



of electricity-only-plants. ^b For 1978 forward, small amounts of transportation sector use are

included in "Industrial."

Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste Coal		Trade	1	Stock	Losses and Unaccounted	
	Production ^a	Supplied ^b	Imports	Exports	Net Imports ^c	Change ^{d,e}	for ^{e,f}	Consumptio
950 Total	560,388	NA	365	29,360	-28.995	27,829	9.462	494.102
955 Total	490,838	NA	337	54,429	-54,092	-3,974	-6,292	447,012
960 Total	434,329	NA	262	37,981	-37,719	-3,194	1,722	398,081
965 Total	526,954	NA	184	51,032	-50,848	1,897	2,244	471,965
70 Total	612,661	NA	36	71,733	-71,697	11,100	6,633	523,231
975 Total	654,641	NA	940	66,309	-65,369	32,154	-5,522	562,640
980 Total	829,700	NA	1,194	91,742	-90,548	25,595	10,827	702,730
85 Total	883,638	NA	1,952	92,680	-90,727	-27,934	2,796	818,049
90 Total	1,029,076	3,339	2,699	105,804	-103,104	26,542	-1,730	904,498
95 Total	1,032,974	8,561	9,473	88,547	-79,074 -45,976	-275 -48.309	632	962,104
00 Total	1,073,612 1,127,689	9,089 10,085	12,513 19,787	58,489 48,666	-45,976 -28,879	41,630	938 7,120	1,084,095 1,060,146
001 Total 002 Total	1,094,283	9,052	16,875	39,601	-20,079	10,215	4,040	1,066,355
03 Total	1,071,753	10,016	25,044	43,014	-17,970	-26,659	-4,403	1,094,861
004 Total	1,112,099	11,299	27,280	47,998	-20,718	-11,462	6,887	1,107,255
005 Total	1,131,498	13,352	30.460	49,942	-19.482	-9,702	9.092	1,125,978
006 Total	1,162,750	14.409	36,246	49.647	-13,401	42.642	8.824	1,112,292
007 Total	1,146,635	14,076	36,347	59,163	-22,816	5,812	4.085	1,127,998
008 Total	1,171,809	14,146	34,208	81,519	-47,311	12,354	5,740	1,120,548
009 Total	1,074,923	13,666	22,639	59.097	-36,458	39.668	14,985	997.478
010 Total	1.084.368	13.651	19,353	81,716	-62.363	-13.039	182	1.048.514
011 Total	1.095.628	13,209	13,088	107.259	-94,171	211	11.506	1.002.948
012 Total	1,016,458	11,196	9,159	125,746	-116,586	6,902	14,980	889,185
013 Total	984,842	11,279	8,906	117,659	-108,753	-38,525	1,451	924,442
014 Total	1,000,049	12,090	11,350	97,257	-85,907	-2,601	11,101	917,731
15 January	86,597	1,065	1,293	7,871	-6,579	2,390	1,799	76,895
February	72,251	1,001	866	6,496	-5,630	-4,929	233	72,318
March	81,476	755	850	7,612	-6,762	4,930	6,979	63,560
April	75,209	580	879	7,216	-6,337	13,571	2,673	53,207
May	70,415	756	919	6,761	-5,842	5,575	-2,169	61,923
June	66,933	872	842	5,789	-4,947	-6,552	-4,434	73,845
July	76,476	883 954	1,091 970	5,117 6.409	-4,026 -5,439	-8,638 -3,360	523 2.924	81,449
August	82,623	954 885	970 904	6,409 5,388	-5,439 -4,485	-3,360 5,283	-529	78,574 69,369
September	77,724 75,662	000 544	904 854	5,300	-4,465 -4,889	13,278	-366	58,405
October November	68,574	840	882	4,709	-4,009	13,061	-1,114	53,640
December	63,001	834	969	4,846	-3,877	6,094	-1,067	54,930
Total	896,941	9,969	11,318	73,958	-62,640	40,704	5,452	798,115
16 January	60,500	938	693	4,433	-3,740	-8,277	-518	66,492
February	57,263	822	819	4,511	-3,693	532	-1,175	55,036
March	55,265	719	1,186	5,208	-4,023	5,063	2,487	44,410
April	48,115	543	740	4,583	-3,843	2,155	-536	43,196
May	53,012	609	910	4,209	-3,298	-889	1,980	49,231
June	59,388	747	641	5,432	-4,790	-10,676	-1,504	67,525
July	61,796	861	990	3,276	-2,286	-14,699	-3,384	78,454
August	68,261	851	943	5,003	-4,060	-10,656	-2,322	78,029
September	65,083	685	800	4,273	-3,473	-3,433	-853	66,582
October	68,851	483	768	4,863	-4,095	4,321	2,016	58,902
November	67,272	584	706	6,554	-5,847	9,365	216	52,429
December	63,427	886	652	7,926	-7,274	-7,922	-4,356	69,316
Total	728,232	8,727	9,850	60,271	-50,421	-35,115	-7,950	729,602
17 January	68,378 64,354	875 751	743 612	7,385 6.908	-6,642 -6,296	-6,823 4,963	1,573 1,449	67,859 52,398
February	64,354 64,301	751 777	612 560	6,908 8.013	-6,296 -7.453	4,963	1,449 2.252	52,398 53,267
March	60,077	481	493	7,236	-7,455 -6,744	2,106	2,252	48,647
April	63,066	574	493 1,053	7,236	-6,744 -6,190	2,842	2,326 3,771	48,647 55,290
May June	67,040	574 688	651	7,243	-6,666	-4,768	2,531	63,298
July	66,829	F 835	956	7,177	-6,221	-13,773	1,072	74,143
August	73,834	RF 835	839	8,573	-7,734	^R -4,386	R 990	^R 70,331
September	65,796	NA	^R 513	^R 8,894	^R -8,381	-4,300 NA	NA	NA
October	65,754	NA	NA	NA	NA	NA	NA	NA
10-Month Total	659,429	NA	NA	NA	NA	NA	NA	NA
16 10-Month Total	597,533	7,257	8,491	45,791	-37,300	-36,558	-3,810	607,858
015 10-Month Total	765,366	8,296	9,468	64,403	-54,935	21,548	7,633	689,545

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

quantities lost or to data reporting problems. R=Revised. 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. 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	Other Industrial			Trans-	Electric Power		
	dential	CHPa	Otherb	Total	Plants	CHPC	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1950 Total 1955 Total 1960 Total 1965 Total 1976 Total 1977 Total 1978 Total 1985 Total 1985 Total 1990 Total 1995 Total 2000 Total 2010 Total 2011 Total 2011 Total 2013 Total 2014 Total	51,562 35,590 24,159 14,635 9,024 2,823 1,355 1,711 1,345 755 755 755 755 454 481 533 551 512 378 290 353 (ⁱ) (ⁱ) (ⁱ) (ⁱ) (ⁱ)	(9) (9) (9) (9) (9) (9) (9) (9) (9) 1,191 1,419 1,448 1,405 1,816 1,917 1,886 1,917 1,886 1,927 1,668 1,450 1,356 1,363	63,021 32,852 16,789 11,041 7,090 6,068 4,189 3,633 2,126 2,441 2,506 2,441 2,509 1,050 1,247 1,485 1,412 1,361 1,125 595 824	63,021 32,852 16,789 11,041 7,090 6,587 5,097 6,068 5,379 5,052 3,673 3,888 3,912 3,685 4,610 4,342 2,936 3,506 3,210 3,081 2,793 2,045 1,951 1,887	104,014 107,743 81,385 95,286 96,481 83,598 66,657 41,056 38,877 33,011 28,939 26,075 23,656 24,248 23,670 23,434 22,957 22,715 22,070 15,326 21,092 21,434 20,751 21,474 21,297	(^h) (^h) (^h) (^h) (^h) (^h) (^h) 27,781 28,031 25,755 26,623 24,846 26,613 25,875 25,262 24,846 26,613 25,875 22,5262 24,526 24,638 24,638 24,834 25,875 21,902 19,761 19,761 19,076	$\begin{array}{c} 120,623\\ 110,096\\ 96,017\\ 105,560\\ 90,156\\ 63,646\\ 60,347\\ 75,372\\ 48,549\\ 43,693\\ 37,177\\ 39,514\\ 34,515\\ 36,415\\ 35,582\\ 34,465\\ 34,240\\ 34,078\\ 32,491\\ 25,549\\ 24,650\\ 23,919\\ 22,773\\ 23,294\\ 23,870\\ \end{array}$	$\begin{array}{c} 120,623\\ 110,096\\ 96,017\\ 105,560\\ 90,156\\ 63,646\\ 60,347\\ 75,372\\ 76,330\\ 73,055\\ 65,268\\ 60,747\\ 61,261\\ 62,195\\ 59,472\\ 56,615\\ 54,393\\ 45,314\\ 49,289\\ 46,238\\ 42,838\\ 42,838\\ 42,055\\ 42,946\\ \end{array}$	224,637 217,839 177,402 200,846 186,637 147,244 127,004 115,207 106,067 94,147 91,344 84,403 85,569 85,865 83,774 82,429 79,331 76,463 60,641 70,381 67,671 63,589 64,529 64,243	63,011 16,972 3,046 655 298 (h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	91,871 143,759 176,685 244,788 320,182 405,962 405,962 405,962 405,962 405,962 405,862 1782,567 850,230 985,821 964,433 977,507 1,005,116 1,016,268 1,045,5141 1,040,580 933,627 975,052 932,484 823,551 857,962 851,602	494,102 447,012 398,081 523,231 523,231 523,231 522,640 522,730 904,498 962,104 1,084,095 1,060,146 1,066,355 1,064,481 1,107,255 1,125,978 1,122,5978 1,122,5978 1,122,5978 1,122,5978 1,122,5978 1,120,548 997,478 1,002,948 889,185 5924,442 917,731
2015 January February March April June July August September October December December Total		97 97 83 54 50 61 64 58 51 52 59 72 798	101 101 87 45 50 39 35 31 49 56 69 706	198 198 171 99 92 111 104 93 82 101 115 141 1,503	1,908 1,598 1,649 1,543 1,677 1,766 1,801 1,711 1,519 1,586 1,479 1,469 19,708	1,613 1,483 1,506 1,378 1,378 1,381 1,505 1,420 1,391 1,296 1,325 1,350 16,984	1,852 1,977 1,962 1,780 1,717 1,720 1,588 1,673 1,696 1,865 1,841 1,805 21,475	3,465 3,460 3,468 3,116 3,095 3,101 3,093 3,093 3,087 3,161 3,166 3,155 38,459	5,373 5,058 5,117 4,659 4,772 4,867 4,894 4,804 4,804 4,606 4,747 4,645 4,624 58,167	(((((((((((((((((((71,323 67,061 58,272 48,449 57,060 68,867 76,452 73,678 64,682 53,557 48,879 50,165 738,444	76,895 72,318 63,560 53,207 61,923 73,845 81,449 78,574 69,369 58,405 53,640 54,930 798,115
2016 January February March April June July August September October November December Total	$\left(\begin{array}{c} \cdot \\ \cdot $	76 78 75 49 40 46 50 49 50 61 71 692	73 75 72 27 25 17 19 18 39 48 56 490	148 153 147 76 62 71 63 69 67 89 109 127 1,182	1,328 1,361 1,434 1,324 1,367 1,405 1,405 1,336 1,336 1,336 1,336 1,326 1,442 16,485	1,503 1,395 1,370 1,006 1,149 1,212 1,234 1,234 1,053 998 1,155 14,302	1,543 1,639 1,672 1,806 1,671 1,594 1,584 1,574 1,588 1,574 1,759 1,885 1,894 1,734 20,359	3,046 3,034 3,042 2,812 2,820 2,806 2,822 2,808 2,812 2,878 2,878 2,878 2,878 2,878 34,661	4,374 4,395 4,475 4,136 4,187 4,211 4,255 4,203 4,148 4,213 4,218 4,218 4,218 4,331 51,146	(((((((((((((((((((61,970 50,487 39,788 38,984 44,983 63,243 74,136 73,757 62,366 54,601 48,102 64,858 677,275	66,492 55,036 44,410 43,196 49,231 67,525 78,454 78,029 66,582 58,902 52,429 69,316 729,602
2017 January February April May June July August 8-Month Total		62 50 55 37 36 42 50 45 377	76 62 67 27 26 31 F 3 F 4 E 296	138 112 64 62 72 F 52 F 49 E 673	1,431 1,368 1,438 1,441 1,442 1,402 F 1,468 F 1,721 E 11,750	1,288 1,085 1,143 1,024 1,071 1,083 1,038 1,058 8,789	1,526 1,739 1,663 1,677 1,635 1,631 F 1,518 F 1,542 E 12,931	2,813 2,824 2,806 2,701 2,706 2,714 F 2,556 F 2,600 E 21,720	4,244 4,191 4,244 4,141 4,189 4,116 F 4,024 F 4,321 E 33,470	(h) (h) (h) (h) (h) (h) (h)	63,477 48,095 48,901 44,441 51,039 59,109 70,067 65,960 451,089	67,859 52,398 53,267 48,647 55,290 63,298 74,143 70,331 485,233
2016 8-Month Total 2015 8-Month Total	(¹)	460 564	329 501	790 1,065	11,047 13,655	10,103 11,622	13,087 14,268	23,190 25,890	34,236 39,545	(^h) (^h)	447,347 521,161	482,374 561,771

^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."
^c 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.
^d All industrial sector fuel use other than that in "Coke Plants" and "Industrial CHP."
^e The electric power sector comprises electricity-only and combined-heat-and-power (CHP).

CHP." ^e 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. ^f Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers. ^g 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).
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 EIA'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.

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

	Producers and	Residential ^a and		Industrial			Electric Power	
	Distributors	Commercial	Coke Plants	Otherb	Total	Total	Sector ^{c,d}	Total
950 Year	NA	2.462	16,809	26,182	42.991	45.453	31,842	77.295
955 Year	NA	998	13,422	15,880	29,302	30,300	41,391	71,69
960 Year	NA	666	11.122	11.637	22,759	23.425	51.735	75.16
965 Year	NA	353	10,640	13,122	23,762	24,115	54,525	78,640
970 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	17,559	110.724	140.39
980 Year	24,379	NA	9.067	11,951	21,018	21,018	183,010	228,407
985 Year	33.133	NA	3,420	10,438	13,857	13,857	156,376	203,367
990 Year	33,418	NA	3,329	8.716	12.044	12.044	156,166	203,50
995 Year	34.444	NA	2,632	5,702	8.334	8,334	126,304	169.083
000 Year	31,905	NA	1,494	4,587	6,081	6,081	102,296	140,282
001 Year	35.900	NA	1,434	6.006	7,516	7,516	138.496	181.912
002 Year	43.257	NA	1,364	5.792	7,156	7,156	141,714	192,127
003 Year	38,277	NA	905	4,718	5,623	5,623	121,567	165,468
003 Tear	41.151	NA	1.344	4,718	6.186	6.186	106.669	154.006
004 Year	34,971	NA	2,615	4,042 5,582	8,196	8,196	101,137	144,304
005 Year	36,548	NA	2,928	6,506	9,434	9,434	140,964	186,946
007 Year	33,977	NA	1,936	5,624	7,560	7,560	151,221	192,758
007 Year 008 Year	34.688	498	2.331	5,624	8.338	8.836	161,589	205,112
009 Year	47.718	529	1.957	5.109	7,066	7,595	189.467	244.780
010 Year	49.820	552	1,925	4,525	6,451	7,003	174,917	231,740
010 Year	49,820 51.897	603	2.610	4,525	7.065	7,668	172.387	231,740
012 Year	46,157	583	2,522	4,455	6.997	7,581	185,116	238,853
013 Year	45,652	495	2,200	4,475	6,297	6,792	147,884	200,328
014 Year	38,894	495	2,200	4,097	6,836	7,285	151,548	197,727
	30,094	445	2,040	4,190	0,030	7,205	151,546	191,121
15 January	38,817	429	2,471	4,010	6,482	6,911	154,390	200,117
February	39,581	408	2,303	3,825	6,128	6,536	149,071	195,189
March	39,610	388	2,135	3,639	5,775	6,162	154,347	200,119
April	40,226	387	2,299	3,714	6,013	6,400	167,063	213,690
May	39,817	386	2,463	3,789	6,252	6,639	172,809	219,265
June	39,399	386	2,627	3,864	6,491	6,877	166,437	212,713
July	38,993	388	2,756	3,999	6,755	7,143	157,938	204,074
August	37,353	390	2,884	4,135	7,019	7,410	155,952	200,714
September	36,213	392	3,013	4,271	7,284	7,676	162,109	205,997
October	36,233	393	2,754	4,308	7,062	7,455	175,588	219,276
November	36,509	394	2,495	4,345	6,840	7,233	188,595	232,337
December	35,871	394	2,236	4,382	6,618	7,012	195,548	238,431
016 January	F_35,935	373	2,129	4,231	6,360	6,733	187,486	230,154
February	F 36,656	353	2,022	4,080	6,102	6,455	187,575	230,686
March	F 37,304	332	1,914	3,930	5,844	6,176	192,269	235,750
April	F 37,808	334	1,877	3,895	5,772	6,105	193,991	237,904
May	F 37,549	336	1,839	3,860	5,699	6,035	193,432	237,016
June	F 37,127	337	1,802	3,825	5,626	5,964	183,248	226,339
July	⁺ 36 287	348	1,755	3,786	5,540	5,889	169,465	211,640
August	£34,719	359	1,707	3,747	5,454	5,814	160,452	200,985
September	⊦ 33,574	370	1,660	3,708	5,368	5,739	158,238	197,551
October	F 33,417	367	1,665	3,684	5,349	5,716	162,739	201,873
November	F 33,336	364	1,670	3,659	5,329	5,694	172,208	211,238
December	F 33,699	361	1,675	3,635	5,310	5,671	163,946	203,316
17 January	F 33,706	352	1,579	3,497	5,076	5,428	157,359	196,493
February	F 34,286	344	1,483	3,358	4,842	5,185	161,985	201,456
March	F 34,719	335	1,388	3,220	4,607	4,942	163,900	203,56
April	F 35 115	332	1,467	3,254	4,721	5,052	166,236	206,404
May	F 34,720	330	1.547	3,272	4.819	5,149	164,924	204,793
June	F 34.240	328	1,626	3,291	4,917	5.245	160.540	200.025
July	F 33,246	F 306	F 1,656	F 2,961	F 4,617	F 4,922	148.084	186,252
		F 283	F 1,693	F 3,721	F 5,414	F 5,697	144,129	181,866

^a Through 1979, data are for the residential and commercial sectors. Beginning in 2008, data are for the commercial sector only.
^b 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.
^c 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.
^d Excludes waste coal. Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers. NA=Not available. F=Forecast.
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.

beginning in 1973. Sources: See end of section.

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 Initial estihttp://www.eia.gov/coal/production/weekly/. mates 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 oilheated 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 noncombustion use (See Tables 1.11a and 1.11b).

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; nonmetallic 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, endof-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.

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" (formely 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.

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