4,521	52	4,313	4,365	-13.5	3.8	3.6
Pennsylvania (Bituminous)	41,476	2,239	43,715	42,355	3,709	46,064	-2.1	-39.6	-5.1
Texas	-	14,367	14,367	-	17,287	17,287	-	-16.9	-16.9
Utah	12,000	-	12,000	12,159	2,000	14,159	-1.3	-	-15.2
Virginia	8,736	2,672	11,408	9,056	3,182	12,238	-3.5	-16.0	-6.8
West Virginia Total	84,436	20,304	104,740	91,294	23,086	114,380	-7.5	-12.1	-8.4
West Virginia (Northern)	58,490	400	58,890	62,306	502	62,809	-6.1	-20.3	-6.2
West Virginia (Southern)	25,946	19,904	45,850	28,988	22,584	51,571	-10.5	-11.9	-11.1
Wyoming	-	389,652	389,652	-	394,913	394,913	-	-1.3	-1.3
U.S. Total	275,495	557,316	832,810	277,671	569,336	847,008	-0.8	-2.1	-1.7

- = No data reported.

Notes: Productive capacity is the maximum amount of coal that can be produced annually as reported by mining companies on Form EIA-7A, 'Annual Survey of Coal Production and Preparation.' Excluding refuse recovery and mines producing less than 50,000 short tons, which are not required to provide data. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Table 12. Capacity Utilization of Coal Mines by State, 2024 and 2023

(percent)

Coal-Producing State	2024			2023		
	Underground	Surface	Total	Underground	Surface	Total
Alabama	60.53	48.34	59.63	84.34	46.84	79.71
Alaska	-	33.45	33.45	-	33.63	33.63
Colorado	52.29	75.54	60.05	56.18	64.84	59.33
Illinois	78.90	62.78	78.50	82.26	79.61	82.20
Indiana	79.38	69.37	74.65	95.34	63.48	78.68
Kentucky Total	77.07	77.75	77.23	82.58	75.41	80.84
Kentucky (East)	68.15	77.75	73.23	82.67	75.41	78.57
Kentucky (West)	80.21	-	80.21	82.55	-	82.55
Louisiana	-	68.67	68.67	-	75.02	75.02
Maryland	83.93	58.67	66.51	66.32	77.27	73.15
Mississippi	-	56.71	56.71	-	74.58	74.58
Missouri	-	98.21	98.21	-	93.13	93.13
Montana	64.25	59.45	60.64	68.92	64.15	65.33
New Mexico	-	38.77	38.77	-	75.57	75.57
North Dakota	-	79.17	79.17	-	75.04	75.04
Ohio	86.64	61.03	70.27	83.79	54.75	62.87
Pennsylvania Total	86.96	59.26	83.10	88.32	59.24	83.69
Pennsylvania (Anthracite)	94.64	64.27	64.57	87.39	63.73	64.01
Pennsylvania (Bituminous)	86.95	49.24	85.02	88.32	54.03	85.56
Texas	-	85.59	85.59	-	79.91	79.91
Utah	61.83	-	61.83	56.37	3.33	48.88
Virginia	83.83	81.05	83.18	84.43	79.03	83.03
West Virginia Total	74.21	79.27	75.19	73.42	71.55	73.04
West Virginia (Northern)	68.37	61.95	68.33	70.91	85.40	71.03
West Virginia (Southern)	87.37	79.61	84.00	78.80	71.24	75.49
Wyoming	-	48.95	48.95	-	60.08	60.08
U.S. Total	74.60	54.54	61.17	78.22	62.76	67.83

- = No data reported.

Notes: Capacity utilization is the ratio of annual production to annual productive capacity. Excludes refuse recovery and mines producing less than 50,000 short tons, which are not required to provide data. Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' for productive capacity, and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report,' for annual production.

Table 13. Productive Capacity and Capacity Utilization of Underground Coal Mines by State and Mining Method, 2024

(thousand short tons)

Coal-Producing State	Continuous		Conventional and Other ¹		Longwall		Total	
	Productive Capacity	Capacity Utilization Percent	Productive Capacity	Capacity Utilization Percent	Productive Capacity	Capacity Utilization Percent	Productive Capacity	Capacity Utilization Percent
Alabama	8,409	35.02	s	-	13,845	76.03	22,254	60.53
Colorado	3,470	56.20	s	-	10,280	50.98	13,750	52.29
Illinois	18,016	85.10	s	-	24,480	74.34	42,496	78.90
Indiana	14,250	79.38	s	-	s	-	14,250	79.38
Kentucky Total	23,552	77.07	s	-	s	-	23,552	77.07
Kentucky (East)	6,128	68.15	s	-	s	-	6,128	68.15
Kentucky (West)	17,424	80.21	s	-	s	-	17,424	80.21
Maryland	600	83.93	s	-	s	-	600	83.93
Montana	1,100	64.25	s	-	9,900	64.25	11,000	64.25
Ohio	900	86.64	s	-	s	-	900	86.64
Pennsylvania Total	8,832	84.66	35	93.11	32,654	87.57	41,521	86.96
Pennsylvania (Anthracite)	10	100.00	35	93.11	s	-	45	94.64
Pennsylvania (Bituminous)	8,822	84.64	s	-	32,654	87.57	41,476	86.95
Utah	4,150	58.34	s	-	7,850	63.68	12,000	61.83
Virginia	4,707	90.55	s	-	4,029	75.98	8,736	83.83
West Virginia Total	32,163	83.57	s	-	52,273	68.45	84,436	74.21
West Virginia (Northern)	6,217	67.71	s	-	52,273	68.45	58,490	68.37
West Virginia (Southern)	25,946	87.37	s	-	s	-	25,946	87.37
U.S. Total	120,149	77.17	35	93.11	155,311	72.60	275,495	74.60

- = No data reported.

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

¹ Mines that produce coal using shortwall, scoop loading, hand loading, or other methods.

Notes: Productive capacity is the maximum amount of coal that can be produced annually. Capacity utilization is the ratio of total production to annual productive capacity. Excludes refuse recovery and mines producing less than 50,000 short tons, which are not required to provide data. Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' for productive capacity, and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mines Employment and Coal Production Report,' for annual production.

Table 13.1 Productive Capacity and Capacity Utilization of Surface Coal Mines by State and Mining Method, 2024

(thousand short tons)

Coal-Producing State	Contour Strip		Area		Open Pit		Mountaintop Mining		Other ¹		Total	
	Productive Capacity	Capacity Utilization Percent										
Alabama	1,435	50.84	-	-	-	-	-	-	345	37.94	1,780	48.34
Alaska	1,500	33.45	-	-	1,500	33.45	-	-	-	-	3,000	33.45
Colorado	1,656	66.17	-	-	750	68.56	-	-	4,479	80.17	6,885	75.54
Illinois	-	-	1,000	59.14	-	-	-	-	100	99.22	1,100	62.78
Indiana	405	53.90	1,096	55.80	9,175	72.82	-	-	2,061	64.27	12,737	69.37
Kentucky Total	2,876	83.89	1,455	71.62	-	-	-	-	2,542	74.31	6,872	77.75
Kentucky (East)	2,876	83.89	1,455	71.62	-	-	-	-	2,542	74.31	6,872	77.75
Louisiana	-	-	385	68.67	-	-	-	-	-	-	385	68.67
Maryland	134	100.00	500	45.58	-	-	-	-	700	60.08	1,334	58.67
Mississippi	3,600	56.71	-	-	-	-	-	-	-	-	3,600	56.71
Missouri	150	98.21	-	-	-	-	-	-	-	-	150	98.21
Montana	23,500	59.31	10,000	59.78	-	-	-	-	-	-	33,500	59.45
New Mexico	12,000	20.33	-	-	6,570	72.44	-	-	-	-	18,570	38.77
North Dakota	27,100	78.13	-	-	5,000	84.81	-	-	-	-	32,100	79.17
Ohio	890	65.88	465	56.42	-	-	-	-	239	51.96	1,594	61.03
Pennsylvania Total	1,760	66.62	-	-	4,438	55.31	-	-	517	68.10	6,715	59.26
Pennsylvania (Anthracite)	1,476	69.66	-	-	2,662	61.09	-	-	338	65.72	4,476	64.27
Pennsylvania (Bituminous)	284	50.78	-	-	1,776	46.64	-	-	179	72.62	2,239	49.24
Texas	-	-	8,917	100.00	5,450	62.01	-	-	-	-	14,367	85.59
Virginia	1,400	80.35	160	98.15	-	-	240	62.03	872	84.27	2,672	81.05
West Virginia Total	7,529	74.93	2,655	88.43	1,000	77.92	2,120	89.81	7,000	77.45	20,304	79.27
West Virginia (Northern)	280	65.27	120	54.19	-	-	-	-	-	-	400	61.95
West Virginia (Southern)	7,249	75.31	2,535	90.05	1,000	77.92	2,120	89.81	7,000	77.45	19,904	79.61
Wyoming	245,400	32.15	5,000	8.68	139,252	80.00	-	-	-	-	389,652	48.95
U.S. Total	331,334	39.92	31,633	65.86	173,135	77.81	2,360	86.99	18,854	74.72	557,316	54.54

- = No data reported.

¹ Mines that: 1. produce coal using auger, highwall mine, or punch.

Notes: Productive capacity is the maximum amount of coal that can be produced annually. Capacity utilization is the ratio of total production to annual productive capacity. Excludes refuse recovery and mines producing less than 50,000 short tons, which are not required to provide data. Totals may not equal sum of components because of independent rounding. Mines reporting multiple mining methods are assigned to the mining method with the greatest percentage of production reported.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' for productive capacity, and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mines Employment and Coal Production Report,' for annual production.

Recoverable Reserves

Table 14. Recoverable Coal Reserves at Producing Mines by State, 2024 and 2023

(million short tons)

Coal-Producing State	2024	2023	Percent Change Recoverable Coal Reserves
	Recoverable Coal Reserves	Recoverable Coal Reserves	
Alabama	238	170	39.6
Alaska	43	44	-2.3
Colorado	98	205	-52.3
Illinois	1,759	1,811	-2.9
Indiana	231	271	-15.0
Kentucky Total	384	391	-1.6
Kentucky (East)	154	147	4.6
Kentucky (West)	230	243	-5.5
Louisiana	12	12	-2.2
Maryland	7	8	-11.9
Mississippi	97	99	-2.1
Missouri	s	s	-56.7
Montana	315	383	-17.8
New Mexico	31	28	11.1
North Dakota	553	580	-4.6
Ohio	34	33	1.6
Pennsylvania Total	941	979	-3.9
Pennsylvania (Anthracite)	135	137	-1.8
Pennsylvania (Bituminous)	806	842	-4.3
Texas	224	336	-33.3
Utah	94	101	-7.3
Virginia	138	141	-2.3
West Virginia Total	1,797	1,810	-0.7
West Virginia (Northern)	1,236	1,276	-3.1
West Virginia (Southern)	561	533	5.1
Wyoming	3,597	3,796	-5.2
U.S. Total	10,593	11,200	-5.4

- = No data reported.

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

Notes: Recoverable reserves represent the quantity of coal that can be recovered (i.e. mined) from existing coal reserves at reporting mines. Excludes refuse recovery and mines producing less than 50,000 short tons, which are not required to provide data. Totals may not equal sum of components because of independent rounding.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 15. Recoverable Coal Reserves at Producing Mines, Estimated Recoverable Reserves, and Demonstrated Reserve Base by Mining Method, 2024

(million short tons)

Coal-Resource State	Underground - Minable Coal			Surface - Minable Coal			Total		
	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base	Recoverable Reserves at Producing Mines	Estimated Recoverable Reserves	Demonstrated Reserve Base
Alabama	233	294	583	6	2,205	3,096	238	2,499	3,679
Alaska	-	2,335	5,423	43	474	655	43	2,808	6,078
Arkansas	-	126	271	-	101	144	-	227	415
Colorado	80	5,645	10,756	18	3,740	4,754	98	9,385	15,510
Georgia	-	1	2	-	1	2	-	2	4
Idaho	-	2	4	-	-	-	-	2	4
Illinois	1,756	27,476	86,497	3	10,019	16,462	1,759	37,495	102,959
Indiana	81	3,403	8,217	150	189	323	231	3,592	8,540
Iowa	-	807	1,732	-	320	457	-	1,127	2,189
Kansas	-	-	-	-	679	970	-	679	970
Kentucky Total	338	6,594	15,373	46	7,171	12,417	384	13,766	27,790
Kentucky (East)	108	232	416	46	4,954	8,871	154	5,186	9,287
Kentucky (West)	230	6,362	14,957	-	2,218	3,546	230	8,580	18,503
Louisiana	-	-	-	12	271	365	12	271	365
Maryland	4	302	551	3	23	33	7	324	584
Michigan	-	55	123	-	3	5	-	58	128
Mississippi	-	-	-	97	-	-	97	-	-
Missouri	-	689	1,479	s	3,153	4,504	-	3,842	5,983
Montana	161	35,820	70,756	154	38,406	47,521	315	74,226	118,277
New Mexico	-	2,725	5,991	31	3,963	5,668	31	6,688	11,659
North Carolina	-	5	11	-	-	-	-	5	11
North Dakota	-	-	-	553	6,398	8,387	553	6,398	8,387
Ohio	30	7,542	17,143	4	3,689	5,635	34	11,231	22,779
Oklahoma	-	569	1,221	-	218	312	-	787	1,533
Oregon	-	6	15	-	2	3	-	9	17
Pennsylvania Total	792	9,808	21,532	149	945	4,072	941	10,753	25,604
Pennsylvania (Anthracite)	s	340	3,839	135	414	3,310	135	754	7,149
Pennsylvania (Bituminous)	792	9,468	17,693	14	531	762	806	9,999	18,455
South Dakota	-	-	-	-	277	366	-	277	366
Tennessee	-	270	494	-	170	251	-	441	744
Texas	-	-	-	224	8,944	11,620	224	8,944	11,620
Utah	94	2,217	4,522	-	206	260	94	2,423	4,783
Virginia	126	396	705	12	280	437	138	676	1,142
Washington	-	674	1,332	-	6	8	-	681	1,340
West Virginia Total	1,625	14,059	26,342	173	1,874	2,970	1,797	15,932	29,311
West Virginia (Northern)	1,233	NA	NA	3	NA	NA	1,236	NA	NA
West Virginia (Southern)	391	NA	NA	169	NA	NA	561	NA	NA
Wyoming	-	22,901	42,409	3,597	10,902	13,169	3,597	33,803	55,578
U.S. Total	5,319	144,721	323,483	5,274	104,630	144,867	10,593	249,351	468,350

-- No data reported.

NA = Not Available.

s = Value is less than 0.5 of the table metric.

Notes: Recoverable coal reserves at producing mines represent the quantity of coal that can be recovered (i.e. mined) from existing coal reserves at reporting mines. EIA's estimated recoverable reserves include the coal in the demonstrated reserve base considered recoverable after excluding coal estimated to be unavailable due to land use restrictions, and after applying assumed mining recovery rates. This estimate does not include any specific economic feasibility criteria. The effective date for the demonstrated reserve base, as customarily worded, is 'Remaining as of January 1, 2025.' These data are contemporaneous with the Recoverable Reserves at Producing Mines, customarily presented as of the end of the reporting year's mining, that is in this case, December 31, 2024. The demonstrated reserve base includes publicly available data on coal mapped to measured and indicated degrees of accuracy and found at depths and in coalbed thicknesses considered technologically minable at the time of determinations; see Glossary for criteria. All reserve expressions exclude silt, culm, refuse bank, slurry dam, and dredge operations. Reserves at Producing Mines exclude mines producing less than 50,000 short tons, which are not required to provide reserves data.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 16. Recoverable Coal Reserves at Producing Underground Coal Mines by State and Mining Method, 2024

(million short tons)

Coal-Producing State	Continuous	Conventional and Other ¹	Longwall	Total
	Recoverable Coal Reserves at Producing Mines			
Alabama	118	s	115	233
Colorado	26	s	54	80
Illinois	489	s	1,267	1,756
Indiana	81	s	s	81
Kentucky Total	338	s	s	338
Kentucky (East)	108	s	s	108
Kentucky (West)	230	s	s	230
Maryland	4	s	s	4
Montana	16	s	145	161
Ohio	30	s	s	30
Pennsylvania Total	109	s	683	792
Pennsylvania (Anthracite)	s	s	s	s
Pennsylvania (Bituminous)	109	s	683	792
Utah	36	s	58	94
Virginia	46	s	80	126
West Virginia Total	517	s	1,108	1,625
West Virginia (Northern)	125	s	1,108	1,233
West Virginia (Southern)	391	s	s	391
U.S. Total	1,809	s	3,509	5,319

- = No data reported.

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

¹ Mines that produce coal using shortwall, scoop loading, hand loading, or other methods.

Notes: Recoverable coal reserves at producing mines represent the quantity of coal that can be recovered (i.e. mined) from existing coal reserves at reporting mines. Excludes mines producing less than 50,000 short tons, which are not required to provide data and refuse recovery.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mines Employment and Coal Production Report.'

Table 16.1 Recoverable Coal Reserves at Producing Surface Coal Mines by State and Mining Method, 2024

(million short tons)

Coal-Producing State	Contour Strip	Area	Open Pit	Mountaintop Mining	Other ¹	Total
	Recoverable Coal Reserves at Producing Mines					
Alabama	5	-	-	-	s	6
Alaska	21	-	21	-	-	43
Colorado	6	-	2	-	9	18
Illinois	-	3	-	-	s	3
Indiana	1	8	136	-	4	150
Kentucky Total	34	11	-	-	2	46
Kentucky (East)	34	11	-	-	2	46
Louisiana	-	12	-	-	-	12
Maryland	s	3	-	-	s	3
Mississippi	97	-	-	-	-	97
Missouri	s	-	-	-	-	s
Montana	148	6	-	-	-	154
New Mexico	9	-	22	-	-	31
North Dakota	500	-	53	-	-	553
Ohio	3	1	-	-	1	4
Pennsylvania Total	63	-	85	-	s	149
Pennsylvania (Anthracite)	63	-	72	-	s	135
Pennsylvania (Bituminous)	s	-	14	-	s	14
Texas	-	165	59	-	-	224
Virginia	8	1	-	1	2	12
West Virginia Total	111	18	1	18	26	173
West Virginia (Northern)	2	2	-	-	-	3
West Virginia (Southern)	109	16	1	18	26	169
Wyoming	1,501	47	2,049	-	-	3,597
U.S. Total	2,507	273	2,430	18	46	5,274

- = No data reported.

s = Value is less than 0.5 of the table metric.

1 Mines that: 1. produce coal using auger, highwall mine, or punch.

Notes: Recoverable coal reserves at producing mines represent the quantity of coal that can be recovered (i.e. mined) from existing coal reserves at reporting mines. Excludes mines producing less than 50,000 short tons, which are not required to provide data and refuse recovery. Mines reporting multiple mining methods are assigned to the mining method with the greatest percentage of production reported.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mines Employment and Coal Production Report.'

Table 17. Recoverable Coal Reserves at Producing U.S. Mines by Mine Production Range and Mine Type, 2024

(million short tons)

Mine Production Range (thousand short tons)	Underground	Surface	Total
	Recoverable Coal Reserves	Recoverable Coal Reserves	Recoverable Coal Reserves
Over 1,000	4,440	4,827	9,267
Over 500 to 1,000	297	45	342
Over 200 to 500	458	249	707
Over 100 to 200	92	89	181
Over 50 to 100	31	29	60
Over 10 to 50	s	36	36
U.S. Total	5,319	5,274	10,593

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

Note: Recoverable coal reserves at producing mines represent the quantity of coal that can be recovered (i.e. mined) from existing coal reserves at reporting mines.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mines Employment and Coal Production Report.'

Employment

Table 18. Average Number of Employees by State and Mine Type, 2024 and 2023

Coal-Producing State and Region ¹	2024			2023			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	2,292	233	2,525	1,914	345	2,259	19.7	-32.5	11.8
Alaska	-	105	105	-	105	105	-	-	-
Colorado	809	357	1,166	906	386	1,292	-10.7	-7.5	-9.8
Illinois	2,215	67	2,282	2,213	102	2,315	0.1	-34.3	-1.4
Indiana	1,216	824	2,040	1,484	1,006	2,490	-18.1	-18.1	-18.1
Kentucky Total	3,244	1,182	4,426	3,706	1,323	5,029	-12.5	-10.7	-12.0
Kentucky (East)	1,702	1,182	2,884	2,063	1,323	3,386	-17.5	-10.7	-14.8
Kentucky (West)	1,542	-	1,542	1,643	-	1,643	-6.1	-	-6.1
Louisiana	-	34	34	-	35	35	-	-2.9	-2.9
Maryland	161	146	307	147	132	279	9.5	10.6	10.0
Mississippi	-	217	217	-	236	236	-	-8.1	-8.1
Missouri	-	8	8	-	8	8	-	-	-
Montana	263	661	924	266	667	933	-1.1	-0.9	-1.0
New Mexico	-	585	585	-	598	598	-	-2.2	-2.2
North Dakota	-	1,200	1,200	-	1,175	1,175	-	2.1	2.1
Ohio	142	185	327	142	193	335	-	-4.1	-2.4
Oklahoma	-	1	1	-	1	1	-	-	-
Pennsylvania Total	3,363	1,463	4,826	3,395	1,430	4,825	-0.9	2.3	-
Pennsylvania (Anthracite)	52	967	1,019	58	916	974	-10.3	5.6	4.6
Pennsylvania (Bituminous)	3,311	496	3,807	3,337	514	3,851	-0.8	-3.5	-1.1
Tennessee	-	-	-	4	-	4	-	-	-
Texas	-	651	651	-	837	837	-	-22.2	-22.2
Utah	1,254	29	1,283	1,365	56	1,421	-8.1	-48.2	-9.7
Virginia	1,653	818	2,471	1,661	869	2,530	-0.5	-5.9	-2.3
West Virginia Total	11,014	3,163	14,177	10,823	3,191	14,014	1.8	-0.9	1.2
West Virginia (Northern)	4,480	91	4,571	4,552	96	4,648	-1.6	-5.2	-1.7
West Virginia (Southern)	6,534	3,072	9,606	6,271	3,095	9,366	4.2	-0.7	2.6
Wyoming	-	4,374	4,374	-	4,722	4,722	-	-7.4	-7.4
Appalachia Total	20,327	7,190	27,517	20,149	7,483	27,632	0.9	-3.9	-0.4
Appalachia Central	9,889	5,072	14,961	9,999	5,287	15,286	-1.1	-4.1	-2.1
Appalachia Northern	8,146	1,885	10,031	8,236	1,851	10,087	-1.1	1.8	-0.6
Appalachia Southern	2,292	233	2,525	1,914	345	2,259	19.7	-32.5	11.8
Interior Region Total	4,973	1,802	6,775	5,340	2,225	7,565	-6.9	-19.0	-10.4
Illinois Basin	4,973	891	5,864	5,340	1,108	6,448	-6.9	-19.6	-9.1
Other Interior	-	911	911	-	1,117	1,117	-	-18.4	-18.4
Western Region Total	2,326	7,311	9,637	2,537	7,709	10,246	-8.3	-5.2	-5.9
Powder River Basin	-	4,509	4,509	-	4,801	4,801	-	-6.1	-6.1
Uinta Basin	1,959	386	2,345	2,078	427	2,505	-5.7	-9.6	-6.4
Other Western	367	2,416	2,783	459	2,481	2,940	-20.0	-2.6	-5.3
East of Mississippi River	25,300	8,298	33,598	25,489	8,827	34,316	-0.7	-6.0	-2.1
West of Mississippi River	2,326	8,005	10,331	2,537	8,590	11,127	-8.3	-6.8	-7.2
U.S. Subtotal	27,626	16,303	43,929	28,026	17,417	45,443	-1.4	-6.4	-3.3
Refuse Recovery	-	-	131	-	-	33	-	-	297.0
U.S. Total	27,626	16,303	44,060	28,026	17,417	45,476	-1.4	-6.4	-3.1

- = No data reported.

1 For a definition of coal producing regions, see the Glossary.

Notes: Includes all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes preparation plants with less than 5,000 employee hours per year, which are not required to provide data.

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

Table 18.1. Average Number of Employees and Number of Mines by State and Coal Type, 2024

Coal-Producing State ¹	Number of Mines			Average Number of Employees		
	Metallurgical ²	Non-Metallurgical ²	Total ³	Metallurgical ²	Non-Metallurgical ²	Total ³
Alabama	6	16	18	1,867	560	2,427
Alaska	-	1	1	-	105	105
Colorado	-	8	8	-	1,166	1,166
Illinois	-	13	13	-	2,144	2,144
Indiana	-	15	15	-	1,962	1,962
Kentucky Total	13	92	94	525	3,282	3,807
Kentucky (East)	13	88	90	525	1,875	2,400
Kentucky (West)	-	4	4	-	1,407	1,407
Louisiana	-	1	1	-	34	34
Maryland	3	11	12	136	118	254
Mississippi	-	1	1	-	217	217
Missouri	-	1	1	-	8	8
Montana	-	4	4	-	913	913
New Mexico	-	3	3	-	585	585
North Dakota	-	4	4	-	1,200	1,200
Ohio	-	10	10	-	298	298
Oklahoma	-	1	1	-	1	1
Pennsylvania Total	33	92	112	1,363	2,860	4,223
Pennsylvania (Anthracite)	4	38	42	79	520	599
Pennsylvania (Bituminous)	29	54	70	1,284	2,340	3,624
Texas	-	3	3	-	651	651
Utah	-	5	5	-	1,293	1,293
Virginia	15	33	37	1,764	385	2,149
West Virginia Total	80	123	166	7,253	5,427	12,680
West Virginia (Northern)	4	11	11	1,306	3,072	4,378
West Virginia (Southern)	76	112	155	5,946	2,356	8,302
Wyoming	-	15	15	-	4,374	4,374
Appalachia Total	150	373	445	12,908	11,523	24,431
Appalachia Central	104	233	282	8,236	4,615	12,851
Appalachia Northern	40	124	145	2,805	6,348	9,153
Appalachia Southern	6	16	18	1,867	560	2,427
Interior Region Total	-	39	39	-	6,424	6,424
Illinois Basin	-	32	32	-	5,513	5,513
Other Interior	-	7	7	-	911	911
Western Region Total	-	40	40	-	9,636	9,636
Powder River Basin	-	15	15	-	4,498	4,498
Uinta Basin	-	12	12	-	2,355	2,355
Other Western	-	13	13	-	2,783	2,783
East of Mississippi River	150	406	478	12,908	17,253	30,161
West of Mississippi River	-	46	46	-	10,330	10,330
U.S. Total	150	452	524	12,908	27,583	40,491

- = No data reported.

1 For a definition of coal producing regions, see the Glossary.

2 Some mines produce both metallurgical and non-metallurgical.

3 Total may not equal the sum, as some mines produced both metallurgical and non-metallurgical.

Note: Excludes mines producing less than 50,000 tons per year, which are not required to provide data.

Sources: U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report', U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Table 19. Average Number of Employees at Underground and Surface Mines by State and Mine Production Range, 2024

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)							Total Number of Employees	
	Above 1,000	Above 500 to 1,000	Above 200 to 500	Above 100 to 200	Above 50 to 100	Above 10 to 50	Above 0 to 10		Zero ²
Alabama	1,957	-	306	89	56	13	6	98	2,525
Underground	1,957	-	160	65	23	-	-	87	2,292
Surface	-	-	146	24	33	13	6	11	233
Alaska	105	-	-	-	-	-	-	-	105
Surface	105	-	-	-	-	-	-	-	105
Colorado	830	319	17	-	-	-	-	-	1,166
Underground	490	319	-	-	-	-	-	-	809
Surface	340	-	17	-	-	-	-	-	357
Illinois	2,031	-	82	17	-	-	2	150	2,282
Underground	2,031	-	55	-	-	-	-	129	2,215
Surface	-	-	27	17	-	-	2	21	67
Indiana	1,711	18	171	22	31	9	-	78	2,040
Underground	1,064	-	74	-	-	-	-	78	1,216
Surface	647	18	97	22	31	9	-	-	824
Kentucky Total	1,239	462	973	308	379	306	140	573	4,426
Underground	1,239	366	669	38	286	189	66	355	3,244
Surface	-	96	304	270	93	117	74	218	1,182
Kentucky (East)	-	462	805	308	379	306	140	438	2,884
Underground	-	366	501	38	286	189	66	220	1,702
Surface	-	96	304	270	93	117	74	218	1,182
Kentucky (West)	1,239	-	168	-	-	-	-	135	1,542
Underground	1,239	-	168	-	-	-	-	135	1,542
Louisiana	-	-	34	-	-	-	-	-	34
Surface	-	-	34	-	-	-	-	-	34
Maryland	-	117	35	52	29	4	17	53	307
Underground	-	117	-	-	-	-	-	44	161
Surface	-	-	35	52	29	4	17	9	146
Mississippi	217	-	-	-	-	-	-	-	217
Surface	217	-	-	-	-	-	-	-	217
Missouri	-	-	-	8	-	-	-	-	8
Surface	-	-	-	8	-	-	-	-	8
Montana	845	68	-	-	-	-	-	11	924
Underground	263	-	-	-	-	-	-	-	263
Surface	582	68	-	-	-	-	-	11	661
New Mexico	585	-	-	-	-	-	-	-	585
Surface	585	-	-	-	-	-	-	-	585
North Dakota	1,200	-	-	-	-	-	-	-	1,200
Surface	1,200	-	-	-	-	-	-	-	1,200
Ohio	-	55	199	-	10	13	21	29	327
Underground	-	55	69	-	-	-	-	18	142
Surface	-	-	130	-	10	13	21	11	185
Oklahoma	-	-	-	-	-	-	1	-	1
Surface	-	-	-	-	-	-	1	-	1
Pennsylvania Total	2,276	131	660	623	113	271	136	563	4,826
Underground	2,276	131	498	210	48	18	14	156	3,363
Surface	-	-	162	413	65	253	122	407	1,463
Pennsylvania (Anthracite)	-	-	128	223	38	140	57	395	1,019
Underground	-	-	-	-	-	18	9	25	52
Surface	-	-	128	223	38	122	48	370	967
Pennsylvania (Bituminous)	2,276	131	532	400	75	131	79	168	3,807
Underground	2,276	131	498	210	48	-	5	131	3,311
Surface	-	-	34	190	27	131	74	37	496
Texas	651	-	-	-	-	-	-	-	651
Surface	651	-	-	-	-	-	-	-	651
Utah	1,078	-	152	-	-	-	-	42	1,283
Underground	1,078	-	152	-	-	-	-	24	1,254
Surface	-	-	-	-	-	-	-	18	29

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)								Total Number of Employees
	Above 1,000	Above 500 to 1,000	Above 200 to 500	Above 100 to 200	Above 50 to 100	Above 10 to 50	Above 0 to 10	Zero ²	
Virginia	1,118	-	475	227	174	134	20	323	2,471
Underground	1,118	-	215	40	47	60	-	173	1,653
Surface	-	-	260	187	127	74	20	150	818
West Virginia Total	5,855	2,998	1,949	790	483	406	157	1,488	14,177
Underground	5,421	2,388	1,287	422	210	185	34	1,067	11,014
Surface	434	610	662	368	273	221	123	421	3,163
West Virginia (Northern)	4,027	326	-	15	10	-	-	142	4,571
Underground	4,027	326	-	-	-	-	-	127	4,480
Surface	-	-	-	15	10	-	-	15	91
West Virginia (Southern)	1,828	2,672	1,949	775	473	406	157	1,346	9,606
Underground	1,394	2,062	1,287	422	210	185	34	940	6,534
Surface	434	610	662	353	263	221	123	406	3,072
Wyoming	4,292	-	82	-	-	-	-	-	4,374
Surface	4,292	-	82	-	-	-	-	-	4,374
Appalachia Total	11,206	3,763	4,429	2,089	1,244	1,147	497	2,992	27,517
Underground	10,772	3,057	2,730	775	614	452	114	1,765	20,327
Surface	434	706	1,699	1,314	630	695	383	1,227	7,190
Appalachia Central	2,946	3,134	3,229	1,310	1,026	846	317	2,107	14,961
Underground	2,512	2,428	2,003	500	543	434	100	1,333	9,889
Surface	434	706	1,226	810	483	412	217	774	5,072
Appalachia Northern	6,303	629	894	690	162	288	174	787	10,031
Underground	6,303	629	567	210	48	18	14	345	8,146
Surface	-	-	327	480	114	270	160	442	1,885
Appalachia Southern	1,957	-	306	89	56	13	6	98	2,525
Underground	1,957	-	160	65	23	-	-	87	2,292
Surface	-	-	146	24	33	13	6	11	233
Interior Region Total	5,849	18	455	47	31	9	3	363	6,775
Underground	4,334	-	297	-	-	-	-	342	4,973
Surface	1,515	18	158	47	31	9	3	21	1,802
Illinois Basin	4,981	18	421	39	31	9	2	363	5,864
Underground	4,334	-	297	-	-	-	-	342	4,973
Surface	647	18	124	39	31	9	2	21	891
Other Interior	868	-	34	8	-	-	1	-	911
Surface	868	-	34	8	-	-	1	-	911
Western Region Total	8,935	387	251	-	-	-	-	53	9,637
Underground	1,831	319	152	-	-	-	-	24	2,326
Surface	7,104	68	99	-	-	-	-	29	7,311
Powder River Basin	4,430	68	-	-	-	-	-	11	4,509
Surface	4,430	68	-	-	-	-	-	11	4,509
Uinta Basin	1,908	215	169	-	-	-	-	42	2,345
Underground	1,568	215	152	-	-	-	-	24	1,959
Surface	340	-	17	-	-	-	-	18	386
Other Western	2,597	104	82	-	-	-	-	-	2,783
Underground	263	104	-	-	-	-	-	-	367
Surface	2,334	-	82	-	-	-	-	-	2,416
East of Mississippi River	16,404	3,781	4,850	2,128	1,275	1,156	499	3,355	33,598
Underground	15,106	3,057	3,027	775	614	452	114	2,107	25,300
Surface	1,298	724	1,823	1,353	661	704	385	1,248	8,298
West of Mississippi River	9,586	387	285	8	-	-	1	53	10,331
Underground	1,831	319	152	-	-	-	-	24	2,326
Surface	7,755	68	133	8	-	-	1	29	8,005
U.S. Subtotal	25,990	4,168	5,135	2,136	1,275	1,156	500	3,408	43,929
Underground	16,937	3,376	3,179	775	614	452	114	2,131	27,626
Surface	9,053	792	1,956	1,361	661	704	386	1,277	16,303
Refuse Recovery	-	-	38	15	8	63	7	-	131
U.S. Total	25,990	4,168	5,173	2,151	1,283	1,219	507	3,408	44,060

-- No data reported.

1 For a definition of coal producing regions, see the Glossary.

2 Includes all employees at preparation plants and tipples not co-located with a mine.

Notes: Includes all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes preparation plants with less than 5,000 employee hours per year, which are not required to provide data.

Table 20. Average Number of Employees at Underground and Surface Mines by State and Union Status, 2024

Coal-Producing State and Region ¹	Union		Nonunion	
	Underground	Surface	Underground	Surface
Alabama	2,012	-	280	214
Alaska	-	105	-	-
Colorado	167	134	642	223
Illinois	-	-	2,215	77
Indiana	-	-	1,216	824
Kentucky Total	-	-	2,953	981
Kentucky (East)	-	-	1,411	981
Kentucky (West)	-	-	1,542	-
Louisiana	-	-	-	34
Maryland	-	-	161	125
Mississippi	-	-	-	217
Missouri	-	-	-	8
Montana	-	385	263	276
New Mexico	-	345	-	240
North Dakota	-	174	-	1,026
Ohio	-	-	142	167
Pennsylvania Total	689	322	2,648	899
Pennsylvania (Anthracite)	-	322	43	594
Pennsylvania (Bituminous)	689	-	2,605	305
Texas	-	361	-	290
Utah	-	-	1,254	18
Virginia	75	-	1,518	724
West Virginia Total	2,448	23	8,347	2,783
West Virginia (Northern)	2,234	-	2,246	40
West Virginia (Southern)	214	23	6,101	2,743
Wyoming	-	444	-	3,930
Appalachia Total	5,224	345	14,507	5,893
Appalachia Central	289	23	9,030	4,448
Appalachia Northern	2,923	322	5,197	1,231
Appalachia Southern	2,012	-	280	214
Interior Region Total	-	361	4,973	1,450
Illinois Basin	-	-	4,973	901
Other Interior	-	361	-	549
Western Region Total	167	1,587	2,159	5,713
Powder River Basin	-	385	-	4,124
Uinta Basin	167	134	1,792	241
Other Western	-	1,068	367	1,348
East of Mississippi River	5,224	345	19,480	7,011
West of Mississippi River	167	1,948	2,159	6,045
U.S. Total	5,391	2,293	21,639	13,056

- = No data reported.

¹ For a definition of coal producing regions, see the Glossary.

Notes: Includes all employees at preparation plants and tipples not co-located with a mine. Includes all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes mines producing less than 50,000 short tons and preparation plants with less than 5,000 employee hours per year, which are not required to provide data.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Productivity

Table 21. Coal Productivity by State and Mine Type, 2024 and 2023

Coal-Producing State, Region ¹ and Mine Type	Number of Mining Operations ²			Number of Employees ³			Average Production per Employee Hour (short tons) ⁴		
	2024	2023	Percent Change	2024	2023	Percent Change	2024	2023	Percent Change
Alabama	25	28	-10.7	2,525	2,259	11.8	2.23	2.06	8.2
Underground	12	11	9.1	2,292	1,914	19.7	2.28	2.14	6.4
Surface	13	17	-23.5	233	345	-32.5	1.70	1.42	19.5
Alaska	1	1	-	105	105	-	4.95	4.85	2.1
Surface	1	1	-	105	105	-	4.95	4.85	2.1
Colorado	8	10	-20.0	1,166	1,292	-9.8	5.06	4.71	7.3
Underground	4	6	-33.3	809	906	-10.7	4.09	4.10	-0.3
Surface	4	4	-	357	386	-7.5	7.50	6.06	23.7
Illinois	19	22	-13.6	2,282	2,315	-1.4	6.97	7.17	-2.7
Underground	12	12	-	2,215	2,213	0.1	7.06	7.33	-3.7
Surface	7	10	-30.0	67	102	-34.3	4.41	3.50	26.0
Indiana	17	20	-15.0	2,040	2,490	-18.1	4.23	4.07	3.9
Underground	6	6	-	1,216	1,484	-18.1	3.89	3.84	1.3
Surface	11	14	-21.4	824	1,006	-18.1	4.75	4.42	7.4
Kentucky Total	139	164	-15.2	4,426	5,029	-12.0	2.38	2.44	-2.3
Underground	64	72	-11.1	3,244	3,706	-12.5	2.50	2.50	-
Surface	75	92	-18.5	1,182	1,323	-10.7	2.06	2.26	-8.5
Kentucky (East)	132	157	-15.9	2,884	3,386	-14.8	1.60	1.65	-3.4
Underground	57	65	-12.3	1,702	2,063	-17.5	1.24	1.25	-0.8
Surface	75	92	-18.5	1,182	1,323	-10.7	2.06	2.26	-8.5
Kentucky (West)	7	7	-	1,542	1,643	-6.1	3.73	3.86	-3.4
Underground	7	7	-	1,542	1,643	-6.1	3.73	3.86	-3.4
Louisiana	1	1	-	34	35	-2.9	3.99	4.05	-1.4
Surface	1	1	-	34	35	-2.9	3.99	4.05	-1.4
Maryland	14	13	7.7	307	279	10.0	1.97	2.18	-9.8
Underground	2	2	-	161	147	9.5	1.41	1.29	9.0
Surface	12	11	9.1	146	132	10.6	2.61	3.17	-17.6
Mississippi	1	1	-	217	236	-8.1	4.60	5.50	-16.3
Surface	1	1	-	217	236	-8.1	4.60	5.50	-16.3
Missouri	1	1	-	8	8	-	9.08	8.94	1.5
Surface	1	1	-	8	8	-	9.08	8.94	1.5
Montana	5	5	-	924	933	-1.0	14.74	14.68	0.4
Underground	1	1	-	263	266	-1.1	12.66	11.78	7.4
Surface	4	4	-	661	667	-0.9	15.65	16.07	-2.6
New Mexico	3	2	50.0	585	598	-2.2	6.35	6.79	-6.6
Surface	3	2	50.0	585	598	-2.2	6.35	6.79	-6.6
North Dakota	4	4	-	1,200	1,175	2.1	10.83	10.57	2.4
Surface	4	4	-	1,200	1,175	2.1	10.83	10.57	2.4
Ohio	15	14	7.1	327	335	-2.4	2.48	2.52	-1.3
Underground	5	5	-	142	142	-	2.42	2.17	11.4
Surface	10	9	11.1	185	193	-4.1	2.54	2.77	-8.4
Oklahoma	1	1	-	1	1	-	0.39	1.96	-79.8
Surface	1	1	-	1	1	-	0.39	1.96	-79.8
Pennsylvania Total	158	165	-4.2	4,826	4,825	-	3.92	4.01	-2.3
Underground	45	49	-8.2	3,363	3,395	-0.9	4.89	4.89	-
Surface	113	116	-2.6	1,463	1,430	2.3	1.51	1.75	-13.7
Pennsylvania (Anthracite)	73	78	-6.4	1,019	974	4.6	1.45	1.46	-0.3
Underground	12	15	-20.0	52	58	-10.3	0.57	0.55	3.4
Surface	61	63	-3.2	967	916	5.6	1.49	1.51	-0.9
Pennsylvania (Bituminous)	85	87	-2.3	3,807	3,851	-1.1	4.52	4.59	-1.4
Underground	33	34	-2.9	3,311	3,337	-0.8	4.94	4.95	-0.1
Surface	52	53	-1.9	496	514	-3.5	1.54	2.15	-28.4
Tennessee	-	1	-	-	4	-	-	-	-
Underground	-	1	-	-	4	-	-	-	-
Texas	3	4	-25.0	651	837	-22.2	8.45	7.73	9.2
Surface	3	4	-25.0	651	837	-22.2	8.45	7.73	9.2

Coal-Producing State, Region ¹ and Mine Type	Number of Mining Operations ²			Number of Employees ³			Average Production per Employee Hour (short tons) ⁴		
	2024	2023	Percent Change	2024	2023	Percent Change	2024	2023	Percent Change
Utah	10	13	-23.1	1,283	1,421	-9.7	2.76	2.45	12.6
Underground	7	9	-22.2	1,254	1,365	-8.1	2.82	2.52	12.0
Surface	3	4	-25.0	29	56	-48.2	-	0.64	-
Virginia	62	70	-11.4	2,471	2,530	-2.3	1.75	1.83	-4.3
Underground	21	25	-16.0	1,653	1,661	-0.5	1.94	2.01	-3.5
Surface	41	45	-8.9	818	869	-5.9	1.35	1.49	-8.9
West Virginia Total	254	247	2.8	14,177	14,014	1.2	2.41	2.57	-6.2
Underground	113	112	0.9	11,014	10,823	1.8	2.43	2.65	-8.1
Surface	141	135	4.4	3,163	3,191	-0.9	2.32	2.30	1.0
West Virginia (Northern)	18	23	-21.7	4,571	4,648	-1.7	3.72	4.04	-8.0
Underground	13	16	-18.8	4,480	4,552	-1.6	3.75	4.07	-8.0
Surface	5	7	-28.6	91	96	-5.2	1.57	2.25	-29.9
West Virginia (Southern)	236	224	5.4	9,606	9,366	2.6	1.77	1.82	-3.0
Underground	100	96	4.2	6,534	6,271	4.2	1.51	1.58	-5.0
Surface	136	128	6.3	3,072	3,095	-0.7	2.34	2.30	1.7
Wyoming	15	15	-	4,374	4,722	-7.4	22.29	24.94	-10.6
Surface	15	15	-	4,374	4,722	-7.4	22.29	24.94	-10.6
Appalachia Total	660	695	-5.0	27,517	27,632	-0.4	2.49	2.58	-3.5
Underground	255	270	-5.6	20,327	20,149	0.9	2.66	2.76	-3.7
Surface	405	425	-4.7	7,190	7,483	-3.9	2.01	2.09	-4.1
Appalachia Central	430	452	-4.9	14,961	15,286	-2.1	1.73	1.79	-3.0
Underground	178	187	-4.8	9,889	9,999	-1.1	1.54	1.59	-3.4
Surface	252	265	-4.9	5,072	5,287	-4.1	2.12	2.16	-1.8
Appalachia Northern	205	215	-4.7	10,031	10,087	-0.6	3.72	3.93	-5.4
Underground	65	72	-9.7	8,146	8,236	-1.1	4.13	4.32	-4.4
Surface	140	143	-2.1	1,885	1,851	1.8	1.71	1.99	-14.2
Appalachia Southern	25	28	-10.7	2,525	2,259	11.8	2.23	2.06	8.2
Underground	12	11	9.1	2,292	1,914	19.7	2.28	2.14	6.4
Surface	13	17	-23.5	233	345	-32.5	1.70	1.42	19.5
Interior Region Total	50	57	-12.3	6,775	7,565	-10.4	5.40	5.35	0.8
Underground	25	25	-	4,973	5,340	-6.9	5.16	5.21	-1.0
Surface	25	32	-21.9	1,802	2,225	-19.0	6.07	5.72	6.2
Illinois Basin	43	49	-12.2	5,864	6,448	-9.1	5.09	5.07	0.5
Underground	25	25	-	4,973	5,340	-6.9	5.16	5.21	-1.0
Surface	18	24	-25.0	891	1,108	-19.6	4.72	4.34	8.8
Other Interior	7	8	-12.5	911	1,117	-18.4	7.44	7.16	3.9
Surface	7	8	-12.5	911	1,117	-18.4	7.44	7.16	3.9
Western Region Total	46	50	-8.0	9,637	10,246	-5.9	14.11	15.46	-8.7
Underground	12	16	-25.0	2,326	2,537	-8.3	4.38	4.22	3.7
Surface	34	34	-	7,311	7,709	-5.2	17.49	19.24	-9.1
Powder River Basin	16	16	-	4,509	4,801	-6.1	23.20	25.92	-10.5
Surface	16	16	-	4,509	4,801	-6.1	23.20	25.92	-10.5
Uinta Basin	17	19	-10.5	2,345	2,505	-6.4	3.87	3.62	6.8
Underground	10	12	-16.7	1,959	2,078	-5.7	3.32	3.20	3.7
Surface	7	7	-	386	427	-9.6	6.93	5.63	23.1
Other Western	13	15	-13.3	2,783	2,940	-5.3	8.69	8.36	4.0
Underground	2	4	-50.0	367	459	-20.0	10.54	8.83	19.3
Surface	11	11	-	2,416	2,481	-2.6	8.40	8.26	1.7
East of Mississippi River	704	745	-5.5	33,598	34,316	-2.1	2.96	3.07	-3.7
Underground	280	295	-5.1	25,300	25,489	-0.7	3.14	3.27	-4.0
Surface	424	450	-5.8	8,298	8,827	-6.0	2.37	2.46	-3.8
West of Mississippi River	52	57	-8.8	10,331	11,127	-7.2	13.68	14.81	-7.6
Underground	12	16	-25.0	2,326	2,537	-8.3	4.38	4.22	3.7
Surface	40	41	-2.4	8,005	8,590	-6.8	16.59	17.98	-7.7
U.S. Subtotal	756	802	-5.7	43,929	45,443	-3.3	5.23	5.66	-7.5
Underground	292	311	-6.1	27,626	28,026	-1.4	3.24	3.35	-3.3
Surface	464	491	-5.5	16,303	17,417	-6.4	8.94	9.70	-7.9
Refuse Recovery	16	17	-5.9	131	33	297.0	2.61	6.09	-57.2
U.S. Total	772	819	-5.7	44,060	45,476	-3.1	5.22	5.66	-7.6

- = No data reported.

1 For a definition of coal producing regions, see the Glossary.

2 Mining operations that consist of a mine and preparation plant or preparation plant processing both underground and surface coal are reported as two operations.

3 Includes all employees engaged in production, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers.

4 Calculated by dividing total coal production by the total labor hours worked by all employees engaged in production, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers.

Notes: Excludes preparation plants with less than 5,000 employee hours per year, which are not required to provide data.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 22. Underground Coal Mining Productivity by State and Mining Method, 2024

(short tons produced per employee hour)

Coal-Producing State, Region ¹ and Mine Type	Continuous	Conventional and Other ²	Longwall	Total
Alabama	2.33	-	2.38	2.28
Colorado	3.70	-	4.26	4.09
Illinois	6.93	-	8.05	7.06
Indiana	4.11	-	-	3.89
Kentucky Total	2.92	-	-	2.56
Kentucky (East)	1.51	-	-	1.24
Kentucky (West)	4.04	-	-	3.73
Maryland	1.86	-	-	1.41
Montana	12.66	-	12.66	12.66
Ohio	2.79	-	-	2.42
Pennsylvania Total	3.09	0.9	6.23	4.89
Pennsylvania (Anthracite)	0.66	0.50	-	0.53
Pennsylvania (Bituminous)	3.11	-	6.23	4.94
Utah	2.12	-	3.48	2.82
Virginia	2.10	-	2.42	1.98
West Virginia Total	1.91	-	3.91	2.45
West Virginia (Northern)	3.34	-	3.91	3.75
West Virginia (Southern)	1.77	-	-	1.52
Appalachia Total	2.04	0.1	4.01	2.68
Appalachia Central	1.77	-	2.42	1.55
Appalachia Northern	3.07	0.4	4.69	4.13
Appalachia Southern	2.33	-	2.38	2.28
Interior Region Total	4.82	-	8.05	5.16
Illinois Basin	4.82	-	8.05	5.16
Western Region Total	2.94	-	5.23	4.38
Uinta Basin	2.52	-	3.84	3.32
Other Western	5.77	-	12.66	10.54
East of Mississippi River	2.78	0.1	4.43	3.17
West of Mississippi River	2.94	-	5.23	4.38
U.S. Total	2.79	0.1	4.54	3.26

- = No data reported.

1 For a definition of coal producing regions, see the Glossary.

2 Mines that produce coal using shortwall, scoop loading, hand loading, or other methods.

Notes: For each State, stand alone preparation plant hours are distributed across mining methods by the proportion of underground hours for all stand alone mines. Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes mines producing less than 50,000 short tons of coal and preparation plants with less than 5,000 employee hours during the year, which are not required to provide data.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 22.1. Surface Coal Mining Productivity By State and Mining Method, 2024

(short tons produced per employee hour)

Coal-Producing State and Region ¹	Contour Strip	Area	Open Pit	Mountaintop Mining	Other ²	Total
Alabama	1.77	-	-	-	1.45	1.70
Alaska	4.95	-	4.95	-	-	4.95
Colorado	5.30	-	5.61	-	9.09	7.50
Illinois	-	6.27	-	-	1.69	4.41
Indiana	8.38	2.64	4.75	-	6.75	4.75
Kentucky Total	2.21	2.90	-	-	1.72	2.06
Kentucky (East)	2.21	2.90	-	-	1.72	2.06
Kentucky (West)	-	-	-	-	-	-
Louisiana	-	3.99	-	-	-	3.99
Maryland	3.53	2.47	-	-	2.49	2.61
Mississippi	4.60	-	-	-	-	4.60
Missouri	9.08	-	-	-	-	9.08
Montana	21.06	10.05	-	-	s	15.65
New Mexico	5.21	-	7.15	-	-	6.35
North Dakota	10.48	-	13.00	-	-	10.83
Ohio	2.88	3.73	-	-	1.32	2.54
Oklahoma	-	-	-	-	0.39	0.39
Pennsylvania Total	2.33	-	2.41	-	0.59	1.51
Pennsylvania (Anthracite)	2.16	-	2.91	-	0.28	1.49
Pennsylvania (Bituminous)	5.35	-	1.81	-	1.12	1.54
Texas	-	10.48	5.59	-	-	8.45
Utah	-	-	-	-	s	s
Virginia	1.44	1.72	-	3.27	1.12	1.35
West Virginia Total	2.07	2.35	3.05	3.08	2.32	2.32
West Virginia (Northern)	4.78	3.48	-	-	s	1.57
West Virginia (Southern)	2.03	2.33	3.05	3.08	2.41	2.34
Wyoming	19.67	2.88	25.35	-	-	22.29
Appalachia Total	2.05	2.50	2.54	3.10	1.64	2.01
Appalachia Central	1.97	2.43	3.05	3.10	1.98	2.12
Appalachia Northern	2.65	3.07	2.41	-	0.79	1.71
Appalachia Southern	1.77	-	-	-	1.45	1.70
Interior Basin Total	4.95	8.35	5.00	-	5.49	6.07
Illinois Basin	8.38	3.69	4.75	-	5.50	4.72
Interior	4.76	10.01	5.59	-	0.39	7.44
Western Total	15.80	8.60	21.76	-	7.67	17.49
Powder River Basin	21.31	10.05	27.24	-	s	23.20
Uinta Region	5.30	-	5.61	-	7.94	6.93
Western	8.87	2.88	8.02	-	-	8.40
East of Mississippi River	2.26	2.70	3.70	3.10	1.79	2.37
West of Mississippi River	15.79	9.38	20.18	-	7.67	16.59
U.S. Total	9.65	5.79	15.20	3.10	2.16	8.94

- = No data reported.

s = Value is less than 0.5 of the table metric.

1 For a definition of coal producing regions, see the Glossary.

2 Mines that: 1. produce coal using auger, highwall mine, or punch.

Notes: For each State, stand alone preparation plant hours are distributed across mining methods by the proportion of surface hours for all stand alone mines. Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes mines producing less than 50,000 short tons of coal and preparation plants with less than 5,000 employee hours during the year, which are not required to provide data.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Table 23. Coal Mining Productivity by State, Mine Type, and Mine Production Range, 2024

(short tons produced per employee hour)

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)							Total ²
	Above 1,000	Above 500 to 1,000	Above 200 to 500	Above 100 to 200	Above 50 to 100	Above 10 to 50	10 or Under	
Alabama	2.39	-	1.73	2.00	1.92	1.79	0.69	2.23
Underground	2.39	-	3.12	1.41	1.97	-	-	2.28
Surface	-	-	1.46	3.45	1.88	1.79	0.69	1.70
Alaska	4.95	-	-	-	-	-	-	4.95
Surface	4.95	-	-	-	-	-	-	4.95
Colorado	6.38	2.01	10.67	-	-	-	-	5.06
Underground	5.78	2.01	-	-	-	-	-	4.09
Surface	7.28	-	10.67	-	-	-	-	7.50
Illinois	7.60	-	4.82	4.14	-	-	3.15	6.97
Underground	7.60	-	2.60	-	-	-	-	7.06
Surface	-	-	8.38	4.14	-	-	3.15	4.41
Indiana	4.44	11.77	3.44	5.95	1.95	1.03	-	4.23
Underground	4.26	-	2.00	-	-	-	-	3.89
Surface	4.75	11.77	4.47	5.95	1.95	1.03	-	4.75
Kentucky Total	4.42	1.94	1.97	2.33	1.61	1.32	0.80	2.38
Underground	4.42	1.69	1.40	1.57	1.45	1.25	0.82	2.50
Surface	-	2.83	3.23	2.40	2.03	1.40	0.80	2.06
Kentucky (East)	-	1.94	2.10	2.33	1.61	1.32	0.80	1.60
Underground	-	1.69	1.42	1.57	1.45	1.25	0.82	1.24
Surface	-	2.83	3.23	2.40	2.03	1.40	0.80	2.06
Kentucky (West)	4.42	-	1.34	-	-	-	-	3.73
Underground	4.42	-	1.34	-	-	-	-	3.73
Louisiana	-	-	3.99	-	-	-	-	3.99
Surface	-	-	3.99	-	-	-	-	3.99
Maryland	-	1.86	2.30	3.34	2.74	3.28	1.09	1.97
Underground	-	1.86	-	-	-	-	-	1.41
Surface	-	-	2.30	3.34	2.74	3.28	1.09	2.61
Mississippi	4.60	-	-	-	-	-	-	4.60
Surface	4.60	-	-	-	-	-	-	4.60
Missouri	-	-	-	9.08	-	-	-	9.08
Surface	-	-	-	9.08	-	-	-	9.08
Montana	15.45	6.99	-	-	-	-	-	14.74
Underground	12.66	-	-	-	-	-	-	12.66
Surface	16.83	6.99	-	-	-	-	-	15.65
New Mexico	6.35	-	-	-	-	-	-	6.35
Surface	6.35	-	-	-	-	-	-	6.35
North Dakota	10.83	-	-	-	-	-	-	10.83
Surface	10.83	-	-	-	-	-	-	10.83
Ohio	-	4.88	2.43	-	2.96	2.01	0.15	2.48
Underground	-	4.88	1.33	-	-	-	-	2.42
Surface	-	-	3.03	-	2.96	2.01	0.15	2.54
Oklahoma	-	-	-	-	-	-	0.39	0.39
Surface	-	-	-	-	-	-	0.39	0.39
Pennsylvania Total	6.23	4.24	2.74	2.17	2.19	1.38	0.62	3.92
Underground	6.23	4.24	2.37	2.15	1.70	1.31	1.08	4.89
Surface	-	-	3.90	2.18	2.57	1.38	0.59	1.51
Pennsylvania (Anthracite)	-	-	4.32	2.86	1.64	1.18	0.49	1.45
Underground	-	-	-	-	-	1.31	0.90	0.57
Surface	-	-	4.32	2.86	1.64	1.16	0.44	1.49
Pennsylvania (Bituminous)	6.23	4.24	2.38	1.84	2.47	1.57	0.78	4.52
Underground	6.23	4.24	2.37	2.15	1.70	-	1.67	4.94
Surface	-	-	2.48	1.50	4.03	1.57	0.75	1.54
Texas	8.45	-	-	-	-	-	-	8.45
Surface	8.45	-	-	-	-	-	-	8.45
Utah	3.17	-	0.87	-	-	-	-	2.76
Underground	3.17	-	0.87	-	-	-	-	2.82

Coal-Producing State, Region ¹ and Mine Type	Mine Production Range (thousand short tons)							Total ²
	Above 1,000	Above 500 to 1,000	Above 200 to 500	Above 100 to 200	Above 50 to 100	Above 10 to 50	10 or Under	
Virginia	2.45	-	1.42	1.76	2.04	1.01	1.44	1.75
Underground	2.45	-	1.55	1.17	1.09	0.51	-	1.94
Surface	-	-	1.30	1.92	2.51	1.49	1.44	1.35
West Virginia Total	3.44	2.21	1.82	2.14	1.73	1.24	0.44	2.41
Underground	3.49	1.84	1.55	1.51	1.04	0.85	0.3	2.43
Surface	2.82	3.57	2.34	2.80	2.23	1.51	0.53	2.32
West Virginia (Northern)	4.02	1.36	-	4.96	3.48	-	-	3.72
Underground	4.02	1.36	-	-	-	-	-	3.75
Surface	-	-	-	4.96	3.48	-	-	1.57
West Virginia (Southern)	2.16	2.29	1.82	2.08	1.69	1.24	0.44	1.77
Underground	1.94	1.91	1.55	1.51	1.04	0.85	0.3	1.51
Surface	2.82	3.57	2.34	2.71	2.18	1.51	0.53	2.34
Wyoming	22.64	-	2.88	-	-	-	-	22.29
Surface	22.64	-	2.88	-	-	-	-	22.29
Appalachia Total	3.64	2.27	1.99	2.16	1.81	1.30	0.63	2.49
Underground	3.68	1.98	1.68	1.66	1.33	0.98	0.60	2.66
Surface	2.82	3.47	2.46	2.44	2.29	1.46	0.63	2.01
Appalachia Central	2.27	2.24	1.83	2.09	1.71	1.23	0.66	1.73
Underground	2.16	1.88	1.51	1.48	1.26	0.97	0.51	1.54
Surface	2.82	3.47	2.35	2.42	2.22	1.47	0.71	2.12
Appalachia Northern	4.76	2.41	2.65	2.33	2.41	1.42	0.58	3.72
Underground	4.76	2.41	2.24	2.15	1.70	1.31	1.08	4.13
Surface	-	-	3.35	2.41	2.73	1.43	0.55	1.71
Appalachia Southern	2.39	-	1.73	2.00	1.92	1.79	0.69	2.23
Underground	2.39	-	3.12	1.41	1.97	-	-	2.28
Surface	-	-	1.46	3.45	1.88	1.79	0.69	1.70
Interior Region Total	5.92	11.77	2.84	5.61	1.95	1.03	2.90	5.40
Underground	5.78	-	1.68	-	-	-	-	5.16
Surface	6.35	11.77	5.00	5.61	1.95	1.03	2.90	6.07
Illinois Basin	5.65	11.77	2.77	4.93	1.95	1.03	3.15	5.09
Underground	5.78	-	1.68	-	-	-	-	5.16
Surface	4.75	11.77	5.21	4.93	1.95	1.03	3.15	4.72
Other Interior	7.55	-	3.99	9.08	-	-	0.39	7.44
Surface	7.55	-	3.99	9.08	-	-	0.39	7.44
Western Region Total	15.16	2.70	2.28	-	-	-	-	14.11
Underground	5.24	2.01	0.87	-	-	-	-	4.38
Surface	17.86	6.99	4.67	-	-	-	-	17.49
Powder River Basin	23.48	6.99	-	-	-	-	-	23.20
Surface	23.48	6.99	-	-	-	-	-	23.20
Uinta Basin	4.51	1.61	2.04	-	-	-	-	3.87
Underground	3.96	1.61	0.87	-	-	-	-	3.32
Surface	7.28	-	10.67	-	-	-	-	6.93
Other Western	9.03	3.47	2.88	-	-	-	-	8.69
Underground	12.66	3.47	-	-	-	-	-	10.54
Surface	8.59	-	2.88	-	-	-	-	8.40
East of Mississippi River	4.24	2.32	2.06	2.21	1.81	1.29	0.64	2.96
Underground	4.26	1.98	1.68	1.66	1.33	0.98	0.60	3.14
Surface	4.00	3.68	2.66	2.51	2.28	1.45	0.65	2.37
West of Mississippi River	14.65	2.70	2.47	9.08	-	-	0.39	13.68
Underground	5.24	2.01	0.87	-	-	-	-	4.38
Surface	16.96	6.99	4.50	9.08	-	-	0.39	16.59
U.S. Subtotal	7.66	2.35	2.08	2.23	1.81	1.29	0.64	5.23
Underground	4.35	1.98	1.65	1.66	1.33	0.98	0.60	3.24
Surface	14.85	3.90	2.76	2.54	2.28	1.45	0.65	8.94
Refuse Recovery	-	-	3.48	8.24	3.90	0.42	1.16	2.61
U.S. Total	7.66	2.35	2.09	2.27	1.83	1.25	0.65	5.22

-- No data reported.

1 For a definition of coal producing regions, see the Glossary.

2 Includes all employees at preparation plants and tipplers not co-located with a mine.

Notes: Productivity is calculated by dividing total coal production by the total labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes preparation plants with less than 5,000 employee hours during the year, which are not required to provide data.

Table 24. Coal Mining Productivity by State, Mine Type, and Union Status, 2024

(short tons produced per employee hour)

Coal-Producing State and Region ¹	Union		Nonunion	
	Underground	Surface	Underground	Surface
Alabama	2.33	-	1.49	1.71
Alaska	-	4.95	-	-
Colorado	5.98	5.30	3.67	9.05
Illinois	-	-	7.06	4.44
Indiana	-	-	3.89	4.75
Kentucky Total	-	-	2.58	2.20
Kentucky (East)	-	-	1.27	2.20
Kentucky (West)	-	-	3.73	-
Louisiana	-	-	-	3.99
Maryland	-	-	1.41	2.67
Mississippi	-	-	-	4.60
Missouri	-	-	-	9.08
Montana	-	9.51	12.66	23.69
New Mexico	-	7.15	-	5.21
North Dakota	-	13.00	-	10.48
Ohio	-	-	2.42	2.61
Pennsylvania Total	3.55	1.78	5.25	1.45
Pennsylvania (Anthracite)	-	1.78	0.53	1.38
Pennsylvania (Bituminous)	3.55	-	5.31	1.58
Texas	-	10.48	-	5.59
Utah	-	-	2.82	-
Virginia	-	-	2.08	1.34
West Virginia Total	4.45	17.76	1.86	2.30
West Virginia (Northern)	4.84	-	2.66	3.39
West Virginia (Southern)	0.31	17.76	1.56	2.29
Wyoming	-	6.24	-	24.05
Appalachian Total	3.38	2.94	2.42	2.05
Appalachia Central	0.23	17.76	1.60	2.12
Appalachia Northern	4.56	1.78	3.90	1.81
Appalachia Southern	2.33	-	1.49	1.71
Interior Region Total	-	10.48	5.16	4.88
Illinois Basin	-	-	5.16	4.72
Other Interior	-	10.48	-	5.16
Western Region Total	5.98	7.76	4.27	20.17
Powder River Basin	-	9.51	-	24.42
Uinta Basin	5.98	5.30	3.10	8.31
Other Western	-	7.49	10.54	9.11
East of Mississippi River	3.38	2.94	3.11	2.45
West of Mississippi River	5.98	8.36	4.27	19.32
U.S. Total	3.44	7.51	3.22	9.60

- = No data reported.

¹ For a definition of coal producing regions, see the Glossary.

Notes: Productivity is calculated by dividing total coal production by the total direct labor hours worked by all employees engaged in production, preparation, processing, development, maintenance, repair shop, or yard work at mining operations, including office workers. Excludes mines producing less than 50,000 short tons of coal and preparation plants with less than 5,000 employee hours during the year, which are not required to provide data.

Sources: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation,' and U.S. Department of Labor, Mine Safety and Health Administration Form 7000-2, 'Quarterly Mine Employment and Coal Production Report.'

Domestic Markets

Table 25. Intentionally left blank

Table 26. U.S. Coal Consumption by End Use Sector, Census Division, and State, 2024 and 2023

(thousand short tons)

Census Division and State	2024				2023				Total		Percent Change
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	2024	2023	
New England	140	-	-	-	136	-	-	-	140	136	3.3
Connecticut	s	-	-	-	s	-	-	-	s	s	-
Maine	42	-	-	-	66	-	-	-	42	66	-36.4
New Hampshire	98	-	-	-	70	-	-	-	98	70	41.0
Rhode Island	s	-	-	-	s	-	-	-	s	s	-
Middle Atlantic	9,466	460	4,975	2	9,847	579	5,066	2	14,904	15,494	-3.8
New Jersey	s	-	-	-	s	-	-	-	s	s	-
New York	s	105	-	-	s	191	-	-	105	191	-45.0
Pennsylvania	9,466	356	4,975	2	9,847	389	5,066	2	14,800	15,304	-3.3
East North Central	75,248	3,492	9,246	76	74,272	3,848	9,469	93	88,062	87,682	0.4
Illinois	16,080	1,511	967	57	15,801	1,721	952	70	18,614	18,545	0.4
Indiana	20,713	1,102	3,992	20	21,125	1,133	4,087	24	25,827	26,369	-2.1
Michigan	14,424	281	1,280	-	12,792	327	1,397	-	15,986	14,516	10.1
Ohio	12,369	317	3,006	-	12,788	340	3,032	-	15,692	16,160	-2.9
Wisconsin	11,663	280	-	-	11,766	326	-	-	11,943	12,092	-1.2
West North Central	76,954	9,995	-	30	82,332	9,551	-	31	86,979	91,914	-5.4
Iowa	8,135	2,170	-	14	9,297	2,128	-	16	10,319	11,441	-9.8
Kansas	8,480	84	-	-	10,482	117	-	-	8,564	10,599	-19.2
Minnesota	6,719	839	-	2	7,483	913	-	2	7,561	8,399	-10.0
Missouri	22,898	808	-	7	24,119	757	-	3	23,713	24,879	-4.7
Nebraska	9,772	536	-	-	10,702	672	-	-	10,308	11,373	-9.4
North Dakota	19,851	5,322	-	7	19,161	4,696	-	10	25,179	23,867	5.5
South Dakota	1,100	235	-	-	1,088	268	-	-	1,335	1,355	-1.5
South Atlantic	47,894	1,325	830	44	46,950	1,418	832	42	50,094	49,243	1.7
Delaware	107	-	-	-	13	-	-	-	107	13	NM
District of Columbia	-	-	-	s	-	-	-	s	s	s	-
Florida	3,814	102	-	-	5,451	99	-	-	3,916	5,550	-29.4
Georgia	9,267	183	-	-	8,616	177	-	-	9,451	8,794	7.5
Maryland	1,171	329	-	-	902	372	-	-	1,500	1,274	17.7
North Carolina	7,123	121	-	37	5,897	186	-	33	7,281	6,115	19.1
South Carolina	7,353	73	-	-	6,529	72	-	-	7,426	6,601	12.5
Virginia	1,085	251	830	8	775	277	832	9	2,174	1,894	14.8
West Virginia	17,972	267	-	-	18,766	234	-	-	18,239	19,001	-4.0
East South Central	45,599	2,278	448	s	43,991	2,301	481	s	48,325	46,773	3.3
Alabama	11,880	415	448	-	10,966	425	481	-	12,743	11,872	7.3
Kentucky	21,734	595	-	s	20,801	680	-	s	22,329	21,481	4.0
Mississippi	3,045	98	-	-	3,888	79	-	-	3,143	3,967	-20.8
Tennessee	8,939	1,171	-	-	8,336	1,117	-	-	10,110	9,453	6.9
West South Central	63,040	689	-	-	67,409	775	-	-	63,729	68,183	-6.5
Arkansas	9,453	117	-	-	10,089	139	-	-	9,570	10,227	-6.4
Louisiana	2,573	267	-	-	3,098	278	-	-	2,840	3,377	-15.9
Oklahoma	4,154	148	-	-	3,516	156	-	-	4,302	3,671	17.2
Texas	46,860	158	-	-	50,706	202	-	-	47,017	50,908	-7.6
Mountain	52,210	1,923	-	5	58,752	2,320	-	1	54,138	61,074	-11.4
Arizona	5,956	161	-	-	7,301	239	-	-	6,117	7,541	-18.9
Colorado	9,599	130	-	s	10,964	127	-	s	9,729	11,091	-12.3
Idaho	-	39	-	-	-	49	-	-	39	49	-20.4
Montana	6,301	159	-	1	7,368	177	-	s	6,461	7,545	-14.4
Nevada	1,459	153	-	-	1,300	191	-	-	1,611	1,491	8.1
New Mexico	4,630	51	-	-	4,033	62	-	-	4,681	4,094	14.3
Utah	8,122	240	-	-	7,867	308	-	-	8,361	8,175	2.3
Wyoming	16,144	991	-	4	19,918	1,169	-	1	17,139	21,088	-18.7
Pacific	2,706	1,385	-	476	3,517	1,381	-	498	4,567	5,396	-15.4
Alaska	753	1	-	476	722	1	-	498	1,230	1,221	0.7
California	s	1,311	-	-	s	1,277	-	-	1,311	1,277	2.7

Census Division and State	2024				2023				Total		Percent Change
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	2024	2023	
Oregon	-	4	-	-	-	28	-	-	4	28	-84.3
Washington	1,954	68	-	-	2,795	75	-	-	2,022	2,870	-29.6
U.S. Total	373,258	21,547	15,500	633	387,205	22,173	15,849	668	410,939	425,895	-3.5

- = No data reported.

NM = Not Meaningful.

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

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).

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

Sources: U.S. Energy Information Administration Form EIA-923, 'Power Plant Operations Report,' Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data,' and Form EIA-7A, 'Annual Survey of Coal Production and Preparation.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Table 27. Year-End Coal Stocks by Sector, Census Division, and State, 2024 and 2023

(thousand short tons)

Census Division and State	2024					2023					Total		
	Electric Power ¹	Other Industrial	Commercial and Institutional	Producer and Distributor ²	Commercial and Institutional	Electric Power ¹	Other Industrial	Commercial and Institutional	Producer and Distributor ²	Commercial and Institutional	2024	2023	Percent Change
New England	w	-	-	-	-	w	-	-	-	-	w	w	-38.3
Connecticut	s	-	-	-	-	s	-	-	-	-	s	s	-
Maine	w	-	-	-	-	s	-	-	-	-	w	s	w
New Hampshire	w	-	-	-	-	w	-	-	-	-	w	w	-38.6
Rhode Island	s	-	-	-	-	s	-	-	-	-	s	s	-
Middle Atlantic	2,274	245	441	4	1,795	2,977	220	442	20	1,655	4,759	5,314	-10.4
New Jersey	s	-	-	-	-	s	-	-	-	-	s	s	-
New York	s	65	-	-	-	s	42	-	-	s	65	42	54.7
Pennsylvania	2,274	180	441	4	1,795	2,977	178	442	20	1,655	4,694	5,272	-11.0
East North Central	26,580	647	1,037	27	2,010	27,100	516	895	22	2,860	30,301	31,391	-3.5
Illinois	6,776	28	120	24	1,026	5,591	61	116	19	1,073	7,975	6,861	16.2
Indiana	9,294	228	296	2	937	9,574	177	239	2	1,402	10,757	11,394	-5.6
Michigan	3,297	268	344	-	-	3,730	180	325	-	113	3,909	4,347	-10.1
Ohio	4,173	22	277	-	20	4,122	21	215	-	41	4,491	4,398	2.1
Wisconsin	3,041	101	-	-	27	4,083	76	-	-	232	3,169	4,391	-27.8
West North Central	25,740	568	-	29	1,508	27,153	546	-	27	1,537	27,846	29,263	-4.8
Iowa	4,669	129	-	13	2	5,094	136	-	11	14	4,813	5,256	-8.4
Kansas	5,753	38	-	-	-	5,151	15	-	-	-	5,791	5,165	12.1
Minnesota	2,356	41	-	5	-	2,879	44	-	5	22	2,402	2,951	-18.6
Missouri	8,047	98	-	-	-	8,458	114	-	1	-	8,144	8,573	-5.0
Nebraska	3,015	30	-	-	-	3,556	8	-	-	-	3,045	3,564	-14.6
North Dakota	1,483	179	-	11	1,506	1,561	190	-	9	1,500	3,180	3,261	-2.5
South Dakota	w	54	-	-	-	w	39	-	-	-	w	w	-4.4
South Atlantic	18,987	328	40	48	8,660	21,208	324	65	46	10,056	28,063	31,699	-11.5
Delaware	w	-	-	-	-	w	-	-	-	-	w	w	-34.1
District of Columbia	-	-	-	3	-	-	-	-	3	-	3	3	s
Florida	1,838	43	-	-	-	1,996	34	-	-	-	1,881	2,030	-7.3
Georgia	w	42	-	-	-	w	59	-	-	-	w	w	-14.1
Maryland	w	16	-	-	383	799	16	-	-	349	w	1,164	w
North Carolina	3,973	96	-	30	-	3,654	89	-	31	-	4,099	3,774	8.6
South Carolina	1,759	43	-	-	-	2,353	46	-	-	-	1,802	2,399	-24.9
Virginia	w	66	40	16	1,457	w	62	65	12	2,057	w	w	-23.9
West Virginia	6,425	23	-	-	6,819	6,894	18	-	-	7,649	13,268	14,561	-8.9
East South Central	11,175	318	143	4	2,697	13,032	256	150	4	2,193	14,336	15,634	-8.3
Alabama	3,220	63	143	-	1,256	4,180	82	150	-	630	4,682	5,042	-7.1
Kentucky	5,570	58	-	4	570	6,731	63	-	4	810	6,202	7,608	-18.5
Mississippi	w	35	-	-	871	w	6	-	-	752	w	w	18.2
Tennessee	1,748	161	-	-	-	1,573	105	-	-	-	1,909	1,678	13.7
West South Central	24,985	444	-	-	1,765	26,728	445	-	-	2,258	27,194	29,431	-7.6
Arkansas	4,071	28	-	-	-	4,679	26	-	-	-	4,099	4,706	-12.9
Louisiana	4,279	3	-	-	665	3,563	3	-	-	1,024	4,947	4,590	7.8
Oklahoma	4,240	204	-	-	-	5,042	243	-	-	-	4,444	5,285	-15.9
Texas	12,395	209	-	-	1,101	13,444	172	-	-	1,234	13,704	14,850	-7.7
Mountain	17,797	435	-	4	4,418	14,329	414	-	3	4,113	22,653	18,859	20.1
Arizona	3,886	57	-	-	-	3,585	54	-	-	-	3,944	3,639	8.4
Colorado	3,563	20	-	s	775	3,566	28	-	s	803	4,359	4,397	-0.9
Idaho	-	91	-	-	-	-	104	-	-	-	91	104	-12.2
Montana	w	53	-	3	310	w	55	-	3	523	w	w	-13.1
Nevada	w	77	-	-	-	w	32	-	-	-	w	w	55.5
New Mexico	s	3	-	-	1,338	s	4	-	-	1,377	1,341	1,381	-2.9
Utah	3,753	67	-	-	1,333	2,438	50	-	-	813	5,152	3,300	56.1
Wyoming	5,102	66	-	s	662	3,530	86	-	s	598	5,830	4,215	38.3
Pacific	573	163	-	23	168	718	142	-	28	204	927	1,093	-15.1
Alaska	w	-	-	23	168	w	-	-	28	204	w	w	-9.1
California	s	134	-	-	-	s	110	-	-	-	134	110	21.4

Census Division and State	2024					2023					Total		Percent Change
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Producer and Distributor ²	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Producer and Distributor ²	2024	2023	
Oregon	-	25	-	-	-	-	29	-	-	-	25	29	-14.9
Washington	w	4	-	-	-	w	3	-	-	-	w	w	-25.4
U.S. Total	128,269	3,147	1,661	138	23,022	133,500	2,863	1,551	149	24,874	156,237	162,938	-4.1

- = No data reported.

w = Data withheld to avoid disclosure.

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

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). Coal stocks include waste coal.

² Excludes stocks in transit or held outside of the United States.

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

Sources: U.S. Energy Information Administration Form EIA-923, 'Power Plant Operations Report,' Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data,' 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.'

Average Mine Sales Price

Table 28. Average Sales Price of Coal by State and Mine Type, 2024 and 2023

(dollars per short ton)

Coal-Producing State	2024			2023			Percent Change		
	Underground	Surface	Total	Underground	Surface	Total	Underground	Surface	Total
Alabama	184.68	118.44	180.91	211.26	104.03	201.95	-12.6	13.9	-10.4
Alaska	-	w	w	-	w	w	-	w	w
Colorado	70.39	55.97	64.37	61.00	56.28	59.12	15.4	-0.6	8.9
Illinois	w	w	41.08	w	w	48.06	w	w	-14.5
Indiana	67.29	53.64	60.96	59.52	59.51	59.51	13.1	-9.9	2.4
Kentucky Total	69.42	89.55	74.00	71.22	96.47	76.87	-2.5	-7.2	-3.7
Kentucky (East)	100.08	89.55	94.26	119.01	96.47	106.96	-15.9	-7.2	-11.9
Kentucky (West)	59.87	-	59.87	55.22	-	55.22	8.4	-	8.4
Louisiana	-	w	w	-	w	w	-	w	w
Maryland	w	w	101.06	w	w	101.89	w	w	-0.8
Mississippi	-	w	w	-	w	w	-	w	w
Missouri	-	w	w	-	w	w	-	w	w
Montana	w	w	34.35	w	w	46.56	w	w	-26.2
New Mexico	-	w	w	-	w	w	-	w	w
North Dakota	-	23.70	23.70	-	23.33	23.33	-	1.6	1.6
Ohio	w	w	64.79	w	w	66.00	w	w	-1.8
Pennsylvania Total	78.32	149.54	85.48	84.78	148.86	91.71	-7.6	0.5	-6.8
Pennsylvania (Anthracite)	w	w	156.21	w	w	165.88	w	w	-5.8
Pennsylvania (Bituminous)	w	w	79.98	w	w	87.01	w	w	-8.1
Texas	-	w	w	-	18.76	18.76	-	w	w
Utah	79.70	-	79.70	w	w	45.01	w	w	77.1
Virginia	141.32	125.58	137.66	178.47	151.55	171.62	-20.8	-17.1	-19.8
West Virginia Total	98.00	114.00	101.22	116.34	135.52	120.08	-15.8	-15.9	-15.7
West Virginia (Northern)	w	w	74.46	w	w	88.86	w	w	-16.2
West Virginia (Southern)	w	w	129.33	w	w	155.61	w	w	-16.9
Wyoming	-	15.23	15.23	-	15.24	15.24	-	-0.1	-0.1
U.S. Total	85.88	29.61	52.47	94.82	29.26	54.04	-9.4	1.2	-2.9

- = No data reported.

w = Data withheld to avoid disclosure.

Notes: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 50,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Table 29. Average Sales Price of Coal by State and Underground Mining Method, 2024

(dollars per short ton)

Coal-Producing State	Continuous	Conventional and Other ¹	Longwall	Total
Alabama	184.07	-	184.84	184.68
Colorado	w	-	w	70.39
Illinois	38.74	-	42.68	w
Indiana	67.29	-	-	67.29
Kentucky Total	69.42	-	-	69.42
Kentucky (East)	100.08	-	-	100.08
Kentucky (West)	59.87	-	-	59.87
Maryland	w	-	-	w
Montana	w	-	w	w
Ohio	w	-	-	w
Pennsylvania Total	w	w	67.35	78.32
Pennsylvania (Anthracite)	w	w	-	w
Pennsylvania (Bituminous)	w	-	67.35	w
Utah	w	-	w	79.70
Virginia	w	-	w	141.32
West Virginia Total	131.15	-	73.02	98.00
West Virginia (Northern)	89.22	-	73.02	w
West Virginia (Southern)	138.92	-	-	w
U.S. Total	w	w	79.26	85.88

- = No data reported.

w = Data withheld to avoid disclosure.

¹ Mines that produce coal using shortwall, scoop loading, hand loading, or other methods.

Notes: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 50,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Table 29.1. Average Sales Price of Coal by State and Surface Mining Method, 2024

(dollars per short ton)

Coal-Producing State	Contour Strip	Area	Open Pit	Mountaintop Mining	Other ¹	Total
Alabama	w	-	-	-	w	118.44
Alaska	w	-	w	-	-	w
Colorado	w	-	w	-	56.19	55.97
Illinois	-	w	-	-	w	w
Indiana	w	74.16	w	-	70.10	53.64
Kentucky Total	92.17	70.09	-	-	97.30	89.55
Kentucky (East)	92.17	70.09	-	-	97.30	89.55
Louisiana	-	w	-	-	-	w
Maryland	w	w	-	-	w	w
Mississippi	w	-	-	-	-	w
Missouri	w	-	-	-	-	w
Montana	w	w	-	-	-	w
New Mexico	w	-	w	-	-	w
North Dakota	w	-	w	-	-	23.70
Ohio	w	w	-	-	51.76	w
Oklahoma	-	-	-	-	-	-
Pennsylvania Total	161.08	-	143.77	-	151.32	149.54
Pennsylvania (Anthracite)	w	-	152.11	-	w	w
Pennsylvania (Bituminous)	w	-	129.32	-	w	w
Texas	-	w	w	-	-	w
Virginia	124.89	w	-	w	129.05	125.58
West Virginia Total	116.08	118.48	w	w	119.68	114.00
West Virginia (Northern)	w	w	-	-	-	w
West Virginia (Southern)	w	w	w	w	119.68	w
Wyoming	w	w	14.55	-	-	15.23
U.S. Total	w	41.32	22.06	w	94.16	29.61

- = No data reported.

w = Data withheld to avoid disclosure.

¹ Mines that: 1. produce coal using auger, highwall mine, or punch.

Notes: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 50,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding. Mines reporting multiple mining methods are assigned to the mining method with the greatest percentage of production reported.

Source: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Table 30. Average Sales Price of Coal by State, County, and Number of Mines, 2024

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Alabama	14	15,096	180.91
Jefferson	4	8,827	205.24
Tuscaloosa	7	w	w
Walker	3	w	w
Alaska	1	w	w
Denali	1	w	w
Colorado	8	12,565	64.37
Gunnison	1	w	w
La Plata	1	w	w
Moffat	4	5,246	55.97
Rio Blanco	1	w	w
Routt	1	w	w
Illinois	10	34,479	41.08
Franklin	1	w	w
Hamilton	1	w	w
Montgomery	1	w	w
Perry	2	w	w
Randolph	1	w	w
Sangamon	1	w	w
Wabash	1	w	w
Washington	1	w	w
Williamson	1	w	w
Indiana	15	20,930	60.96
Daviess	1	w	w
Gibson	2	w	w
Knox	3	w	w
Pike	3	w	w
Spencer	1	w	w
Sullivan	1	w	w
Warrick	4	2,819	52.34
Kentucky	53	23,877	74.00
Bell	2	w	w
Breathitt	1	w	w
Floyd	1	w	w
Harlan	13	2,278	91.75
Hopkins	1	w	w
Johnson	1	w	w
Knott	3	w	w
Leslie	2	w	w
Letcher	8	1,394	92.61
Martin	1	w	w
Muhlenberg	1	w	w
Perry	4	1,710	98.19
Pike	10	2,026	103.84
Union	2	w	w
Whitley	3	w	w
Louisiana	1	w	w
Natchitoches	1	w	w
Maryland	7	1,241	101.06
Allegany	5	692	76.66
Garrett	2	w	w
Mississippi	1	w	w
Choctaw	1	w	w
Missouri	1	w	w
Bates	1	w	w
Montana	4	27,313	34.35
Big Horn	2	w	w
Musselshell	1	w	w

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Rosebud	1	w	w
New Mexico	3	w	w
Mckinley	2	w	w
San Juan	1	w	w
North Dakota	4	25,141	23.70
Mclean	1	w	w
Mercer	2	w	w
Oliver	1	w	w
Ohio	7	1,728	64.79
Athens	1	w	w
Belmont	1	w	w
Harrison	3	w	w
Noble	1	w	w
Tuscarawas	1	w	w
Pennsylvania	63	39,768	85.48
Armstrong	2	w	w
Cambria	4	1,076	123.11
Carbon	1	w	w
Clearfield	5	882	149.94
Columbia	1	w	w
Dauphin	1	w	w
Greene	3	w	w
Indiana	7	2,096	144.97
Jefferson	1	w	w
Luzerne	6	373	156.32
Lycoming	1	w	w
Northumberland	7	391	96.84
Schuylkill	15	1,694	163.61
Somerset	7	1,041	134.29
Washington	1	w	w
Westmoreland	1	w	w
Texas	3	w	w
Atascosa	1	w	w
Limestone	1	w	w
Robertson	1	w	w
Utah	4	7,249	79.70
Carbon	1	w	w
Emery	2	w	w
Sevier	1	w	w
Virginia	22	9,611	137.66
Buchanan	6	w	w
Dickenson	6	3,434	140.94
Russell	1	w	w
Tazewell	5	663	123.18
Wise	4	241	101.34
West Virginia	116	80,260	101.22
Barbour	2	w	w
Boone	9	3,110	101.17
Clay	3	w	w
Fayette	9	2,897	129.97
Grant	1	w	w
Greenbrier	1	w	w
Kanawha	5	2,977	99.79
Logan	24	9,603	123.83
Marion	2	w	w
Marshall	2	w	w
Mcdowell	10	1,918	150.07
Mercer	3	w	w
Mingo	8	2,632	93.46
Nicholas	3	w	w
Ohio	1	w	w
Raleigh	12	7,234	145.53

Coal-Producing State and County	Number of Mines	Sales (thousand short tons)	Average Sales Price (dollars per short ton)
Taylor	1	w	w
Tucker	1	w	w
Wetzel	1	w	w
Wyoming	18	6,739	151.85
Wyoming	15	190,602	15.23
Campbell	11	170,032	13.96
Converse	1	w	w
Lincoln	1	w	w
Sweetwater	2	w	w
U.S. Total	352	512,656	52.47

- = No data reported.

w = Data withheld to avoid disclosure.

Notes: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 50,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Table 31. Average Sales Price of Coal by State and Coal Rank, 2024

(dollars per short ton)

Coal-Producing State	Bituminous	Subbituminous	Lignite	Anthracite	Total
Alabama	180.91	-	-	-	180.91
Alaska	-	w	-	-	w
Colorado	70.39	55.97	-	-	64.37
Illinois	41.08	-	-	-	41.08
Indiana	60.96	-	-	-	60.96
Kentucky Total	74.00	-	-	-	74.00
Kentucky (East)	94.26	-	-	-	94.26
Kentucky (West)	59.87	-	-	-	59.87
Louisiana	-	-	w	-	w
Maryland	101.06	-	-	-	101.06
Mississippi	-	-	w	-	w
Missouri	w	-	-	-	w
Montana	w	w	-	-	34.35
New Mexico	w	w	-	-	58.09
North Dakota	-	-	23.70	-	23.70
Ohio	64.79	-	-	-	64.79
Pennsylvania Total	79.98	-	-	156.21	85.48
Pennsylvania (Anthracite)	-	-	-	156.21	156.21
Pennsylvania (Bituminous)	79.98	-	-	-	79.98
Texas	-	-	w	-	w
Utah	79.70	-	-	-	79.70
Virginia	137.66	-	-	-	137.66
West Virginia Total	101.22	-	-	-	101.22
West Virginia (Northern)	74.46	-	-	-	74.46
West Virginia (Southern)	129.33	-	-	-	129.33
Wyoming	w	w	-	-	15.23
U.S. Total	86.72	18.06	22.81	156.21	52.47

- = No data reported.

w = Data withheld to avoid disclosure.

Notes: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 50,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Table 32. Average Sales Price of Coal by Mine Production Range and Mine Type, 2024

(dollars per short ton)

Mine Production Range (thousand short tons)	Underground	Surface	Total
Over 1,000	78.39	20.85	43.38
Over 500 to 1,000	125.23	99.45	116.87
Over 200 to 500	126.25	100.49	113.17
Over 100 to 200	125.29	108.04	112.56
Over 50 to 100	120.48	105.24	110.64
50 or Under	99.25	135.64	131.95
U.S. Total	85.88	29.61	52.47

Notes: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 50,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Table 33. Average Sales Price of U.S. Coal by State and Disposition, 2024

(dollars per short ton)

Coal-Producing State	Open Market¹	Captive²	Total³
Alabama	141.12	-	180.91
Alaska	w	-	w
Colorado	w	w	64.37
Illinois	w	w	41.08
Indiana	87.96	48.62	60.96
Kentucky Total	71.76	-	74.00
Kentucky (East)	91.95	-	94.26
Kentucky (West)	60.11	-	59.87
Louisiana	w	-	w
Maryland	98.49	-	101.06
Mississippi	w	-	w
Missouri	w	-	w
Montana	w	w	34.35
New Mexico	w	w	w
North Dakota	23.70	-	23.70
Ohio	63.62	-	64.79
Pennsylvania Total	w	w	85.48
Pennsylvania (Anthracite)	w	w	156.21
Pennsylvania (Bituminous)	w	w	79.98
Texas	-	w	w
Utah	w	w	79.70
Virginia	w	w	137.66
West Virginia Total	w	w	101.22
West Virginia (Northern)	w	w	74.46
West Virginia (Southern)	w	w	129.33
Wyoming	15.20	15.23	15.23
U.S. Total	47.32	24.98	52.47

- = No data reported.

w = Data withheld to avoid disclosure.

1 Open market includes coal sold on the open market to other coal companies or consumers; excludes exports.

2 Captive includes all coal used by the producing company or sold to affiliated or parent companies; excludes exports.

3 Total includes price of coal sold on the open market, captive market and exported by coal mines. Excludes price of coal exported by coal brokers, coal traders and coal terminals.

Notes: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 50,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Table 33.1 Average Sales Price of U.S. Coal by Use and Disposition, 2014-2024

(dollars per short ton)

Year	Open Market Sales ¹		Captive Sales / Transactions ²		Exports ³		Total	
	Metallurgical	Non-Metallurgical	Metallurgical	Non-Metallurgical	Metallurgical	Non-Metallurgical	Metallurgical	Non-Metallurgical
2014	77.45	32.26	79.51	21.83	105.41	50.85	92.69	30.17
2015	69.38	30.40	101.21	22.15	93.45	44.76	83.54	28.50
2016	65.03	29.37	71.52	22.14	92.76	35.99	82.11	27.36
2017	88.92	28.21	86.00	19.91	160.34	40.02	133.23	26.53
2018	97.78	27.87	104.63	20.19	171.65	43.51	144.34	27.02
2019	105.58	28.83	118.34	21.17	157.88	43.37	139.78	27.54
2020	91.93	27.68	71.07	18.83	119.21	28.43	110.64	24.93
2021	91.50	27.97	137.40	18.57	180.41	34.44	151.97	25.85
2022	153.68	33.66	168.60	26.26	307.48	74.23	262.72	34.57
2023	170.47	37.51	208.80	26.99	225.34	71.01	212.30	37.60
2024	148.04	41.46	151.02	24.61	188.42	53.47	180.02	37.85

1 Open market includes coal sold on the open market to other coal companies or consumers; excludes exports.

2 Captive includes all coal used by the producing company or sold to affiliated or parent companies; excludes exports.

3 Excludes price of coal exported by coal brokers, coal traders and coal terminals.

Notes: An average sales price is calculated by dividing the total free on board (f.o.b) rail/barge value of the coal sold by the total coal sold. Excludes mines producing less than 50,000 short tons, which are not required to provide data. Excludes silt, culm, refuse bank, slurry dam, and dredge operations. Totals may not equal sum of components because of independent rounding.

Source: U.S. Energy Information Administration Form EIA-7A, 'Annual Survey of Coal Production and Preparation.'

Average Consumer Prices

Table 34. Average Price of Coal Delivered to End Use Sector by Census Division and State, 2024 and 2023

(dollars per short ton)

Census Division and State	2024				2023				Annual Percent Change			
	Electric Power ¹	Other Industrial	Commercial and Institutional		Electric Power ¹	Other Industrial	Commercial and Institutional		Electric Power ¹	Other Industrial	Commercial and Institutional	
New England	w	-	-	-	264.38	-	-	-	w	-	-	-
Connecticut	-	-	-	-	-	-	-	-	-	-	-	-
Maine	w	-	-	-	w	-	-	-	-16.60	-	-	-
New Hampshire	-	-	-	-	w	-	-	-	w	-	-	-
Rhode Island	-	-	-	-	-	-	-	-	-	-	-	-
Middle Atlantic	33.80	130.59	w	w	35.91	128.78	w	w	-5.88	1.41	-5.88	-3.28
New Jersey	-	-	-	-	-	-	-	-	-	-	-	-
New York	-	w	-	-	-	w	-	-	-	26.46	-	-
Pennsylvania	33.80	130.34	w	w	35.91	140.25	w	w	-5.88	-7.07	-5.88	-3.28
East North Central	w	106.30	200.86	58.87	51.87	107.33	227.42	63.33	w	-0.96	-11.68	-7.04
Illinois	31.90	w	w	52.66	32.67	w	w	58.09	-2.36	-3.26	-9.41	-9.35
Indiana	w	167.55	w	w	w	193.31	w	w	-6.33	-13.33	-13.30	-2.45
Michigan	47.58	135.45	w	-	w	131.65	w	-	w	2.89	-12.41	-
Ohio	63.44	168.74	w	-	w	158.31	w	-	w	6.59	-8.71	-
Wisconsin	42.05	112.08	-	-	44.86	99.59	-	-	-6.26	12.54	-	-
West North Central	29.78	33.72	-	140.77	30.37	35.37	-	104.77	-1.94	-4.66	-	34.36
Iowa	33.09	w	-	w	31.05	32.18	-	w	6.57	w	-	39.75
Kansas	28.46	w	-	-	29.40	w	-	-	-3.20	0.75	-	-
Minnesota	41.16	54.64	-	w	42.56	55.44	-	w	-3.29	-1.44	-	6.05
Missouri	32.71	69.20	-	w	33.90	81.86	-	w	-3.51	-15.47	-	1.32
Nebraska	22.80	w	-	-	22.86	w	-	-	s	3.93	-	-
North Dakota	24.93	w	-	w	24.44	w	-	w	2.00	-4.03	-	5.23
South Dakota	38.99	w	-	-	37.17	w	-	-	4.90	s	-	-
South Atlantic	81.91	137.54	w	w	84.02	169.83	w	198.86	-2.51	-19.01	-15.86	w
Delaware	-	-	-	-	w	-	-	-	w	-	-	-
District of Columbia	-	-	-	-	-	-	-	-	-	-	-	-
Florida	83.80	w	-	-	79.21	w	-	-	5.79	-20.93	-	-
Georgia	82.73	115.19	-	-	90.07	w	-	-	-8.15	w	-	-
Maryland	w	w	-	-	w	w	-	-	3.83	-11.91	-	-
North Carolina	112.00	156.63	-	w	117.24	187.07	-	w	-4.47	-16.27	-	-8.53
South Carolina	80.30	146.13	-	-	w	199.21	-	-	w	-26.65	-	-
Virginia	85.78	133.34	w	w	106.86	163.66	w	w	-19.73	-18.53	-15.86	-1.44
West Virginia	w	w	-	-	w	w	-	-	s	-1.96	-	-
East South Central	w	150.53	w	-	w	154.03	w	-	-5.56	-2.27	-10.87	-
Alabama	48.20	152.99	w	-	55.53	175.54	w	-	-13.20	-12.85	-10.87	-
Kentucky	52.81	147.72	-	-	55.27	155.96	-	-	-4.45	-5.28	-	-
Mississippi	w	w	-	-	w	w	-	-	14.17	5.97	-	-
Tennessee	65.86	134.75	-	-	76.95	134.56	-	-	-14.41	s	-	-
West South Central	34.34	103.81	-	-	35.60	108.23	-	-	-3.54	-4.08	-	-
Arkansas	w	w	-	-	w	w	-	-	-6.31	-6.05	-	-
Louisiana	w	w	-	-	w	w	-	-	-4.73	2.69	-	-
Oklahoma	37.27	177.25	-	-	39.37	130.94	-	-	-5.33	35.37	-	-
Texas	32.21	118.86	-	-	32.41	128.63	-	-	-0.62	-7.60	-	-
Mountain	48.48	78.17	-	w	42.50	78.58	-	w	14.07	-0.52	-	18.86
Arizona	59.02	w	-	-	55.08	w	-	-	7.15	3.31	-	-
Colorado	41.31	w	-	w	38.89	w	-	w	6.22	-4.22	-	s
Idaho	-	145.26	-	-	-	102.79	-	-	-	41.32	-	-
Montana	w	69.27	-	w	w	68.02	-	w	4.38	1.84	-	-
Nevada	w	w	-	-	w	114.50	-	-	-5.06	w	-	-
New Mexico	66.65	w	-	-	65.32	w	-	-	2.04	-0.96	-	-
Utah	79.34	89.21	-	-	53.60	88.13	-	-	48.02	1.23	-	-
Wyoming	w	58.27	-	w	w	58.48	-	w	-8.87	s	-	7.39
Pacific	w	113.40	-	w	w	113.79	-	w	-1.90	s	-	2.98
Alaska	64.84	-	-	w	67.40	-	-	w	-3.80	-	-	2.98
California	-	114.08	-	-	-	114.84	-	-	-	-0.66	-	-

Census Division and State	2024				2023				Annual Percent Change			
	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional	Electric Power ¹	Other Industrial	Coke	Commercial and Institutional
Oregon	-	w	-	-	-	w	-	-	-	62.44	-	-
Washington	w	w	-	-	w	w	-	-	-5.90	-3.70	-	-
U.S. Total	46.48	78.04	189.68	99.20	46.97	83.39	211.60	95.76	-1.04	-6.42	-10.36	3.59

- = No data reported.

w = Data withheld to avoid disclosure.

s = Value is less than 0.5 of the table metric, but value is included in any associated total.

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).

Sources: U.S. Energy Information Administration Form EIA-923, 'Power Plant Operations Report,' and Form EIA-3, 'Quarterly Survey of Non-Electric Sector Coal Data.' Prior to third quarter 2014, coke plant data was collected under Form EIA-5, 'Quarterly Coal Consumption and Quality Report - Coke Plants.'

Imports and Exports

Table 35. Coal Imports by Country of Origin, 2000-2024

(Short Tons)

Year	Europe																		
	Australia	New Zealand	Canada	Mexico	Colombia	Venezuela	China	India	Indonesia	Norway	Poland	Russia	Ukraine	United Kingdom	Other	Total	South Africa	Other	Total
2000	167,595	-	1,923,434	6,671	7,636,614	2,038,774	19,646	205	718,149	-	-	1,212	-	238	-	1,450	-	85	12,512,623
2001	315,870	24,178	2,571,415	8,325	11,176,191	3,335,258	109,877	1,169	882,455	15,933	514,166	219,077	-	75,704	12	824,892	440,408	97,273	19,787,299
2002	821,280	-	2,110,688	41,832	9,205,161	3,349,883	62,185	2,055	962,474	-	121,660	87,586	-	277	121	209,644	77,314	33,034	16,875,429
2003	330,337	53,484	2,099,087	-	15,479,019	4,624,916	149,904	2,000	2,104,731	-	-	68,560	-	717	152	69,429	78,264	52,951	25,043,970
2004	295,526	-	2,877,616	309	16,661,238	4,435,630	147,136	443	2,180,899	-	74,609	263,776	104,861	44,285	147,172	634,703	33,795	159,881	27,280,004
2005	230,997	42,136	2,017,435	1,343	21,215,089	3,734,056	20,094	-	2,467,977	-	76,937	393,592	34,728	839	51,994	558,090	77,044	148,082	30,460,349
2006	245,184	-	2,048,224	-	25,340,602	4,197,636	43,491	-	3,146,627	36,806	-	940,685	-	1,069	159,874	1,138,434	61,649	184,003	36,245,976
2007	65,726	51,070	1,967,271	-	26,863,901	3,425,108	50,257	214	3,663,107	35,557	-	134,591	37,527	1,870	32	209,577	-	50,648	36,346,847
2008	149,344	-	2,027,148	-	26,261,802	2,311,865	45,113	-	3,373,574	-	-	71	37,354	-	1,086	38,511	45	1,363	34,207,679
2009	151,738	-	1,287,626	6	17,787,441	1,297,214	9,364	805	2,084,271	-	-	-	19,878	33	11	19,922	-	139	22,638,515
2010	380,404	450	1,766,896	-	14,583,950	581,700	52,869	2,002	1,904,040	-	-	-	41,370	3,647	4	45,021	-	35,359	19,352,687
2011	61,745	-	1,680,490	427	9,500,387	778,887	22,128	3,759	856,038	-	331	177	124,775	-	1,969	127,252	33	58,429	13,087,606
2012	-	220	1,107,727	43	6,951,515	287,147	77,738	14,650	517,532	-	-	14,330	187,837	10	3	202,180	-	508	9,159,257
2013	22	-	1,116,076	-	6,575,927	42,428	51,944	1,356	886,920	-	-	36,395	181,116	115	1,595	219,221	-	14,126	8,906,425
2014	532	-	1,026,523	17	8,295,286	288,738	39,776	1,536	1,526,611	-	-	42,439	103,167	164	-	145,770	23	25,114	11,349,926
2015	60,994	-	1,187,655	83	8,936,034	74,175	16,099	406	890,124	-	-	-	58,802	570	93	59,465	50,773	42,296	11,318,011
2016	121,967	-	1,078,480	978	7,890,800	-	6,955	-	613,944	-	-	64,774	-	341	657	65,772	28,488	39,631	9,846,358
2017	700	-	891,734	92	6,112,092	46	6,474	444	699,453	-	-	34,449	-	59	12,703	47,211	37,829	19,280	7,802,652
2018	-	-	770,364	625	4,060,581	-	28,624	-	915,188	-	-	78,908	27,377	575	2,285	109,145	47,404	24,509	5,954,155
2019	-	-	817,190	1,092	5,033,032	-	54,715	-	655,398	-	-	68,729	-	210	40,886	109,825	24,251	42,520	6,697,137
2020	-	-	448,719	52	3,655,196	-	109,814	-	639,982	-	-	278,554	-	913	3,308	282,775	-	4,140	5,137,370
2021	-	-	1,034,232	33	3,366,886	-	116,743	-	494,168	-	-	338,550	-	27	1,326	339,903	36,376	1,333	5,388,348
2022	-	-	1,772,643	7,764	4,043,767	-	219,112	-	137,554	-	-	-	-	-	74,660	74,660	27,282	105,345	6,313,467
2023	-	-	789,989	3,238	2,647,536	-	175,484	-	-	-	-	-	-	2	102,447	102,449	106,376	287,499	4,010,124
2024	-	-	799,996	725	985,884	-	76,820	18	-	-	-	-	-	15,379	76,409	91,788	-	118,889	1,997,711

Notes: Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.gov/coal/>.

Sources: 2000 U.S. Department of Commerce, Bureau of the Census, 'Monthly Report IM 145.' 2001 forward U.S. Energy Information Administration, Quarterly Coal Report October-December, quarterly reports.

Table 36. Coal Exports by Country of Destination, 1960-2024

(Thousand Short Tons)

Year	Europe											Total	Japan	Other ³	Total	
	Canada	Brazil	Belgium ¹	Denmark	France	Germany ²	Italy	Netherlands	Spain	Turkey	United Kingdom					Other ³
1960	12,843	1,067	1,116	130	794	4,566	4,899	2,837	331	-	-	2,440	17,113	5,617	1,341	37,981
1961	12,135	994	971	80	708	4,326	4,797	2,552	228	-	-	2,026	15,688	6,614	974	36,405
1962	12,302	1,327	1,289	38	851	5,056	5,978	3,320	766	-	2	1,848	19,148	6,465	973	40,215
1963	14,557	1,161	2,651	41	2,726	5,560	7,872	5,000	1,500	-	-	2,372	27,722	6,057	938	50,435
1964	14,824	1,103	2,325	18	2,216	5,162	8,068	4,187	1,426	-	-	2,552	25,954	6,526	1,137	49,544
1965	16,304	1,213	2,246	6	2,099	4,730	8,970	3,374	1,406	-	7	2,252	25,090	7,491	934	51,032
1966	16,453	1,745	1,841	2	1,582	4,894	7,837	3,165	1,204	-	1	2,525	23,051	7,793	1,026	50,068
1967	15,757	1,736	1,422	-	2,132	4,694	5,860	2,227	1,012	-	-	2,072	19,419	12,224	987	50,123
1968	17,149	1,789	1,053	-	1,460	3,785	4,312	1,491	1,480	-	-	1,883	15,464	15,824	929	51,155
1969	17,261	1,847	943	-	2,254	3,493	3,720	1,645	1,825	-	-	1,330	15,210	21,367	1,176	56,861
1970	19,111	2,021	1,881	-	3,574	5,030	4,266	2,113	3,153	-	3	1,786	21,806	27,636	1,159	71,733
1971	18,031	1,873	765	-	3,207	2,937	2,680	1,627	2,556	-	1,669	1,127	16,568	19,717	1,115	57,304
1972	18,661	1,920	1,144	-	1,730	2,399	3,705	2,289	2,139	-	2,381	1,099	16,886	18,038	1,235	56,740
1973	16,709	1,647	1,205	-	1,971	1,633	3,322	1,820	2,234	-	941	1,310	14,436	19,190	1,605	53,587
1974	14,187	1,294	1,109	-	2,676	1,484	3,922	2,556	2,017	-	1,405	886	16,055	27,346	1,779	60,661
1975	17,279	2,008	627	-	3,622	1,989	4,504	2,110	2,691	-	1,889	1,609	19,041	25,423	2,558	66,309
1976	16,942	2,242	2,202	34	3,532	1,000	4,211	3,507	2,513	-	843	2,072	19,914	18,803	2,120	60,021
1977	17,692	2,283	1,516	99	2,106	889	4,149	1,962	1,570	-	607	2,077	14,975	15,862	3,500	54,312
1978	15,657	1,492	1,054	-	1,660	617	3,227	1,082	758	-	398	2,188	10,984	10,087	2,494	40,714
1979	19,513	2,829	3,204	163	3,866	2,556	4,985	2,011	1,351	-	1,351	4,442	23,929	15,681	4,090	66,042
1980	17,473	3,265	4,633	1,650	7,789	2,530	7,131	4,657	3,409	-	4,140	6,009	41,948	23,069	5,987	91,742
1981	18,238	2,727	4,254	3,879	9,745	4,308	10,473	6,820	6,381	569	2,341	8,243	57,013	25,856	8,707	112,541
1982	18,564	3,130	4,761	2,809	8,985	2,336	11,279	5,934	5,582	1,564	2,017	6,013	51,280	25,768	7,535	106,277
1983	17,151	3,572	2,544	1,740	4,201	1,488	8,057	4,162	3,257	1,628	1,237	4,748	33,062	17,865	6,122	77,772
1984	20,444	4,706	3,902	614	3,791	913	7,624	5,483	2,306	1,472	2,853	3,853	32,811	16,325	7,197	81,483
1985	16,393	5,862	4,427	2,159	4,481	1,078	10,252	6,327	3,456	2,196	2,676	8,054	45,106	15,372	9,947	92,680
1986	14,478	5,720	4,362	2,123	5,389	810	10,359	5,631	2,620	2,418	2,907	5,933	42,552	11,370	11,398	85,518
1987	16,227	5,830	4,578	934	2,886	477	9,537	4,093	2,454	772	2,589	5,839	34,159	11,082	12,309	79,607
1988	19,232	5,252	6,490	2,804	4,302	702	11,070	5,086	2,542	2,023	3,671	6,448	45,138	14,122	11,279	95,023
1989	16,777	5,681	7,094	3,178	6,517	745	11,240	6,076	3,339	1,686	4,513	7,216	51,604	13,846	12,907	100,815
1990	15,511	5,847	8,500	3,188	6,879	1,057	11,947	8,369	3,791	2,117	5,177	7,357	58,382	13,338	12,726	105,804
1991	11,178	7,052	7,464	4,658	9,509	1,742	11,274	9,625	4,694	2,186	6,171	8,197	65,520	12,269	12,950	108,969
1992	15,140	6,370	7,196	3,832	8,060	1,003	9,344	9,148	4,535	1,990	5,595	6,551	57,254	12,304	11,448	102,516
1993	8,889	5,197	5,229	336	3,972	508	6,918	5,562	4,064	1,605	4,111	5,270	37,575	11,878	10,980	74,519
1994	9,193	5,482	4,911	477	2,875	323	7,543	4,874	4,132	1,335	3,363	5,994	35,827	10,158	10,699	71,359
1995	9,427	6,351	4,501	2,100	3,659	1,953	9,063	7,301	4,653	2,011	4,726	8,653	48,620	11,787	12,362	88,547
1996	12,029	6,540	4,569	1,316	3,852	1,055	9,204	7,058	4,093	2,167	6,196	7,682	47,192	10,529	14,183	90,473
1997	14,975	7,455	4,319	350	3,398	870	7,019	4,825	4,134	2,092	7,185	7,139	41,331	7,974	11,810	83,545
1998	20,654	6,475	3,195	274	3,192	1,247	5,317	4,516	3,156	1,592	5,947	5,337	33,773	7,734	9,412	78,048
1999	19,826	4,442	2,073	-	2,522	573	4,014	3,432	2,472	795	3,162	3,466	22,509	4,953	6,746	58,476
2000	18,769	4,536	2,890	77	3,044	976	3,711	2,623	2,686	1,809	3,294	3,859	24,969	4,446	5,769	58,489

Europe

Year	Canada	Brazil	Belgium ¹	Denmark	France	Germany ²	Italy	Netherlands	Spain	Turkey	United Kingdom	Other ³	Total	Japan	Other ³	Total
2001	17,633	4,574	2,770	-	2,235	913	5,408	2,123	1,645	887	2,471	2,368	20,821	2,070	3,568	48,666
2002	16,686	3,538	2,371	-	1,305	958	3,077	1,650	1,914	580	1,902	1,816	15,574	1,253	2,550	39,601
2003	20,760	3,514	1,816	288	1,278	535	2,826	1,993	1,771	1,097	1,480	2,064	15,148	6	3,586	43,014
2004	17,760	4,361	1,743	74	1,103	642	2,105	2,471	1,529	1,271	1,986	2,286	15,211	4,426	6,240	47,998
2005	19,466	4,199	2,079	73	1,261	669	2,455	2,623	1,863	1,888	1,777	4,136	18,825	2,081	5,371	49,942
2006	19,889	4,534	2,166	383	1,625	1,650	3,283	2,091	1,632	1,226	2,565	4,183	20,805	332	4,087	49,647
2007	18,389	6,512	2,109	80	2,384	2,321	3,544	4,553	1,483	1,447	3,361	5,837	27,119	5	7,138	59,163
2008	22,979	6,380	3,081	385	3,469	2,531	3,197	7,004	2,383	1,915	5,763	10,577	40,306	1,733	10,122	81,519
2009	10,599	7,416	2,690	321	3,364	2,457	2,343	5,878	1,744	1,428	4,589	5,261	30,073	907	10,102	59,097
2010	11,400	7,925	2,283	80	3,165	2,663	3,308	7,306	1,947	2,532	4,391	10,532	38,208	3,164	21,019	81,716
2011	6,845	8,680	3,072	161	4,042	4,761	5,589	10,785	1,795	2,945	6,927	13,864	53,942	6,923	44,733	107,259
2012	7,211	7,954	2,650	-	4,120	5,260	8,540	13,542	2,182	5,333	12,083	12,688	66,399	5,699	51,171	125,746
2013	7,110	8,610	2,007	-	4,109	5,475	6,594	12,709	1,579	4,984	13,511	9,787	60,755	5,360	45,611	117,659
2014	6,724	8,032	1,013	-	2,373	4,815	5,781	12,479	1,400	4,460	9,808	10,340	52,469	4,898	35,474	97,257
2015	5,958	6,339	1,196	45	1,332	4,018	3,431	12,908	1,272	2,055	4,201	7,436	37,894	4,657	26,547	73,958
2016	5,011	6,939	1,254	61	1,340	3,503	1,910	10,159	1,396	1,487	1,064	5,207	27,381	4,555	21,591	60,271
2017	5,287	7,678	1,252	119	2,176	4,923	3,143	9,313	1,927	2,572	2,730	11,401	39,555	7,683	48,143	96,945
2018	5,724	8,516	1,094	64	1,806	3,568	3,350	12,415	1,835	2,963	4,221	12,591	43,908	10,543	60,144	116,244
2019	5,118	7,591	657	-	1,285	1,792	2,674	10,148	619	1,806	1,396	12,993	33,370	11,024	49,654	93,765
2020	4,587	7,889	547	-	973	683	1,221	5,796	395	2,722	1,135	8,681	22,154	6,072	37,045	69,067
2021	4,587	6,252	286	63	761	2,019	1,060	7,322	686	906	1,515	7,721	22,341	7,564	52,093	85,115
2022	4,316	6,426	633	111	1,827	4,203	1,426	12,170	1,115	1,904	2,532	7,654	33,575	8,075	41,218	85,956
2023	5,000	7,521	1,089	68	1,476	3,507	1,714	9,716	1,175	1,738	848	6,443	27,773	9,745	56,611	100,208
2024	4,279	8,415	1,033	-	1,203	2,166	1,805	7,964	1,115	2,787	227	6,033	24,333	9,151	68,181	108,326

NA=Not Available.

- =No data reported.

¹ Through 1999, includes Luxembourg.

² Through 1990, data for Germany are for the former West Germany only. Beginning in 1991, data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

³ See source publications for data for countries included in 'Other'.

Note: Totals may not equal sum of components due to independent rounding.

Sources: 1960-1988 U.S. Department of Commerce, Bureau of the Census, U.S. Exports by Schedule B Commodities, EM 522. 1989-2000 U.S. Energy Information Administration (EIA), Coal Industry Annual, annual reports. 2001 forward EIA, Quarterly Coal Report October-December, quarterly reports; and U.S. Department of Commerce, Bureau of the Census, 'Monthly Report EM 545.'