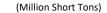
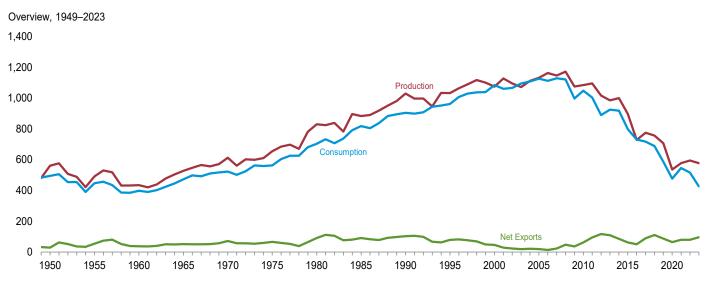
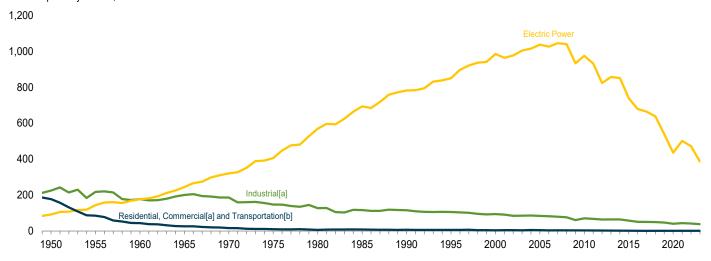
6. Coal

Figure 6.1 Coal



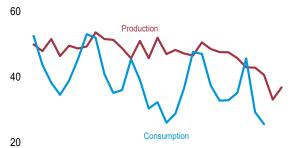


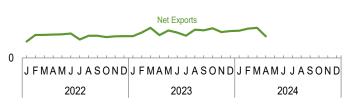
Consumption by Sector, 1949-2023



60

Overview, Monthly

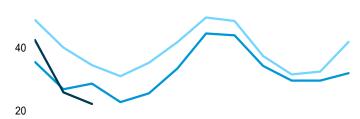




[a] Includes combined-heat-power (CHP) plants and a small number of electricity-only-plants.

[b] For 1978 forward, small amounts of transportation sector use are included in "Industrial."

Electric Power Sector Consumption, Monthly





Web Page: http://www.eia.gov/totalenergy/data/monthly/#coal. Sources: Tables 6.1 and 6.2.

Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste		Trade		Stock	Losses and		
	Production ^a	Coal Supplied ^b	Imports	Exports	Net Imports ^c	Stock Change ^{d,e}	Unaccounted for ^{e,f}	Consumption	
1950 Total	560,388 490,838 434,329 526,954 612,661 654,641 829,700 883,638 1,029,076 1,032,974 1,073,612 1,131,498 1,084,368 1,095,628 1,016,458 984,842 1,000,049 896,941 728,364 774,609 756,167 706,309 535,434 577,431	NA NA NA NA NA NA NA 3,339 8,561 9,089 13,352 13,651 13,209 11,196 11,279 12,090 9,969 10,138 9,951 10,431 8,003 6,880 7,663	365 337 262 184 36 940 1,194 1,952 2,699 9,473 12,513 30,460 19,353 13,088 9,159 8,906 11,350 11,318 9,846 7,803 5,954 6,697 5,137 5,388	29,360 54,429 37,981 51,032 71,733 66,309 91,742 92,680 105,804 88,547 58,489 49,942 81,716 107,259 125,746 117,659 97,257 73,958 60,271 96,945 116,244 93,765 69,067 85,115	-28,995 -54,092 -37,719 -50,848 -71,697 -65,369 -90,548 -90,727 -103,104 -79,074 -45,976 -19,482 -62,363 -94,171 -116,586 -108,753 -85,907 -62,640 -50,425 -89,142 -110,290 -87,068 -63,929 -79,727	27,829 -3,974 -3,194 1,897 11,100 32,154 25,595 -27,934 26,542 -275 -48,309 -9,702 -13,039 211 6,902 -38,525 -2,387 40,824 -45,338 -26,467 -37,194 35,463 -5,438 -44,466	9,462 -6,292 1,722 2,244 6,633 -5,522 10,827 2,796 -1,730 632 938 9,092 182 11,506 14,980 1,451 10,858 5,331 2,346 5,029 5,397 5,238 7,129 4,154	494,102 447,012 398,081 471,965 523,231 562,640 702,730 818,049 904,498 962,104 1,084,095 1,125,978 1,048,514 1,002,948 889,185 924,442 917,731 798,115 731,071 716,856 688,105 586,543 476,693 545,679	
Petron September Cotober November Cotal Manuary March April May June July August September Cotober November December Total March Mar	49.887	838	503	5,518	-5,016	-7,345	522	52,533	
	47.875	711	289	7,305	-7,016	-3,364	1,240	43,694	
	51.548	662	530	7,578	-7,048	5,320	1,623	38,219	
	46.387	667	684	7,803	-7,118	4,731	652	34,554	
	49.553	861	325	7,538	-7,213	2,345	2,011	38,843	
	48.670	718	627	8,092	-7,465	-5,426	2,010	45,340	
	49.301	812	660	6,289	-5,629	-7,785	-790	53,059	
	53.601	813	779	7,545	-6,766	-3,656	-659	51,963	
	51.574	691	531	7,280	-6,749	3,984	690	40,842	
	51.332	690	404	6,782	-6,378	8,366	2,169	35,109	
	48.754	752	689	7,286	-6,596	6,020	902	35,987	
	45.673	719	292	6,940	-6,648	-4,575	-1,074	45,392	
	594,155	8,934	6,313	85,956	-79,642	-1,383	9,296	515,534	
2023 January	51,010	640	479	7,140	-6,661	4,360	1,563	39,067	
	45,713	692	260	7,995	-7,735	8,093	202	30,374	
	51,984	698	281	9,485	-9,204	9,231	1,992	32,255	
	46,969	625	426	7,408	-6,982	9,049	5,534	26,029	
	48,223	618	305	8,692	-8,387	8,398	3,276	28,780	
	47,146	612	282	8,003	-7,721	1,307	2,086	36,644	
	46,520	851	326	7,141	-6,816	-7,174	93	47,636	
	50,543	808	355	8,999	-8,644	-4,973	650	47,031	
	48,542	500	314	8,747	-8,433	-2,551	5,830	37,330	
	8 47,604	638	413	9,453	-9,040	R 4,966	R 1,481	R 32,755	
	6 47,520	780	335	8,252	-7,917	R 9,662	R-2,096	R 32,857	
	45,712	R 851	233	8,475	-8,242	F 121	R 3,039	R 35,161	
	8 577,485	R 8,314	4,010	99,791	-95,781	R 40,449	R 23,649	R 425,919	
2024 January	42,950	F 399	94	8,411	-8,318	R-9,037	R -1,598	45,667	
	42,837	F 414	151	9,119	-8,969	6,139	-1,137	29,281	
	40,612	RF 399	85	9,275	-9,191	R 6,203	R -5	^R 25,622	
	33,067	NA	^R 254	^R 6,843	^R -6,589	NA	NA	NA	
	36,796	NA	NA	NA	NA	NA	NA	NA	
	196,261	NA	NA	NA	NA	NA	NA	NA	
2023 5-Month Total	243,898	3,273	1,752	40,720	-38,968	39,131	12,567	156,505	
2022 5-Month Total	245,250	3,739	2,330	35,742	-33,411	1,688	6,048	207,842	

 $^{^{\}rm a}$ Beginning in 2001, includes a small amount of refuse recovery (coal recaptured from a refuse mine and cleaned to reduce the concentration of

noncombustible materials).

b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."

^c Net imports equal imports minus exports. A minus sign indicates exports are

greater than imports.

d A negative value indicates a decrease in stocks and a positive value indicates an increase. See Table 6.3 for stocks data coverage.

l In 1949, stock change is included in "Losses and Unaccounted for."

The difference between calculated coal supply and disposition, due to coal

quantities lost or to data reporting problems.

R=Revised. E=Estimate. NA=Not available. F=Forecast.

Notes: • For methodology used to calculate production, consumption, and stocks, see Note 1, "Coal Production," Note 2, "Coal Consumption," and Note 3, "Coal Stocks," at end of section. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#coal (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: See end of section.

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

	End-Use Sectors											
			Commercial Industrial									
	Resi-				Coke		ther Industria	ıl		Trans-	Electric Power	
	dential	СНРа	Otherb	Total	Plants	CHPC	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1950 Total 1955 Total 1960 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total 1980 Total 1990 Total 1995 Total 2000 Total 2000 Total 2011 Total 2012 Total 2014 Total 2015 Total 2015 Total 2016 Total 2017 Total 2017 Total 2018 Total 2019 Total 2020 Total 2020 Total	51,562 35,590 24,159 14,635 9,024 2,823 1,355 1,711 1,345 454 378	(9) (9) (9) (9) (9) (9) (1,191 1,547 1,922 1,720 1,7668 1,450 1,356 1,063 683 610 577 798 683 610	63,021 32,852 16,789 11,041 7,090 6,587 5,097 6,068 4,189 3,633 2,126 2,420 1,361 1,125 595 824 706 500 451 395 327 320 277	63,021 32,852 16,789 11,041 7,090 6,587 5,097 6,068 5,379 5,052 3,673 4,342 2,793 2,045 1,951 1,887 1,503 1,183 1,061 972 876 793 811	104,014 107,743 81,385 95,286 96,481 83,598 66,657 41,056 38,877 33,011 28,939 23,434 21,092 21,434 20,751 21,474 21,297 19,708 16,485 17,538 18,396 17,538 18,396 14,414 17,589	(h) (h) (h) (h) (h) (h) (h) 27,781 29,363 28,031 25,875 24,638 22,319 20,065 19,761 19,076 11,975 12,975 12,975 12,933 9,453 9,453 9,700	120,623 110,096 96,017 105,560 90,156 63,646 60,347 75,372 48,549 43,693 37,177 34,465 24,650 23,919 22,773 23,294 23,870 21,475 20,129 20,289 19,347 18,203 16,207 16,145	120,623 110,096 96,017 105,566 63,646 60,347 75,372 76,330 73,055 65,208 60,340 49,289 46,238 42,838 43,055 42,946 33,264 31,589 34,849 33,264 31,580 32,586 32,5845	224,637 217,839 177,402 200,846 186,637 147,244 127,004 116,429 115,207 106,067 94,147 70,381 67,671 63,589 64,529	63,011 16,972 3,046 655 298 24 (h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	91,871 143,759 176,685 244,788 320,182 405,962 569,274 693,841 ¹ 782,567 850,230 985,821 1,037,485 975,052 932,484 823,551 857,962 851,602 738,444 678,554 664,993 637,217 538,606 435,827 501,435	494,102 447,012 398,081 471,965 523,231 562,640 702,730 818,049 904,498 962,104 1,084,095 1,125,978 1,048,514 1,002,948 889,185 924,442 917,731 798,115 731,071 716,856 688,105 586,543 476,693 545,679
2022 January February March April May June July August September October November December Total	() () () () () () () () () ()	56 55 37 25 27 42 44 46 47 46 52 57 535	36 36 24 13 14 22 13 14 14 24 27 30 265	92 91 61 39 41 63 57 60 60 70 79 88	1,432 1,309 1,412 1,318 1,349 1,281 1,334 1,263 1,373 1,288 1,315	881 762 845 765 824 781 787 803 751 791 746 828 9,563	1,322 1,469 1,402 1,420 1,366 1,397 1,325 1,297 1,358 1,322 1,371 1,279	2,203 2,231 2,248 2,185 2,189 2,179 2,112 2,099 2,109 2,103 2,117 2,106 25,891	3,636 3,540 3,659 3,503 3,539 3,446 3,434 3,373 3,485 3,405 3,421 41,900		48,805 40,063 34,498 31,012 35,264 41,817 49,556 48,469 37,409 31,554 32,503 41,883 472,834	52,533 43,694 38,219 34,554 38,843 45,340 53,059 51,963 40,842 35,109 35,987 45,392 515,534
February February March April May June July August September October November December Total	(i) (i) (i) (i) (i) (i) (i) (i) (i)	46 40 37 36 31 25 27 28 30 33 35 40	36 38 35 17 15 12 12 12 13 8 21 8 23 8 26 8 2 59	82 78 71 53 46 37 38 41 43 8 54 8 58 8 66 8 668	1,354 1,266 1,405 1,263 1,302 1,287 1,344 1,350 1,303 R1,278 R1,386 R1,310 R15,849	826 724 734 704 720 699 711 663 680 695 712 738 8,608	1,255 1,372 1,353 1,136 1,110 1,125 995 1,051 1,041 R 1,082 R 1,063 R 1,042 R 13,624	2,081 2,096 2,087 1,840 1,831 1,825 1,706 1,714 1,721 1,721 R1,777 R1,775 R1,780 R22,233	3,435 3,362 3,492 3,103 3,133 3,112 3,050 3,064 3,024 P3,055 P3,161 P3,089 P38,081	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	35,549 26,934 28,692 22,873 25,601 33,496 44,548 43,926 34,263 29,639 32,005 387,170	39,067 30,374 32,255 26,029 28,780 36,644 47,031 37,330 R 32,755 R 32,857 R 32,857 R 425,919
2024 January February March 3-Month Total	(i) (i) (i) (i)	56 40 37 133	F 45 F 60 F 43 E 149	F 102 F 100 F 81 E 282	F 1,257 F 1,238 F 1,341 E 3,836	823 713 820 2,356	F 1,021 F 1,302 F 1,100 E 3,423	F 1,845 F 2,015 F 1,920 E 5,779	F3,101 F3,253 F3,260 E 9,615	(h) (h) (h) (h)	42,464 25,928 22,281 90,673	45,667 29,281 25,622 100,570
2023 3-Month Total 2022 3-Month Total	(i)	123 148	109 95	231 244	4,025 4,153	2,284 2,488	3,980 4,194	6,265 6,682	10,290 10,835	(h) (h)	91,175 123,367	101,696 134,445

 $^{^{\}rm a}$ Commercial combined-heat-and-power (CHP) and a small number of commercial electricity-only plants, such as those at hospitals and universities. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

b All commercial sector fuel use other than that in "Commercial CHP."

All commercial sector fuel use other than that in "Commercial CHP."
 Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 All industrial sector fuel use other than that in "Coke Plants" and "Industrial CHP."
 The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.
 Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
 Included in "Commercial Other."

h Included in "Industrial Non-CHP."

i Beginning in 2008, residential coal consumption data are no longer collected by the U.S. Energy Information Administration (EIA).

R=Revised. E=Estimate. F=Forecast.

H=Hevised. E=Estimate. F=Forecast.

Notes: • CHP monthly values are from Table 7.4c; electric power sector monthly values are from Table 7.4b; all other monthly values are estimates derived from collected quarterly and annual data. See Note 2, "Coal Consumption," at end of section. • Data values preceded by "F" are derived from ElA's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding.

• Geographic covergage is the 50 estates and the District of Collumbia.

Geographic coverage is the 50 states and the District of Columbia.
 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#coal (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
 Sources: See end of section.

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

985 Year NA 996 13,422 15,880 29,302 30,300 41,391 71,691 906 Year NA 666 11,122 11,637 22,759 23,425 51,735 75,160 895 Year NA 353 10,640 13,122 23,762 24,115 71,968 93,045 77 Year 12,108 233 6,797 6,529 17,326 17,599 110,724 140,391 975 Year 24,379 NA 300 9,045 11,781 20,826 21,126 71,968 93,045 975 Year 12,108 233 6,797 6,529 17,326 17,559 110,724 140,391 985 Year 33,138 NA 34,622 11,843 13,857 13,857 13,857 223,477 874 13,857 13	Pow Distributors Commercial Coke Plants Other Total Total Pow Secto	er
	Distributors Commercial Coke Plants Other Total Total Sector	
955 Year NA 998 13,422 15,880 29,302 30,300 41,391 71,691 960 Year NA 666 11,122 11,637 22,759 23,425 51,735 75,160 965 Year NA 353 10,640 13,122 23,762 24,115 54,525 75,640 477 Year NA 300 9,045 11,761 20,266 21,126 71,908 93,047 Year 12,108 233 6,797 8,529 17,326 17,559 110,724 140,391 97,764 12,108 233 6,797 8,529 17,326 17,559 110,724 140,391 985 Year 33,133 NA 3,420 10,451 13,857 13,857 13,857 136,575 20,344 140,44 140,391 140,49	1955 Year NA 998 13,422 15,880 29,302 30,300 41,31960 Year NA 666 11,122 11,637 22,759 23,425 51,71965 Year NA 353 10,640 13,122 23,762 24,115 54,51970 Year NA 300 9,045 11,781 20,826 21,126 71,91970 Year 12,108 233 8,797 8,529 17,326 17,559 110,71980 Year 24,379 NA 9,067 11,951 21,018 21,018 183,01985 Year 33,133 NA 9,067 11,951 21,018 21,018 183,01985 Year 33,133 NA 3,420 10,438 13,857 13,857 156,31990 Year 34,444 NA 3,329 8,716 12,044 12,044 156,14 1995 Year 34,444 NA 2,632 5,702 8,334 8,334 126,34 2000 Year 31,905 NA 1,494 4,587 6,081 6,081 102,21 2005 Year 34,971 NA 2,615 5,582 8,196 8,196 101,11 2011 Year 49,820 552 1,925 4,525 6,451 7,003 174,91 2011 Year 51,897 603 2,610 4,455 7,065 7,668 172,34 2011 Year 46,157 583 2,522 4,475 6,997 7,581 185,11 2011 Year 45,652 495 2,200 4,097 6,297 6,792 147,86	
980 Year NA 666 11,122 11,637 22,759 23,425 51,735 75,160 980 Year NA 303 10,640 13,122 23,762 24,115 54,525 76,600 970 Year NA 300 8,045 11,781 20,826 21,126 71,908 83,047 970 Year 12,108 233 8,797 8,829 17,236 17,599 110,724 140,391 980 Year 24,379 NA 9,067 11,951 21,018 21,018 133,010 222,407 980 Year 33,133 NA 3,420 10,438 13,867 158,576 203,367 980 Year 33,414 NA 3,329 8,716 12,044 12,044 156,166 201,629 980 Year 34,444 NA 2,632 5,702 8,334 8,334 128,094 189,080 000 Year 31,905 NA 1,494 4,582 6,081 6,081 102,286 140,282 000 Year 34,971 NA 1,494 4,582 6,081 6,081 102,286 1140,282 1010 Year 49,807 32 1,615 4,455 6,181 7,668 117,777 143,304 1010 Year 49,807 32 1,615 4,455 6,181 7,668 117,777 143,304 1010 Year 45,652 485 2,200 4,097 6,297 7,581 185,116 23,881 1013 Year 45,652 485 2,200 4,097 6,297 7,581 185,116 23,881 1014 Year 38,884 449 2,640 4,196 6,386 7,025 117,821 117,821 117,911 1015 Year 33,871 394 2,236 4,382 6,618 7,012 185,912 238,785 1016 Year 23,999 310 1,718 3,242 4,960 5,270 137,721 166,991 1016 Year 23,999 310 1,718 3,242 4,960 5,270 137,721 166,991 1016 Year 31,300 246 2,333 3,258 5,591 5,838 128,102 102,783 129,701 1016 Year 31,300 163 16,75 3,657 5,312 5,723 129,723 129,720 1016 Year 223,640 250 1654 2,848 4,501 4,751 131,431 159,822 1016 Year 31,300 163 16,75 3,657 5,312 5,723 129,723 129,720 1016 Year 223,640 250 1654 2,848 4,501 4,751 131,431 159,820 120 Year 223,640 250 1654 2,848 4,501 4,751 131,431 159,820 120 Year 223,640 250 1654 2,848 4,501 4,751 131,431 159,820 120 Year 223,640 250 1654 2,848 4,501 4,751 131,431 159,820 120 Year 22,560 169 169 169 169 169 169 169 169 169 169	1960 Year NA 666 11,122 11,637 22,759 23,425 51,73 1965 Year NA 353 10,640 13,122 23,762 24,115 54,55 1970 Year NA 300 9,045 11,781 20,826 21,126 71,96 1975 Year 12,108 233 8,797 8,529 17,326 17,559 110,75 1980 Year 24,379 NA 9,067 11,951 21,018 21,018 183,0 1985 Year 33,133 NA 3,420 10,438 13,857 13,857 156,3 1990 Year 33,418 NA 3,329 8,716 12,044 12,044 156,10 1995 Year 34,444 NA 2,632 5,702 8,334 126,31 2000 Year 31,905 NA 1,494 4,587 6,081 6,081 102,22 2005 Year 34,971 NA 2,615 5,582 8,196 8,196 101,13	2 77,295
965 Year NA 353 10,640 13,122 23,762 24,115 54,525 78,640 79.70 Year NA 300 9,045 11,781 20,826 21,126 71,908 93,034 975 Year 12,108 233 8,797 8,529 17,326 17,536 17,579 110,724 140,391 975 Year 33,131 NA 34,02 10,438 13,894 12,1018 188,0110 229,407 888 Year 33,131 NA 34,02 10,438 13,894 11,851 158,376 203,393 98 Year 34,448 NA 34,02 10,438 13,894 13,894 15,837 15,837 158,376 203,393 98 Year 34,444 NA 2,632 10,438 13,894 16,334 16,334 16,334 16,334 16,334 16,334 16,334 16,334 16,334 16,334 16,334 16,334 17,335 18,337 18,357 18,3	1965 Year NA 353 10,640 13,122 23,762 24,115 54,55 1970 Year NA 300 9,045 11,781 20,826 21,126 71,91 1975 Year 12,108 233 8,797 8,529 17,326 17,559 110,77 1980 Year 24,379 NA 9,067 11,951 21,018 21,018 23,018 1985 Year 33,133 NA 3,420 10,438 13,857 13,857 156,37 1990 Year 33,418 NA 3,329 8,716 12,044 12,044 156,11 1995 Year 34,444 NA 2,632 5,702 8,334 8,334 126,31 1000 Year 31,905 NA 1,494 4,587 6,081 6,081 6,021 1005 Year 34,971 NA 2,615 5,582 8,196 8,196 101,11 1010 Year 49,820 552 1,925 4,525 6,451 7,003 174,97 1011 Year 51,897 603 2,610 4,455 7,065 7,668 172,31 1012 Year 46,157 583 2,522 4,475 6,997 7,581 185,11 1013 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1014 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1016 12,22 12,200 4,097 6,297 6,792 147,81 1017 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1018 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1017 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1018 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1018 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1018 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1018 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1019 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1019 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1010 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1010 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1010 Year 45,652 495 2,200 4,097 6,297 6,792 147,81 1010 Year 45,652 495 2,200 4,097 6,297 6,297 6,297 6,297 6,297 6,297 6,297 6,297 6,29	1 71,691
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a Excludes stocks in transit or held outside of the United States.

Notes: • Stocks are at end of period. • Electric power sector monthly values are from Table 7.5; producers and distributors monthly values are estimates derived from collected annual data; all other monthly values are estimates derived from collected quarterly values. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#coal (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

b Through 1979, data are for the residential and commercial sectors. Beginning in 2008, data are for the commercial sector only.

^c Through 1979, data are for manufacturing plants and the transportation sector. For 1980–2007, data are for manufacturing plants only. Beginning in 2008, data are for manufacturing plants only. Beginning in 2008, data are for manufacturing plants and coal transformation/processing plants.

^d The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAIGS 22 category whose primary business is to sell electricity, or electricity and host to the public.

electricity, or electricity and heat, to the public.

^e Excludes waste coal. Through 1998, data are for electric utilities only.

Beginning in 1999, data are for electric utilities and independent power producers. R=Revised. NA=Not available. F=Forecast.

Coal

Note 1. Coal Production. Preliminary monthly estimates of national coal production are the sum of weekly estimates developed by the U.S. Energy Information Administration (EIA) and published in the *Weekly Coal Production* report. When a week extends into a new month, production is allocated on a daily basis and added to the appropriate month. Weekly estimates are based on Association of American Railroads (AAR) data showing the number of railcars loaded with coal during the week by Class I and certain other railroads.

Through 2001, the weekly coal production model converted AAR data into short tons of coal by using the average number of short tons of coal per railcar loaded reported in the "Quarterly Freight Commodity Statistics" from the Surface Transportation Board. If an average coal tonnage per railcar loaded was not available for a specific railroad, the national average was used. To derive the estimate of total weekly production, the total rail tonnage for the week was divided by the ratio of quarterly production shipped by rail and total quarterly production. Data for the corresponding quarter of previous years were used to derive this ratio. This method ensured that the seasonal variations were preserved in the production estimates.

From 2002 through 2014, the weekly coal production model used statistical auto regressive methods to estimate national coal production as a function of railcar loadings of coal, heating degree-days, and cooling degree-days. On Thursday of each week, EIA received from the AAR data for the previous week. The latest weekly national data for heating degree-days and cooling degree-days were obtained from the National Oceanic and Atmospheric Administration's Climate Prediction Center.

Beginning in 2015, the revised weekly coal production model uses statistical auto regressive methods to estimate national coal production as a function of railcar loadings of coal. EIA receives AAR data on Thursday of each week for prior week car loadings. The weekly coal model is run and a national level coal production estimate is obtained. From there, state-level estimates are calculated using historical state production share. The state estimates are then aggregated to various regional-level estimates. The weekly coal model is refit every quarter after preliminary coal data are available.

When preliminary quarterly data become available, the monthly and weekly estimates are adjusted to conform to the quarterly figures. The adjustment procedure uses historical state-level production data, the methodology for which can be seen in the documentation located at http://www.eia.gov/coal/production/weekly/. Initial estimates of annual production published in January of the following year are based on preliminary production data covering the first nine months (three quarters) and weekly/monthly estimates for the fourth quarter. All quarterly, monthly, and weekly production figures are adjusted to conform to the final annual production data published in the *Monthly Energy Review* in the fall of the following year.

Note 2. Coal Consumption. Forecast data (designated by an "F") are derived from forecasted values shown in EIA's *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply, Consumption, and Inventories." The monthly estimates are based on the quarterly values, which are released in March, June, September, and December. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.

Residential and Commercial—Through 2007, coal consumption by the residential and commercial sectors is reported to EIA for the two sectors combined; EIA estimates the amount consumed by the sectors individually. To create the estimates, it is first assumed that an occupied coal-heated housing unit consumes fuel at the same Btu rate as an oil-heated housing unit. Then, for the years in which data are available on the number of occupied housing units by heating source (1973–1981 and subsequent odd-numbered years), residential consumption of coal is estimated using the following steps: a ratio is created of the number of occupied housing units heated by coal to the number of occupied housing units heated by oil; that ratio is then multiplied by the Btu quantity of oil consumed by the residential sector to derive an estimate of the Btu quantity of coal consumed by the residential sector; and, finally, the amount estimated as the residential sector consumption is subtracted from the residential and commercial sectors' combined consumption to derive the commercial sector's estimated consumption. Beginning in 2008, residential coal consumption data are not collected by EIA, and commercial coal consumption data are taken directly from reported data.

Industrial Coke Plants—Through 1979, monthly coke plant consumption data were taken directly from reported data. For 1980–1987, coke plant consumption estimates were derived by proportioning reported quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979, the last year in which monthly data were reported. Beginning in 1988, monthly coke plant consumption estimates are derived from the reported quarterly data by using monthly ratios of raw steel production data from the American Iron and Steel Institute. The ratios are the monthly raw steel production from open hearth and basic oxygen process furnaces as a proportion of the quarterly production from those kinds of furnaces. Coal coke consumption values also include the relativity small amount consumed for non-combustion use (See Tables 1.12a and 1.12b).

Industrial Other—Through 1977, monthly consumption data for the other industrial sector (all industrial users minus coke plants) were derived by using reported data to modify baseline consumption figures from the most recent U.S. Census Bureau Annual Survey of Manufactures or Census of Manufactures. For 1978 and 1979, monthly estimates were derived from data reported on Forms EIA-3 and EIA-6. For 1980-1987, monthly figures were estimated by proportioning quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979, the last year in which monthly data were reported on Form EIA-3. Beginning in 1988, monthly consumption for the other industrial sector is estimated from reported quarterly data by using ratios derived from industrial production indices published by the Board of Governors of the Federal Reserve System. Indices for six major industry groups are used as the basis for calculating the ratios: food manufacturing, which is North American Industry Classification System (NAICS) code 311; paper manufacturing, NAICS 322; chemical manufacturing, NAICS 325; petroleum and coal products, NAICS 324; non-metallic mineral products manufacturing, NAICS 327; and primary metal manufacturing, NAICS 331. The monthly ratios are computed as the monthly sum of the weighted indices as a proportion of the quarterly sum of the weighted indices by using the 1977 proportion as the weights. Through 2007, quarterly consumption data for the other industrial sector were derived by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts are the greater of either reported receipts from manufacturing plants (Form EIA-3) or reported shipments to the other industrial sector (Form EIA-6), thereby ensuring that agriculture, forestry, fishing, and construction consumption data were included where appropriate. Beginning in 2008, quarterly consumption totals for other industrial coal include data for manufacturing and mining only. Over time, surveyed coal consumption data for agriculture, forestry, fishing, and construction dwindled to about 20-30 thousand short tons annually. Therefore, in 2008, EIA consolidated its programs by eliminating agriculture, forestry, fishing, and construction as surveyed sectors.

Electric Power Sector—Monthly consumption data for electric power plants are taken directly from reported data.

Note 3. Coal Stocks. Coal stocks data are reported by major end-use sector. Forecast data (designated by an "F") are derived from forecasted values shown in EIA's *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply, Consumption, and Inventories." The monthly estimates are based on the quarterly values (released in March, June, September, and December) or annual values. The estimates are revised as collected data become available from the data sources. Sector-specific information follows.

Producers and Distributors—Through 1997, quarterly stocks at producers and distributors were taken directly from reported data. Monthly data were estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Beginning in 1998, end-of-year stocks are taken from reported data. Monthly stocks are estimated by a model.

Residential and Commercial—Through 1979, stock estimates for the residential and commercial sector were taken directly from reported data. For 1980–2007, stock estimates were not collected. Beginning in 2008, quarterly commercial (excluding residential) stocks data are collected on Form EIA-3 (data for "Commercial and Institutional Coal Users").

Industrial Coke Plants—Through 1979, monthly stocks at coke plants were taken directly from reported data. Beginning in 1980, coke plant stocks are estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Quarterly stocks are taken directly from data reported on Form EIA-5.

Industrial Other—Through 1977, stocks for the other industrial sector were derived by using reported data to modify baseline figures from a one-time Bureau of Mines survey of consumers. For 1978–1982, monthly estimates were derived by judgmentally proportioning reported quarterly data based on representative seasonal patterns of supply and demand. Beginning in 1983, other industrial coal stocks are estimated as indicated above for coke plants. Quarterly stocks are taken directly from data reported on Form EIA-3 and therefore include only manufacturing industries; data for agriculture, forestry, fishing, mining, and construction stocks are not available.

Electric Power Sector—Monthly stocks data at electric power plants are taken directly from reported data.

Note 4. Coal Forecast Values. Data values preceded by "F" in this section are forecast values. They are derived from EIA's Short-Term Integrated Forecasting System (STIFS). The model is driven primarily by data and assumptions about key macroeconomic variables, the world oil price, and weather. The coal forecast relies on other variables as well, such as alternative fuel prices (natural gas and oil) and power generation by sources other than fossil fuels, including nuclear and hydroelectric power. Each month, EIA staff review the model output and make adjustments, if appropriate, based on their knowledge of developments in the coal industry.

The STIFS model results are published monthly in EIA's *Short-Term Energy Outlook*, which is accessible on the Web at http://www.eia.gov/forecasts/steo/.

Table 6.1 Sources

Production

1949–September 1977: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook and Minerals Industry Surveys*.

October 1977 forward: U.S. Energy Information Administration (EIA), Weekly Coal Production.

Waste Coal Supplied

1989-1997: EIA, Form EIA-867, "Annual Nonutility Power Producer Report."

1998-2000: EIA, Form EIA-860B, "Annual Electric Generator Report-Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report," and Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants," and predecessor forms.

2004–2007: EIA, Form EIA-906, "Power Plant Report," Form EIA-920, "Combined Heat and Power Plant Report," and Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants," and predecessor forms.

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report," and Form EIA-3, "Quarterly Survey of Industrial, Commercial, and Institutional Coal Users" (formerly called, "Quarterly Survey of Non-Electric Sector Coal Data"); and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Imports and Exports

1949 forward: U.S. Department of Commerce, U.S. Census Bureau, Monthly Reports IM 145 (Imports) and EM 545 (Exports).

Stock Change

1950 forward: Calculated from data in Table 6.3.

Losses and Unaccounted for

1949 forward: Calculated as the sum of production, imports, and waste coal supplied, minus exports, stock change, and consumption.

Consumption

1949 forward: Table 6.2.

Table 6.2 Sources

Residential and Commercial Total

Through 2007, coal consumption by the residential and commercial sectors combined is reported to the U.S. Energy Information Administration (EIA). EIA estimates the sectors individually using the method described in Note 2,

"Consumption," at the end of Section 6. Data for the residential and commercial sectors combined are from:

1949–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Minerals Yearbook.

January–September 1977: DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers—Upper Lake Docks." October 1977–1979: EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers—Upper Lake Docks."

1980–1997: EIA, Form EIA-6, "Coal Distribution Report," quarterly.

1998–2007: DOI, Mine Safety and Health Administration, Form 7000-2, "Quarterly Coal Consumption and Quality Report—Coke Plants."

Commercial Total

Beginning in 2008, coal consumption by the commercial (excluding residential) sector is reported to EIA. Data for total commercial consumption are from: 2008 forward: EIA, Form EIA-3, "Quarterly Survey of Industrial, Commercial, and Institutional Coal Users" (formerly called, "Quarterly Survey of Non-Electric Sector Coal Data"); and, for forecast values, EIA, Short-Term Integrated Forecasting System (STIFS).

Commercial CHP

1989 forward: Table 7.4c.

Commercial Other

1949 forward: Calculated as "Commercial Total" minus "Commercial CHP."

Industrial Coke Plants

1949-September 1977: DOI, BOM, Minerals Yearbook and Minerals Industry Surveys.

October 1977–1980: EIA, Form EIA-5/5A, "Coke and Coal Chemicals—Monthly/Annual Supplement."

1981–1984: EIA, Form EIA-5/5A, "Coke Plant Report—Quarterly/Annual Supplement."

1985 forward: EIA, Form EIA–5, "Quarterly Coal Consumption and Quality Report—Coke Plants"; and, for forecast values, EIA, STIFS.

Other Industrial Total

1949–September 1977: DOI, BOM, Minerals Yearbook and Minerals Industry Surveys.

October 1977–1979: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants," and predecessor forms.

1980–1997: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants," and predecessor forms and Form EIA-6, "Coal Distribution Report," quarterly.

1998–2007: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants," and predecessor forms, Form EIA-6A, "Coal Distribution Report," annual, and Form EIA-7A, "Coal Production Report," annual.

2008 forward: EIA, Form EIA-3, "Quarterly Survey of Industrial, Commercial, and Institutional Coal Users" (formerly called, "Quarterly Survey of Non-Electric Sector Coal Data") and Form EIA-7A, "Coal Production Report," annual; and, for forecast values, EIA, STIFS.

Other Industrial CHP

1989 forward: Table 7.4c.

Other Industrial Non-CHP

1949 forward: Calculated as "Other Industrial Total" minus "Other Industrial CHP."

Transportation

1949–1976: DOI, BOM, Minerals Yearbook.

January–September 1977: DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers—Upper Lake Docks." October–

December 1977: EIA, Form EIA-6, "Coal Distribution Report," quarterly.

Electric Power

1949 forward: Table 7.4b.

Table 6.3 Sources

Producers and Distributors

1973–1979: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), Form 6-1419Q, "Distribution of Bituminous Coal and Lignite Shipments."

1980–1997: U.S. Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report," quarterly.

1998–2007: EIA, Form EIA-6A, "Coal Distribution Report," annual.

2008 forward: EIA, Form EIA-3, "Quarterly Survey of Industrial, Commercial, and Institutional Coal Users" (formerly called, "Quarterly Survey of Non-Electric Sector Coal Data"); (data for "Commercial and Institutional Coal Users"); and, for forecast values, EIA, STIFS.

Residential and Commercial

1949–1976: DOI, BOM, Minerals Yearbook.

January-September 1977: DOI, BOM, Form 6-1400, "Monthly Coal Report, Retail Dealers-Upper Lake Docks."

October 1977–1979: EIA, Form EIA-2, "Monthly Coal Report, Retail Dealers—Upper Lake Docks."

2008 forward: EIA, Form EIA-3, "Quarterly Survey of Industrial, Commercial, and Institutional Coal Users" (formerly called "Quarterly Survey of Non-Electric Coal Data); and, for forecast values, EIA, STIFS.

Industrial Coke Plants

1949-September 1977: DOI, BOM, Minerals Yearbook and Minerals Industry Surveys.

October 1977–1980: EIA, Form EIA-5/5A, "Coke and Coal Chemicals—Monthly/Annual."

1981–1984: EIA, Form EIA-5/5A, "Coke Plant Report—Quarterly/Annual Supplement."

1985 forward: EIA, Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants" and, for forecast values, EIA, STIFS.

Industrial Other

1949-September 1977: DOI, BOM, Minerals Yearbook and Minerals Industry Surveys.

October 1977–2007: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants," and predecessor forms.

2008 forward: EIA, Form EIA-3, "Quarterly Survey of Industrial, Commercial, and Institutional Coal Users" (formerly called, "Quarterly Survey of Non-Electric Sector Coal Data"); and, for forecast values, EIA, STIFS.

Electric Power

1949 forward: Table 7.5.