September 2012 Monthly Energy Review





Monthly Energy Review

The *Monthly Energy Review (MER)* is the U.S. Energy Information Administration's (EIA) primary report of recent and historical energy statistics. Included are statistics on total energy production, consumption, trade, and energy prices; overviews of petroleum, natural gas, coal, electricity, nuclear energy, renewable energy, and international petroleum; carbon dioxide emissions; and data unit conversions.

Release of the MER is in keeping with responsibilities given to EIA in Public Law 95–91 (Department of Energy Organization Act), which states, in part, in Section 205(a)(2):

"The Administrator shall be responsible for carrying out a central, comprehensive, and unified energy data and information program which will collect, evaluate, assemble, analyze, and disseminate data and information...."

The MER is intended for use by Members of Congress, Federal and State agencies, energy analysts, and the general public. EIA welcomes suggestions from readers regarding the content of the MER and other EIA publications.

Related Monthly Publications: Other monthly EIA reports are *Petroleum Supply Monthly*, *Petroleum Marketing Monthly*, *Natural Gas Monthly*, *Electric Power Monthly*, and *International Petroleum Monthly*. For more information, contact EIA's Office of Communications via email at infoctr@eia.gov.

Important Notes About the Data

Data Displayed: For tables beginning in 1973, some annual data (usually 1974, 1976-1979, 1981-1984, 1986-1989, and 1991-1994) are not shown in the tables in Portable Document Format (PDF) files; however, all annual data are shown in the Excel and comma-separated values (CSV) files. Also, only two to three years of monthly data are displayed in the PDF files; however, for many series, monthly data beginning with January 1973 are available in the Excel and CSV files.

Comprehensive Changes: Each month, most MER tables and figures carry a new month of data, which is usually preliminary (and sometimes estimated or even forecast) and likely to be revised in the succeeding month.

Annual Data From 1949: The emphasis of the MER is on recent monthly and annual data trends. Analysts may wish to use the data in this report in conjunction with EIA's *Annual Energy Review (AER)* that offers annual data beginning in 1949 for many of the data series found in the MER. The AER is available at http://www.eia.gov/totalenergy/data/annual.

Electronic Access

The MER is available on EIA's website in a variety of formats at http://www.eia.gov/totalenergy/data/monthly.

- Full report and sections: PDF files
- Report tables: PDF files
- Table data (unrounded): Excel and CSV files
- Graphs: PDF files

Note: PDF files display selected annual and monthly data; Excel and CSV files display all available annual and monthly data, often at a greater level of precision than the PDF files.

Timing of Release: The MER is posted on the EIA website by the last work day of the month at http://www.eia.gov/totalenergy/data/monthly.

Released: September 26, 2012

Monthly Energy Review September 2012

U.S. Energy Information Administration

Office of Energy Statistics U.S. Department of Energy Washington, DC 20585

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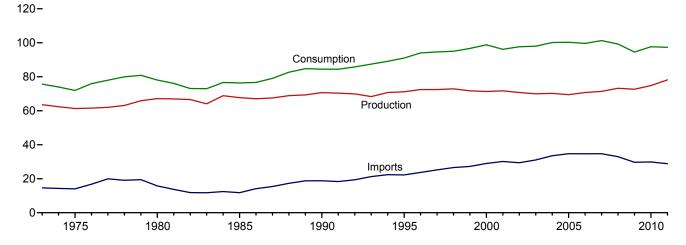
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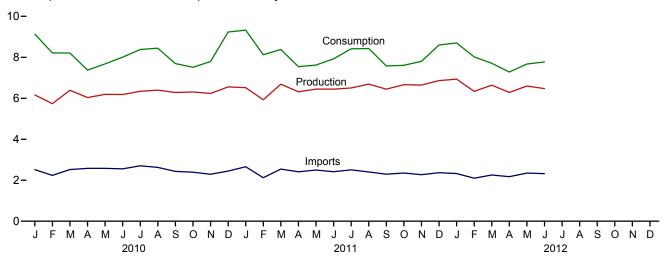
Energy Overview

Figure 1.1 Primary Energy Overview (Quadrillion Btu)

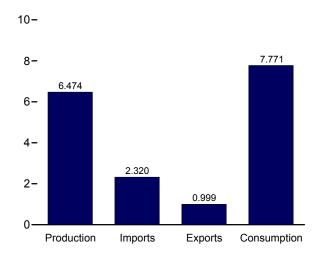
Consumption, Production, and Imports, 1973-2011



Consumption, Production, and Imports, Monthly



Overview, June 2012



Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.1.

Net Imports, January-June

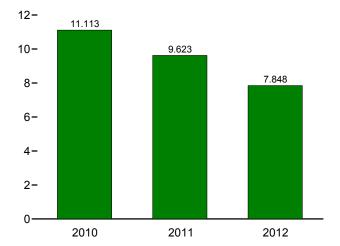


Table 1.1 Primary Energy Overview

(Quadrillion Btu)

		Produ	uction			Trade		Stook		Consu	mption	
	Fossil Fuels ^a	Nuclear Electric Power	Renew- able Energy ^b	Total	Imports	Exports	Net Imports ^c	Stock Change and Other ^d	Fossil Fuels ^e	Nuclear Electric Power	Renew- able Energy ^b	Total ^f
1973 Total	58.241	0.910	4.411	63.563	14.613	2.033	12.580	-0.459	70.314	0.910	4.411	75.684
1975 Total	54.733	1.900	4.687	61.320	14.032	2.323	11.709	-1.065	65.357	1.900	4.687	71.965
1980 Total	59.008	2.739	5.428	67.175	15.796	3.695	12.101	-1.210	69.828	2.739	5.428	78.067
1985 Total 1990 Total	57.539 58.560	4.076 6.104	6.084 6.041	67.698 70.705	11.781 18.817	4.196 4.752	7.584 14.065	1.110 284	66.093 72.332	4.076 6.104	6.084 6.041	76.392 84.485
1995 Total	57.540	7.075	6.558	71.174	22.260	4.511	17.750	2.105	77.259	7.075	6.560	91.029
1996 Total	58.387	7.087	7.012	72.486	23.702	4.633	19.069	2.468	79.785	7.087	7.014	94.022
1997 Total	58.857	6.597	7.018	72.472	25.215	4.514	20.701	1.429	80.873	6.597	7.016	94.602
1998 Total	59.314	7.068	6.494	72.876	26.581	4.299	22.281	140	81.369	7.068	6.493	95.018
1999 Total	57.614	7.610	6.517	71.742	27.252	3.715	23.537	1.372	82.427	7.610	6.516	96.652
2000 Total	57.366 58.541	7.862 8.029	6.104 5.164	71.332 71.735	28.973 30.157	4.006 3.771	24.967	2.515 -1.953	84.731 82.902	7.862 8.029	6.106	98.814 96.168
2001 Total 2002 Total	R 56.834	8.145	5.734	R 70.713	29.408	3.669	26.386 25.739	R 1.193	83.699	8.145	5.163 5.729	97.645
2003 Total	R 56.022	7.959	5.982	R 69.962	31.061	4.054	27.007	R 1.009	84.014	7.959	5.983	97.978
2004 Total	R 55.930	8.222	6.070	R 70.222	33.544	4.434	29.110	R .830	85.819	8.222	6.082	100.162
2005 Total	^R 55.053	8.161	6.229	^R 69.443	34.709	4.560	30.149	R .689	85.794	8.161	6.242	100.282
2006 Total	R 55.940	8.215	6.599	R 70.754	34.679	4.872	29.806	R930	84.702	8.215	6.649	99.629
2007 Total	R 56.435	8.455	6.509	^R 71.400 ^R 73.217	34.703	5.482	29.221	R .675	86.211	8.455	6.523	101.296
2008 Total 2009 Total	^R 57.588 ^R 56.669	8.427 8.356	7.202 7.616	R 72.641	32.992 29.706	7.060 6.965	25.932 22.741	R .125 R822	83.549 78.488	8.427 8.356	7.186 7.600	99.275 94.559
2010 January	R 4.734	.758	.672	6.164	2.516	.590	1.926	R 1.042	7.697	.758	.662	9.132
February	R 4.446	.682	.610	5.738	2.237	.556	1.681	R .793	6.915	.682	.605	8.213
March	5.032	.676	.682	6.389	2.519	.654	1.865	049	6.846	.676	.673	8.205
April	R 4.774	.602	.661	6.036	2.580	.686	1.894	558	6.104	.602	.657	7.372
May	4.777	.697	.717	R 6.191	2.578	.704	1.874	387	6.261	.697	.715	7.678
June	4.716 R 4.888	.714	.753 .701	^R 6.182 6.341	2.556 2.705	.684	1.872 1.989	R047 R .053	6.530 6.920	.714 .752	.755 .701	8.008 8.383
July August	R 4.987	.752 .748	.662	R 6.396	2.705	.716 .698	1.969	R .119	7.030	.732	.660	8.445
September	R 4.930	.725	.626	R 6.280	2.431	.675	1.757	R343	6.345	.725	.622	7.694
October	R 5.004	.656	.646	R 6.306	2.390	.714	1.676	R473	6.209	.656	.643	7.509
November	R 4.896	.655	.682	R 6.233	2.289	.760	1.529	R .035	6.464	.655	.676	7.797
December	R 5.058	.770	.726	R 6.554	2.447	.797	1.650	R 1.027	7.732	.770	.720	9.231
Total	R 58.241	8.434	8.136	R 74.812	29.877	8.234	21.643	R 1.211	81.054	8.434	8.090	97.667
2011 January	R 5.006	.760	.754	R 6.521	R 2.655	R .841	R 1.814	R .990	R 7.817	.760	R .738	R 9.325
February	^R 4.533 ^R 5.178	.677 .686	R .716 .822	^R 5.926 ^R 6.687	R 2.122 R 2.543	R .759 R .880	R 1.363 R 1.663	R .835 R .030	^R 6.731 ^R 6.874	.677 .686	R .709 .811	R 8.125 R 8.380
March April	R 4.924	.570	R .820	R 6.315	R 2.412	R .878	R 1.534	R306	R 6.154	.570	R .811	R 7.543
May	R 5.012	.596	.840	R 6.448	R 2.497	R .847	R 1.650	R477	R 6.178	.596	R .834	R 7.621
June	R 4.935	.682	R .829	6.447	R 2.417	R .818	^R 1.599	120	R 6.404	.682	R .828	R 7.925
July	R 4.951	.756	R .796	R 6.503	R 2.505	R .854	^R 1.651	R .257	R 6.852	.756	.787	^R 8.411
August	R 5.200	.746	R .745	R 6.690	R 2.405	R .879	R 1.526	R .211	R 6.921	.746	.744	R 8.427
September	R 5.068	.699	R .679	R 6.446	R 2.294	R .892	R 1.402	R269	R 6.197	.699	R .672	R 7.579
October	^R 5.293 ^R 5.227	.662 .674	R .710 .742	6.665 R 6.644	R 2.351 R 2.272	R .891 R .894	^R 1.460 ^R 1.378	R515 R220	^R 6.237 ^R 6.389	.662 .674	^R .701 ^R .732	^R 7.610 ^R 7.803
November December	R 5.333	.674 .751	.742 R .778	R 6.862	R 2.370	R 1.026	R 1.344	R .393	R 7.068	.674 .751	R .768	R 8.599
Total	R 60.661	8.259	R 9.233	R 78.154	R 28.842	R 10.458	R 18.384	R .808	R 79.822	8.259	R 9.137	R 97.346
2012 January	R 5.384	.757	.792	R 6.933	R 2.326	R .864	R 1.462	R .306	^R 7.165	.757	.769	R 8.701
February	R 4.964	.667	.705	R 6.336	R 2.099	R .838	1.262	R .418	6.646	.667	.694	R 8.016
March	R 5.198	.645	.797	R 6.641	R 2.255	R .964	1.291	R222	R 6.266	.645	.788	7.710 P.7.070
April	R 4.925	.584	.776	R 6.285	R 2.174	R .999 R 1.013	R 1.175	R182 R264	R 5.909	.584	.773	^R 7.279 ^R 7.671
May June	^R 5.130 5.010	.649 .681	.819 .783	^R 6.599 6.474	R 2.349 2.320	.999	R 1.336 1.322	025	^R 6.188 6.294	.649 .681	.819 .782	7.771
6-Month Total	30.612	3.983	4.673	39.268	13.524	5.676	7.848	.032	38.468	3.983	4.625	47.148
2011 6-Month Total 2010 6-Month Total	29.589 28.478	3.972 4.129	4.782 4.094	38.343 36.701	14.647 14.986	5.023 3.873	9.623 11.113	.951 .794	40.157 40.354	3.972 4.129	4.732 4.067	48.918 48.608

Notes: • See "Primary Energy," "Primary Energy Production," and "Primary Energy Consumption," in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1973.

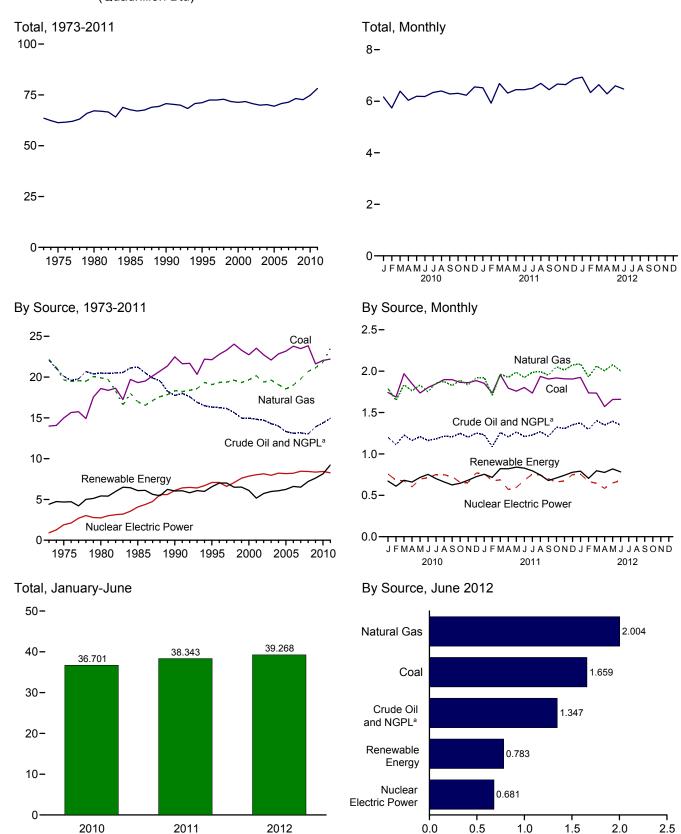
Sources: • Production: Table 1.2. • Trade: Tables 1.4a and 1.4b. • Stock Change and Other: Calculated as consumption minus production and net imports.

• Consumption: Table 1.3.

a Coal, natural gas (dry), crude oil, and natural gas plant liquids.
 b See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
 c Net imports equal imports minus exports.
 d Includes petroleum stock change and adjustments; natural gas net storage withdrawals and balancing item; coal stock change, losses, and unaccounted for; fuel ethanol stock change; and biodiesel stock change and balancing item.
 e Coal, coal coke net imports, natural gas, and petroleum.
 f Also includes electricity net imports.
 R=Revised.

R=Revised.

Figure 1.2 Primary Energy Production (Quadrillion Btu)



^a Natural gas plant liquids.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.2.

Table 1.2 Primary Energy Production by Source

(Quadrillion Btu)

	Tadrillori	,											
		F	ossil Fuels						Renewabl	e Energy	a		
	Coalb	Natural Gas (Dry)	Crude Oil ^c	NGPLd	Total	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total
1973 Total	13.992 14.989	22.187 19.640	19.493 17.729 18.249	2.569 2.374	58.241 54.733 59.008	0.910 1.900	2.861 3.155	0.020 .034 .053	NA NA	NA NA	1.529 1.499	4.411 4.687	63.563 61.320
1980 Total 1985 Total 1990 Total	19.325 22.488	19.908 16.980 18.326	18.992 15.571	2.254 2.241 2.175	57.539 58.560	2.739 4.076 6.104	2.900 2.970 3.046	.053 .097 .171	NA (s) .059	NA (s) .029	2.475 3.016 2.735	5.428 6.084 6.041	67.175 67.698 70.705
1995 Total 1996 Total 1997 Total	22.790	19.082 19.344 19.394	13.887 13.723 13.658	2.442 2.530 2.495	57.540 58.387 58.857	7.075 7.087 6.597	3.205 3.590 3.640	.152 .163 .167	.069 .070 .070	.033 .033 .034	3.099 3.155 3.108	6.558 7.012 7.018	71.174 72.486 72.472
1998 Total 1999 Total	24.045 23.295	19.613 19.341	13.235 12.451	2.420 2.528	59.314 57.614	7.068 7.610	3.297 3.268	.168 .171	.069 .068	.031 .046	2.929 2.965	6.494 6.517	72.876 71.742
2000 Total 2001 Total 2002 Total	23.547 22.732	19.662 20.166 19.382	12.358 12.282 R 12.160	2.611 2.547 2.559	57.366 58.541 R 56.834	7.862 8.029 8.145	2.811 2.242 2.689	.164 .164 .171	.066 .064 .063	.057 .070 .105	3.006 2.624 2.705	6.104 5.164 5.734	71.332 71.735 R 70.713
2003 Total 2004 Total 2005 Total	22.852 23.185	19.633 19.074 18.556 19.022	R 11.948 R 11.538 R 10.978 R 10.772	2.346 2.466 2.334 2.356	R 56.022 R 55.930 R 55.053 R 55.940	7.959 8.222 8.161	2.825 2.690 2.703 2.869	.175 .178 .181 .181	.062 .063 .063 .068	.115 .142 .178 .264	2.805 2.998 3.104	5.982 6.070 6.229 6.599	R 69.962 R 70.222 R 69.443 R 70.754
2006 Total 2007 Total 2008 Total 2009 Total	23.493 23.851	19.022 19.786 20.703 21.139	R 10.772 R 10.748 R 10.615 R 11.332	2.409 2.419 2.574	R 56.435 R 57.588 R 56.669	8.215 8.455 8.427 8.356	2.446 2.511 2.669	.186 .192 .200	.076 .089 .098	.204 .341 .546 .721	3.216 3.461 3.864 3.928	6.509 7.202 7.616	R 71.400 R 73.217 R 72.641
2010 January February	1.743	1.790 1.648	R .971 R .901	.230 .210	R 4.734 R 4.446	.758 .682	.218 .201	.018 .016	.010 .009	.067 .053	.359 .332	.672 .610	6.164 5.738
March April May	1.848	1.835 1.763 1.832	.991 ^R .936 ^R .971	.236 .227 .238	5.032 R 4.774 4.777	.676 .602 .697	.204 .186 .245	.018 .017 .018	.010 .010 .011	.084 .095 .085	.366 .351 .358	.682 .661 .717	6.389 6.036 R 6.191
June July August	1.802 1.847 1.898	1.751 1.859 1.874	.937 R .955 R .979	.226 .227 .236	4.716 R 4.888 R 4.987	.714 .752 .748	.291 .239 .196	.017 .017 .018	.011 .011 .011	.079 .066 .065	.355 .367 .371	.753 .701 .662	R 6.182 6.341 R 6.396
September October November	1.864	1.826 1.892 1.833	R .976 R 1.006 R .967	.232 .242 .235	R 4.930 R 5.004 R 4.896	.725 .656 .655	.168 .173 .191	.017 .017 .017	.011 .010 .010	.069 .077 .095	.360 .369 .369	.626 .646 .682	R 6.280 R 6.306 R 6.233
December Total	1.886	1.920 21.823	R 1.009 R 11.598	.242 2.781	R 5.058 R 58.241	.770 8.434	.226 2.539	.018 . 208	.010 .126	.088 .923	.383 4.341	.726 8.136	R 6.554 R 74.812
2011 January February March	R 1.735	E 1.922 E 1.711 E 1.963	R .991 R .881 R 1.009	R .241 R .207 R .250	R 5.006 R 4.533 R 5.178	.760 .677 .686	.255 .241 .310	.020 .018 .020	.012 .012 .013	.084 .103 .103	R .382 R .343 .377	.754 R .716 .822	^R 6.521 ^R 5.926 ^R 6.687
April May	R 1.794 R 1.759	E 1.925 E 1.988 E 1.923	R .964 R 1.011 R .969	R .241 R .254 R .241	R 4.924 R 5.012 R 4.935	.570 .596 .682	.309 .323 .315	.018 .019 .019	.013 .014 .014	.121 .114 .106	.359 R .370 R .376	R .820 .840 R .829	R 6.315 R 6.448 6.447
June July August	R 1.735 R 1.936	E 1.987 E 1.994	^R .977 ^R 1.016	R .251 R .254	^R 4.951 ^R 5.200	.756 .746	.308 .257	.019 .019	.014 .014	.072 .072	R .383 R .383	^R .796 ^R .745	R 6.503 R 6.690
September October November	^R 1.917 ^R 1.907	E 1.952 E 2.052 E 2.014	R .971 R 1.060 R 1.045	R .239 R .263 R .261	R 5.068 R 5.293 R 5.227	.699 .662 .674	.210 .195 .209	.018 .019 .019	.013 .014 .012	.067 .104 .121	.371 .379 .382	R .679 R .710 .742	R 6.446 6.665 R 6.644
December Total		E 2.075 E 23.506	R 1.084 R 11.978	.268 R 2.970	R 5.333 R 60.661	.751 8.259	.241 3.171	.019 .226	.013 .158	.102 1.168	.403 R 4.509	R 9.233	^R 6.862 ^R 78.154
2012 January February March April	1.737 1.735	E 2.087 E 1.930 E 2.061 E 2.004	RE 1.103 RE 1.042 RE 1.132 RE 1.087	R .270 R .254 R .270 R .262	R 5.384 R 4.964 R 5.198 R 4.925	.757 .667 .645 .584	.233 .203 .256 .261	.019 .018 .019 .018	.015 .015 .016 .017	.135 .108 .132 .123	.389 .362 .372 .357	.792 .705 .797 .776	R 6.933 R 6.336 R 6.641 R 6.285
May June 6-Month Total	R 1.658 1.659	E 2.077 E 2.004 E 12.164	RE 1.125 E 1.089 E 6.578	R .270 .257 1.585	R 5.130 5.010 30.612	.649 .681 3.983	.283 .264 1.501	.019 .019 .114	.019 .019 .101	.121 .115 .734	.377 .367 2.224	.819 .783 4.673	R 6.599 6.474 39.268
2011 6-Month Total 2010 6-Month Total		E 11.431 10.619	5.825 5.706	1.433 1.367	29.589 28.478	3.972 4.129	1.752 1.345	.113 .104	.078 .062	.631 .462	2.207 2.121	4.782 4.094	38.343 36.701

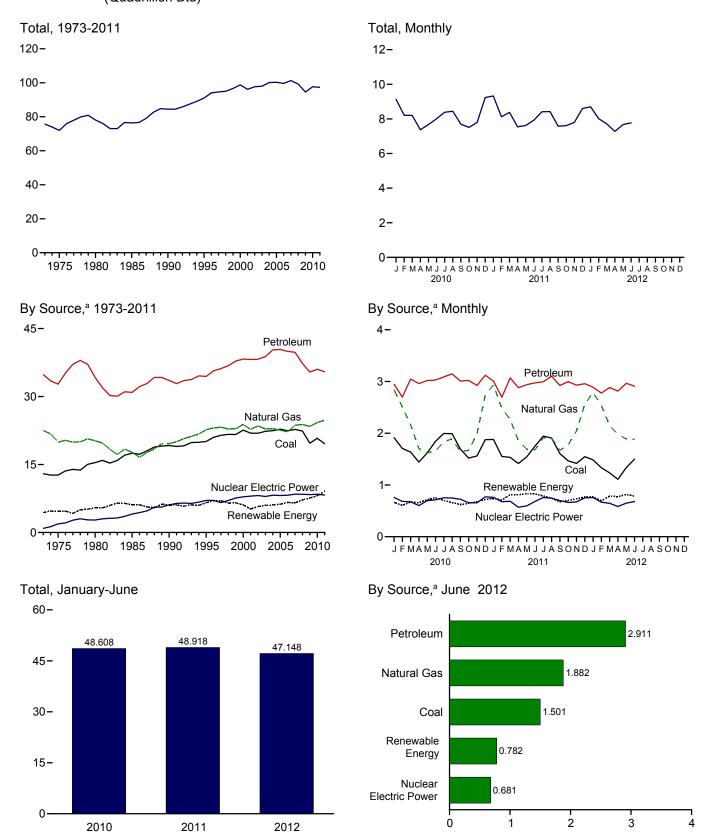
a Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
 b Beginning in 1989, includes waste coal supplied. Beginning in 2001, also includes a small amount of refuse recovery. See Table 6.1.
 c Includes lease condensate.
 d Natural gas plant liquids.
 e Conventional hydroelectric power.
 R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • See "Primary Energy Production" in Glossary. • 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/#summary for all available data beginning in 1973.

Sources: • Coal: Tables 6.1 and A5. • Natural Gas (Dry): Tables 4.1 and A4. • Crude Oil and Natural Gas Plant Liquids: Tables 3.1 and A2. • Nuclear Electric Power: Tables 7.2a and A6 ("Nuclear Plants" heat rate). • Renewable Energy: Table 10.1.

Figure 1.3 Primary Energy Consumption (Quadrillion Btu)



^a Small quantities of net imports of coal coke and electricity are not shown. Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.3.

Table 1.3 Primary Energy Consumption by Source

(Quadrillion Btu)

	1											
		Fossi	l Fuels			Renewable Energy ^a						
					Nuclear	Hydro-						
		Natural	Petro-		Electric	electric	Geo-	Solar/		Bio-		
	Coal	Gasb	leum ^c	Totald	Power	Powere	thermal	PV	Wind	mass	Total	Total ^f
	l .	1	1	1	I		1					1
1973 Total	12.971	22.512	34.837	70.314	0.910	2.861	0.020	NA	NA	1.529	4.411	75.684
1975 Total		19.948	32.732	65.357	1.900	3.155	.034	NA	NA	1.499	4.687	71.965
1980 Total	15.423	20.235	34.205	69.828	2.739	2.900	.053	NA	ŅĄ	2.475	5.428	78.067
1985 Total	17.478	17.703	30.925	66.093	4.076	2.970	.097	(s)	(s)	3.016	6.084	76.392
1990 Total	19.173 20.089	19.603 22.671	33.552 34.438	72.332 77.259	6.104 7.075	3.046 3.205	.171 .152	.059 .069	.029 .033	2.735 3.101	6.041 6.560	84.485 91.029
1995 Total	21.002	23.085	35.675	79.785	7.073	3.590	.163	.070	.033	3.157	7.014	94.022
1997 Total	21.445	23.223	36.159	80.873	6.597	3.640	.167	.070	.034	3.105	7.016	94.602
1998 Total	21.656	22.830	36.816	81.369	7.068	3.297	.168	.069	.031	2.927	6.493	95.018
1999 Total	21.623	22.909	37.838	82.427	7.610	3.268	.171	.068	.046	2.963	6.516	96.652
2000 Total	22.580	23.824	38.262	84.731	7.862	2.811	.164	.066	.057	3.008	6.106	98.814
2001 Total		22.773	38.186	82.902	8.029	2.242	.164	.064	.070	2.622	5.163	96.168
2002 Total	21.904	23.510	38.224	83.699	8.145	2.689	.171	.063	.105	2.701	5.729	97.645
2003 Total	22.321	22.831	38.811	84.014	7.959	2.825	.175	.062	.115	2.807	5.983	97.978
2004 Total	22.466	22.923	40.292	85.819	8.222	2.690	.178	.063	.142	3.010	6.082	100.162
2005 Total	22.797	22.565	40.388	85.794	8.161	2.703	.181	.063	.178	3.117	6.242	100.282
2006 Total	22.447 22.749	22.239 23.663	39.955 39.774	84.702 86.211	8.215 8.455	2.869 2.446	.181 .186	.068 .076	.264 .341	3.267 3.474	6.649 6.523	99.629 101.296
2007 Total 2008 Total	22.749	23.843	37.280	83.549	8.427	2.511	.192	.089	.546	3.849	7.186	99.275
2009 Total	19.692	23.416	35.403	78.488	8.356	2.669	.200	.098	.721	3.912	7.600	94.559
2010 January	1.914	2.841 2.507	2.947	7.697	.758 .682	.218 .201	.018	.010 .009	.067 .053	.349 .326	.662	9.132 8.213
February March	1.706 1.635	2.160	2.698 3.048	6.915 6.846	.676	.201	.016 .018	.009	.053	.357	.605 .673	8.205
April	1.444	1.700	2.960	6.104	.602	.186	.017	.010	.095	.348	.657	7.372
May	1.618	1.622	3.020	6.261	.697	.245	.018	.011	.085	.356	.715	7.678
June	1.844	1.656	3.029	6.530	.714	.291	.017	.011	.079	.357	.755	8.008
July	1.995	1.836	3.089	6.920	.752	.239	.017	.011	.066	.368	.701	8.383
August	1.991	1.890	3.148	7.030	.748	.196	.018	.011	.065	.370	.660	8.445
September	1.693	1.644	3.008	6.345	.725	.168	.017	.011	.069	.357	.622	7.694
October	1.519	1.671	3.020	6.209	.656	.173	.017	.010	.077	.366	.643	7.509
November	1.561	1.986	2.923	6.464	.655	.191	.017	.010	.095	.363	.676	7.797
December Total	1.876 20.794	2.741 24.256	3.120 36.010	7.732 81.054	.770 8.434	.226 2.539	.018 .208	.010 .126	.088 .923	.377 4.294	.720 8.090	9.231 97.667
10tai	20.734	24.230	30.010	01.034	0.434	2.559	.200	.120	.923	4.294	0.090	97.007
2011 January	1.879	R 2.932	R 3.006	^R 7.817	.760	.255	.020	.012	.084	.367	R .738	R 9.325
February	1.552	2.482	R 2.696	R 6.731	.677	.241	.018	.012	.103	R .336	R .709	R 8.125
March	1.534	R 2.268	R 3.070	R 6.874	.686	.310	.020	.013	.103	.366 R _. 350	.811 R .811	R 8.380
April	1.416 R 1.544	^R 1.858 ^R 1.694	R 2.879 R 2.938	^R 6.154 ^R 6.178	.570 .596	.309 .323	.018 .019	.013 .014	.121 .114	R .364	R .834	^R 7.543 ^R 7.621
May June	R 1.751	R 1.678	R 2.973	R 6.404	.682	.315	.019	.014	.106	R .375	R .828	R 7.925
July	1.945	R 1.912	R 2.995	R 6.852	.756	.308	.019	.014	.072	.374	.787	R 8.411
August	1.908	1.908	R 3.101	R 6.921	.746	.257	.019	.014	.072	R .383	.744	R 8.427
September	1.604	R 1.670	R 2.922	R 6.197	.699	.210	.018	.013	.067	R .364	R .672	R 7.579
October	1.467	R 1.772	R 2.998	R 6.237	.662	.195	.019	.014	.104	.370	R .701	^R 7.610
November	_ 1.417	2.045	R 2.929	^R 6.389	.674	.209	.019	.012	.121	R .372	R .732	R 7.803
December	R 1.546	R 2.563	R 2.957	R 7.068	.751	.241	.019	.013	.102	R.393	R.768	R 8.599
Total	R 19.564	R 24.782	R 35.465	R 79.822	8.259	3.171	.226	.158	1.168	R 4.413	R 9.137	R 97.346
2012 January	1.486	R 2.788	2.889	R 7.165	.757	.233	.019	.015	.135	.367	.769	R 8.701
February	1.333	R 2.536	2.776	6.646	.667	.203	.018	.015	.108	.350	.694	R 8.016
March	1.233	R 2.147	2.883	^R 6.266	.645	.256	.019	.016	.132	.364	.788	7.710
April	R 1.110	R 1.979	2.815	R 5.909	.584	.261	.018	.017	.123	.353	.773	R 7.279
May	R 1.335	R 1.888	2.964	R 6.188	.649	.283	.019	.019	.121	.376	.819	R 7.671
June 6-Month Total	1.501	1.882	2.911	6.294	.681	.264	.019	.019	.115	.365	.782	7.771
o-wonth rotal	7.998	13.221	17.238	38.468	3.983	1.501	.114	.101	.734	2.176	4.625	47.148
2011 6-Month Total	9.677	12.911	17.563	40.157	3.972	1.752	.113	.078	.631	2.158	4.732	48.918
2010 6-Month Total	10.160	12.487	17.701	40.354	4.129	1.345	.104	.062	.462	2.094	4.067	48.608

 $^{^{\}rm a}$ Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and

components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.

^b Natural gas only; excludes supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

^c Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."

^d Includes coal coke net imports. See Tables 1.4a and 1.4b.

^e Conventional hydroelectric power.

^f Includes coal coke net imports and electricity net imports, which are not

separately displayed. See Tables 1.4a and 1.4b.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes:

See "Primary Energy Consumption" in Glossary.

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/#summary for all available data beginning in 1973.

Sources:

Coal: Tables 6.1 and A5.

Natural Gas: Tables 4.1 and A4.

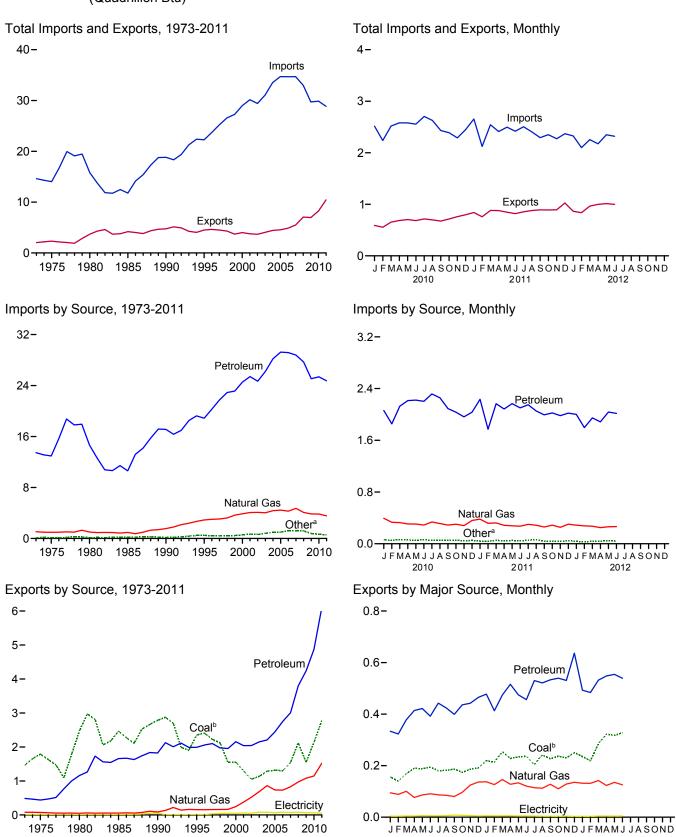
Petroleum: Table 3.6.

Nuclear Electric Power: Tables 7.2a and A6 ("Nuclear Plants" heat rate).

Renewable Energy: Table 10.1.

Net Imports of Coal Coke and Electricity: Tables 1.4a and 1.4b.

Figure 1.4a Primary Energy Imports and Exports (Quadrillion Btu)

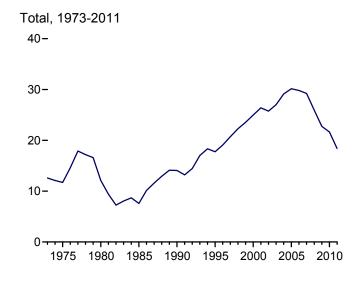


^a Coal, coal coke, biofuels, and electricity.

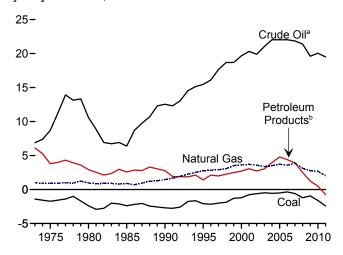
^b Includes coal coke.

Figure 1.4b Primary Energy Net Imports

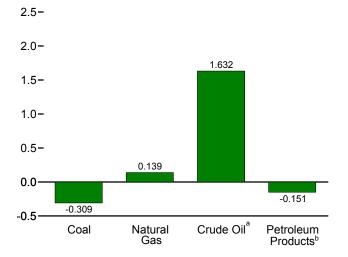
(Quadrillion Btu, Except as noted)







By Major Source, June 2012



^a Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.

Total, Monthly

3.0-

2.5-



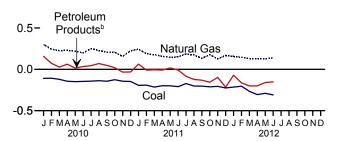
0.5-

0.0 JFMAMJJASONDJFMAMJJASONDJFMAMJJASOND
2010 2011 2012

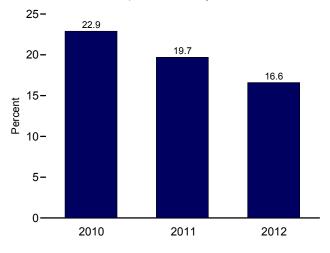
By Major Source, Monthly



1.0-



As Share of Consumption, January-June



blending components. Does not include biofuels.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Sources: Tables 1.3, 1.4a, and 1.4b.

^b Petroleum products, unfinished oils, pentanes plus, and gasoline

Table 1.4a Primary Energy Imports by Source

(Quadrillion Btu)

					Imports				
					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Total	Biofuels ^c	Electricity	Total
973 Total	0.003	0.027	1.060	6.887	6.578	13.466	NA	0.057	14.613
975 Total	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032
980 Total	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796
985 Total	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781
990 Total	.067	.019	1.551	12.766	4.351	17.117	NA	.063	18.817
995 Total	.237	.095	2.901	15.669	3.211	18.881	.001	.146	22.260
996 Total	.203	.063	3.002	16.341	3.943	20.284	.001	.148	23.702
997 Total	.187	.078	3.063	17.876	3.864	21.740	(s)	.147	25.215
998 Total	.218	.095	3.225	18.916	3.992	22.908	(s)	.135	26.581
999 Total	.227	.080	3.664	18.935	4.198	23.133	(s)	.147	27.252
000 Total	.313	.094	3.869	19.783	4.749	24.531	(s)	.166	28.973
001 Total	.495	.063	4.068	20.348	5.051	25.398	.002	.131	30.157
002 Total	.422	.080	4.104	19.920	4.754	24.674	.002	.125	29.408
003 Total	.626	.068	4.042	21.060	5.159	26.219	.002	.104	31.061
004 Total	.682	.170	4.365	22.082	6.114	28.197	.013	.117	33.544
005 Total	.762	.088	4.450	22.091	7.157	29.248	.012	.150	34.709
006 Total	.906	.101	4.291	22.085	7.084	29.169	.066	.146	34.679
007 Total	.909	.061	4.723	21.914	6.868	28.781	.054	.175	34.703
008 Total	.855	.089	4.084	21.448	6.237	27.685	.084	.195	32.992
009 Total	.566	.009	3.845	19.699	5.383	25.082	.026	.178	29.706
110 January	.042	.001	.394	1.577	.483	2.060	.001	.018	2.516
February	.031	.005	.332	1.469	.384	1.853	(s)	.015	2.237
March	.047	.003	.327	1.734	.393	2.127	.001	.015	2.519
April	.045	.001	.306	1.747	.466	2.214	(s)	.013	2.580
May	.037	.005	.305	1.793	.428	2.221	.001	.010	2.578
June	.044	.005	.289	1.784	.419	2.203	(s)	.014	2.556
July	.035	.003	.337	1.844	.472	2.316	(s)	.015	2.705
August	.043	.003	.313	1.772	.484	2.256	(s)	.012	2.627
September	.040	.002	.289	1.658	.432	2.090	(s)	.010	2.431
October	.044	.001	.302	1.585	.448	2.034	(s)	.009	2.390
November	.037	(s)	.280	1.563	.400	1.963	(s)	.009	2.289
December	.039	(s)	.361	1.614	.420	2.034	(s)	.013	2.447
Total	.484	.030	3.834	20.140	5.231	25.371	.004	.154	29.877
011 January	.025	.001	.380	R 1.710	R .523	R 2.233	(s)	.015	R 2.655
February	.021	.002	.316	R 1.377	R.394	R 1.771	(s)	.013	R 2.122
March	.038	.004	.322	R 1.710	R .455	R 2.166	(s)	.014	R 2.543
April	.028	.001	.285	R 1.593	R .490	R 2.084	(s)	.013	R 2.412
May	.033	.004	.277	R 1.687	R .479	R 2.166	(s)	.017	R 2.497
June	.024	.004	.272	R 1.665	R .436	R 2.101	.001	.015	R 2.417
July	.030	.003	.300	R 1.728	R .422	R 2.150	.001	.021	R 2.505
August	.039	.005	.286	R 1.664	R .389	R 2.053	.002	.019	R 2.405
September	.021	.003	.260	R 1.607	R .386	R 1.993	.003	.014	R 2.294
October	.023	.002	.288	R 1.659	R .364	R 2.023	.002	.013	R 2.351
November	.020	.002	.254	R 1.572	R .409	R 1.981	R .003	.012	R 2.272
December	.024	.004	.303	R 1.622	R .397	R 2.019	R .005	.015	R 2.370
Total	.327	.035	3.542	^R 19.595	^R 5.145	R 24.740	R .019	.178	R 28.842
112 January	.020	.003	.288	R 1.597	R .405	R 2.001	(s)	.014	R 2.326
February	.013	.002	.276	1.491	R .304	R 1.795	(s)	.012	R 2.099
March	.017	.004	.272	1.633	R .313	R 1.946	.002	.014	R 2.255
April	.016	.007	.249	R 1.549	R .336	R 1.885	.001	.017	R 2.174
May	.025	.004	.263	1.659	R .378	R 2.037	.002	.019	R 2.349
June	.018	.001	.265	1.640	.375	2.015	.003	.018	2.320
6-Month Total	.109	.021	1.612	9.568	2.111	11.679	.008	.095	13.524
011 6-Month Total 010 6-Month Total	.170 .247	.016 .020	1.852 1.954	9.742 10.104	2.778 2.574	12.520 12.678	.002 .003	.086 .086	14.647 14.986

^a Crude oil and lease condensate. Includes imports into the Strategic Petroleum

available data beginning in 1973.

Sources: • Coal: Tables 6.1 and A5. • Coal Coke: 1973-1975—U.S.

Department of the Interior, 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 forward—EIA, Quarterly Coal Report, quarterly reports and Table A5. • Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.3b, 10.3, 10.4, and A2. • Biofuels: Tables 10.3, 10.4 and A3. • Electricity: Tables 71 and A6. 7.1 and A6.

^a Crude oil and lease condensate. Includes imports into the Shategic i eurolean Reserve, which began in 1977.

^b Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.

^c Fuel ethanol (minus denaturant) and biodiesel.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all

Table 1.4b Primary Energy Exports by Source and Total Net Imports

(Quadrillion Btu)

					Exports					Net Imports ^a
					Petroleum					
	Coal	Coal Coke	Natural Gas	Crude Oil ^b	Petroleum Products ^C	Total	Biofuelsd	Electricity	Total	Total
1973 Total	1.425	0.035	0.079	0.004	0.482	0.486	NA	0.009	2.033	12.580
1975 Total	1.761	.032	.074	.012	.427	.439	NA	.017	2.323	11.709
1980 Total	2.421	.051	.049	.609	.551	1.160	NA	.014	3.695	12.101
1985 Total	2.438	.028	.056	.432	1.225	1.657	NA	.017	4.196	7.584
1990 Total 1995 Total	2.772 2.318	.014 .034	.087 .156	.230 .200	1.594 1.791	1.824 1.991	NA NA	.055 .012	4.752 4.511	14.065 17.750
1996 Total	2.368	.040	.155	.233	1.825	2.059	NA NA	.012	4.633	19.069
1997 Total	2.193	.031	.159	.228	1.872	2.100	NA NA	.031	4.514	20.701
1998 Total	2.092	.028	.161	.233	1.740	1.972	NA	.047	4.299	22,281
1999 Total	1.525	.022	.164	.250	1.705	1.955	NA	.049	3.715	23.537
2000 Total	1.528	.028	.245	.106	2.048	2.154	NA	.051	4.006	24.967
2001 Total	1.265	.033	.377	.043	1.996	2.039	(s)	.056	3.771	26.386
2002 Total	1.032	.020	.520	.019	2.023	2.042	(s)	.054	3.669	25.739
2003 Total	1.117	.018	.686	.026	2.124	2.151	.001	.082	4.054	27.007
2004 Total	1.253	.033	.862	.057	2.151	2.208	.001	.078	4.434	29.110
2005 Total 2006 Total	1.273 1.264	.043 .040	.735 .730	.067 .052	2.374 2.699	2.442 2.751	.001 .004	.065 .083	4.560 4.872	30.149 29.806
2007 Total	1.507	.040	.830	.052	2.099	3.007	.035	.069	5.482	29.000
2008 Total	2.071	.049	.972	.061	3.739	3.800	.035	.083	7.060	25.932
2009 Total	1.515	.032	1.082	.093	4.147	4.240	.034	.062	6.965	22.741
2010 January	.151	.006	.094	.006	.327	.332	.003	.004	.590	1.926
February	.138	.001	.089	.009	.312	.321	.003	.003	.556	1.681
March	.169	(s)	.100	.008	.366	.374	.006	.004	.654	1.865
April	.189	.001	.077	.006	.404	.411	.005	.004	.686	1.894
May	.186	.003	.086	.007	.414	.420	.003	.006	.704	1.874
June	.190	.004	.091	.005	.385	.391	.003	.005	.684	1.872
July	.178 .180	.003 .002	.087 .085	.012 .006	.428	.440	.003 .004	.005 .006	.716 .698	1.989
August September	.184	.002	.080	.006	.415 .385	.421 .396	.004	.008	.675	1.929 1.757
October	.170	.003	.097	.004	.429	.433	.004	.007	.714	1.676
November	.180	.006	.125	.006	.433	.439	.004	.006	.760	1.529
December	.186	.005	.136	.007	.452	.459	.007	.005	.797	1.650
Total	2.101	.036	1.147	.088	4.750	4.838	.046	.065	8.234	21.643
2011 January	.218	.001	.137	.013	R.460	R .473	.006	.005	R .841	R 1.814
February	.212	.002	.126	.005	R .403	R .408	.005	.005	R .759	R 1.363
March	.252	.001	.146	.007	R .461	R .467	.008	.005	R .880	R 1.663
April	.227 .232	.001 .002	.128	.007 .007	^R .499 ^R .462	^R .506 ^R .469	.011 .007	.005 .004	^R .878 ^R .847	R 1.534 R 1.650
May June	.232	.002	.133 .121	.007	R .444	R .451	.007	.004	R .818	R 1.599
July	.202	.003	.114	.013	R .506	R .520	.011	.004	R .854	R 1.651
August	.241	.003	.112	.006	R .511	R .517	.005	.003	R .879	R 1.526
September	.224	.003	.128	.006	.518	.524	.010	.003	R .892	R 1.402
October	.235	.002	.110	.009	R .520	R .529	.011	.003	R .891	R 1.460
November	.226	.004	.129	.011	R .507	R .518	.013	.004	R .894	R 1.378
December	.249	.001	.136	.010	R .613	R .622	.014	.003	R 1.026	R 1.344
Total	2.751	.024	1.521	.100	R 5.904	R 6.004	.108	.051	R 10.458	R 18.384
2012 January	.234	.001	.132	.010	R .476	R .487 R .478	.008	.003	R .864	R 1.462
February	.217 .284	.002 .002	.131 ^R .142	.010 .011	^R .468 ^R .514	^N .478 ^R .525	.007 .008	.003 .004	^R .838 ^R .964	1.262 1.291
March	.284	.002	.123	.006	R .536	R .542	.008	.004	R .999	R 1.175
April May	.321	.001	.123	.006	R .537	R .550	.007	.004	R 1.013	R 1.336
June	.327	.003	.126	.008	.526	.534	.007	.004	.999	1.322
6-Month Total	1.697	.009	.789	.057	3.058	3.115	.043	.023	5.676	7.848
2011 6-Month Total 2010 6-Month Total	1.375 1.023	.010 .015	.791 .537	.044 .042	2.729 2.208	2.773 2.249	.044 .022	.030 .028	5.023 3.873	9.623 11.113

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1973.
Sources: • Coal: Tables 6.1 and A5. • Coal Coke: 1973-1975—U.S. Department of the Interior, 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 forward—EIA, *Quarterly Coal Report*, quarterly reports and Table A5.
• Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.3b, 10.4, and A2. • Biofuels: Tables 10.3, 10.4 and A3. • Electricity: Tables 7.1 and A6.

<sup>a Net imports equal imports minus exports.
b Crude oil and lease condensate.
c Petroleum products, unfinished oils, pentanes plus, and gasoline blending</sup>

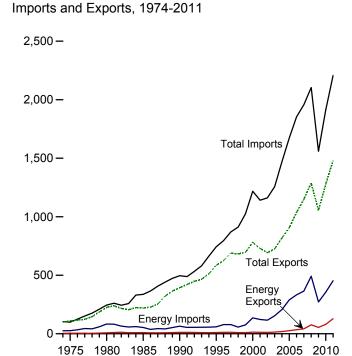
components. Does not include biofuels.

^d Through 2010, data are for biodiesel only. Beginning in 2011, data are for fuel ethanol (minus denaturant) and biodiesel.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

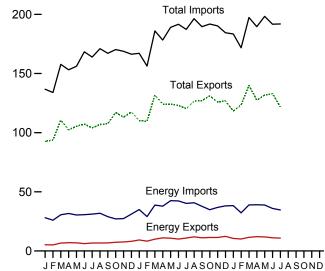
Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Figure 1.5 Merchandise Trade Value (Billion Dollars^a)



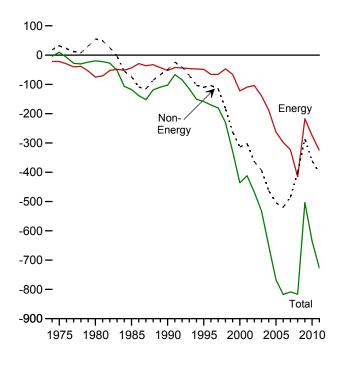
Imports and Exports, Monthly

250 **-**



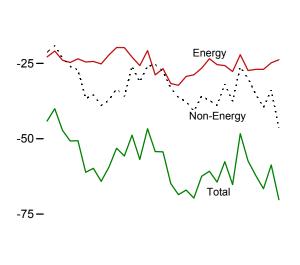
2011

Trade Balance, 1974-2011



Trade Balance, Monthly

0



^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.5.

Table 1.5 Merchandise Trade Value

(Million Dollars^a)

		Petroleumb			Energy ^c		Non- Energy	Т	otal Merchandis	e
	Exports	Imports	Balance	Exports	Imports	Balance	Balance	Exports	Imports	Balance
1974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884
1975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551
1980 Total	2.833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696
1985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
1990 Total	6,901	61,583	-54.682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496
1995 Total	6,321	54,368	-48,047	10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801
1996 Total	7,984	72,022	-64,038	12,181	78,086	-65,905	-104,309	625,075	795,289	-170,214
1997 Total	8,592	71,152	-62,560	12,682	78,277	-65,595	-114,927	689,182	869,704	-180,522
1998 Total	6,574	50,264	-43,690	10,251	57,323	-47,072	-182,686	682,138	911,896	-229,758
1999 Total	7,118	67,173	-60,055	9,880	75,803	-65,923	-262,898	695,797	1,024,618	-328,821
2000 Total	10,192	119,251	-109,059	13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104
2001 Total	8,868	102,747	-93,879	12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899
2002 Total	8,569	102,663	-94,094	11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263
2003 Total	10,209	132,433	-122,224	13,768	153,298	-139,530	-392,820	724,771	1,257,121	-532,350
2004 Total	13,130	179,266	-166,136	18,642	206,660	-188,018	-462,912	818,775	1,469,704	-650,930
2005 Total	19,155	250,068	-230,913	26,488	289,723	-263,235	-504,242	905,978	1,673,455	-767,477
2006 Total	28,171	299,714	-271,543	34,711	332,500	-297,789	-519,515	1,036,635	1,853,938	-817,304
2007 Total	33,293	327,620	-294,327	41,725	364,987	-323,262	-485,501	1,148,199	1,956,962	-808,763
2008 Total	61,695	449,847	-388,152	76,075	491,885	-415,810	-400,389	1,287,442	2,103,641	-816,199
2009 Total	44,509	251,833	-207,324	54,536	271,739	-217,203	-286,379	1,056,043	1,559,625	-503,582
2010 January	4,083	25,234	-21,151	5,236	28,075	-22,839	-21,285	92,601	136,725	-44,124
February	4,003	23,666	-19,663	5,115	26,018	-20,903	-19,141	93,854	133,898	-40,044
March	5,348	28,549	-23,201	6,667	30,613	-23,946	-23,271	110,511	157,728	-47,217
April	5,680	30,016	-24,336	6,970	31,657	-24,687	-26,034	102,443	153,163	-50,721
May	5,484	28,733	-23,249	6,887	30,369	-23,482	-27,165	105,477	156,124	-50,647
June	4.798	29.011	-24,213	6,170	30.698	-24.528	-36,592	107,202	168.321	-61,120
July	5,505	29,218	-23,713	6,760	31,113	-24,353	-35,451	104,057	163,861	-59,804
August	5,346	30,130	-24,784	6,744	31,907	-25,163	-38,957	106,846	170,966	-64,120
September	5,482	27,479	-21,997	6,802	28,992	-22,190	-37,244	107,644	167,078	-59,434
October	6,084	25,556	-19,472	7,318	27,056	-19,738	-33,397	117,104	170,239	-53,135
November	6,272	25,982	-19,710	7,610	27,363	-19,753	-35,966	113,046	168,765	-55,719
December	6,694	29,892	-23,198	8,182	31,107	-22,925	-25,888	117,480	166,293	-48,813
Total	64,778	333,465	-23,196 - 268,687	80,460	354,968	-22,923 - 274,508	-25,886 -3 60,389	1,278,263	1,913,160	-46,613 - 634,897
2011 January	7.446	33,050	-25,604	9,275	35,010	-25,735	-31,134	110,179	167,048	-56,869
2011 January	6,604		-20,947	8,291	29,062	-20,771	-25,897	109,647	156,315	-46,668
February		27,551								
March	7,841	37,096	-29,255	9,958	38,763	-28,805	-25,442	131,728	185,975	-54,247
April	9,016	36,457	-27,441	11,059	37,803	-26,744	-27,589	123,959	178,293	-54,333
May	8,767	41,002	-32,235	10,795	42,470	-31,675	-33,171	124,107	188,953	-64,846
June	8,032	40,872	-32,840	10,039	42,305	-32,266	-36,274	123,039	191,579	-68,540
July	9,069	38,622	-29,553	10,902	40,224	-29,322	-37,702	120,239	187,263	-67,024
August	9,912	39,063	-29,151	11,940	40,732	-28,792	-40,896	126,633	196,321	-69,688
September	9,202	36,467	-27,265	11,141	37,741	-26,600	-35,855	127,107	189,562	-62,455
October	9,573	33,467	-23,894	11,410	34,857	-23,447	-37,306	131,058	191,811	-60,753
November	9,533	35,665	-26,132	11,401	36,821	-25,420	-38,944	125,899	190,263	-64,364
December	10,501	36,831	-26,330	12,353	38,083	-25,730	-31,876	126,837	184,443	-57,606
Total	105,499	436,145	-330,646	128,564	453,872	-325,308	-402,084	1,480,432	2,207,824	-727,392
2012 January	8,730	37,044	-28,314	10,606	38,290	-27,684	-37,519	118,209	183,411	-65,203
February	8,605	31,171	-22,566	10,124	32,250	-22,126	-26,181	123,428	171,735	-48,307
March	9,709	37,933	-28,224	11,552	38,937	-27,385	-29,974	139,965	197,324	-57,359
April	10,152	38,129	-27,977	12,057	39,043	-26,986	-35,179	127,411	189,577	-62,165
May	10,056	37,835	-27,779	11,858	38,829	-26,971	-39,590	131,735	198,296	-66,561
June	9,228	35,043	-25,815	11,100	35,910	-24,810	R -33,876	R 133,018	R 191,704	R -58,686
July	9,154	33,604	-24,450	10,887	34,683	-23,796	-46,418	121,676	191,890	-70,214
7-Month Total	65,634	250,759	-185,125	78,184	257,942	-179,758	-248,737	895,441	1,323,937	-428,495
2011 7-Month Total	56,775	254,650	-197.875	70,319	265,637	-195.318	-217,209	842.898	1,255,425	-412.527
2010 7-Month Total	34,901	194,427	-159,526	43,805	208,543	-164,738	-188,939	716,144	1,069,820	-353,676

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b Crude oil, petroleum preparations, liquefied propane and butane, and other

components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 States, the District of Columbia,

Puerto Rico, and the Virgin Islands.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1974.

Sources: See end of section.

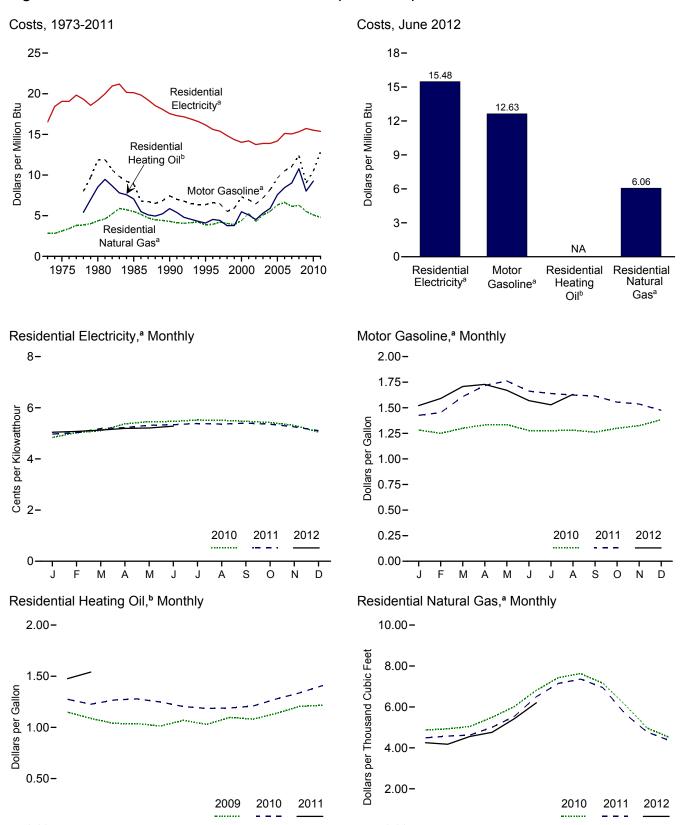
mineral fuels.

C Petroleum, coal, natural gas, and electricity.

R=Revised.

Notes: • Monthly data are not adjusted for seasonal variations. • See Note, "Merchandise Trade Value," at end of section. • Totals may not equal sum of

Figure 1.6 Cost of Fuels to End Users in Real (1982-1984) Dollars



^a Includes taxes. Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.
^b Excludes taxes. Source: Table 1.6.

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Note: See "Real Dollars" in Glossary.

Table 1.6 Cost of Fuels to End Users in Real (1982-1984) Dollars

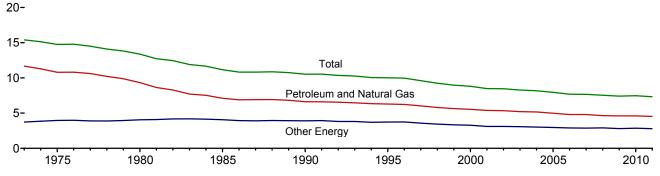
	Consumer Price Index, All Urban Consumers ^a	Motor G	Basoline ^b		dential ng Oil ^c		lential al Gas ^b	Resid Electr	
	Index 1982-1984=100	Dollars per Gallon	Dollars per Million Btu	Dollars per Gallon	Dollars per Million Btu	Dollars per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars per Million Btu
1973 Average	44.4	NA	NA	NA	NA	2.91	2.85	5.6	16.50
1975 Average	53.8	NA	NA	NA	NA	3.18	3.12	6.5	19.07
1980 Average	82.4	1.482	11.85	1.182	8.52	4.47	4.36	6.6	19.21
1985 Average	107.6	1.112	8.89	0.979	7.06	5.69	5.52	6.87	20.13
1990 Average	130.7	0.931	7.44	0.813	5.86	4.44	4.31	5.99	17.56
1995 Average	152.4	0.791	6.37	0.569	4.10	3.98	3.87	5.51	16.15
1996 Average	156.9	0.821	6.61	0.630	4.54	4.04	3.94	5.33	15.62
1997 Average	160.5	0.804	6.48	0.613	4.42	4.32	4.21	5.25	15.39
1998 Average	163.0	0.684	5.51	0.523	3.77	4.18	4.05	5.07	14.85
1999 Average	166.6	0.733	5.91	0.526	3.79	4.02	3.91	4.90	14.36
2000 Average	172.2	0.908	7.32	0.761	5.49	4.51	4.39	4.79	14.02
2001 Average	177.1	0.864	6.97	0.706	5.09	5.44	5.28	4.84	14.20
2002 Average	179.9	0.801	6.46	0.628	4.52	4.39	4.28	4.69	13.75
2003 Average	184.0	0.890	7.18	0.736	5.31	5.23	5.09	4.74	13.89
2004 Average	188.9	1.018	8.20	0.819	5.91	5.69	5.55	4.74	13.89
2005 Average	195.3	1.197	9.64	1.051	7.58	6.50	6.33	4.84	14.18
2006 Average	201.6	1.307	10.52	1.173	8.46	6.81	6.63	5.16	15.12
2007 Average	207.342	1.374	11.06	1.250	9.01	6.31	6.14	5.14	15.05
2008 Average	215.303	1.541	12.40	1.495	10.78	6.45	6.28	5.23	15.33
2009 Average	214.537	1.119	9.01	1.112	8.02	5.66	5.52	5.37	15.72
2010 January	216.687	1.282	10.32	1.275	9.19	4.87	4.76	4.84	14.19
February	216.741	1.250	10.06	1.226	8.84	4.93	4.82	5.02	14.73
March	217.631	1.300	10.46	1.267	9.13	5.05	4.93	5.10	14.96
April	218.009	1.333	10.73	1.278	9.22	5.49	5.37	5.37	15.74
May	218.178	1.336	10.75	1.248	9.00	6.01	5.88	5.46	16.00
June	217.965	1.277	10.28	1.203	8.68	6.82	6.66	5.46	16.01
July	218.011	1.277	10.27	1.185	8.55	7.44	7.27	5.52	16.19
August	218.312	1.280	10.31	1.190	8.58	7.63	7.46	5.51	16.15
September	218.439	1.261	10.15	1.209	8.72	7.16	7.00	5.47	16.03
October	218.711	1.300	10.46	1.278	9.21	6.11	5.98	5.42	15.89
November	218.803	1.325	10.66	1.337	9.64	4.97	4.86	5.31	15.56
December	219.179	1.383	11.13	1.409	10.16	4.51	4.41	5.05	14.79
Average	218.056	1.301	10.47	1.283	9.25	5.22	5.11	5.29	15.51
2011 January	220.223	1.425	11.47	1.476	10.64	R 4.49	R 4.39	4.97	14.57
February	221.309	1.453	11.69	1.540	11.11	R 4.58	R 4.47	5.02	14.73
March	223.467	1.608	12.95	NA	NA	R 4.62	R 4.52	5.19	15.20
April	224.906	1.718	13.83	NA	NA	^R 5.01	R 4.89	5.22	15.31
May	225.964	1.762	14.18	NA	NA	^R 5.53	^R 5.41	5.32	15.58
June	225.722	1.663	13.38	NA	NA	^R 6.50	^R 6.35	5.34	15.65
July	225.922	1.639	13.19	NA	NA	^R 7.15	^R 6.99	5.38	15.77
August	226.545	1.624	13.07	NA	NA	^R 7.36	^R 7.19	5.36	15.72
September	226.889	1.615	13.00	NA	NA	^R 6.95	^R 6.79	5.40	15.82
October	226.421	1.555	12.52	NA	NA	^R 5.67	^R 5.54	5.36	15.70
November	226.230	1.536	12.36	NA	NA	R 4.77	R 4.66	5.25	15.39
December	225.672	1.475	11.87	NA	NA	R 4.36	R 4.26	5.10	14.96
Average	224.939	1.590	12.80	NA	NA	R 4.90	R 4.79	5.25	15.37
2012 January	226.665	1.521	12.24	NA	NA	R 4.25	R 4.16	5.04	14.78
February	227.663	1.591	12.81	NA	NA	R 4.18	R 4.08	5.07	14.87
March	229.392	1.708	13.75	NA	NA	R 4.56	R 4.45	5.13	15.03
April	230.085	1.728	13.91	NA	NA	R 4.76	R 4.65	5.19	15.22
May	229.815	1.670	13.45	NA	NA	R 5.42	R 5.30	5.21	15.27
June	229.478	1.570	12.63	NA	NA	R 6.20	R 6.06	R 5.28	R 15.48
July	229.104	1.529	12.30	NA	NA	NA	NA	NA	NA
August	230.379	1.632	13.13	NA	NA	NA	NA	NA	NA

a Data are U.S. city averages for all items, and are not seasonally adjusted. b Includes taxes.

b Includes taxes.
c Excludes taxes.
R=Revised. NA=Not available.
Notes: • See "Real Dollars" in Glossary. • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • Annual averages may not equal average of months 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/#summary for all available data beginning in 1973.
Sources: • Fuel Prices: Tables 9.4 (All Types), 9.8c, 9.9, and 9.11, adjusted by the CPI. • Consumer Price Index, All Urban Consumers: U.S. Department of Labor, Bureau of Labor Statistics, series ID CUUR0000SA0.
• Conversion Factors: Tables A1, A3, A4, and A6.

Figure 1.7 Primary Energy Consumption per Real Dollar of Gross Domestic Product, 1973-2011 (Thousand Btu per Chained (2005) Dollar)



Note: See "Real Dollars" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.

Table 1.7 Primary Energy Consumption per Real Dollar of Gross Domestic Product

	Ene	rgy Consumption		Gross	Energy Consum	ption per Real Do	llar of GDF		
	Petroleum and Natural Gas	Other Energy ^a	Total	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total		
		Quadrillion Btu		Billion Chained (2005) Dollars	Thousand Btu per Chained (2005) Dollar				
72 Vaar	57.350	40 224	75 604	4.042.0	44.67	2.72	45.44		
973 Year		18.334	75.684	4,912.8	11.67	3.73	15.41		
974 Year	55.186	18.776	73.962	4,885.7	11.30	3.84	15.14		
75 Year	52.680	19.284	71.965	4,875.4	10.81	3.96	14.76		
76 Year	55.523	20.452	75.975	5,136.9	10.81	3.98	14.79		
977 Year	57.054	20.907	77.961	5,373.1	10.62	3.89	14.51		
78 Year	57.963	21.987	79.950	5,672.8	10.22	3.88	14.09		
79 Year	57.788	23.070	80.859	5,850.1	9.88	3.94	13.82		
980 Year	54.440	23.627	78.067	5,834.0	9.33	4.05	13.38		
981 Year	51.680	24.426	76.106	5,982.1	8.64	4.08	12.72		
982 Year	48.588	24.511	73.099	5,865.9	8.28	4.18	12.46		
983 Year	47.273	25.698	72.971	6.130.9	7.71	4.19	11.90		
984 Year	49.447	27.185	76.632	6.571.5	7.52	4.14	11.66		
985 Year	48.628	27.764	76.392	6.843.4	7.11	4.06	11.16		
	48.790	27.857	76.647	7.080.5	6.89	3.93	10.83		
86 Year									
987 Year	50.504	28.551	79.054	7,307.0	6.91	3.91	10.82		
88 Year	52.671	30.038	82.709	7,607.4	6.92	3.95	10.87		
89 Year	53.811	30.975	84.786	7,879.2	6.83	3.93	10.76		
990 Year	53.155	31.330	84.485	8,027.1	6.62	3.90	10.52		
91 Year	52.879	31.559	84.438	8,008.3	6.60	3.94	10.54		
92 Year	54.239	31.544	85.783	8,280.0	6.55	3.81	10.36		
993 Year	54.973	32.450	87.424	8,516.2	6.46	3.81	10.27		
994 Year	56.289	32.803	89.091	8.863.1	6.35	3.70	10.05		
95 Year	57.110	33.920	91.029	9,086.0	6.29	3.73	10.02		
96 Year	58.760	35.262	94.022	9.425.8	6.23	3.74	9.97		
997 Year	59.382	35.221	94.602	9.845.9	6.03	3.58	9.61		
998 Year	59.646	35.372	95.018	10,274.7	5.81	3.44	9.25		
999 Year	60.747	35.905	96.652	10,770.7	5.64	3.33	8.97		
799 Teal									
000 Year	62.086	36.729	98.814	11,216.4	5.54	3.27	8.81		
001 Year	60.958	35.210	96.168	11,337.5	5.38	3.11	8.48		
002 Year	61.734	35.911	97.645	11,543.1	5.35	3.11	8.46		
003 Year	61.642	36.336	97.978	11,836.4	5.21	3.07	8.28		
004 Year	63.215	36.947	100.162	12,246.9	5.16	3.02	8.18		
05 Year	62.953	37.328	100.282	12,623.0	4.99	2.96	7.94		
06 Year	62.194	37.435	99.629	12,958.5	4.80	2.89	7.69		
007 Year	63.437	37.859	101.296	13,206.4	4.80	2.87	7.67		
008 Year	61.123	38.152	99.275	13,161.9	4.64	2.90	7.54		
009 Year	58.819	35.740	94.559	12,757.9	4.61	2.80	7.41		
010 Year	60.266	37.401	97.667	13,063.0	4.61	2.86	7.48		
011 Year	R 60.247	37.099	R 97.346	13,299.1	R 4.53	2.79	R 7.32		

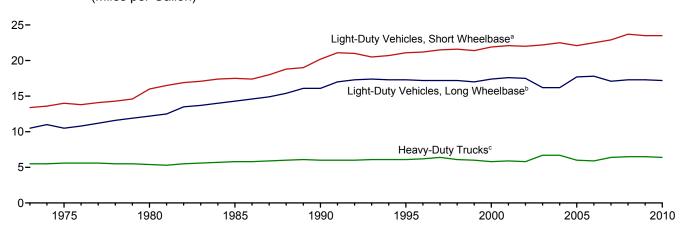
^a Coal, coal coke net imports, nuclear electric power, renewable energy, and electricity net imports.

R=Revised.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.
Sources: • Energy Consumption: Table 1.3. • Gross Domestic
Product: U.S. Department of Commerce, Bureau of Economic Analysis, National Income and Product Accounts (August 29, 2012), Table 1.1.6.

Notes: • See "Primary Energy Consumption" and "Real Dollars" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of

Figure 1.8 Motor Vehicle Fuel Economy, 1973-2010 (Miles per Gallon)



^a Through 2006, data are for passenger cars (and, through 1989, for motorcycles). Beginning in 2007, data are for passenger cars, light trucks, vans, and sport utility vehicles with a wheelbase equal to or less than 121 inches.

pickup trucks, and sport utility vehicles with a wheelbase larger than 121

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.8.

Table 1.8 Motor Vehicle Mileage, Fuel Consumption, and Fuel Economy

		ght-Duty Vehicleshort Wheelbase			ght-Duty Vehicle Long Wheelbase		Н	eavy-Duty Truck	(S ^C	А	II Motor Vehicle	s d
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Economy (miles per gallon)									
1973	9,884	737	13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9
1974	9,221	677	13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0
1975	9.309	665	14.0	9.829	934	10.5	15,167	2.722	5.6	9.627	790	12.2
1976	9,418	681	13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1
1977	9,517	676	14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3
1978	9,500	665	14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4
1979	9,062	620	14.6	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6
1982	9,050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9,644	686	14.1
1983	9,118	534	17.1	10,497	767	13.7	21,083	3,769	5.6	9,760	686	14.2
1984	9,248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1986	9,464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1
1988	9,972	531	18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6
1989	10,157	533	19.0	11,676	724	16.1	22,926	3,776	6.1	10,932	688	15.9
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4
1991	10,571	501	21.1	12,245	721	17.0	24,229	4,047	6.0	11,294	669	16.9
1992	10,857	517	21.0	12,381	717	17.3	25,373	4,210	6.0	11,558	683	16.9
1993	10,804	527	20.5	12,430	714	17.4	26,262	4,309	6.1	11,595	693	16.7
1994	10,992	531	20.7	12,156	701	17.3	25,838	4,202	6.1	11,683	698	16.7
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8
1996	11,330	534	21.2	11,811	685	17.2	26,092	4,221	6.2	11,813	700	16.9
1997	11,581	539	21.5	12,115	703	17.2	27,032	4,218	6.4	12,107	711	17.0
1998	11,754	544 553	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721 732	16.9
1999	11,848	553 547	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206		16.7
2000 2001	11,976 11.831	547 534	21.9 22.1	11,672 11,204	669 636	17.4 17.6	25,617 26,602	4,391 4,477	5.8 5.9	12,164 11,887	720 695	16.9 17.1
2001	12,202	555	22.1	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9
2002	12,202	556	22.2	11,364	697	16.2	28,093	4,042 4,215	6.7	12,171	718	17.0
2003	12,460	553	22.5	11,287	690	16.2	27,023	4.057	6.7	12,200	714	17.1
2004	12,510	567	22.1	10,920	617	17.7	26,235	4,385	6.0	12,200	706	17.1
2006	12,485	554	22.5	10,920	612	17.8	25,231	4.304	5.9	12,002	698	17.2
2007	a10.710	a468	a22.9	b14,970	b877	b17.1	°28,290	°4,398	R 6.4	R 11,915	693	17.2
2008	R 10,290	R 435	R 23.7	R 15.256	R 880	R 17.3	R 28,573	R 4,387	R 6.5	R 11,631	667	17.4
2009	10.391	442	23.5	15,252	882	17.3	26,274	4.037	6.5	11,631	661	17.6
2010₽	10,649	453	23.5	15,463	898	17.2	26,609	4,174	6.4	11,853	678	17.5
	,			,			_0,000	.,	•••	.,,,,,		

^a Through 2006, data are for passenger cars (and, through 1989, for motorcycles). Beginning in 2007, data are for passenger cars, light trucks, vans, and sport utility vehicles with a wheelbase equal to or less than 121 inches.
^b Through 2006, data are for vans, pickup trucks, sport utility vehicles, and a small number of trucks with 2 axles and 4 tires, such as step vans. Beginning in

^b Through 2006, data are for vans, pickup trucks, sport utility vehicles, and a small number of trucks with 2 axles and 4 tires, such as step vans. Beginning in 2007, data are for large passenger cars, vans,

Through 2006, data are for single-unit trucks with 2 axles and 6 or more tires, and combination trucks. Beginning in 2007, data are for single-unit trucks with 2 axles and 6 or more tires or a gross vehicle weight rating exceeding 10,000 pounds, and combination trucks.

^{2007,} data are for large passenger cars, vans, pickup trucks, and sport utility vehicles with a wheelbase larger than 121 inches.

^c Through 2006, data are for single-unit trucks with 2 axles and 6 or more tires, and combination trucks. Beginning in 2007, data are for single-unit trucks with 2 axles and 6 or more tires or a gross vehicle weight rating exceeding 10,000 pounds, and combination trucks.

^d Includes buses and motorcycles, which are not shown separately. R=Revised. P=Preliminary.

Note: Geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.
Sources: • Light-Duty Vehicles, Short Wheelbase, 1990-1994: U.S.
Department of Transportation, Bureau of Transportation Statistics 1998, Table 4-13. • All Other Data: • 1973-1994—Federal Highway Administration (FHWA), Highway Statistics Summary to 1995, Table VM-201A. • 1995 forward—FHWA, Highway Statistics, annual reports, Table VM-1.

Table 1.9 Heating Degree-Days by Census Division

			August					Cumulative through Au		
				Percent	Change				Percent	Change
Census Divisions	Normala	2011	2012	Normal to 2012	2011 to 2012	Normal ^a	2011	2012	Normal to 2012	2011 to 2012
New England Connecticut, Maine, Massachusetts, New Hampshire,	00	40				0.7	47			
Rhode Island, Vermont	26	12	8	NM	NM	37	17	14	NM	NM
Middle Atlantic New Jersey, New York, Pennsylvania	16	7	4	NM	NM	22	7	5	NM	NM
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	26	16	25	NM	NM	35	18	25	NM	NM
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	29	9	24	NM	NM	44	12	25	NM	NM
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	1	0	0	NM	NM	1	0	0	NM	NM
East South Central	'			INIVI	INIVI		0		INIVI	INIVI
Alabama, Kentucky, Mississippi, Tennessee	1	0	1	NM	NM	1	0	1	NM	NM
West South Central Arkansas, Louisiana, Oklahoma, Texas	0	0	0	NM	NM	0	0	0	NM	NM
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	30	1	4	NM	NM	49	2	4	NM	NM
Pacific ^b California, Oregon, Washington	22	8	7	NM	NM	46	31	19	NM	NM
U.S. Average ^b	15	6	8	NM	NM	24	10	10	NM	NM

^a "Normal" is based on calculations of data from 1971 through 2000.

NM=Not meaningful (because "Normal" is less than 100 or ratio is incalculable).

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Heating degree-days are the number of degrees that the daily average temperature falls below 65° F. Cooling degree-days are the number of degrees that the daily average temperature rises above 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, a weather station recording an average daily temperature of 40° F would report 25 heating degree-days for that day (and 0 cooling degree-days). If a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree days).

Web Pages: • See http://www.eia.gov/totalenergy/data/monthly/#summary

for current data. \bullet See http://www.eia.gov/totalenergy/data/annual/#summary for historical data.

Sources: There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published here is developed by the National Weather Service Climate Prediction Center, Camp Springs, MD. The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at those weather stations is used to calculate statewide degree-day averages based on population. The State figures are then aggregated into Census Divisions and into the national average. The population weights currently used represent resident State population data estimated for the 2000 Census by the U.S. Department of Commerce, Bureau of the Census. The data provided here are available sooner than the Historical Climatology Series 5-1 (heating degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

b Excludes Alaska and Hawaii.

Table 1.10 Cooling Degree-Days by Census Division

			August			Cumulative January through August					
				Percent	Change				Percent	Change	
Census Divisions	Normala	2011	2012	Normal to 2012			2011	2012	Normal to 2012	2011 to 2012	
New England Connecticut, Maine, Massachusetts, New Hampshire,											
Rhode Island, Vermont	146	161	202	38	25	395	528	567	44	7	
Middle Atlantic New Jersey, New York, Pennsylvania	205	217	254	24	17	592	789	815	38	3	
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	197	216	200	2	-7	641	840	924	44	10	
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	255	300	259	2	-14	828	1,047	1,122	36	7	
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,	393	460	409	4	-11	1,498	1,868	1.738	16	-7	
West Virginia	393	460	409	4	-11	1,498	1,868	1,738	16	-/	
East South Central Alabama, Kentucky, Mississippi, Tennessee	376	448	374	-1	-17	1,277	1,622	1,540	21	-5	
West South Central Arkansas, Louisiana, Oklahoma, Texas	527	710	574	9	-19	1,930	2,612	2,328	21	-11	
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	302	400	375	24	-6	1,017	1,116	1,241	22	11	
Pacific ^b California, Oregon, Washington	193	225	304	58	35	538	502	631	17	26	
U.S. Average ^b	290	347	330	14	- 5	987	1,235	1,226	24	-1	

^a "Normal" is based on calculations of data from 1971 through 2000.

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. Cooling degree-days are the number of degrees that the daily average temperature rises above 65° F. Heating degree-days are the number of degrees that the daily average temperature falls below 65° F. The daily average temperature is the mean of the maximum and minimum temperatures in a 24-hour period. For example, if a weather station recorded an average daily temperature of 78° F, cooling degree-days for that station would be 13 (and 0 heating degree-days). A weather station recording an average daily temperature of 40° F would report 25 heating degree-days for that day (and 0 cooling degree-days).

days).

Web Pages: • See http://www.eia.gov/totalenergy/data/monthly/#summary for current data. • See http://www.eia.gov/totalenergy/data/annual/#summary

for historical data.

Sources: There are several degree-day databases maintained by the National Oceanic and Atmospheric Administration. The information published here is developed by the National Weather Service Climate Prediction Center, Camp Springs, MD. The data are available weekly with monthly summaries and are based on mean daily temperatures recorded at about 200 major weather stations around the country. The temperature information recorded at those weather stations is used to calculate statewide degree-day averages based on population. The State figures are then aggregated into Census Divisions and into the national average. The population weights currently used represent resident State population data estimated for the 2000 Census by the U.S. Department of Commerce, Bureau of the Census. The data provided here are available sooner than the Historical Climatology Series 5-2 (cooling degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

b Excludes Alaska and Hawaii.

Energy Overview

Note. Merchandise Trade Value. Imports data presented are based on the customs values. Those values do not include insurance and freight and are consequently lower than the cost, insurance, and freight (CIF) values, which are also reported by the Bureau of the Census. All exports data, and imports data prior to 1981, are on a free alongside ship (f.a.s.) basis.

"Balance" is exports minus imports; a positive balance indicates a surplus trade value and a negative balance indicates a deficit trade value. "Energy" includes mineral fuels, lubricants, and related material. "Non-Energy Balance" and "Total Merchandise" include foreign exports (i.e., re-exports) and nonmonetary gold and U.S. Department of Defense Grant-Aid shipments. The "Non-Energy Balance" is calculated by subtracting the "Energy" from the "Total Merchandise Balance."

"Imports" consist of government and nongovernment shipments of merchandise into the 50 States, the District of Columbia, Puerto Rico, the U.S. Virgin Islands, and the U.S. Foreign Trade Zones. They reflect the total arrival from foreign countries of merchandise that immediately entered consumption channels, warehouses, the Foreign Trade Zones, or the Strategic Petroleum Reserve. They exclude shipments between the United States, Puerto Rico, and U.S. possessions, shipments to U.S. Armed Forces and diplomatic missions abroad for their own use, U.S. goods returned to the United States by its Armed Forces, and in-transit shipments.

Table 1.5 Sources

U.S. Department of Commerce, Bureau of the Census, Foreign Trade Division:

Petroleum Exports

1974–1987: "U.S. Exports," FT-410, December issues. 1988 and 1989: "Report on U.S. Merchandise Trade," Final Revisions.

1990–1992: "U.S. Merchandise Trade," Final Report. 1993–2007: "U.S. International Trade in Goods and Services," Annual Revision.

2008 forward: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum Imports

1974–1987: "U.S. Merchandise Trade," FT-900, December issues, 1975-1988.

1988 and 1989: "Report on U.S. Merchandise Trade," Final Revisions.

1990–1993: "U.S. Merchandise Trade," Final Report.

1994–2007: "U.S. International Trade in Goods and Services," Annual Revision.

2008 forward: "U.S. International Trade in Goods and Services," FT-900, monthly.

Energy Exports and Imports

1974–1987: U.S. merchandise trade press releases and database printouts for adjustments.

1988: January–July, monthly FT-900 supplement, 1989 issues. August–December, monthly FT-900, 1989 issues.

1989: Monthly FT-900, 1990 issues.

1990-1992: "U.S. Merchandise Trade," Final Report.

1993–2007: "U.S. International Trade in Goods and Services," Annual Revision.

2008 forward: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum, Energy, and Non-Energy Balances

Calculated by the U.S. Energy Information Administration.

Total Merchandise

1974–1987: U.S. merchandise trade press releases and database printouts for adjustments.

1988: "Report on U.S. Merchandise Trade, 1988 Final Revisions," August 18, 1989.

1989: "Report on U.S. Merchandise Trade, 1989 Revisions," July 10, 1990.

1990: "U.S. Merchandise Trade, 1990 Final Report," May 10, 1991, and "U.S. Merchandise Trade, December 1992," February 18, 1993, page 3.

1991: "U.S. Merchandise Trade, 1992 Final Report," May 12, 1993.

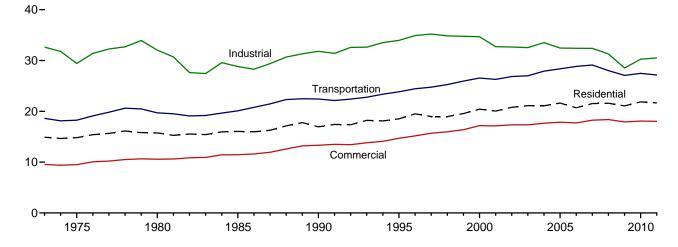
1992–2007: "U.S. International Trade in Goods and Services," Annual Revision.

2008 forward: "U.S. International Trade in Goods and Services," FT-900, monthly.

2. Energy Consumption by Sector

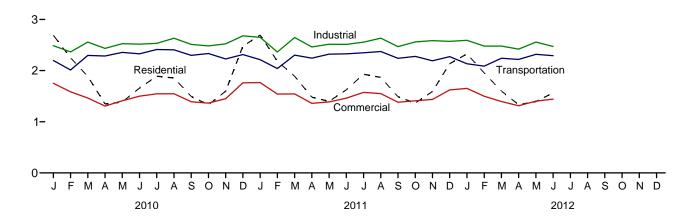
Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1973-2011

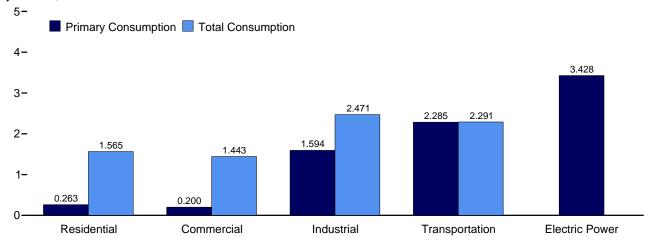


Total Consumption by End-Use Sector, Monthly

4-







Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption.

Source: Table 2.1.

Table 2.1 Energy Consumption by Sector

(Trillion Btu)

				End-Use	Sectors				Electric		
	Reside	ential	Comm	ercial ^a	Indus	strial ^b	Transpo	ortation	Power Sector ^{c,d}	Dalamain n	Deimon
	Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye	Balancing Item ^g	Primary Total ^h
1973 Total	8,225	14,897	4,423	9,543	24,720	32,623	18,577	18,613	19,731	7	75,684
1975 Total	7,990	14,813	4,059	9,492	21,434	29,413	18,210	18,245	20,270	1	71,965
1980 Total	7,439	15,753	4,105	10,578	22,595	32,039	19,659	19,697	24,269	-1	78,067
1985 Total	7,148	16,041	3,732	11,451	19,443	28,816	20,041	20,088	26,032	-4 -9	76,392
1990 Total	6,557 6,936	16,945 18,519	3,896 4,101	13,320 14,690	21,180 22,719	31,810 33,971	22,366 23,791	22,420 23,846	30,495 33,479	-9 3	84,485 91,029
1996 Total	7,467	19,504	4,273	15,172	23,410	34,904	24,383	24,437	34,485	4	94,023
1997 Total	7,033	18,965	4,295	15,681	23,686	35,200	24,695	24,750	34,886	6	94,602
1998 Total	6,413	18,955	4,005	15,968	23,177	34,843	25,201	25,256	36,225	-3	95,018
1999 Total	6,775	19,557	4,053	16,376	22,950	34,764	25,891	25,949	36,976	6	96,652
2000 Total	7,159	20,425	4,278	17,175	22,824	34,664	26,489	26,548	38,062	2	98,814
2001 Total	6,868	20,042	4,084	17,137	21,794	32,720	26,213	26,275	37,215	-6	96,168
2002 Total	6,912	20,791	4,132	17,345	21,799	32,662	26,781	26,842	38,016	5	97,645
2003 Total	7,211	21,110	4,283	17,343	21,503	32,532	26,920	26,994	38,062	-1	97,978
2004 Total	6,993 6,909	21,093 21,626	4,232 4,051	17,659 17,857	22,412 21,411	33,520 32,446	27,817 28,272	27,895 28,353	38,713	-6 (a)	100,162 100,282
2005 Total 2006 Total	6,909 6.168	20,688	3,747	17,711	21,411	32,446	28,272 28,751	28,830	39,638 39,428	(s) (s)	99,629
2007 Total	6,598	21,531	3,922	18,255	21,370	32,394	29,029	29,117	40,377	(s) -1	101,296
2008 Total	6,817	21,596	4,073	18,381	20,480	31,290	27,925	28,008	39,978	(s)	99,275
2009 Total	6,619	21,064	4,061	17,899	18,813	28,525	26,989	27,071	38,077	(s)	94,559
2010 January	1,142	2,691	617	1,752	1,695	2,487	2,190	2,198	3,484	4	9,132
February	985	2,250	548	1,585	1,601	2,365	2,004	2,012	3,073	1	8,213
March	737	1,887	419	1,465	1,752	2,557	2,290	2,297	3,008	-1	8,205
April	439	1,347	277	1,307	1,624	2,435	2,280	2,286	2,755	-2	7,372
May	328 268	1,386	226 198	1,410	1,612	2,527	2,349	2,356	3,163	(s) 2	7,678
June	240	1,659 1,889	182	1,501 1,546	1,608 1,618	2,517 2,532	2,320 2,404	2,328 2,411	3,611 3,934	4	8,008 8,383
July August	232	1,855	186	1,546	1,707	2,633	2,404	2,411	3,934	4	8,445
September	237	1,494	189	1,390	1,671	2,512	2,291	2,298	3,306	(s)	7,694
October	343	1,331	256	1,364	1,644	2,482	2,327	2,333	2,942	-1	7,509
November	599	1,597	364	1,451	1,671	2,523	2,221	2,228	2,944	-1	7,797
December	1,054	2,476	579	1,761	1,802	2,679	2,307	2,314	3,488	1	9,231
Total	6,603	21,862	4,039	18,078	20,003	30,250	27,384	27,466	39,626	11	97,667
2011 January	^R 1,177 ^R 956	R 2,694	^R 637 ^R 532	R 1,767	R 1,821 R 1,599	R 2,649	R 2,206	R 2,213 R 2,039	3,483	1	R 9,325
February	R 777	R 2,182 R 1.889	^N 532 R 449	^R 1,541 ^R 1,545	R 1,791	R 2,363 R 2,646	R 2,033 R 2,296	R 2,303	3,006	-1	^R 8,125 ^R 8,380
March April	R 482	R 1,480	298	1,359	R 1,623	2,462	R 2,236	R 2,243	3,070 2,905	-3 -2	R 7,543
May	R 331	R 1.398	221	1,387	R 1.634	2,515	R 2,314	R 2,321	3,121	-1	R 7.621
June	R 263	R 1,624	193	R 1,461	R 1.618	R 2,512	R 2.320	R 2.327	3.530	1	R 7,925
July	R 242	R 1,928	R 189	R 1,573	R 1,621	R 2,556	R 2,341	R 2,348	4,012	5	R 8,411
August	R 253	R 1,866	R 205	R 1,550	R 1,715	R 2,634	R 2,366	R 2,373	3,885	3	R 8,427
September	^R 264	R 1,489	ຼ 211	1.382	R 1,638	R 2,468	R 2,234	R 2,240	3,232	-1	^R 7,579
October	382	R 1,365	R 292	R 1,410	R 1,700	R 2,560	R 2,271	R 2,277	2,967	-2	R 7,610
November	R 597	R 1,592	R 369	R 1,436	R 1,735	R 2,585	R 2,186	R 2,192	2,919	-3	R 7,803
December Total	^R 888 ^R 6,613	R 2,135 R 21,646	^R 505 ^R 4,101	R 1,622 R 18,032	R 1,726 R 20,221	R 2,571 R 30,522	R 2,267 R 27,070	^R 2,274 ^R 27,151	3,215 R 39,345	-3 -5	^R 8,599 ^R 97,346
2012 January	R 1.010	R 2,325	R 560	R 1,653	R 1.774	R 2,591	R 2,127	R 2,134	3,232	-2	R 8,701
February	^R 849	R 1,955	484	1,499	R 1,683	R 2,479	R 2,080	R 2,087	2,924	-3	R 8,016
March	R 575	1,598	347	1,396	R 1,648	R 2,479	R 2,235	R 2,241	2,911	-5	7,710
April	424	1,332	R 278	R 1,312	R 1,594	R 2,420	R 2,213	^R 2,219	2,775	R -5	R 7,279
May	309	1,394	^R 217	1,403	R 1,647	^R 2,558	^R 2,312	^R 2,319	3,188	R-3	^R 7,671
June	263	1,565	200	1,443	1,594	2,471	2,285	2,291	3,428	(s)	7,771
6-Month Total	3,430	10,170	2,087	8,706	9,940	14,999	13,252	13,291	18,457	-18	47,148
2011 6-Month Total 2010 6-Month Total	3,987 3.899	11,268 11,220	2,330 2,284	9,061 9,019	10,085 9,891	15,147 14,889	13,406 13,434	13,447 13,475	19,115 19,095	-5 5	48,918 48,608

a Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
b Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
c 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 Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
e See "Primary Energy Consumption" in Glossary.
f Total energy consumption in the end-use sectors consists of primary energy consumption, electricity retail sales, and electrical system energy losses. See Note 2, "Electrical System Energy Losses," at end of section.

 $^{^{\}rm g}$ A balancing item. The sum of primary consumption in the five energy-use sectors equals the sum of total consumption in the four end-use sectors. However,

sectors equals the sum of total consumption in the four end-use sectors. However, total energy consumption does not equal the sum of the sectoral components due to the use of sector-specific conversion factors for coal and natural gas.

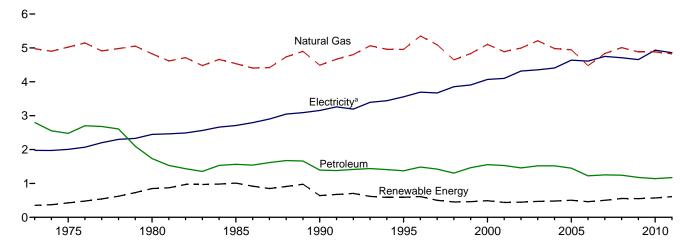
h Primary energy consumption total. See Table 1.3.

R=Revised. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu. Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," 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/#consumption for all available data beginning in 1973.

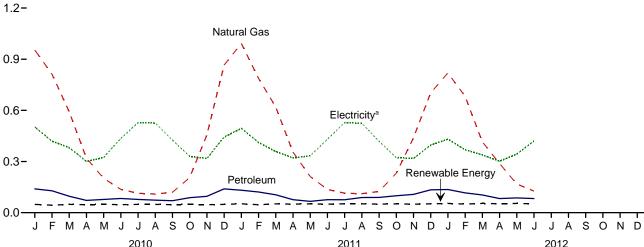
Sources: Tables 1.3 and 2.2–2.6.

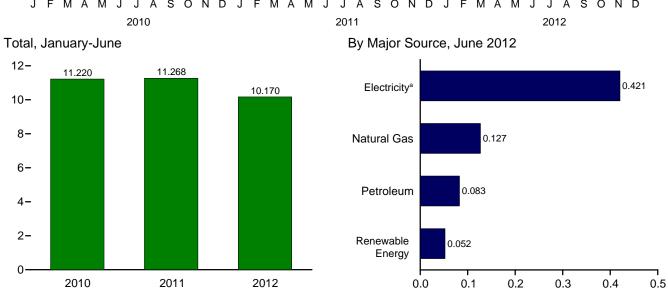
Figure 2.2 Residential Sector Energy Consumption (Quadrillion Btu)





By Major Source, Monthly





^a Electricity retail sales. Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.2.

Table 2.2 Residential Sector Energy Consumption

(Trillion Btu)

				Prima	ry Consump	otiona						
		Fossil	Fuels			Renewal	ole Energy ^b			1	Electrical	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Electricity Retail Sales ^d	System Energy Losses ^e	Total
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total	94 63 31 39 31 17 17 16 12 14 11	4,977 5,023 4,825 4,534 4,491 4,954 5,354 5,093 4,646 4,835 5,105 4,889 4,995	2,800 2,479 1,734 1,565 1,394 1,374 1,484 1,422 1,304 1,465 1,554 1,559 1,457	7,871 7,564 6,589 6,138 5,916 6,345 6,854 6,531 5,962 6,314 6,670 6,430 6,464	NA NA NA NA 6 7 7 8 8 9 9	NA NA NA 56 64 65 64 63 61 59	354 425 850 1,010 580 520 540 430 380 390 420 370 380	354 425 850 1,010 641 591 612 502 452 461 489 438 448	8,225 7,990 7,439 7,148 6,557 6,936 7,467 7,033 6,413 6,775 7,159 6,868 6,912	1,976 2,007 2,448 2,709 3,153 3,557 3,694 3,671 3,856 4,069 4,100 4,317	4,696 4,817 5,866 6,184 7,235 8,026 8,344 8,261 8,686 8,875 9,197 9,074 9,562	14,897 14,813 15,753 16,041 16,945 18,519 19,504 18,965 18,955 19,557 20,425 20,042 20,791
2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	12 11 8 6 8 8	5,209 4,981 4,946 4,476 4,835 5,010 4,883	1,519 1,520 1,451 1,224 1,254 1,243 1,176	6,741 6,513 6,406 5,706 6,097 6,261 6,067	13 14 16 18 22 26 33	57 57 58 63 70 80 89	400 410 430 380 410 450 430	470 481 504 462 502 557 552	7,211 6,993 6,909 6,168 6,598 6,817 6,619	4,353 4,408 4,638 4,611 4,750 4,708 4,656	9,546 9,691 10,079 9,909 10,182 10,071 9,789	21,110 21,093 21,626 20,688 21,531 21,596 21,064
Page 2010 January	1 1 (s) (s) 1 1 (s) 1 7	953 812 592 320 201 137 114 109 120 206 456 865 4,883	140 128 96 72 78 83 78 74 70 88 96 140	1,094 941 689 392 280 221 192 183 190 294 552 1,006 6,032	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10 9 10 9 10 10 10 10 9 10 10 114	36 32 36 35 36 35 36 36 35 36 35 36 420	48 44 48 47 48 47 48 48 47 48 47 48 571	1,142 985 737 439 328 268 240 232 237 343 599 1,054 6,603	503 419 381 300 324 435 528 526 425 330 318 444 4,933	1,045 846 768 608 734 956 1,121 1,098 832 658 680 978 10,326	2,691 2,250 1,887 1,347 1,386 1,659 1,889 1,855 1,494 1,331 1,597 2,476 21,862
Page 2011 January	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	993 787 R 620 R 355 212 136 114 112 124 R 231 439 702	R 132 R 121 R 105 R 76 R 76 R 76 R 76 R 89 R 99 R 107 R 134 R 1,171	R 1,125 R 909 R 725 R 432 R 279 R 213 R 190 R 201 R 201 R 331 R 547 R 837	3 3 3 3 3 3 3 3 3 3 3 3 40	12 11 12 12 12 12 12 12 12 12 12 12 12 1	37 33 37 35 37 35 37 35 37 35 37 35 37	52 47 52 50 52 50 52 52 50 52 50 52 50 52	R 1,177 R 956 R 777 R 482 R 331 R 263 R 242 R 253 R 264 382 R 597 R 888 R 6,613	494 412 358 321 334 430 528 524 419 323 318 396 4,858	1,023 814 754 677 733 931 1,158 1,089 806 659 678 851	R 2,694 R 2,182 R 1,889 R 1,480 R 1,398 R 1,624 R 1,928 R 1,866 R 1,489 R 1,365 R 1,592 R 2,135 R 21,646
2012 January	1 (s) R (s) (s) (s) (s)	R 820 682 416 289 168 127 2,501	R 136 R 116 R 104 R 83 R 87 83 609	R 956 R 798 520 372 255 210 3,112	3 3 3 3 3 20	14 13 14 14 14 14 84	36 34 36 35 36 35 214	54 51 54 52 54 52 318	R 1,010 R 849 R 575 424 309 263 3,430	432 369 339 302 343 421 2,205	884 737 685 606 741 881 4,534	R 2,325 R 1,955 1,598 1,332 1,394 1,565 10,170
2011 6-Month Total 2010 6-Month Total	4 4	3,103 3,015	577 597	3,684 3,616	20 18	70 57	213 208	303 283	3,987 3,899	2,349 2,363	4,932 4,958	11,268 11,220

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of section.

section.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes:

See Note 1, "Energy Consumption Data and Surveys," 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.

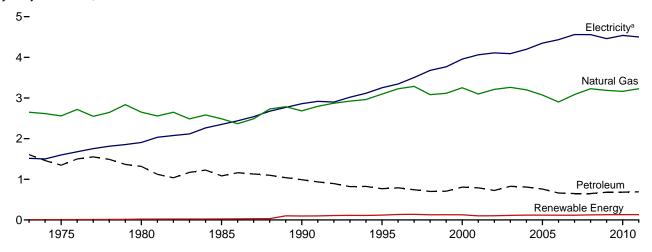
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973.

Sources: Tables 2.6, 3.8a, 4.3, 6.2, 7.6, 10.2a, A4, A5, and A6.

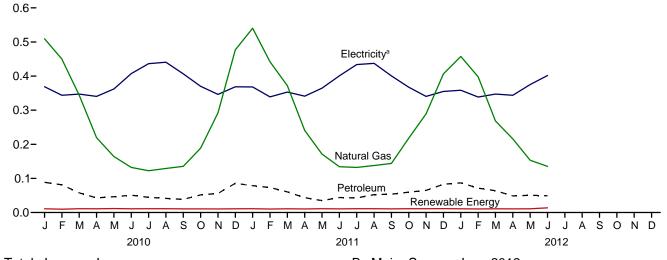
a See "Primary Energy Consumption" in Glossary.
 b Data are estimates. See Table 10.2a for notes on series components.
 c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 d Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 e Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

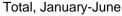
Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)

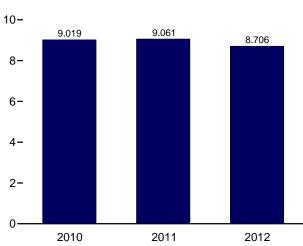




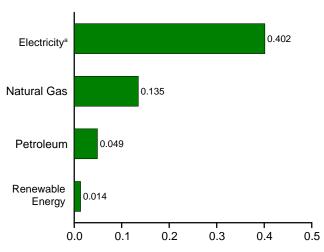
By Major Source, Monthly







By Major Source, June 2012



Web Page: http://www.eia.doe.gov/emeu/mer/consump.html.

Source: Table 2.3.

^a Electricity retail sales.

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

	111110111	/			Primary (Consump	tiona							
		Fossi	I Fuels		Filliary			e Energy	/ b					
	Coal	Natural Gas ^c	Petro- leum ^d	Total	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	Elec- tricity Retail Sales ^f	Electrical System Energy Losses ⁹	Total
1973 Total 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total	160 147 115 137 124 117 122 129 93 103 92 97 90 82	2,649 2,558 2,651 2,488 2,682 3,096 3,226 3,285 3,085 3,115 3,252 3,097 3,212 3,261	1,607 1,346 1,318 1,083 991 769 790 743 702 707 807 790 726 827	4,416 4,051 4,084 3,708 3,798 4,138 4,157 3,878 3,925 4,150 3,984 4,170	NA NA NA 1 1 1 1 1 1 (s)	NA NA NA 3 5 5 6 7 7 8 8 9 11	NA NA NA - - - - - - -	NA NA NA - - - - - -	7 8 21 24 94 113 129 131 118 121 119 92 95 101	7 8 21 24 98 118 135 138 127 129 128 101 104 113	4,423 4,059 4,105 3,732 3,896 4,101 4,273 4,295 4,005 4,053 4,278 4,084 4,132 4,283	1,517 1,598 1,906 2,351 2,860 3,252 3,344 3,503 3,678 3,766 4,062 4,110 4,090	3,604 3,835 4,567 5,368 6,564 7,338 7,555 7,883 8,285 8,557 8,942 8,990 9,104 8,969	9,543 9,492 10,578 11,451 13,320 14,690 15,172 15,681 15,968 16,376 17,175 17,137 17,345 17,343
2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	103 97 65 70 69 63	3,201 3,073 2,902 3,085 3,228 3,187	809 761 663 649 651 682	4,113 3,932 3,629 3,805 3,948 3,932	1 1 1 1 1	12 14 14 14 15	- - (s) (s)	- - - - (s)	105 105 103 103 109 112	118 120 118 118 125 129	4,232 4,051 3,747 3,922 4,073 4,061	4,198 4,351 4,435 4,560 4,558 4,460	9,229 9,455 9,529 9,773 9,749 9,378	17,659 17,857 17,711 18,255 18,381 17,899
2010 January	8 7 6 4 4 4 4 4 5 5 6 6	509 450 344 220 164 132 123 129 135 189 292 477 3,164	89 81 58 43 46 51 44 41 39 52 56 85 685	606 538 407 266 214 187 171 175 178 245 353 568 3,908	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	9 8 9 10 9 10 9 9 9 9	11 10 11 11 12 11 11 11 11 11 10 11	617 548 419 277 226 198 182 186 189 256 364 579 4,039	369 344 347 340 362 407 436 441 406 370 346 369 4,539	766 694 699 689 822 896 927 795 738 741 813 9,501	1,752 1,585 1,465 1,307 1,410 1,501 1,546 1,547 1,390 1,364 1,451 1,761
2011 January	7 6 4 4 4 3 3 3 3 4 4 8 52	540 442 372 241 171 R 134 R 132 R 138 144 R 218 R 289 406	R 79 R 73 60 43 R 35 R 44 42 52 54 R 60 R 65 R 83 R 691	R 626 R 522 R 438 R 288 210 R 178 R 194 201 R 281 R 358 R 494 R 3,970	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	9 9 9 9 9 9 9 9 10 110	11 10 11 10 11 11 11 11 11 11 11 11	R 637 R 532 R 449 298 221 193 R 189 R 205 211 R 292 R 369 R 505	368 339 353 341 365 401 434 437 401 367 340 355 4,501	762 670 742 720 802 868 950 908 770 751 726 762 9,429	R 1,767 R 1,541 R 1,545 1,359 1,387 R 1,461 R 1,573 R 1,550 R 1,436 R 1,436 R 1,436 R 1,622 R 1 8,032
2012 January	5 4 4 R 3 3 2 20	R 458 R 398 268 216 153 135 1,628	87 71 64 49 ^R 51 49 371	549 R 473 336 R 267 R 206 187 2,019	(s) (s) (s) (s) (s) (s)	2 2 2 2 2 2 2 10	(s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s)	9 9 9 9 12 57	11 10 11 11 11 14 67	R 560 484 347 R 278 R 217 200 2,087	359 339 347 344 375 402 2,165	734 676 702 691 810 841 4,454	R 1,653 1,499 1,396 R 1,312 1,403 1,443 8,706
2011 6-Month Total 2010 6-Month Total	31 32	1,900 1,819	335 367	2,266 2,218	1 1	10 9	(s) (s)	(s) (s)	54 56	64 65	2,330 2,284	2,167 2,170	4,564 4,566	9,061 9,019

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of

R=Revised. NA=Not available. - =No data reported. (s)=Less than 0.5 trillion

Notes: • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," 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/#consumption for all available data beginning in 1973.

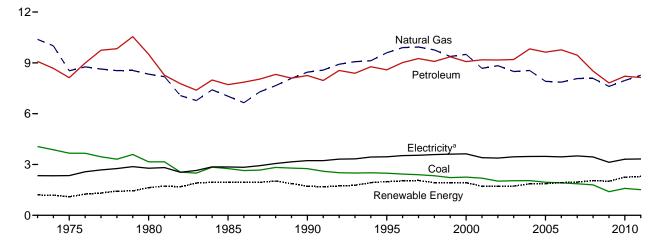
Sources: Tables 2.6, 3.8a, 4.3, 6.2, 7.6, 10.2a, A4, A5, and A6.

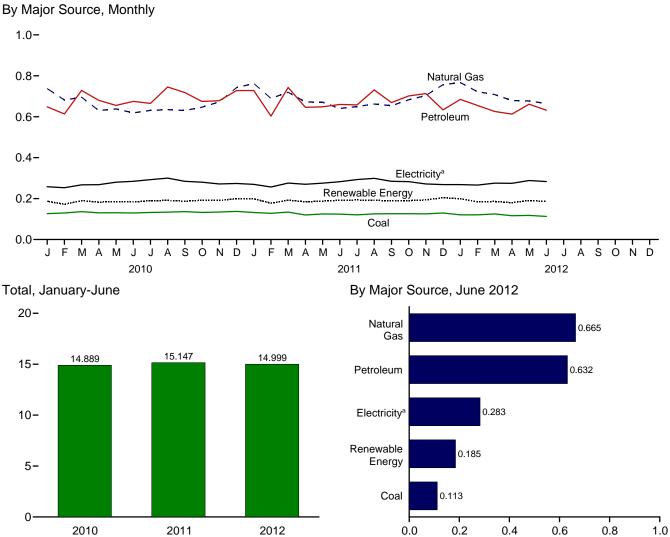
 ^a See "Primary Energy Consumption" in Glossary.
 ^b Most data are estimates. See Table 10.2a for notes on series components

b Most data are estimates. See Table 10.2a for notes on series components and estimation.
 c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
 e Conventional hydroelectric power.
 f Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 g Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

By Major Source, 1973-2011





^a Electricity retail sales. Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption

(Trillion Btu)

	(11111101	. 5.0,												1
					Primar	y Consun	nptiona				1			
		Fossi	I Fuels				Renewabl	e Energy	b			Elec-	Electrical	
	Coal	Natural Gas ^c	Petro- leum ^d	Totale	Hydro- electric Power ^f	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	tricity Retail Sales	System Energy Losses ^h	Totale
1973 Total	4,057	10,388	9,083	23,521	35	NA	NA	NA	1,165	1,200	24,720	2,341	5,562	32,623
1975 Total	3,667	8,532	8,127	20,339	32	NA	NA	NA	1,063	1,096	21,434	2,346	5,632	29,413
1980 Total	3,155	8,333	9,509	20,962	33	NA	NA	NA	1,600	1,633	22,595	2,781	6,664	32,039
1985 Total	2,760	7,032	7,714	17,492	33	NA	NA	NA	1,918	1,951	19,443	2,855	6,518	28,816
1990 Total	2,756	8,451	8,251	19,463	31 55	2	-	_	1,684	1,717	21,180	3,226	7,404	31,810
1995 Total 1996 Total	2,488 2.434	9,592 9,901	8,586 9.019	20,727 21,377	55 61	3 3	_	_	1,934 1,969	1,992 2,033	22,719 23,410	3,455 3,527	7,796 7,968	33,971 34,904
1997 Total	2,395	9,933	9,255	21,629	58	3	_	_	1,996	2,057	23,686	3,542	7,972	35,200
1998 Total	2,335	9,763	9,082	21,248	55	3	_	_	1,872	1,929	23,177	3,587	8,079	34,843
1999 Total	2,227	9,375	9,356	21,016	49	4	_	_	1,882	1,934	22,950	3,611	8,203	34,764
2000 Total	2,256	9,500	9,075	20,896	42	4	_	_	1,881	1,928	22,824	3,631	8,208	34,664
2001 Total	2,192	8,676	9,178	20,075	33	5	-	-	1,681	1,719	21,794	3,400	7,526	32,720
2002 Total	2,019	8,832	9,168	20,079	39	5	-	-	1,676	1,720	21,799	3,379	7,484	32,662
2003 Total	2,041	8,488	9,197	19,777	43	3	-	_	1,679	1,726	21,503	3,454	7,575	32,532
2004 Total	2,047 1.954	8,550	9,825	20,559	33 32	4	_	_	1,817	1,853	22,412 21.411	3,473	7,635	33,520
2005 Total 2006 Total	1,954	7,907 7,861	9,633 9,770	19,538 19,606	32 29	4	_	_	1,837 1,897	1,873 1,930	21,411	3,477 3,451	7,557 7,415	32,446 32,401
2007 Total	1.865	8,074	9,451	19,414	16	5	_	_	1,936	1,956	21,330	3,507	7,517	32,401
2008 Total	1,796	8,083	8,511	18,431	17	5	_	_	2,028	2,049	20,480	3,444	7,365	31,290
2009 Total	1,396	7,609	7,816	16,797	18	4	-	_	1,994	2,016	18,813	3,130	6,582	28,525
2010 January	126	737	648	1,508	2	(s)	(s)	_	185	187	1,695	258	535	2,487
February	130	681	614	1,429	2	(s)	(s)	-	170	172	1,601	253	511	2,365
March	136	695	728	1,562	2	(s)	(s)	-	188	190	1,752	267	538	2,557
April	130	630	680	1,441	2	(s)	(s)	-	181	183	1,624	268	543	2,435
May	131 130	638 619	655 675	1,427 1,424	2 1	(s) (s)	(s) (s)	_	183 182	185 183	1,612 1,608	280 284	635 625	2,527 2,517
June July	132	631	665	1,424	1	(s)	(s)	_	188	190	1,618	292	621	2,532
August	134	635	745	1,515	1	(s)	(s)	_	190	191	1,707	300	626	2,633
September	136	630	718	1,484	i	(s)	(s)	_	185	187	1.671	284	557	2,512
October	132	647	675	1,452	1	(s)	(s)	_	190	192	1,644	280	559	2,482
November	134	672	679	1,479	1	(s)	(s)	_	190	191	1,671	272	581	2,523
December	138	742	728	1,602	1	(s)	(s)	-	198	199	1,802	274	604	2,679
Total	1,590	7,959	8,210	17,753	16	4	(s)	-	2,230	2,250	20,003	3,313	6,934	30,250
2011 January	132	R 763	^R 728 ^R 603	R 1,623	1 2	(s)	(s)	(s)	197	199 178	R 1,821	270	558	R 2,649
February March	128 134	690 R 72 0	R 743	R 1,421 R 1.598	2	(s) (s)	(s) (s)	(s) (s)	176 190	192	R 1,599 R 1,791	257 276	508 580	R 2,363 R 2,646
April	120	R 672	R 646	1,438	2	(s)	(s)	(s)	182	R 184	R 1,623	270	569	2,462
May	125	R 672	R 648	R 1,447	2	(s)	(s)	(s)	185	187	R 1,634	275	606	2,515
June	124	R 640	R 660	R 1,426	1	(s)	(s)	(s)	R 191	192	R 1,618	282	611	R 2,512
July	R 120	^R 650	^R 658	R 1,428	1	(s)	(s)	(s)	192	^R 193	R 1,621	293	642	R 2,556
August	R 125	R 662	R 731	R 1,523	1	(s)	(s)	(s)	191	192	R 1,715	299	620	R 2,634
September	126	R 654	R 669	R 1,449	1	(s)	(s)	(s)	187	188	R 1,638	284	546	R 2,468
October	126	R 683 R 704	R 702	R 1,510	1	(s)	(s)	(s)	R 188	190	R 1,700	283	578 570	R 2,560
November December	125 130	R 757	^R 713 ^R 633	^R 1,541 ^R 1,522	1 2	(s)	(s)	(s) (s)	192 202	194 204	^R 1,735 ^R 1,726	271 268	579 576	R 2,585 R 2,571
Total	R 1,516	R 8,265	R 8,135	R 17,927	18	(s) 4	(s) (s)	(s)	R 2,272	R 2,294	R 20,221	3,329	6,973	R 30,522
2012 January	121	767	^R 685	R 1,574	2	(s)	(s)	(s)	197	199	^R 1,774	268	549	R 2,591
February	121	R 722	R 655	R 1,498	2	(s)	(s)	(s)	183	185	R 1,683	266	531	R 2,479
March	125	708	^R 626	R 1.461	2	(s)	(s)	(s)	184	186	R 1,648	275	556	R 2.479
April	R 116	679	R 613	^R 1,414	2	(s)	(s)	(s)	178	180	R 1,594	274	552	^R 2,420
May	R 118	R 677	R 661	R 1,457	2	(s)	(s)	(s)	188	190	R 1,647	288	622	R 2,558
June 6-Month Total	113 713	665 4,218	632 3,871	1,409 8,814	1 10	(s) 2	(s) (s)	1 1	183 1,113	185 1,126	1,594 9,940	283 1,655	593 3,404	2,471 14,999
2011 6-Month Total	763	4,156	4,028	8,953	10	2	(s)	(s)	1,120	1,132	10,085	1,630	3,432	15,147
2010 6-Month Total	783	4,001	4,000	8,791	10	2	(s)	-	1,088	1,100	9,891	1,610	3,387	14,889

Conventional hydroelectric power.

allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of

R=Revised. NA=Not available. -=No data reported. (s)=Less than 0.5 trillion

Btu. Notes: • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of Section. • Tools 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/#consumption

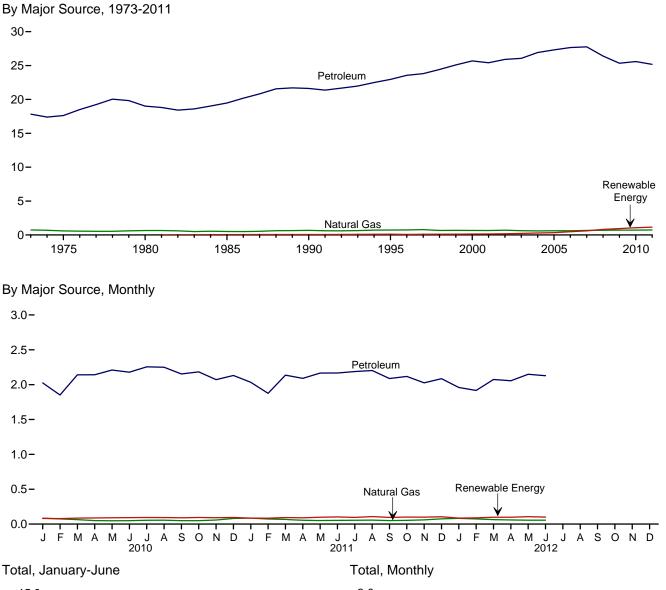
for all available data beginning in 1973. Sources: Tables 1.4a, 1.4b, 2.6, 3.8b, 4.3, 6.2, 7.6, 10.2b, A4, A5, and A6.

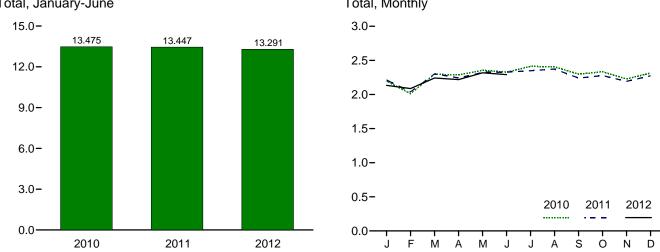
a See "Primary Energy Consumption" in Glossary.
 b Most data are estimates. See Table 10.2b for notes on series components

Most data are estimates. See Lable 10.2b for notes on series components and estimation.
 Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
 Includes coal coke net imports, which are not separately displayed. See Tables 1.4a and 1.4b.
 Conventional hydroelectric power.

General hydroelectric power.
 Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are

Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)





Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.5.

Table 2.5 Transportation Sector Energy Consumption

(Trillion Btu)

			Primary Cor						
		Fossil	l Fuels		Renewable Energy ^b	Total	Electricity	Electrical System	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Total Primary	Retail Sales ^e	Energy Losses ^f	Total
1973 Total	3	743	17,832	18,577	NA	18,577	11	25	18,613
1975 Total	1	595	17,615	18,210	NA	18,210	10	24	18,245
1980 Total	(g)	650	19,009	19,659	NA_	19,659	11	27	19,697
1985 Total	(g)	519	19,472	19,992	50	20,041	14	32	20,088
1990 Total	(g)	680	21,626	22,306	60	22,366	16	37	22,420
1995 Total	(g) (g)	724	22,955	23,679	112	23,791	17	38	23,846
1996 Total	(g)	737	23,565	24,302	81	24,383	17	38	24,437
1997 Total	(g)	780	23,813	24,593	102	24,695	17	38	24,750
1998 Total	(g)	666	24,422	25,088	113	25,201	17	38 40	25,256
1999 Total	(g)	675 672	25,098	25,774	118 135	25,891	17 18	40 42	25,949
2000 Total	(9)		25,682	26,354		26,489	20		26,548
2001 Total	(g)	658 600	25,412	26,070	142 170	26,213	20 19	43	26,275
2002 Total	(g)	699 627	25,913 26,063	26,612	170 230	26,781	19 23	42 51	26,842 26,994
2003 Total 2004 Total	(g)	627 602	26,063 26,925	26,690 27,527	230 290	26,920 27.817	23 25	51 54	26,994 27.895
	(g)	624		27,527 27,933	339	28,272	25 26	54 56	28,353
2005 Total	(9)	625	27,309 27,651	27,933 28,276	475	28,751	26 25	56 54	28,830
2006 Total 2007 Total	(9)	663	27,763	28,427	602	29,029	23 28	60	29,117
2008 Total	(g)	692	26,407	27,099	826	27,925	26	56	28,008
2009 Total	(g)	715	25,339	26,054	935	26,989	27	56	27,071
	(-)		_0,000	_0,00.		_0,000		•	,
2010 January	(9)	84	2,025	2.109	81	2,190	2	5	2,198
February	(g)	74	1,851	1,926	79	2,004	2	5	2,012
March	(g)	64	2,141	2,205	85	2,290	2	5	2,297
April	(g)	50	2,142	2,193	87	2,280	2	4	2,286
May	(g)	48	2,209	2,257	92	2,349	2	5	2,356
June	(g)	49	2,179	2,228	93	2,320	2	5	2,328
July	(g)	54	2,256	2,310	94	2,404	2	5	2,411
August	(9)	56	2,250	2,306	94	2,399	2	4	2,406
September	(9)	48	2,153	2,202	90	2,291	2	4	2,298
October	(g)	49	2,184	2,233	94	2,327	2	4	2,333
November	(g)	59	2,072	2,131	91	2,221	2	4	2,228
December	(g)	81	2,132	2,213	94	2,307	2	5	2,314
Total	(g)	716	25,595	26,310	1,074	27,384	26	55	27,466
2011 January	(g)	86	R 2,035	R 2,120	86	R 2,206	2	5	R 2,213
February	(g)	73	R 1,876	R 1,949	R 84	R 2,033	2	4	R 2,039
March	(g)	67	R 2,136	R 2,203	93	R 2,296	2	5	R 2,303
April	(g) (g)	55	R 2,091	R 2,146	R 90	R 2,236	2	4	R 2,243
May	(9)	51	R 2,166	R 2,216	R 98	R 2,314	2	5	R 2,321
June	(9)	50	R 2,167	R 2,218	102	R 2,320	2 2	5	R 2,327
July	(9)	57 57	^R 2,188 ^R 2,203	R 2,245	96 ^R 107	R 2,341		5	R 2,348
August	(9)	57 50	R 2,203	R 2,260 R 2,138	* 107 * 96	R 2,366 R 2,234	2 2	4 4	^R 2,373 ^R 2,240
September October	(9)	50 53	R 2,118	R 2,138	100	R 2,234	2	4	R 2,240
November	(9)	61	R 2,026	R 2.087	R 99	R 2,186	2	4	R 2,192
December	(9)	75	R 2.086	R 2,161	R 105	R 2,267	2	5	R 2.274
Total	(g)	R 733	R 25,180	R 25,913	R 1,157	R 27,070	26	54	R 27,151
2012 January	(g)	^R 82	^R 1.960	R 2.042	86	R 2,127	2	5	^R 2,134
February	(9)	74	R 1,917	R 1,991	89	R 2,080	2	4	R 2,087
March	(9)	R 63	R 2,074	R 2,137	98	R 2,235	2	4	R 2,241
April	(9)	59	R 2,056	R 2,115	98	R 2,213	2	4	R 2,219
May	(9)	56	R 2,149	R 2,205	107	R 2,312	2	5	R 2,319
June	(g)	56	2,128	2,184	101	2,285	2	4	2,291
6-Month Total	(g)	390	12,284	12,674	578	13,252	13	26	13,291
2011 6-Month Total 2010 6-Month Total	(⁹)	381 369	12,471 12,548	12,852 12,917	554 517	13,406 13,434	13 13	28 28	13,447 13,475

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of

electricity fetall sales. See Note 2, Lieuthar Cyston. 2009, 2009, 3000.

g Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.

R=Revised. NA=Not available.

Notes: • See Note 1, "Energy Consumption Data and Surveys," 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.

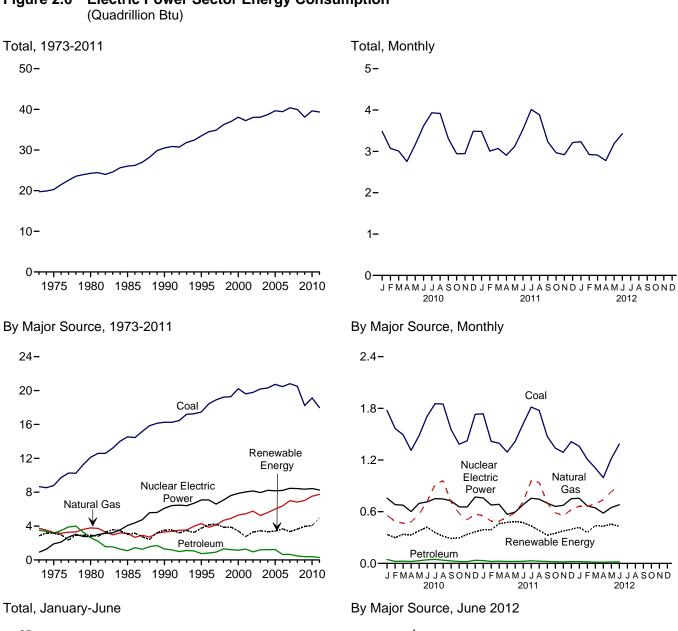
Web Pane: See http://www.eia.gov/totalenergy/data/monthly/#consumption for

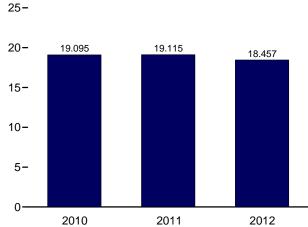
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973.

Sources: Tables 2.6, 3.8c, 4.3, 6.2, 7.6, 10.2b, A4, A5, and A6.

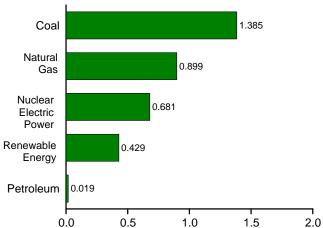
a See "Primary Energy Consumption" in Glossary.
b Data are estimates. See Table 10.2b for notes on series components.
c Natural gas only; does not include supplemental gaseous fuels. See Note 3,
"Supplemental Gaseous Fuels," at end of Section 4.
d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
e Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

Electric Power Sector Energy Consumption Figure 2.6





 $Web\ Page:\ http://www.eia.gov/totalenergy/data/monthly/\#consumption.$ Source: Table 2.6.



Electric Power Sector Energy Consumption Table 2.6

(Trillion Btu)

						Prima	ry Consum	ptiona					
		Fossil	Fuels				-	Renewabl	e Energy ^b				
	Coal	Natural Gas ^c	Petro- leum	Total	Nuclear Electric Power	Hydro- electric Power ^d	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Elec- tricity Net Imports	Total Primary
1973 Total 1975 Total	8,658 8,786	3,748 3,240	3,515 3,166	15,921 15,191	910 1,900	2,827 3,122	20 34	NA NA	NA NA	3 2	2,851 3,158	49 21	19,731 20,270
1980 Total	12,123 14,542	3,778 3,135	2,634 1,090	18,534 18,767	2,739 4,076	2,867 2,937	53 97	NA (c)	NA (c)	4 14	2,925 3,049	71 140	24,269 26,032
1985 Total 1990 Total ^e	16,261	3,309	1,090	20,859	6,104	3,014	161	(s) 4	<u>(s)</u> 29	317	3,524	8	30,495
1995 Total	17,466	4,302	755	22,523	7,075	3,149	138	5	33	422	3,747	134	33,479
1996 Total 1997 Total	18,429 18.905	3,862 4.126	817 927	23,109 23.957	7,087 6.597	3,528 3,581	148 150	5 5	33 34	438 446	4,153 4,216	137 116	34,485 34.886
1998 Total	19,216	4,675	1,306	25,197	7,068	3,241	151	5	31	444	3,872	88	36,225
1999 Total	19,279 20,220	4,902	1,211 1,144	25,393	7,610 7.862	3,218 2,768	152 144	5 5	46 57	453 453	3,874 3.427	99 115	36,976 38.062
2000 Total 2001 Total	19,614	5,293 5,458	1,144	26,658 26,348	8,029	2,700	144	6	70	453 337	2,763	75	37,215
2002 Total	19,783	5,767	961	26,511	8,145	2,650	147	6	105	380	3,288	72	38,016
2003 Total 2004 Total	20,185 20,305	5,246 5,595	1,205 1,212	26,636 27,112	7,959 8.222	2,781 2,656	148 148	5 6	115 142	397 388	3,445 3,340	22 39	38,062 38,713
2005 Total	20,737	6,015	1,235	27,986	8,161	2,670	147	6	178	406	3,406	85	39,638
2006 Total	20,462	6,375	648	27,485	8,215	2,839	145	5	264	412	3,665	63	39,428
2007 Total 2008 Total	20,808 20,513	7,005 6,829	657 468	28,470 27,810	8,455 8,427	2,430 2,494	145 146	6 9	341 546	423 435	3,345 3,630	107 112	40,377 39,978
2009 Total	18,225	7,022	390	25,638	8,356	2,650	146	9	721	441	3,967	116	38,077
2010 January	1,775	557	45	2,377	758	217	13	(s)	67	39	335	14	3,484
February	1,568 1,494	489 466	23 25	2,080 1,984	682 676	199 202	11 13	(s) 1	53 84	36 39	300 338	12 10	3,073 3,008
March April	1,312	480	23	1,815	602	184	12	1	95	36	329	9	2,755
May	1,483	570	31	2,084	697	243	13	1	85	36	378	5	3,163
June July	1,708 1,855	719 914	41 46	2,468 2,815	714 752	290 238	12 12	2 2	79 66	39 40	421 358	9 10	3,611 3,934
August	1,849	961	37	2,847	748	195	13	2	65	41	315	6	3,917
September	1,554	709	28	2,291	725	168	12	1	69	38	288	2	3,306
October November	1,383 1,423	581 506	22 21	1,986 1,950	656 655	171 190	12 12	1 1	77 95	37 39	298 337	1 3	2,942 2,944
December	1,731	575	36	2,341	770	225	13	(s)	88	41	367	9	3,488
Total	19,133	7,527	378	27,039	8,434	2,521	148	12	923	459	4,064	89	39,626
2011 January	1,737 1,417	552 491	33 23	2,323 1.931	760 677	254 239	14 13	(s)	84 103	38 35	391 390	9 8	3,483 3.006
February March	1,395	491	26 26	1,912	686	308	14	1	103	38	463	8	3,070
April	1,293	535	23	1,851	570	307	13	2	121	33	476	7	2,905
May June	1,416 1.621	589 718	22 25	2,027 2.364	596 682	321 313	14 13	2	113 106	35 38	486 473	12 11	3,121 3,530
July	1,816	959	31	2,805	756	307	13	2	72	40	434	16	4,012
August	1,776 1.475	940 699	25 22	2,741 2.196	746 699	256 209	13 13	2	72 67	39 37	383 327	16 10	3,885 3,232
September October	1,475	589	22 19	1,946	662	209 194	13	2	104	37 36	349	10	3,232 2.967
November	1,289	553	17	1,860	674	207	13	1	120	36	377	8	2,919
December Total	1,413 17,986	624 7,740	20 288	2,057 26,014	751 8,259	239 3,153	14 163	1 18	102 1,168	39 444	396 4,945	12 127	3,215 R 39,345
2012 January	1,360	663	21	2,045	757	232	14	1	135	38	420	11	3,232
February	1,210	661	17	1,888	667	201	13	1	108	35	359	9	2,924
March	1,108	692	15	1,816	645	255	14	2	132	37	440	10	2,911
April May	995 1,217	737 834	14 16	1,746 2,067	584 649	259 281	13 14	3 4	123 121	33 36	432 457	13 15	2,775 3,188
June	1,385	899	19	2,304	681	263	14	5	114	34	429	14	3,428
6-Month Total	7,275	4,488	103	11,866	3,983	1,491	82	16	733	214	2,536	72	18,457
2011 6-Month Total 2010 6-Month Total	8,879 9,339	3,377 3,280	152 188	12,408 12,807	3,972 4,129	1,741 1,335	82 74	8 5	631 462	217 225	2,679 2,101	56 58	19,115 19,095

Notes: • Data are for fuels consumed to produce electricity and useful thermal

all available data beginning in 1973.

Sources: Tables 3.8c, 4.3, 6.2, 7.1, 7.2b, 10.2c, A4, A5, and A6.

a See "Primary Energy Consumption" in Glossary.
b See Table 10.2c for notes on series components.
c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
d Conventional hydroelectric power.
e Through 1988, date are for electric utilities and a Paringian in 1998.

Conventional hydroelectric power.
 Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
 R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

output. • 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. • See Note 1, "Energy Consumption Data and Surveys," 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/#consumption for all available data heqininging in 1973

Energy Consumption by Sector

Note 1. Energy Consumption Data and Surveys. Most of the data in this section of the Monthly Energy Review (MER) are developed from a group of energy-related surveys, typically called "supply surveys," conducted by the U.S. Energy Information Administration (EIA). Supply surveys are directed to suppliers and marketers of specific energy sources. They measure the quantities of specific energy sources produced, or the quantities supplied to the market, or both. The data obtained from EIA's supply surveys are integrated to yield the summary consumption statistics published in this section (and in Section 1) of the MER.

Users of EIA's energy consumption statistics should be aware of a second group of energy-related surveys, typically called "consumption surveys." Consumption surveys gather information on the types of energy consumed by end users of energy, along with the characteristics of those end users that can be associated with energy use. For example, the Manufacturing Energy Consumption Survey belongs to the consumption survey group because it collects information directly from end users (the manufacturing establishments). There are important differences between the supply and consumption surveys that need to be taken into account in any analysis that uses both data sources. For information on

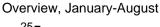
those differences, see Energy Consumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys, DOE/EIA-0533, U.S. Energy Information Administration, Washington, DC, April 6, 1990.

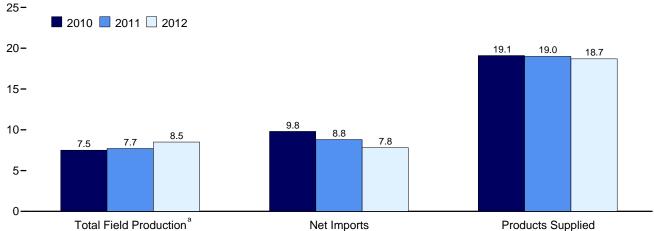
Note 2. Electrical System Energy Losses. Electrical system energy losses are calculated as the difference between total primary consumption by the electric power sector (see Table 2.6) and the total energy content of electricity retail sales (see Tables 7.6 and A6). Most of these losses occur at steam-electric power plants (conventional and nuclear) in the conversion of heat energy into mechanical energy to turn electric generators. The loss is a thermodynamically necessary feature of the steam-electric cycle. Part of the energy input-to-output losses is a result of imputing fossil energy equivalent inputs for hydroelectric and other energy sources, since there is no generally accepted practice for measuring those thermal conversion rates. In addition to conversion losses, other losses include power plant use of electricity, transmission and distribution of electricity from power plants to end-use consumers (also called "line losses"), and unaccounted for electricity. Total losses are allocated to the end-use sectors in proportion to each sector's share of total electricity sales. Overall, about two thirds of total energy input is lost in conversion. Currently, of electricity generated, approximately 5 percent is lost in plant use and 7 percent is lost in transmission and distribution.

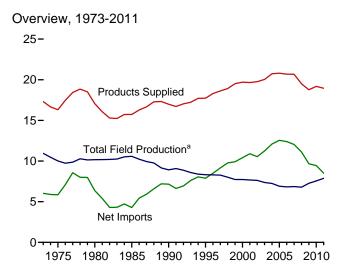
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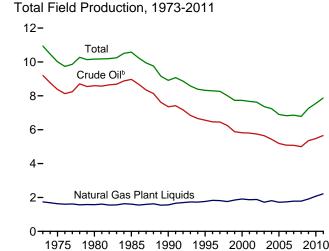
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Figure 3.1 Petroleum Overview (Million Barrels per Day)





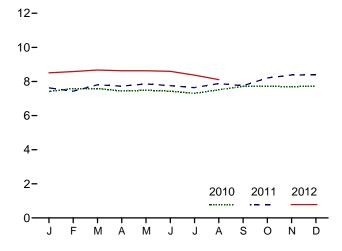






Crude Oil^b Field Production, 1973-2011

Total Field Production,^a Monthly



^a Crude oil, including lease condensate, and natural gas plant liquids field production.

1975 1980 1985 1990 1995 2000 2005 2010

^b Includes lease condensate.

^c United States excluding Alaska and Hawaii. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.1.

Table 3.1 **Petroleum Overview**

		Fie	eld Produc	tiona		Damani			Trade				
	48 States ^d	Crude Oil ^t Alaska	o,c Total	NGPL ^{e,f}	Total ^c	Renew- able Fuels and Oxy- genates9	Process- ing Gain ^h	lm- ports ⁱ	Ex- ports ^f	Net Imports ^j	Stock Change ^k	Adjust- ments ^{c,l}	Petroleum Products Supplied
1973 Average 1975 Average 1980 Average 1985 Average 1990 Average 1991 Average 1995 Average 1997 Average 1997 Average 1998 Average 2001 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2006 Average 2007 Average 2007 Average 2008 Average		198 191 1,617 1,825 1,773 1,484 1,393 1,296 1,175 1,050 970 963 8985 974 908 864 741 722 683 645	9,208 8,375 8,597 7,355 6,560 6,452 6,252 5,822 5,744 R 5,644 R 5,435 R 5,089 R 5,000 R 5,353	1,738 1,633 1,573 1,609 1,559 1,762 1,830 1,817 1,759 1,850 1,911 1,868 1,880 1,719 1,809 1,717 1,739 1,783 1,783	10,946 10,007 10,170 10,581 8,914 8,322 8,295 8,011 7,733 7,734 R 7,363 R 7,244 R 7,363 R 6,803 R 6,807 R 6,784 R 7,263	NA NA NA NA NA NA NA NA NA NA NA NA NA N	453 460 597 557 683 774 837 850 886 948 903 957 974 1,051 994 996 996 993 979	6,256 6,056 6,909 5,067 8,018 8,835 9,478 10,162 10,708 11,871 11,530 12,264 13,145 13,707 13,468 12,915 11,691	231 209 544 781 857 949 981 1,003 945 940 1,040 971 1,048 1,165 1,317 1,433 1,802 2,024	6,025 5,846 6,365 4,286 7,886 8,498 9,764 9,764 10,900 10,546 11,238 12,097 12,549 12,390 12,036 11,114 9,667	135 32 140 -103 107 -246 -151 143 239 -422 -69 325 -105 56 209 145 60 -148 195 109	18 41 64 200 338 496 526 556 552 551 8 548	17,308 16,322 17,056 15,726 16,988 17,725 18,309 18,620 18,917 19,519 19,761 20,034 20,731 20,687 20,680 19,498 18,771
2010 January February March April May June July August September October November December Average	R 4,911 4,867 R 4,738 R 4,827 R 4,849 R 4,790 R 4,906 R 4,994 R 4,978 R 4,952 R 4,982	640 635 646 640 571 534 545 538 614 618 606 632 601	R 5,399 R 5,546 5,513 R 5,377 R 5,398 R 5,313 R 5,445 R 5,608 R 5,596 R 5,561 R 5,614 R 5,479	2,017 2,043 2,076 2,061 2,091 2,046 1,994 2,071 2,104 2,125 2,136 2,124 2,074	R 7,416 R 7,589 7,589 R 7,438 R 7,430 R 7,307 R 7,515 R 7,712 R 7,721 R 7,694 R 7,739	846 874 895 878 893 905 906 911 915 924 967	961 1,060 1,064 1,069 1,085 1,109 1,123 1,062 1,012 1,051 1,187 1,068	11,300 11,230 11,621 12,526 12,141 12,444 12,675 12,356 11,823 11,142 11,096 11,132 11,793	1,897 2,034 2,149 2,432 2,399 2,304 2,516 2,410 2,345 2,480 2,598 2,644 2,353	9,404 9,197 9,472 10,093 9,742 10,140 10,159 9,946 9,478 8,662 8,498 8,488 9,441	309 -46 77 762 661 373 440 214 -23 -451 -667 -1,068	R 334 R 85 156 R 368 R 350 R 279 R 380 R 249 R 203 R 100 R 279 R 261	18,652 18,850 19,099 19,044 18,866 19,537 19,319 19,662 19,438 18,974 18,977 19,722 19,180
2011 January	R 4,811 R 4,980 R 4,936 R 5,022 R 5,017 R 4,967 R 5,108 R 4,996 R 5,310 R 5,413 R 5,417	479 611 631 606 601 553 468 544 585 585 593 611	R 5,511 R 5,422 R 5,611 R 5,542 R 5,623 R 5,633 R 5,651 R 5,581 R 6,006 R 6,028 R 5,658	R 2,114 R 2,009 R 2,195 R 2,186 R 2,234 R 2,206 R 2,227 R 2,171 R 2,373 R 2,373 R 2,358 R 2,216	R 7,625 R 7,431 R 7,806 7,728 R 7,857 R 7,758 R 7,642 R 7,879 R 7,751 R 8,208 R 8,379 R 8,387 R 7,874	R 982 R 972 R 1,002 R 996 R 996 R 1,015 R 1,004 R 1,027 R 1,011 R 1,023 R 1,076 R 1,085 R 1,016	R 1,019 R 954 R 1,019 R 1,013 R 1,085 R 1,106 R 1,122 R 1,133 R 1,123 R 1,134 R 1,134 R 1,076	R 12,248 R 10,738 R 11,850 R 11,808 R 11,866 R 11,877 R 11,757 R 11,277 R 11,270 R 11,270 R 11,270 R 11,270 R 11,064 R 11,504	R 2,750 R 2,634 R 2,733 R 3,071 R 2,735 R 2,716 R 3,053 R 3,002 R 3,174 R 3,159 R 3,667 R 2,986	R 9,497 R 8,104 R 9,117 R 8,736 R 9,131 R 8,704 R 8,224 R 8,095 R 7,397 R 8,518	R 484 R -1,033 R -139 R 105 R 884 R 59 R 231 R -644 R -491 R -371 R 23 R -646 R -121	R 354 R 380 R 246 R 282 R 298 R 272 R 537 R 507 R 419 R 214 R 475 R 153 R 344	R 18,993 R 18,873 R 19,329 R 18,650 R 18,479 R 19,253 R 18,778 R 19,415 R 18,844 R 18,844 R 18,844 R 18,844 R 18,803 R 18,949
2012 January	RE 5,613 RE 5,730 RE 5,693 RE 5,709 RE 5,767 E 5,865 E 5,634	E 612 E 582 E 567 RE 553 RE 546 RE 493 E 420 E 403 E 522	RE 6,134 RE 6,195 RE 6,297 RE 6,247 RE 6,250 RE 6,260 RE 6,285 RE 6,260 F 6,214	2,376 2,388 2,375 2,382 2,376 2,376 E 2,087 E 2,072 E 2,298 2,172 2,050	RE 8,509 RE 8,584 RE 8,672 RE 8,629 RE 8,631 RE 8,595 E 8,372 E 8,109 E 8,511	1,021 1,012 994 1,001 1,018 R 1,004 E 873 E 905 E 978	1,053 1,068 1,023 1,047 1,089 E 1,146 E 1,116 E 1,080 1,058 1,062	10,944 10,464 10,610 10,634 11,132 R 11,393 E 10,895 E 10,781 E 10,859	2,839 2,980 3,064 3,263 3,194 R 3,209 E 2,880 E 2,865 E 3,036	8,104 7,484 7,547 7,370 7,939 8,8,184 E 8,015 E 7,916 E 7,823 8,842 9,773	655 -228 409 -18 524 R 493 E 184 E -403 E 205	R 247 R 384 R 385 R 264 R 555 R 526 E 654 E 703 E 466	18,280 18,760 18,213 18,330 18,707 R 18,915 E 18,876 E 19,152 E 18,654 18,973 19,131

^a Crude oil production on leases, and natural gas liquids (liquefied petroleum gases, pentanes plus, and a small amount of finished petroleum products) production at natural gas processing plants. Excludes what was previously classified as "Field Production" of finished motor gasoline, motor gasoline blending components, and other hydrocarbons and oxygenates; these are now included in "Adjustments."

Includes lease condensate.

b Includes lease condensate.

C Data for crude oil production, total field production, and adjustments are revised monthly going back as far as the data year of the U.S. Energy Information Administration's (EIA) last published Petroleum Supply Annual (PSA)—these revisions are released at the same time as EIA's Petroleum Supply Monthly. Once a year, data for these series are revised going back as far as 10 years—these revisions are released at the same time as the PSA.

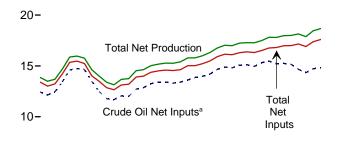
d United States excluding Alaska and Hawaii.

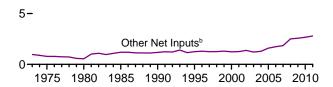
e Natural gas plant liquids.
f See Note 6, "Petroleum Data Discrepancies," at end of section.
g Renewable fuels and oxygenate plant net production.
h Refinery and blender net production minus refinery and blender net inputs.
See Table 3.2.

Includes Strategic Petroleum Reserve imports. See Table 3.3b.

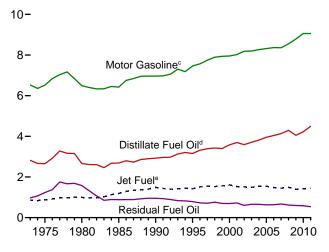
Figure 3.2 Refinery and Blender Net Inputs and Net Production (Million Barrels per Day)

Net Inputs and Net Production, 1973-2011

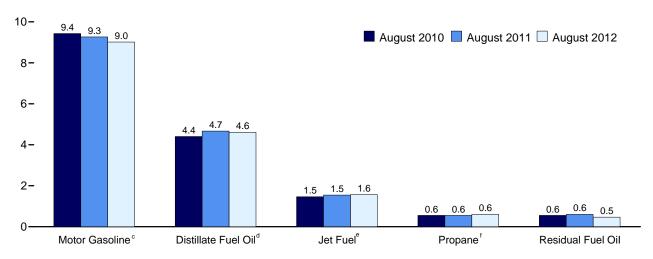




Net Production, Selected Products, 1973-2011

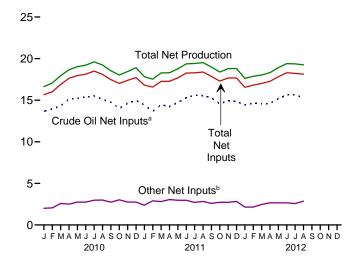


Net Production, Selected Products

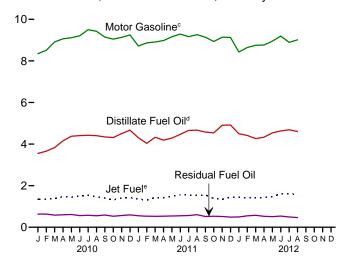


^a Includes lease condensate.

Net Inputs and Net Production, Monthly



Net Production, Selected Products, Monthly



Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.2.

^b Natural gas plant liquids and other liquids.

^cBeginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^e Beginning in 2005, includes kerosene-type jet fuel only.

f Includes propylene.

Table 3.2 Refinery and Blender Net Inputs and Net Production

	Refin	ery and Ble	nder Net I	nputs ^a			Refinery	and Blen	der Net Pro	ductionb		
							LPC	3 °				
	Crude Oil ^d	NGPLe	Other Liquids ^f	Total	Distillate Fuel Oil ⁹	Jet Fuel ^h	Propane ⁱ	Total	Motor Gasoline ^j	Residual Fuel Oil	Other Products ^k	Total
1973 Average	12,431	815	155	13,401	2,820	859	271	375	6,527	971	2,301	13,854
1975 Average	12,442	710	72	13,225	2,653	871	234	311	6,518	1,235	2,097	13,685
1980 Average	13,481	462	81	14,025	2,661	999	269	330	6,492	1,580	2,559	14,622
1985 Average	12,002	509	681	13,192	2,686	1,189	295	391	6,419	882	2,183	13,750
1990 Average	13,409	467	713	14,589	2,925	1,488	404	499	6,959	950	2,452	15,272
1995 Average	13,973	471	775	15,220	3,155	1,416	503	654	7,459	788	2,522	15,994
1996 Average	14,195	450	843	15,487	3,316	1,515	520	662	7,565	726	2,541	16,324
1997 Average	14,662	416	832	15,909	3,392	1,554	565	691	7,743	708	2,671	16,759
1998 Average	14,889	403	853	16,144	3,424	1,526	550	674	7,892	762	2,753	17,030
1999 Average	14,804	372	927	16,103	3,399	1,565	569	684	7,934	698	2,709	16,989
2000 Average	15,067	380	849	16,295	3,580	1,606	583	705	7,951	696	2,705	17,243
2001 Average	15,128	429	825	16,382	3,695	1,530	556	667	8,022	721	2,651	17,285
2002 Average	14,947	429	941	16,316	3,592	1,514	572	671	8,183	601	2,712	17,273
2003 Average	15,304	419	791	16,513	3,707	1,488	570	658	8,194	660	2,780	17,487
2004 Average	15,475	422	866	16,762	3,814	1,547	584	645	8,265	655	2,887	17,814
2005 Average	15,220	441	1,149	16,811	3,954	1,546	540	573	8,318	628	2,782	17,800
2006 Average	15,242	501	1,238	16,981	4,040	1,481	543	627	8,364	635	2,827	17,975
2007 Average	15,156	505	1,337	16,999	4,133	1,448	562	655	8,358	673	2,728	17,994
2008 Average	14,648	485	2,019	17,153	4,294	1,493	519	630	8,548	620	2,561	18,146
2009 Average	14,336	485	2,082	16,904	4,048	1,396	537	623	8,786	598	2,431	17,882
2010 January	13,666	503	1,501	15,670	3,551	1,338	531	480	8,348	633	2,281	16,631
February	13,950	402	1,654	16,005	3,658	1,340	562	540	8,510	632	2,385	17,065
March	14,314	413	2,166	16,893	3,835	1,379	575	726	8,913	581	2,523	17,957
April	15,131	374	2,135	17,640	4,156	1,470	585	850	9,062	598	2,531	18,668
May	15,215	399	2,348	17,963	4,375	1,449	571	857	9,113	615	2,622	19,031
June	15,382	397	2,349	18,127	4,408	1,495	572	870	9,211	559	2,670	19,212
July	15,519	384	2,595	18,498	4,425	1,542	574	860	9,500	576	2,704	19,607
August	15,110	390	2,607	18,107	4,404	1,463	552	778	9,426	554	2,605	19,230
September	14,740	443	2,294	17,477	4,341	1,404	551	614	9,143	588	2,449	18,539
October	14,000	504	2,517	17,021	4,315	1,317	526	501	9,049	528	2,323	18,033
November	14,637	531	2,223	17,391	4,503	1,394	543	390	9,134	564	2,457	18,442
December	14,976 14,724	563 442	2,185 2,219	17,724 17,385	4,670 4,223	1,417 1,418	572 560	430 659	9,252 9,059	595 585	2,547 2,509	18,911 18,452
Average												
2011 January	R 14,423	R 549	R 1,835	R 16,807	R 4,303	1,362	R 561	R 431	R 8,714	552	R 2,464	R 17,826
February	R 13,676	R 515	R 2,388	R 16,579	R 4,033	1,298	R 512	R 472	R 8,866	529 ^R 526	R 2,335	R 17,533
March		R 460 R 448	R 2,350	R 17,261	R 4,326	R 1,431	R 528	^R 636 ^R 781	R 8,908		R 2,454	R 18,280
April	R 14,231	R 432	R 2,606 R 2,535	R 17,285	R 4,189	1,422	^R 542 ^R 563	R 815	R 8,978	^R 534 ^R 538	^R 2,394 ^R 2,496	R 18,298
May	R 14,718	R 444		R 17,685	R 4,283	R 1,479			R 9,157		R 2,496	R 18,770
June		417	R 2,522 R 2,288	R 18,260 R 18,294	^R 4,471 ^R 4,656	1,568 1,550	^R 567 557	^R 847 ^R 820	^R 9,289 ^R 9.166	553 ^R 563	^R 2,638 ^R 2,661	R 19,366 R 19,416
July		417	R 2,396	R 18,388	R 4,668	1,550	R 553	R 791	R 9,166	604	2,652	R 19,522
August September	R 15,275	494	R 2,100	R 17,870	R 4,576	1,543	569	R 603	R 9,264	516	R 2.605	R 18,993
October	R 14,570	524	R 2,205	R 17,298	R 4.539	R 1,333	R 540	R 480	R 8.932	R 530	R 2,525	R 18,382
November		R 599	R 2,118	R 17,677	R 4.902	1,376	564	R 377	R 9.141	516	R 2,513	R 18,790
December	R 14.842	566	R 2,270	R 17,678	4,919	1,449	566	R 368	R 9,128	R 486	R 2,462	R 18,812
Average	R 14,806	R 490	R 2,300	R 17,596	R 4,492	1,449	R 552	R 619	R 9,058	R 537	R 2,518	R 18,673
2012 January	14,415	513	1,633	16,561	4,498	1,437	518	414	8,427	495	2,343	17,613
February		531	1,618	16,809	4,416	1,401	532	492	8,645	547	2,375	17,876
March	14,545	445	2,022	17,012	4,262	1,412	545	685	8,753	577	2,347	18,035
April	14,614	443	2,215	17,272	4,330	1,433	558	833	8,763	525	2,436	18,319
May	15,177	429	2,228	17,833	4,537	1,468	569	856	8,952	509	2,601	18,922
June		R 442	R 2,222	R 18,297	R 4,632	R 1,609	R 585	R 841	R 9,193	R 538	R 2,582	R 19,396
July	E 15,653	F 427	RE 2,141	RF 18,221	E 4,687	E 1,620	RE 640	F 815	E 8,895	E 496	RE 2,854	RE 19,367
August	E 15,274	F 429	E 2,432	F 18,135	E 4,604	E 1,566	E 603	F 785	E 9,013	E 465	E 2,819	E 19,251
8-Month Average	,	^E 457	E 2,066	E 17,521	^E 4,496	E 1,494	^E 569	^E 716	E 8,830	^E 519	E 2,546	E 18,601
2011 8-Month Average 2010 8-Month Average	14,755 14.792	462 408	2,363 2,175	17,580 17,375	4,371 4,106	1,458 1,435	548 565	701 747	9,044 9,016	550 593	2,514 2,542	18,638 18,438

See "Refinery and Blender Net Inputs," in Glossary. See "Refinery and Blender Net Production," in Glossary. Liquefied petroleum gases.

Liquefied petroleum gases.

d Includes lease condensate.

e Natural gas plant liquids (liquefied petroleum gases and pentanes plus).

f Unfinished oils (net), other hydrocarbons, and hydrogen. Beginning in 1981, also includes aviation and motor gasoline blending components (net). Beginning in 1993, also includes oxygenates (net), including fuel ethanol. Beginning in 2009, also includes renewable diesel fuel (including biodiesel).

g Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in

h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in

[&]quot;Other Products."

i Includes propylene.
i Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

k Asphalt and road oil, finished aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special naphthas, still gas, waxes, and miscellaneous products. Beginning in 2005, also includes naphtha-type jet fuel. R=Revised. E=Estimate. F=Forecast. Notes:

Notes:

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

• Geographic coverage is the 50 States and the District of Columbia. Web Pages:

• For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum.

• For related information, see http://www.eia.gov/petroleum/.

Sources:

• 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports.

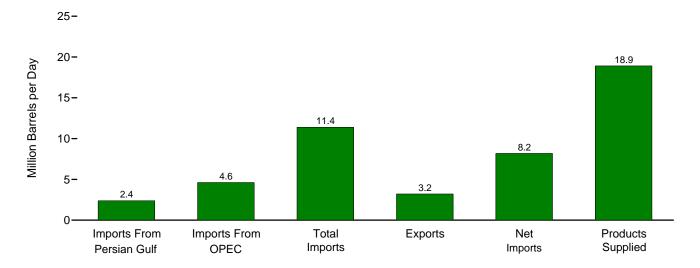
• 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports.

• 1981-2011: EIA, Petroleum Supply Annual, annual reports.

• 2012: EIA, Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

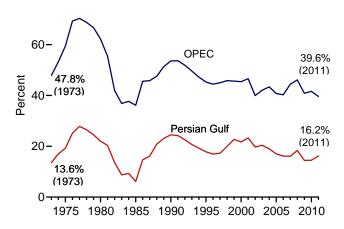
Figure 3.3a Petroleum Trade: Overview

Overview, June 2012

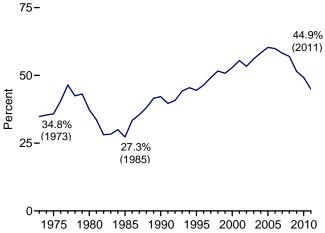


Imports From OPEC and Persian Gulf as Share of Total Imports, 1973-2011

80-

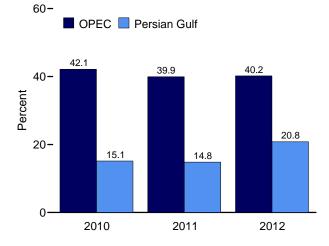


Net Imports as Share of Products Supplied, 1973-2011



Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.3a.

Imports From OPEC and Persian Gulf as Share of Total Imports, January-June



Net Imports as Share of Products Supplied, January-August

75-

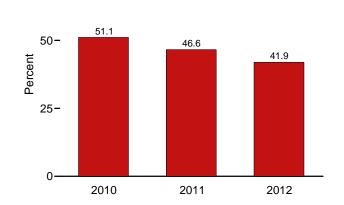


Table 3.3a Petroleum Trade: Overview

								As Sh Products	are of Supplied			nare of mports
	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Exports	Net Imports	Products Supplied	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Net Imports	Imports From Persian Gulf ^a	Imports From OPEC ^b
			Thousand Ba	rrels per Day	/				Per	rcent		
1973 Average	848	2,993	6,256	231	6,025	17,308	4.9	17.3	36.1	34.8	13.6	47.8
1975 Average	1,165	3,601	6,056	209	5,846	16,322	7.1	22.1	37.1	35.8	19.2	59.5
1980 Average	1,519	4,300	6,909	544 781	6,365	17,056	8.9	25.2	40.5 32.2	37.3	22.0 6.1	62.2
1985 Average 1990 Average	311 1,966	1,830 4,296	5,067 8.018	857	4,286 7,161	15,726 16,988	2.0 11.6	11.6 25.3	32.2 47.2	27.3 42.2	24.5	36.1 53.6
1995 Average	1,573	4,002	8,835	949	7,886	17,725	8.9	22.6	49.8	44.5	17.8	45.3
1996 Average	1,604	4,211	9,478	981	8,498	18,309	8.8	23.0	51.8	46.4	16.9	44.4
1997 Average	1,755	4,569	10,162	1,003	9,158	18,620	9.4	24.5	54.6	49.2	17.3	45.0
1998 Average	2,136	4,905	10,708	945	9,764	18,917	11.3	25.9	56.6	51.6	19.9	45.8
1999 Average	2,464	4,953	10,852	940	9,912	19,519	12.6	25.4	55.6	50.8	22.7	45.6
2000 Average 2001 Average	2,488 2,761	5,203 5,528	11,459 11,871	1,040 971	10,419 10,900	19,701 19,649	12.6 14.1	26.4 28.1	58.2 60.4	52.9 55.5	21.7 23.3	45.4 46.6
2002 Average	2,761	4,605	11,571	984	10,546	19,761	11.5	23.3	58.3	53.4	23.3 19.7	39.9
2003 Average	2,501	5,162	12,264	1,027	11,238	20,034	12.5	25.8	61.2	56.1	20.4	42.1
2004 Average	2,493	5,701	13,145	1,048	12,097	20,731	12.0	27.5	63.4	58.4	19.0	43.4
2005 Average	2,334	5,587	13,714	1,165	12,549	20,802	11.2	26.9	65.9	60.3	17.0	40.7
2006 Average	2,211	5,517	13,707	1,317	12,390	20,687	10.7	26.7	66.3	59.9	16.1	40.2
2007 Average 2008 Average	2,163 2,370	5,980 5,954	13,468 12,915	1,433 1,802	12,036 11,114	20,680 19,498	10.5 12.2	28.9 30.5	65.1 66.2	58.2 57.0	16.1 18.4	44.4 46.1
2009 Average	1,689	4,776	11,691	2,024	9,667	18,771	9.0	25.4	62.3	51.5	14.4	40.9
2010 January	1.563	4.554	11,300	1.897	9.404	18,652	8.4	24.4	60.6	50.4	13.8	40.3
2010 January February	1,565	4,659	11,230	2,034	9,404	18,850	8.8	24.4	59.6	48.8	14.8	41.5
March	1,842	5,084	11,621	2,149	9,472	19,099	9.6	26.6	60.8	49.6	15.9	43.7
April	2,026	5,376	12,526	2,432	10,093	19,044	10.6	28.2	65.8	53.0	16.2	42.9
May	1,724	5,055	12,141	2,399	9,742	18,866	9.1	26.8	64.4	51.6	14.2	41.6
June	1,972	5,297	12,444	2,304	10,140	19,537	10.1	27.1	63.7	51.9	15.8	42.6
July	1,679	5,178	12,675	2,516	10,159	19,319	8.7	26.8	65.6	52.6	13.2	40.8
August September	1,663 1,698	5,117 5,111	12,356 11,823	2,410 2,345	9,946 9,478	19,662 19,438	8.5 8.7	26.0 26.3	62.8 60.8	50.6 48.8	13.5 14.4	41.4 43.2
October	1,490	4,305	11,142	2,480	8,662	18,974	7.9	22.7	58.7	45.7	13.4	38.6
November	1,662	4,525	11,096	2,598	8,498	18,977	8.8	23.8	58.5	44.8	15.0	40.8
December	1,564	4,614	11,132	2,644	8,488	19,722	7.9	23.4	56.4	43.0	14.0	41.4
Average	1,711	4,906	11,793	2,353	9,441	19,180	8.9	25.6	61.5	49.2	14.5	41.6
2011 January	R 1,681	R 4,909	R 12,248	R 2,750	R 9,497	R 18,993	R 8.8	R 25.8	R 64.5	R 50.0	R 13.7	R 40.1
February	1,495	R 4,530	R 10,738	R 2,634	R 8,104	R 18,873	7.9	R 24.0	R 56.9	R 42.9	R 13.9	R 42.2
March	R 1,667	^R 4,638 ^R 4,548	R 11,850 R 11,808	R 2,733 R 3,071	^R 9,117 ^R 8,736	R 19,329 R 18,650	8.6 ^R 9.1	R 24.0 R 24.4	^R 61.3 ^R 63.3	^R 47.2 ^R 46.8	R 14.1 R 14.4	R 39.1 R 38.5
April May	1,704 ^R 1,844	R 4.619	R 11,808	R 2,735	R 9,131	R 18,479	10.0	R 25.0	R 64.2	R 49.4	R 15.5	R 38.9
June	2,033	R 4,894	R 11,877	R 2,716	R 9,161	R 19,253	R 10.6	^R 25.4	^R 61.7	R 47.6	^R 17.1	R 41.2
July	2,167	R 4,939	R 11,757	R 3,053	R 8,704	R 18,778	R 11.5	R 26.3	^R 62.6	R 46.4	^R 18.4	R 42.0
August	1,910	R 4,656	R 11,227	R 3,002	R 8,224	R 19,415	^R 9.8	^R 24.0	R 57.8	R 42.4	R 17.0	R 41.5
September	2,039	4,326	R 11,270	R 3,174	R 8,095	R 18,891	10.8	R 22.9	R 59.7	R 42.9	R 18.1	R 38.4
October November	1,904 1.944	R 4,296 R 4,206	R 11,053 R 11,217	R 3,107 R 3,159	R 7,946 R 8.059	R 18,844 R 19.080	R 10.1 R 10.2	R 22.8 R 22.0	^R 58.7 ^R 58.8	R 42.2 R 42.2	^R 17.2 ^R 17.3	^R 38.9 ^R 37.5
December	1,944	R 4,093	R 11,064	R 3,667	R 7,397	R 18,803	R 10.2	21.8	R 58.8	R 39.3	R 17.4	R 37.0
Average	R 1,861	R 4,555	R 11,504	R 2,986	R 8,518	R 18,949	R 9.8	R 24.0	R 60.7	R 44.9	R 16.2	R 39.6
2012 January	2,208	4,203	10,944	2,839	8,104	18,280	12.1	23.0	59.9	44.3	20.2	38.4
February	1,948	3,986	10,464	2,980	7,484	18,760	10.4	21.2	55.8	39.9	18.6	38.1
March	2,222	4,314	10,610	3,064	7,547	18,213	12.2	23.7	58.3	41.4	20.9	40.7
April	2,228	4,394	10,634	3,263	7,370	18,330	12.2	24.0	58.0	40.2	21.0	41.3
May	2,560	4,672	11,132	3,194	7,939	18,707	13.7	25.0	59.5	42.4 P 42.2	23.0	42.0 P 40.5
June	R 2,376	R 4,618	R 11,393 E 10,895	R 3,209 E 2,880	R 8,184 E 8,015	R 18,915 E 18,876	R 12.6	R 24.4	^R 60.2 ^E 57.7	R 43.3 E 42.5	R 20.9	R 40.5
July August	NA NA	NA NA	E 10,895	E 2,865	E 7,916	E 19,152	NA NA	NA NA	E 56.3	E 41.3	NA NA	NA NA
8-Month Average	NA NA	NA NA	E 10,781	E 3,036	E 7,823	E 18,654	NA NA	NA NA	E 58.2	E 41.9	NA NA	NA NA
2011 8-Month Average 2010 8-Month Average	1,816 1,766	4,719 5,042	11,681 12,043	2,839 2,270	8,842 9,773	18,973 19,131	9.6 9.2	24.9 26.4	61.6 63.0	46.6 51.1	15.5 14.7	40.4 41.9

District of Columbia. U.S. exports include shipments to U.S. territories, and imports include receipts from U.S. territories.

Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/.

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2011: EIA, Petroleum Supply Annual, annual reports. • 2012: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations. system calculations.

a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. See Table 3.3c for notes on which countries are included in the data.

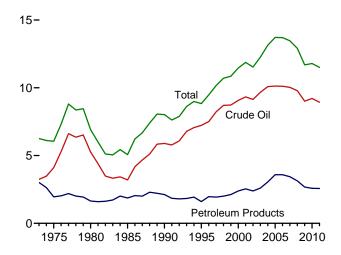
R=Revised. E=Estimate. NA=Not available.

Notes: ● Readers of this table may be interested in a feature article, "Measuring Dependence on Imported Oil," that was published in the August 1995 Monthly Energy See http://www.eia.gov/totalenergy/data/monthly/pdf/historical/imported_oil.pdf.

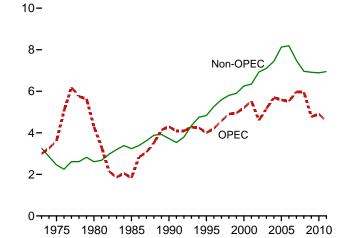
• Beginning in October 1977, data include Strategic Petroleum Reserve imports. See Table 3.3b. ◆ Annual averages may not equal average of months due to independent rounding. ● U.S. geographic coverage is the 50 States and the

Figure 3.3b Petroleum Trade: Imports (Million Barrels per Day)

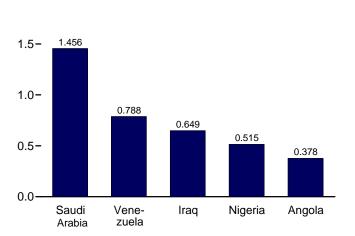
Overview, 1973-2011



OPEC and Non-OPEC, 1973-2011

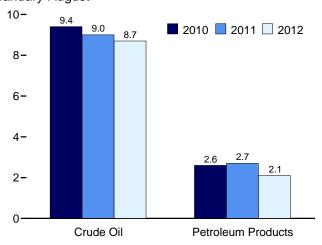


From Selected OPEC Countries, June 2012

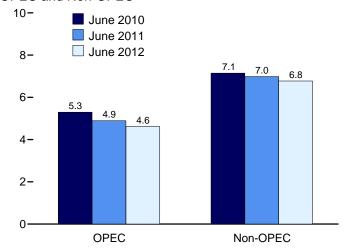


Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.3b–3.3d.

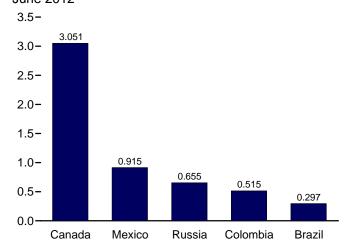
Crude Oil and Petroleum Products, January-August



OPEC and Non-OPEC



From Selected Non-OPEC Countries, June 2012



2.0-

Table 3.3b Petroleum Trade: Imports and Exports by Type

					lm	ports						Exports	;
	Cruc	de Oil ^a	D: . (''' - (.		LPG	b							
	SPR ^{c,d}	Total	Distillate Fuel Oil	Jet Fuel ^e	Propane ^f	Total	Motor Gasoline ^g	Residual Fuel Oil	Otherh	Total	Crude Oil ^a	Petroleum Products	Total
973 Average		3,244	392	212	71	132	134	1,853	290	6,256	2	229	231
975 Average		4.105	155	133	60	112	184	1,223	144	6,056	6	204	209
980 Average	44	5,263	142	80	69	216	140	939	130	6,909	287	258	544
985 Average	118	3,201	200	39	67	187	381	510	550	5,067	204	577	781
	27	5,894	278	108	115	188	342	504	705		109	748	857
990 Average										8,018			
995 Average	-	7,230	193	106	102	146	265	187	708	8,835	95	855	949
996 Average	-	7,508	230	111	119	166	336	248	879	9,478	110	871	981
997 Average	-	8,225	228	91	113	169	309	194	945	10,162	108	896	1,003
998 Average	-	8,706	210	124	137	194	311	275	888	10,708	110	835	945
999 Average	8	8,731	250	128	122	182	382	237	943	10,852	118	822	940
000 Average	8	9,071	295	162	161	215	427	352	938	11,459	50	990	1,040
001 Average	11	9.328	344	148	145	206	454	295	1.095	11.871	20	951	971
002 Average	16	9,140	267	107	145	183	498	249	1.085	11,530	9	975	984
003 Average		9,665	333	109	168	225	518	327	1,087	12,264	12	1,014	1,027
04 Average	77	10.088	325	127	209	263	496	426	1,419	13,145	27	1.021	1.048
05 Average	52	10,000	329	190	233	328	603	530	1,609	13,714	32	1,133	1,165
06 Average	8	10,120	365	186	233	332	475	350	1,881	13,707	25	1,133	1,317
	7	10,116	303	217	182	247	413	372	1,885	13,707	27	1,405	1,43
07 Average													
08 Average	19	9,783	213	103	185	253	302	349	1,913	12,915	29	1,773	1,802
09 Average	56	9,013	225	81	147	182	223	331	1,635	11,691	44	1,980	2,024
10 January	-	8,492	462	131	192	225	179	376	1,435	11,300	33	1,864	1,897
February	-	8,761	293	75	217	242	196	382	1,282	11,230	58	1,976	2,034
March	_	9,341	179	79	137	155	120	376	1,370	11,621	45	2,104	2,149
April	_	9,726	220	88	79	102	178	480	1,732	12,526	37	2,396	2,432
May	_	9.655	189	81	82	108	107	404	1.599	12,141	36	2,363	2.399
June	_	9,927	237	114	73	113	163	283	1,607	12,444	31	2,273	2,304
July	_	9,932	170	113	56	104	114	400	1,841	12,675	69	2.447	2,516
August	_	9.543	246	103	62	107	129	330	1,899	12,356	36	2.374	2,410
Contombor	_	9,229	189	122	85	124	130	367	1,662	11,823	61	2,283	2.345
September	_	8,540						337	1,758		23		2,340
October			163	94	131	165	86			11,142		2,457	
November	-	8,699	178	101	132	165	117	345	1,491	11,096	32	2,567	2,598
December	-	8,695	219	73	214	231	99	315	1,501	11,132	40	2,604	2,644
Average	-	9,213	228	98	121	153	134	366	1,600	11,793	42	2,311	2,35
11 January	-	R 9,183	R 337	65	R 235	R 290	R 102	R 411	R 1,860	R 12,248	72	R 2,678	R 2,750
February	-	^R 8,184	206	68	R 220	R 266	119	R 364	R 1,532	R 10,738	30	R 2,604	R 2,63
March	_	^R 9,183	190	65	R 205	R 260	135	R 378	R 1,639	R 11,850	36	R 2,696	R 2,73
April	_	R 8,839	R 191	80	R 141	R 177	138	R 424	R 1,959	R 11,808	41	R 3,031	R 3,07
May	_	R 9.059	R 170	91	^R 118	R 160	137	^R 306	R 1,942	R 11,866	37	R 2,698	R 2,73
June	_	R 9,235	^R 127	82	R 115	R 160	130	R 353	R 1.789	R 11,877	36	^R 2.680	R 2.71
July	_	R 9,276	R 157	95	R 115	R 157	92	246	R 1,733	R 11,757	73	R 2,980	R 3,05
August	_	R 8.936	148	66	R 123	R 167	106	R 231	R 1,573	R 11,227	34	R 2,969	R 3,00
September	_	R 8.914	R 179	58	R 141	R 176	99	R 277	R 1,567	R 11,270	35	R 3,139	R 3,17
October	_	R 8,907	R 128	61	R 129	R 166	66	R 286	R 1.440	R 11,053	51	R 3,057	R 3,10
	_	R 8,724	R 138	72	R 152	R 191	74	R 341	R 1,677	R 11,053	64	R 3,094	R 3.15
November	_		R 175		15Z	R 258		R 330	1,0// R 4 500	11,211 R44.064		3,094 R 2 644	
December	_	R 8,711		21	^R 210 ^R 158	728 B 303	60	330 B 330	R 1,509	R 11,064	53 47	R 3,614	R 3,66
Average	-	R 8,935	R 179	69	1138	R 202	105	R 328	R 1,686	R 11,504	47	R 2,939	R 2,98
12 January	-	8,572	156	6	145	168	99	305	1,637	10,944	56	2,783	2,83
February	-	8,558	142	41	125	155	46	226	1,296	10,464	59	2,921	2,98
March	-	8,767	136	5	108	136	91	271	1,205	10,610	60	3,004	3,06
April	-	8,591	98	56	102	129	53	240	1,466	10,634	32	3,231	3,26
May	-	8,909	111	49	172	218	60	251	1,534	11,132	69	3,124	3,19
June	_	R 9,101	R 87	R 42	R 133	R 170	R 66	R 325	R 1,602	R 11,393	R 46	R 3,163	R 3,20
July	_	E 8.874	€ 96	E 31	E 86	NA	E 48	E 243	NA	E 10,895	E 40	E 2,841	E 2,88
August	_	E 8.613	E 113	E 70	E 83	NA	E 31	E 248	NA	E 10,781	E 40	E 2,825	E 2,86
8-Month Average	_	E 8,749	E 117	E 37	E 119	NA	E 62	E 264	NA	E 10,859	E 50	E 2,985	E 3,03
											1		
11 8-Month Average	_	8.996	191	77	159	204	120	338	1,755	11,681	45	2,794	2,839

Includes lease condensate.

naphtha-type jet fuel.
R=Revised. E=Estimate. NA=Not available. - - =Not applicable. - =No data reported. Notes:

Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Pages: • For all available data beginning in 1973, see

Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/.

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2011: EIA, Petroleum Supply Annual, annual reports. • 2012: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations. system calculations.

a Includes lease condensate.
b Liquefied petroleum gases.
c "SPR" is the Strategic Petroleum Reserve, which began in October 1977.
Through 2003, includes crude oil imports by SPR only; beginning in 2004, includes crude oil imports by SPR, and crude oil imports into SPR by others.
d See Note 6, "Petroleum Data Discrepancies," at end of section.
e Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other"

nter.

f Includes propylene.

Finished motor gasoline. Through 1980, also includes motor gasoline

blending components.

^h Asphalt and road oil, finished aviation gasoline, gasoline blending components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, unfinished oils, waxes, other hydrocarbons and oxygenates, and miscellaneous products. Beginning in 2005, also includes

Table 3.3c Petroleum Trade: Imports From OPEC Countries

	Algeria	Angola ^a	Ecuadorb	Iraq	Kuwait ^c	Libya	Nigeria	Saudi Arabia ^c	Vene- zuela	Otherd	Total OPEC
1072 Average	136	(a)	48	4	47	164	459	486	1,135	514	2,993
1973 Average	282	(a)	57	2	16	232	762	715	702	832	3,601
1975 Average	488	(a)	27	28	27	554	857	1,261	702 481	577	4,300
1980 Average		(a)	67	46	21		293	1,201	605	439	
1985 Average	187 280	(a)	67 49	518	21 86	4 0	293 800	1.339	1.025	439 199	1,830
1990 Average		(a)	(b)			-					4,296
1995 Average	234	(a)	(b)	0	218	0	627	1,344	1,480	98	4,002
1996 Average	256	(a)		1	236	0	617	1,363	1,676	62	4,211
1997 Average	285		(b)	89	253	0	698	1,407	1,773	64	4,569
1998 Average	290	(a)	(b)	336	301	0	696	1,491	1,719	73	4,905
1999 Average	259	(a)	()	725	248	0	657	1,478	1,493	93	4,953
2000 Average	225	(a)	(b)	620	272	0	896	1,572	1,546	72	5,203
2001 Average	278	(a)	(b)	795	250	0	885	1,662	1,553	105	5,528
2002 Average	264	(a)	(b)	459	228	0	621	1,552	1,398	83	4,605
2003 Average	382	(a)	(b)	481	220	0	867	1,774	1,376	61	5,162
2004 Average	452	(a)	(b)	656	250	20	1,140	1,558	1,554	70	5,701
2005 Average	478	(a)	(b)	531	243	56	1,166	1,537	1,529	47	5,587
2006 Average	657	(a)	(b)	553	185	87	1,114	1,463	1,419	38	5,517
2007 Average	670	`5ó8	(b)	484	181	117	1,134	1,485	1,361	39	5,980
2008 Average	548	513	`221	627	210	103	988	1,529	1,189	26	5,954
2009 Average	493	460	185	450	182	79	809	1,004	1,063	50	4,776
2010 January	498	280	215	523	77	40	1,048	963	911	_	4,554
February	498	360	152	540	228	40	932	898	1,010	_	4,659
March	455	502	183	475	218	79	962	1,149	1,061	_	5,084
April	464	509	225	490	278	142	1,060	1,257	951	_	5,376
May	518	448	182	394	225	39	1,026	1,097	1,117	10	5,055
June	550	425	245	630	217	98	1.108	1,125	899	-	5,297
July	518	374	239	430	189	110	1,174	1,053	1,084	7	5,178
August	565	484	276	281	251	123	985	1,132	1,022		5,117
September	543	417	229	422	172	43	1,174	1,093	1,008	10	5,111
October	451	324	203	143	215	36	872	1,131	930	-	4,305
	572	276	194	340	170	23	856	1,151	942	_	4,505
November				336						9	
December	484	319	192		125	66	1,070	1,093	917		4,614
Average	510	393	212	415	197	70	1,023	1,096	988	3	4,906
2011 January	565 P 400	316	R 238	R 433	147	57 P.00	R 1,022	R 1,101	1,030	-	R 4,909
February	R 406	370	R 255	263	118	R 36	978	1,114	989	_	R 4,530
March	500	280	R 182	R 398	161	R 32	913	1,108	R 1,065	_	R 4,638
April	_ 466	277	R 169	ຼ519	78	R 1	922	1,107	R 1,009	-	R 4,548
May	R 391	356	R 158	R 422	200	(s)	854	1,203	R 1,016	19	R 4,619
June	R 297	373	219	559	238	35	853	1,169	R 1,084	68	R 4,894
July	354	407	172	596	228	-	884	1,326	R 954	18	R 4,939
August	298	331	309	637	165	1	892	1,075	^R 914	32	^R 4,656
September	291	304	305	404	145	2	580	1,479	806	11	4,326
October	173	R 439	178	490	278	2	^R 693	1,120	R 906	17	R 4,296
November	260	R 340	181	395	302	10	703	1,222	^R 767	26	R 4,206
December	297	357	106	380	231	9	534	1,310	R 868	_	R 4,093
Average	358	346	R 206	R 459	191	15	R 818	1,195	R 951	16	^R 4,555
2012 January	269	370	100	390	352	5	504	1,423	750	41	4,203
February	256	230	244	271	252	29	353	1,420	931	_	3,986
March	325	175	174	386	462	60	374	1,374	984	_	4,314
April	259	253	201	395	235	68	483	1,589	904	7	4,394
May	303	256	199	675	407	65	428	1.471	861	7	4.672
June	236	378	236	649	250	93	515	1,456	788	17	4,618
6-Month Average	275	277	191	462	328	53	443	1,455	869	12	4,367
2011 6-Month Average	439	328	203	434	158	27	923	1,134	1,033	15	4,692
2010 6-Month Average	497	421	201	508	206	73	1,023	1,083	992	2	5,006

refined products imported from West European refining areas may have been produced from Middle East crude oil. • Includes imports for the Strategic Petroleum Reserve, which began in October 1977. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Pages: • For all available data beginning in 1973, see

web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2011: EIA, Petroleum Supply Annual, annual reports. • 2012: EIA, Petroleum Supply Monthly, monthly reports.

Angola joined OPEC in January 2007. For 1973-2006, Angola is included in "Total Non-OPEC" on Table 3.3d.
 Ecuador was a member of OPEC from 1973-1992, and rejoined OPEC in November 2007. For 1993-2007, Ecuador is included in "Total Non-OPEC" on Table 2017.

November 2007. For 1993-2007, Ecuador is included in "Total Non-OPEC" on Table 3.3d.

^c Imports from the Neutral Zone are reported as originating in either Saudi Arabia or Kuwait depending on the country reported to U.S. Customs.

^d For all years, includes Iran, Qatar, and United Arab Emirates. For 1973-2008, also includes Indonesia; and for 1975-1994, also includes Gabon.

R=Revised. — =No data reported. (s)=Less than 500 barrels per day.

Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. Petroleum imports not classified as "OPEC" on this table are included on Table 3.3d. • The country of origin for petroleum exposures the the country. Table 3.3d. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example,

Table 3.3d Petroleum Trade: Imports From Non-OPEC Countries

	Brazil	Canada	Colombia	Mexico	Nether- lands	Norway	Russia ^a	United Kingdom	U.S. Virgin Islands	Other	Total Non-OPEC
1973 Average	9	1,325	9	16	53	1	26	15	329	1.480	3,263
1975 Average	5	846	9	71	19	17	14	14	406	1,052	2,454
1980 Average	3	455	4	533	2	144	1	176	388	903	2,609
1985 Average	61	770	23	816	- 58	32	8	310	247	913	3,237
1990 Average	49	934	182	755	55	102	45	189	282	1,128	3,721
1995 Average	8	1,332	219	1.068	15	273	25	383	278	1,233	4.833
1996 Average	9	1,424	234	1,244	19	313	25	308	313	1,377	5,267
1997 Average	5	1,563	271	1,385	25	309	13	226	300	1,495	5,593
1998 Average	26	1,598	354	1,351	31	236	24	250	293	1,640	5,803
1999 Average	26	1,539	468	1,324	27	304	89	365	280	1,478	5,899
2000 Average	51	1,807	342	1,373	30	343	72	366	291	1,581	6,257
2001 Average	82	1,828	296	1,440	43	341	90	324	268	1,631	6,343
2002 Average	116	1,971	260	1,547	66	393	210	478	236	1,649	6,925
2003 Average	108	2,072	195	1,623	87	270	254	440	288	1,766	7,103
2004 Average	104	2,138	176	1,665	101	244	298	380	330	2,008	7,444
2005 Average	156	2,181	196	1,662	151	233	410	396	328	2,413	8,127
2006 Average	193	2,353	155	1,705	174	196	369	272	328	2,446	8.190
2007 Average	200	2,455	155	1,532	128	142	414	277	346	1,839	7,489
2008 Average	258	2,493	200	1,302	168	102	465	236	320	1,416	6,961
2009 Average	309	2,479	276	1,210	140	108	563	245	277	1,307	6,915
2010 January	353	2,596	322	1,133	116	126	463	282	298	1,057	6,747
February	226	2,491	386	1,137	126	99	423	413	196	1,074	6,571
March	306	2,505	251	1,306	136	59	494	267	235	977	6,538
April	318	2,472	423	1,282	89	166	587	304	331	1,178	7,149
May	319	2,528	315	1,428	108	119	719	176	195	1,180	7,087
June	308	2,717	407	1,211	87	52	760	269	246	1,090	7,146
July	332	2,549	404	1,289	207	119	719	351	239	1,287	7,497
August	251	2,489	372	1,282	137	57	786	266	301	1,298	7,239
September	181	2,479	363	1,254	45	62	648	178	302	1,200	6,712
October	169	2,347	422	1,347	108	111	655	152	270	1,255	6,837
November	198	2,513	492	1,363	57	79	561	187	234	886	6,571
December	295	2,736	231	1,365	71	26	514	236	191	855	6,518
Average	272	2,535	365	1,284	108	89	612	256	253	1,112	6,887
2011 January	R 263	R 3,004	R 355	_ 1,366	101	85	^R 558	155	_ 276	R 1,176	R 7,338
February	^R 179	R 2,997	R 258	R 1,103	129	69	437	_ 110	^R 179	749	R 6,209
March	R 165	R 2,819	R 427	1,319	91	156	690	R 198	149	R 1,198	^R 7,211
April	^R 228	R 2,755	^R 548	_ 1,077	_ 133	167	_ 704	^R 193	179	R 1,275	^R 7,260
May	R 298	R 2,564	433	R 1,303	^R 129	101	^R 684	R 245	194	R 1,296	^R 7,247
June	R 283	R 2,586	309	1,222	175	93	689	146	151	R 1,330	R 6,983
July	R 330	R 2,691	^R 418	1,197	80	58	^R 564	175	192	R 1,113	^R 6,818
August	R 239	R 2,688	395	1,185	81	87	585	125	185	R 1,001	^R 6,571
September	^R 190	R 2,880	529	1,192	64	97	592	124	189	R 1,087	R 6,943
October	R 190	R 2,719	578	1,177	23	180	687	150	151	R 902	R 6,757
November	R 245	R 2,858	424	1,256	96	174	737	125	177	^R 918	^R 7,011
December	R 417	R 3,009	508	1,064	101	88	552	162	214	R 857	^R 6,971
Average	R 253	R 2,796	R 433	R 1,206	100	113	R 624	R 159	R 186	R 1,077	^R 6,948
2012 January	321	3,008	431	1,114	101	46	572	168	96	884	6,740
February	286	3,048	472	1,081	92	163	288	127	28	894	6,478
March	356	2,931	482	1,004	143	87	326	187	1	779	6,296
April	237	2,931	472	1,002	84	51	388	204	12	858	6,239
May	215	3,018	430	996	121	95	550	143	2	891	6,460
June	297	3,051	515	915	151	82	655	205	(s)	904	6,775
6-Month Average	285	2,998	467	1,019	116	87	464	172	23	868	6,498
2011 6-Month Average 2010 6-Month Average	237 306	2,785 2,552	390 349	1,235 1,251	126 110	112 103	629 576	176 283	188 251	1,176 1,093	7,054 6,875

^a Through 1992, may include imports from republics other than Russia in the former U.S.S.R. See "Union of Soviet Socialist Republics (U.S.S.R.)" in Glossary. R=Revised.

Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary for membership. Petroleum imports not classified as "OPEC" on Table 3.3c are included on this table. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil. • Includes imports for the Strategic Petroleum Reserve, which began in October 1977. • Totals may not

equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

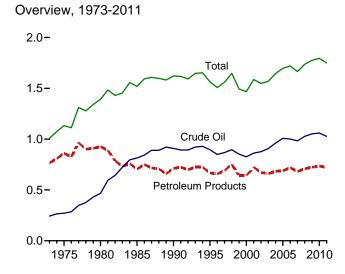
Web Pages: • For all available data beginning in 1973, see

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2011: EIA, Petroleum Supply Annual, annual reports. • 2012: EIA, Petroleum Supply Monthly, monthly reports.

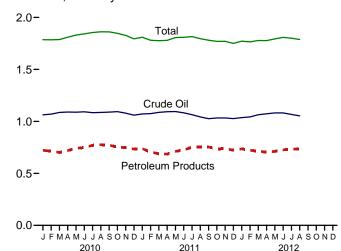
Web Pages:
• For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum.
• For related information, see http://www.eia.gov/petroleum/.

Figure 3.4 Petroleum Stocks

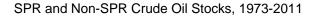
(Billion Barrels, Except as Noted)

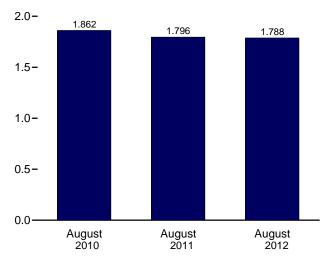


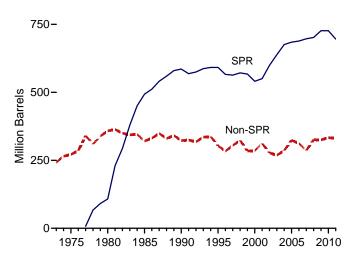
Overview, Monthly



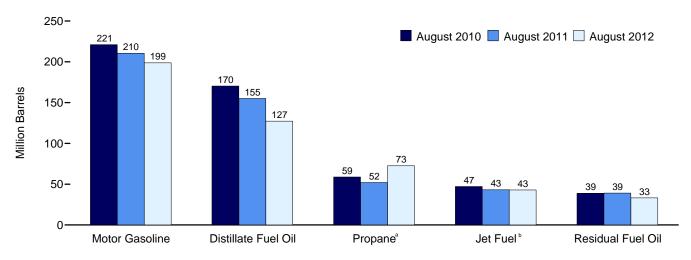
Total Stocks (Crude Oil and Petroleum Products)







Selected Products



^a Includes propylene.

Notes: • SPR=Strategic Petroleum Reserve. • Stocks are at end of

period

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.4.

^b Includes kerosene-type jet fuel only.

Table 3.4 Petroleum Stocks

(Million Barrels)

		Crude Oila				LPG	3 b				
	SPR ^C	Non-SPR ^{d,e,f}	Total ^{e,f}	Distillate Fuel Oil ^{f,g}	Jet Fuel ^h	Propane ^{f,i}	Total ^f	Motor Gasoline ^{f,j}	Residual Fuel Oil ^f	Other ^k	Total ^f
1973 Year		242	242	196	29	65	99	209	53	179	1,008
1975 Year		271	271	209	30	82	125	235	74	188	1,133
1980 Year	108	358	466	205	42	65	120	261	92	205	1,392
1985 Year	493	321	814	144	40	39	74	223	50	174	1,519
1990 Year	586	323	908 895	132 130	52 40	49 43	98	220 202	49 37	162	1,621
1995 Year	592 566	303 284	850	130	40 40	43 43	93 86	202 195	37 46	165 164	1,563 1,507
1996 Year 1997 Year	563	204 305	868	138	40 44	43 44	89	210	40	169	1,560
1998 Year	571	324	895	156	45	65	115	216	45	176	1,647
1999 Year	567	284	852	125	41	43	89	193	36	157	1,493
2000 Year	541	286	826	118	45	41	83	196	36	164	1,468
2001 Year	550	312	862	145	42	66	121	210	41	166	1,586
2002 Year	599	278	877	134	39	53	106	209	31	152	1,548
2003 Year	638	269	907	137	39	50	94	207	38	147	1,568
2004 Year	676	286	961	126	40	55	104	218	42	153	1,645
2005 Year	685	324	1,008	136	42	57	109	208	37	157	1,698
2006 Year	689	312	1,001	144 134	39 39	62	113	212	42 39	169	1,720
2007 Year 2008 Year	697 702	286 326	983 1.028	146	38	52 55	96 113	218 214	39 36	156 162	1,665 1.737
2009 Year	727	325	1,052	166	43	50	102	223	37	153	1,776
2010 January	727	337	1,063	164	44	35	80	232	40	162	1,786
February	727	343	1,070	155	44	28	70	235	41	170	1,785
March	727	359	1,086	147	42	28	73	225	41	174	1,787
April	727	363	1,090	145	44	35	89	220	44	178	1,810
May	727	362	1,089	150	45	42 49	105	218	46 43	178	1,830
June	727 727	365 358	1,092 1,084	158 167	45 47	49 55	120 130	216 220	43 41	169 166	1,842 1,855
July August	727	359	1,086	170	47	59	139	221	39	159	1,862
September	727	363	1,089	167	47	61	141	219	40	158	1,861
October	727	368	1.094	162	44	61	138	210	41	158	1,847
November	727	352	1,079	162	44	61	131	213	41	158	1,827
December	727	333	1,060	164	43	49	108	219	41	158	1,794
2011 January	727 727	^R 345 ^R 348	R 1,072 R 1,075	^R 163 154	^R 42 39	35 ^R 27	^R 87 ^R 73	R 236 R 230	39 35	^R 171 ^R 174	R 1,809 R 1,780
February March	727 727	R 360	R 1,075	154	39 40	24	R 71	215	35 R 38	R 174	R 1,780
April	727	R 367	R 1,093	143	R 38	28	R 81	R 204	R 40	R 180	R 1,776
May	727	R 368	R 1,095	145	41	34	R 93	214	R 38	R 181	R 1,807
June	727	R 356	R 1.082	144	42	40	R 107	215	R 38	R 180	R 1,809
July	718	^R 346	R 1,065	^R 154	44	47	^R 121	^R 215	^R 38	^R 179	R 1,816
August	696	R 347	R 1,043	^R 155	43	52	R 132	R 210	39	_ 173	R 1,796
September	696	R 330	R 1,026	R 153	46	57	R 135	R 215	35	R 171	1,781
October	696	R 337	R 1,033	R 142	R 45	60	R 135	R 207	37	R 170	R 1,769
November	696	R 337	R 1,033	144 R 149	42 R 41	59	^R 126 ^R 112	R 220 R 223	39 34	167	R 1,770
December	696	331	1,027			55				164	R 1,750
2012 January	696 696	340 347	1,036 1,043	149 139	42 41	48 43	101 96	235 231	34 36	175 179	1,772 1.765
March	696	368	1.064	134	39	45	102	219	36	184	1,703
April	696	377	1,073	125	40	50	116	211	34	179	1,777
May	696	386	1,082	122	40	56	133	205	33	179	1,794
June	_ 696	^R 386	R 1,082	R 120	_ 38	^R 62	R 147	R 208	^R 37	R 176	R 1,808
July	E 696	<u> </u>	E 1,067	E 124	E 40	<u> </u>	RF 162	E 207	E 35	RE 166	E 1,801
August	E 696	E 357	E 1,053	E 127	E 43	E 73	^F 172	E 199	E 33	E 161	E 1,788

Includes lease condensate.

components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, unfinished oils, waxes, miscellaneous products, oxygenates, renewable fuels, and other hydrocarbons. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. --=Not applicable.

Notes: • Stocks are at end of period. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
Web Pages: • F

For all available data beginning in 1973, see

Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/.

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2011: EIA, Petroleum Supply Annual, annual reports. • 2012: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

b Liquefied petroleum gases.
 c "SPR" is the Strategic Petroleum Reserve, which began in October 1977.
 Crude oil stocks in the SPR include non-U.S. stocks held under foreign or commercial storage agreements.

d All crude oil stocks other than those in "SPR."

Beginning in 1981, includes stocks of Alaskan crude oil in transit. See Note 5, "Stocks of Alaskan Crude Oil," at end of section.

f See Note 4, "Petroleum New Stock Basis," at end of section.

⁹ Excludes stocks in the Northeast Heating Oil Reserve. Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
^h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in

^{2005,} includes kerosene-type jet fuel only; naphtha-type jet fuel is included in

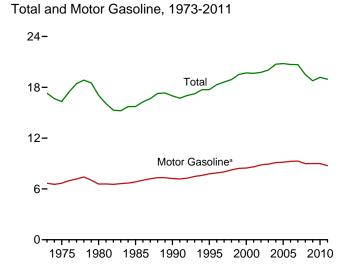
i Includes propylene.

i Includes finished motor gasoline and motor gasoline blending components;

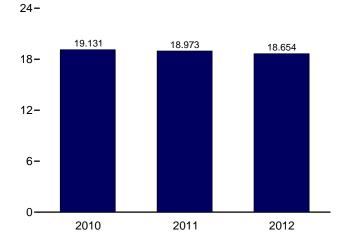
excludes oxygenates.

^k Asphalt and road oil, aviation gasoline, aviation gasoline blending

Figure 3.5 Petroleum Products Supplied by Type (Million Barrels per Day)



Total, January-August

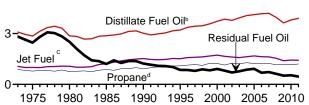


Selected Products, 1973-2011

12-

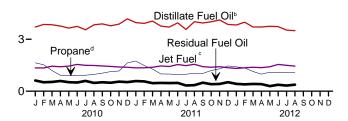
Selected Products, Monthly 12-





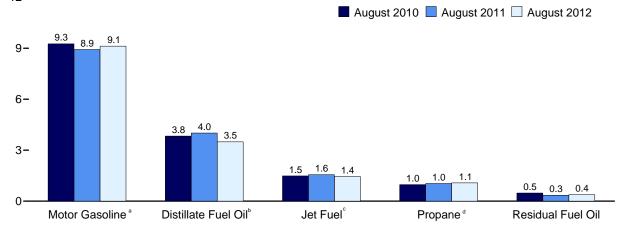


6-



Selected Products

12-



^a Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Note: SPR=Strategic Petroleum Reserve.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.5.

^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

 $^{^{\}circ}$ Beginning in 2005, includes kerosene-type jet fuel only.

^d Includes propylene.

Table 3.5 Petroleum Products Supplied by Type

	I		er Day)					I					1
	Asphalt and	Aviation	Distillate	Jet	Kero-	LPG		Lubri-	Motor	Petro- leum	Residual	,	
	Road Oil	Gasoline	Fuel Oil ^b	Fuelc	sene	Propaned	Total	cants	Gasoline	Coke	Fuel Oil	Other ^f	Total
1973 Average	522	45	3,092	1,059	216	872	1,449	162	6,674	261	2,822	1,005	17,308
1975 Average	419	39	2,851	1,001	159	783	1,333	137	6,675	247	2,462	1,001	16,322
1980 Average	396	35	2,866	1,068	158	754	1,469	159	6,579	237	2,508	1,581	17,056
1985 Average	425	27	2,868	1,218	114	883	1,599	145	6,831	264	1,202	1,032	15,726
1990 Average	483	24	3,021 3,207	1,522	43 54	917	1,556	164	7,235	339	1,229	1,373	16,988
1995 Average	486 484	21 20	3,365	1,514 1,578	62	1,096 1,136	1,899 2,012	156 151	7,789 7.891	365 379	852 848	1,381 1,518	17,725 18,309
1996 Average 1997 Average	505	20	3,435	1,576	66	1,170	2,012	160	8,017	377	797	1,605	18,620
1998 Average	521	19	3,461	1,622	78	1,120	1,952	168	8,253	447	887	1,508	18,917
1999 Average	547	21	3,572	1,673	73	1,246	2,195	169	8,431	477	830	1,532	19,519
2000 Average	525	20	3,722	1,725	67	1,235	2,231	166	8,472	406	909	1,458	19,701
2001 Average	519	19	3,847	1,655	72	1,142	2,044	153	8,610	437	811	1,481	19,649
2002 Average	512	18	3,776	1,614	43	1,248	2,163	151	8,848	463	700	1,474	19,761
2003 Average	503	16	3,927	1,578	55	1,215	2,074	140	8,935	455	772	1,579	20,034
2004 Average	537	17	4,058	1,630	64	1,276	2,132	141	9,105	524	865	1,657	20,731
2005 Average	546	19	4,118	1,679	70	1,229	2,030	141	9,159	515	920	1,605	20,802
2006 Average	521	18	4,169	1,633	54	1,215	2,052	137	9,253	522	689	1,640	20,687
2007 Average	494	17	4,196	1,622	32	1,235	2,085	142	9,286	490	723	1,593	20,680
2008 Average	417 360	15 14	3,945 3,631	1,539 1,393	14 18	1,154 1,160	1,954 2,051	131 118	8,989 8,997	464 427	622 511	1,408 1,251	19,498 18,771
2009 Average									,				
2010 January	203	10	3,701	1,344	15	1,638	2,644	116	8,520	268	615	1,218	18,652
February	249	10	3,854	1,343	34	1,526	2,531	137	8,579	334	515	1,263	18,850
March	264	14	3,835	1,443	11	1,193	2,225	138	8,793	425	531	1,421	19,099
April	331	17	3,759	1,410	7	916	1,843	132	9,108	385	590	1,463	19,044
May	378 517	15 18	3,639 3,743	1,446 1,543	11 16	891 901	1,878 1,938	128 155	9,162 9,311	339 411	519 500	1,351 1,386	18,866 19,537
June July	470	20	3,544	1,494	19	915	1,938	141	9,301	385	595	1,373	19,337
August	537	14	3,830	1,486	9	973	2,025	129	9,255	434	476	1,467	19,662
September	463	20	3,886	1,457	8	1,040	2,084	136	9,112	433	513	1,326	19,438
October	434	15	3,773	1,430	15	1,135	2,126	127	9,016	335	489	1,215	18,974
November	295	11	3,873	1,396	46	1,168	2,141	125	8,816	389	552	1,333	18,977
December	204	12	4,176	1,383	50	1,634	2,677	113	8,911	371	525	1,301	19,722
Average	362	15	3,800	1,432	20	1,160	2,173	131	8,993	376	535	1,343	19,180
2011 January	R 221	R 11	R 3,958	R 1,346	R 19	R 1,743	R 2,757	R 124	R 8,370	R 361	R 582	R 1,244	R 18,993
February	248 ^R 282	^R 14 ^R 18	R 3,913	R 1,352	^R 50 ^R 26	R 1,485	R 2,527	121	R 8,604	R 293 R 348	R 566	^R 1,185 ^R 1.405	R 18,873
March	R 311	R 10	^R 4,045 ^R 3,755	R 1,385 R 1,457	°26 R 8	R 1,277 R 996	R 2,410 R 2,043	^R 150 ^R 136	^R 8,799 ^R 8,796	R 355	^R 462 ^R 477	R 1,301	R 19,329 R 18,650
April May	R 357	18	R 3,699	R 1.424	(s)	R 989	R 2.077	R 122	R 8.817	R 414	R 468	R 1.082	R 18,479
June	R 454	17	R 3,947	R 1,540	4	R 958	R 2,027	R 125	R 9,067	R 379	R 479	R 1,213	R 19,253
July	R 465	R 19	R 3,564	R 1,473	9	R 976	R 2,039	R 119	R 9,031	R 368	R 329	R 1.363	R 18,778
August	R 545	18	R 4,009	R 1,554	5	R 1,040	R 2,102	R 137	R 8,925	R 461	R 347	R 1,311	R 19,415
September	462	13	R 3,936	R 1,416	^R 8	R 1,021	R 2,050	^R 125	R 8,744	R 349	^R 491	^R 1,299	R 18,891
October	R 423	16	R 4,003	R 1,384	R 2	^R 1,195	R 2,227	R 102	R 8,649	R 395	R 405	R 1,239	^R 18,844
November	R 297	12	R 4,109	R 1,416	^R 6	R 1,292	R 2,393	124	R 8,537	R 377	R 419	R 1,391	R 19,080
December	R 187	10	R 3,853	R 1,353	12	R 1,458	R 2,616	R 111	R 8,683	R 229	519	R 1,228	R 18,803
Average	355	15	R 3,899	1,425	12	R 1,202	R 2,272	R 125	R 8,753	R 361	R 461	R 1,272	R 18,949
2012 January	216	12	3,823	1,313	2	1,406	2,463	129 139	8,187	367	420 394	1,349	18,280
February	218 236	11 14	3,980 3,706	1,350 1,382	23 2	1,343 1,134	2,421 2,226	139	8,622 8,633	297 323	394 416	1,306 1,163	18,760 18,213
March April	329	14	3,706	1,362	3	986	2,226	122	8,817	338	408	1,163	18,330
May	378	17	3,745	1,409	1	1,095	2,009	116	8.996	376	294	1,100	18,707
June	R 454	R 13	R 3,729	R 1,545	R 2	R 1,064	R 2,072	R 107	R 9,035	R 372	R 372	R 1.214	R 18,915
July	F 482	RF 17	E 3.527	E 1,492	RF 6	E 1.091	F 2,007	^{RF} 128	E 8,759	F 358	E 326	RE 1,774	E 18,876
August	F 531	F 18	E 3,492	E 1,448	F5	E 1,077	F 2,081	F 124	E 9,122	F 394	E 377	E 1,560	E 19,152
8-Month Average	^E 356	^E 15	^E 3,711	E 1,412	^E 5	E 1,149	E 2,185	E 122	^E 8,771	^E 354	^E 376	E 1,346	E 18,654
2011 8-Month Average 2010 8-Month Average	362 369	16 15	3,861 3,736	1,442 1,439	15 15	1,181 1,116	2,246 2,130	129 134	8,803 9,007	373 373	462 543	1,264 1,368	18,973 19,131

greater than -500 barrels per day.

Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District

to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/.

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2011: EIA, Petroleum Supply Annual, annual reports. • 2012: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

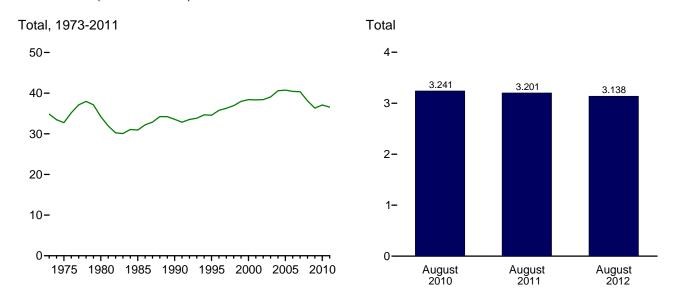
^a Liquefied petroleum gases.
^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other."
^d Includes propylene.
^e Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended its metter accelline.

bended into motor gasoline. Beginning in 1993, also includes ruei euranoi blended into motor gasoline.

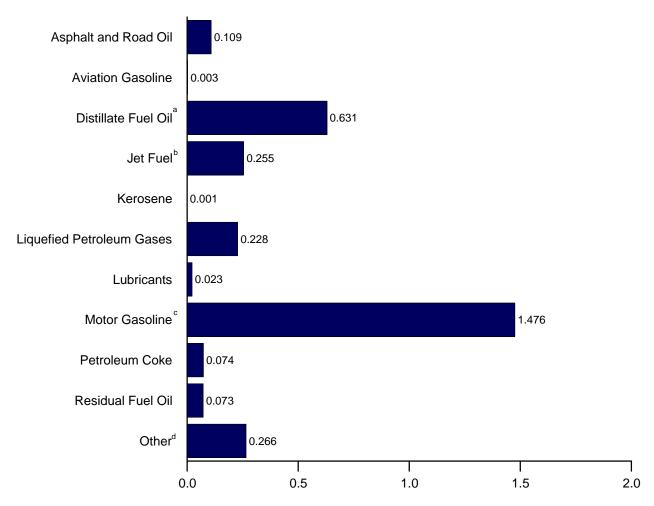
Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. (s)=Less than 500 barrels per day and greater than -500 barrels per day.

Figure 3.6 Heat Content of Petroleum Products Supplied by Type (Quadrillion Btu)



By Product, August 2012



^a Includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^b Includes kerosene-type jet fuel only.

[°] Includes fuel ethanol blended into motor gasoline.

^d All petroleum products not shown above. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.6.

Table 3.6 Heat Content of Petroleum Products Supplied by Type

(Trillion Btu)

	Asphalt and	Aviation	Distillate	Jet	Kero-	LPG	3 a	Lubri-	Motor	Petro- leum	Residual		
	Road Oil	Gasoline	Fuel Oil ^b	Fuel ^c	sene	Propaned	Total	cants	Gasoline ^e	Coke	Fuel Oil	Otherf	Total
1973 Total	1,264	83	6,575	2,167	447	1,221	1,981	359	12,797	573	6,477	2,114	34,837
1975 Total	1,014	71	6,061	2,047	329	1,097	1,807	304	12,798	542	5,649	2,109	32,732
1980 Total	962	64	6,110	2,190	329	1,059	1,976	354	12,648	522	5,772	3,278	34,205
1985 Total	1,029	50	6,098	2,497	236	1,236	2,103	322	13,098	582	2,759	2,152	30,925
1990 Total	1,170	45	6,422	3,129	88	1,284	2,059	362	13,872	745	2,820	2,839	33,552
1995 Total	1,178	40	6,818	3,132	112	1,534	2,512	346	14,825	802	1,955	2,837	34,556
1996 Total	1,176	37	7,175	3,274	128	1,594	2,660	335	15,064	837	1,952	3,121	35,759
1997 Total	1,224	40	7,304	3,308	136	1,638	2,690	354	15,254	829	1,828	3,298	36,265
1998 Total	1,263	35	7,359	3,357	162	1,568	2,575	371	15,701	982	2,036	3,093	36,934
1999 Total	1,324	39	7,595	3,462	151	1,745	2,897	375	16,036	1,048	1,905	3,129	37,960
2000 Total	1,276	36	7,935	3,580	140	1,734	2,945	369	16,155	895	2,091	2,979	38,402
2001 Total	1,257	35	8,179	3,426	150	1,598	2,697	338	16,373	961	1,861	3,056	38,333
2002 Total	1,240	34	8,028	3,340	90	1,747	2,852	334	16,819	1,018	1,605	3,040	38,400
2003 Total	1,220	30	8,349	3,265	113	1,701	2,748	309	16,981	1,000	1,772	3,264	39,051
2004 Total	1,304	31	8,652	3,383	133	1,791	2,824	313	17,379	1,156	1,990	3,428	40,593
2005 Total	1,323	35	8,755	3,475	144	1,721	2,682	312	17,444	1,133	2,111	3,318	40,732
2006 Total	1,261	33	8,864	3,379	111	1,701	2,700	303	17,622	1,148	1,581	3,416	40,420
2007 Total	1,197	32	8,921	3,358	67	1,729	2,733	313	17,689	1,077	1,659	3,313	40,358
2008 Total	1,012	28	8,411	3,193	30	1,620	2,574	291	17,168	1,022	1,432	2,941	38,101
2009 Total	873	27	7,720	2,883	36	1,624	2,664	262	17,135	938	1,173	2,611	36,321
2010 January	42	2	668	236	3	195	294	22	1,378	50	120	215	3,029
February	46	1	629	213	5	164	255	23	1,253	56	91	202	2,776
March	54	2	692	254	2	142	246	26	1,422	79	103	252	3,134
April	66	3	657	240	1	105	198	24	1,426	70	111	251	3,046
May	78	2	657	254	2	106	207	24	1,482	63	101	240	3,111
June	103	3	654	263	3	104	206	28	1,458	74	94	237	3,122
July	97	3	640	263	3	109	217	27	1,504	72	116	242	3,183
August	110	2	692	261	2	116	220	24	1,497	81	93	259	3,241
September	92	3	679	248	1	120	219	25	1,426	78	97	227	3,097
October	89	2	681	251	3	135	233	24	1,458	63	95	215	3,114
November	59	2	677	238	8	134	228	23	1,380	70	104	227	3,014
December	42	2	754	243	9	194	298	21	1,441	69	102	233	3,214
Total	878	27	8,080	2,963	41	1,624	2,821	291	17,127	826	1,228	2,800	37,082
2011 January	R 45	2	R 715	R 237	_ 3	R 207	R 304	R 23	R 1,354	^R 67	R 113	R 227	R 3,091
February	46	2	^R 638	R 215	R 8	R 159	R 254	20	R 1,257	R 49	R ₁₀₀	R 190	R 2,779
March	_ 58	_ 3	^R 730	R 243	^R 5	^R 152	R 265	_ 28	R 1,423	^R 65	^R 90	R ₂₅₀	R 3,160
April	R 62	R 2	R 656	R 248	1	R 115	R 216	R 25	R 1,377	64	R 90	R 224	2,965
May	_ 73	3	^R 668	R 250	(s)	^R 118	R 226	_ 23	R 1,426	R 77	^R 91	^R 194	R 3,032
June	R 90	3	^R 690	R 262	1	^R 110	^R 214	R 23	R 1,419	^R 68	^R 90	R 209	R 3,070
July	R 96	3	^R 644	R 259	2	^R 116	R 222	R 22	^R 1,461	R 69	^R 64	^R 245	R 3,086
August	112	3	^R 724	273	_ 1	^R 124	R 231	^R 26	^R 1,444	^R 86	^R 68	R 234	R 3,201
September	92	_ 2	R 688	_ 241	_ R 1	R 117	R 216	_ 23	R 1,369	^R 63	R 93	R 224	R 3,011
October	87	^R 2	R 723	R 243	^R (s)	R 142	^R 245	^R 19	R 1,399	^R 74	^R 79	R 220	R 3,092
November	59	2	R 718	R 241	`Ř1	R 149	R 254	23	R 1,336	R 68	R 79	R 239	R 3,020
December	R 38	2	^R 696	238	2	^R 173	R 289	21	R 1,405	R 43	101	R 220	R 3,054
Total	R 859	27	R 8,289	2,950	25	R 1,682	R 2,937	R 276	R 16,670	R 794	R 1,058	R 2,676	R 36,562
2012 January	44	2	690	231	(s)	167	270	24	1,324	69	82	238	2,975
February	42	2	672	222	4	149	250	24	1,305	52	72	219	2,863
March	49	2	669	243	(s)	135	245	21	1,396	60	81	209	2,976
April	65	2	647	231	. 1	113	219	22	1,380	61	77	201	2,907
May	_ 78	3	676	248	(s)	_ 130	237	22	1,455	70	57	217	3,063
June	R 90	_2	^R 652	R 263	R (s)	R 122	^R 218	^R 19	R 1,414	^R 67	^R 70	R 211	R 3,007
July	F 99	<u>-</u> 3	E 637	E 262	RF 1	E 130	F 220	^F 24	E 1,417	^F 67	E 64	RE 299	RE 3,093
August	F 109	F3	E 631	E 255	<u>F</u> 1	_ ^E 128	F 228	_F 23	E 1,476	_F 74	_E 73	E 266	_E 3,138
8-Month Total	^E 577	E 18	^E 5,275	E 1,954	^E 7	E 1,075	E 1,887	E 180	E 11,168	^E 520	^E 576	E 1,861	E 24,023
2011 8-Month Total 2010 8-Month Total	583 596	19 18	5,465 5,289	1,987 1,983	21 21	1,101 1,040	1,933 1,843	190 198	11,161 11,421	547 546	706 830	1,773 1,899	24,385 24,642

a Liquefied petroleum gases.

 ^a Liquefied petroleum gases.
 ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
 ^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other."
 ^d Includes propylene.
 ^e Einished motor gasoling. Beginning in 1993, also includes fuel ethanol blended.

e Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended

into motor gasoline.

f Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned

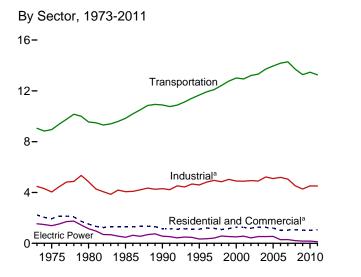
as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

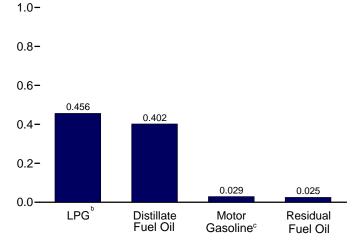
Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Pages:

For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. Sources: See end of section.

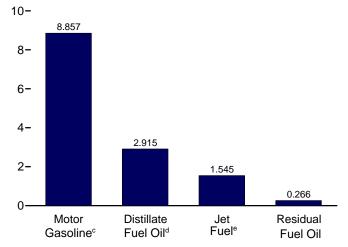
Figure 3.7 Petroleum Consumption by Sector (Million Barrels per Day)



Residential and Commercial Sectors,^a Selected Products, June 2012



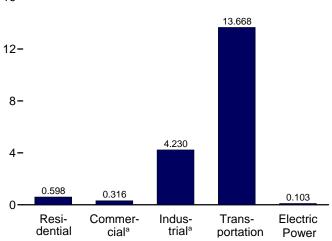
Transportation Sector, Selected Products, June 2012



^a Includes combined-heat-and-power plants and a small number of electricity-only plants.

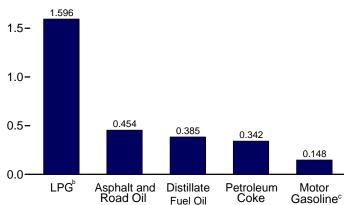
By Sector, June 2012

16-

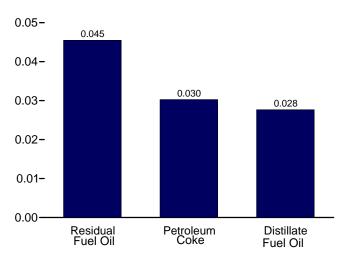


Industrial Sector,^a Selected Products, June 2012

2.0-



Electric Power Sector, June 2012



distillate fuel oil.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.7a–3.7c.

^b Liquefied petroleum gases.

[°] Includes fuel ethanol blended into motor gasoline.

^d Includes renewable diesel fuel (including biodiesel) blended into

e Includes kerosene-type jet fuel only.

Table 3.7a Petroleum Consumption: Residential and Commercial Sectors

		Residen	tial Sector				Com	mercial Sect	tor ^a		
	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petro- leum Coke	Residual Fuel Oil	Total
1973 Average	942	110	407	1,459	303	31	105	45	NA	290	774
1975 Average	850	78	365	1,293	276	24	92	46	NA	214	653
1980 Average	617	51	222	890	243	20	63	56	NA	245	626
1985 Average	514	77	224	815	297	16	68	50	NA	99	530
1990 Average	460	31	252	742	252	6	73	58	0	100	489
1995 Average	426	36	282	743	225	11	78	10	(s)	62	385
1996 Average	434	43	334	811	227	10	87	14	(s)	60	397
1997 Average	411	45	325	781	209	12	86	22	(s)	48	378
1998 Average	363	52	303	718	202	15	84	20	(s)	37	358
1999 Average	389	54	376	819	206	13	100	15	(s)	32	366
2000 Average	424	46	395	865	230	14	107	23	(s)	40	415
2001 Average	427	46	375	849	239	15	102	20	(s)	30	406
2002 Average	404	29	384	817	209	8	101	24	(s)	35	376
2003 Average	425	34	389	848	226	9	112	32	(s)	48	428
2004 Average	433	41	364	839	221	10	108	23	(s)	53	416
2005 Average	402	40	366	809	210	10	94	24	(s)	50	389
2006 Average	335	32	318	685	189	7	88	26	(s)	33	343
2007 Average	342	21	345	708	181	4	87	32	(s)	33	337
2008 Average	314	10	394	718	174	2	113	24	(s)	32	345
2009 Average	283	13	391	687	194	2	99	28	(s)	33	357
2010 January	460	10	461	931	324	2	122	28	(s)	57	532
February	471	24	441	936	332	4	116	28	(s)	58	538
March	270	8	388	666	190	1	102	28	(s)	33	356
April	196	5	321	521	138	1	85	29	(s)	24	277
May	207	8	327	542	146	1	86	30	0	25	289
June	244	11	338	593	172	2	89	30	0	30	323
July	189	13	345	547	133	2	91	30	0	23	280
August	169	7	353	528	119	1	93	30	(s)	21	264
September	157	6	363	526	111	1	96	29	(s)	19	256
October	233	10	370	614	164	2	98	29	(s)	29	322
November	271	32	373	676	190	5	99	29	(s)	33	356
December	432	35	466	934	304	6	123	29	(s)	53	516
Average	274	14	379	667	193	2	100	29	(s)	34	358
2011 January	R 400	R 13	R 480	R 893	R 281	2	R 127	27	(s)	R 43	R 481
February	R 419	R 35	R 440	R 895	R 295	^R 6	R 116	28	(s)	R 45	R 490
March	R 286	R 19	R 420	R 725	R 201	3	R ₁₁₁	28	(s)	^R 31	R 375
April	R 197	6	^R 356	^R 559	R ₁₃₉	1	R 94	_ 28	0	R 21	R 283
May	R 130	(s)	R 362	R 492	R 91	(s)	^R 96	R 29	0	R 14	R 230
June	R 202	3	R 353	R 558	R 142	1	R 93	29	0	R 22	R 287
July	^R 180	6	R 355	^R 542	R 127	1	R 94	29	0	R 19	R 270
August	R 246	_ 4	^R 366	^R 616	R 174	1	^R 97	29	0	^R 26	R 326
September	R 270	^R 5	R 357	R 632	R 190	1	94	28	0	R 29	R 342
October	R 293	R 1	R 388	R 682	R 206	(s)	R 102	28	0	R 31	R 368
November	R 336	R 4	R 417	^R 757	R 236	1	R 110	28	(s)	R 36	R 411
December	R 433	R 9	^R 456	^R 898	R 305	1	R 120	28	(s)	^R 46	R 502
Average	R 282	9	R 396	R 686	R 198	1	^R 105	28	(s)	R 30	R 363
2012 January	R 469	1	429	R 899	R 330	(s)	113	26	(s)	R 50	^R 521
February	R 394	16	422	R 832	R 277	3	111	28	(s)	R 42	R 462
March	R 320	1	388	^R 709	R 225	(s)	102	28	(s)	R 34	R 391
April	R 234	2	361	R 597	R 165	(s)	95	29	(s)	R 25	R 314
May	R 232	(s)	375	R 608	R 164	(s)	99	29) O	R 25	R 317
June	236	`1	361	598	166	(s)	95	29	0	25	316
6-Month Average	314	4	389	707	221	1	103	28	(s)	34	387
2011 6-Month Average	271	12	402	685	191	2	106	28	(s)	29	356
2010 6-Month Average	306	11	379	696	216	2	100	29	(s)	38	384

a Commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
R=Revised. NA=Not available. (s)=Less than 500 barrels per day and greater than -500 barrels per day.
Notes: ● Data are estimates. ● For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is

an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," 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/#petroleum for all available data heqining in 1973.

available data beginning in 1973.

Table 3.7b Petroleum Consumption: Industrial Sector

					Industria	l Sector ^a				
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total
1973 Average	522	691	75	902	88	133	254	809	1,005	4,479
1975 Average	419	630	58	844	68	116	246	658	1,001	4,038
1980 Average	396	621	87	1,172	82	82	234	586	1,581	4,842
1985 Average	425	526	21	1,285	75	114	261	326	1,032	4,065
1990 Average	483	541	6	1,215	84	97	325	179	1,373	4,304
1995 Average	486	532	7	1,527	80	105	328	147	1,381	4,594
1996 Average	484	557	9	1.580	78	105	343	146	1,518	4,819
1997 Average	505	566	9	1,617	82	111	331	127	1,605	4,953
1998 Average	521	570	11	1,553	86	105	390	100	1,508	4,844
1999 Average	547	558	6	1,709	87	80	426	90	1,532	5,035
2000 Average	525	563	8	1,720	86	79	361	105	1,458	4,903
2001 Average	519	611	11	1,557	79	155	390	89	1,481	4,892
2002 Average	512	566	7	1,668	78	163	383	83	1,474	4,934
2003 Average	503	534	12	1,561	72	171	375	96	1,579	4,903
2004 Average	537	570	14	1,646	73	195	423	108	1,657	5,222
2005 Average	546	594	19	1,549	72	187	404	123	1,605	5,100
2006 Average	521	594	14	1,627	71	198	425	104	1,640	5,193
2007 Average	494	595	6	1,637	73	161	412	84	1,593	5,056
2008 Average	417	599	2	1,419	67	131	394	86	1,408	4,523
2009 Average	360	521	2	1,541	61	128	363	46	1,251	4,274
2010 January	203	484	3	2,036	60	140	201	59	1,218	4,403
February	249	531	6	1,949	70	141	264	55	1,263	4,528
March	264	686	2	1,714	71	144	356	54	1,421	4,712
April	331	623	1	1,419	68	149	323	61	1,463	4,438
May	378	472	2	1,446	66	150	274	51	1,351	4,190
June	517	427	3	1,492	80	153	333	43	1,386	4,433
July	470	331	3	1,523	73	153	303	53	1,373	4,282
August	537	544	2	1,559	66	152	370	42	1,467	4,738
September	463	701	1	1,604	70	150	371	51	1,326	4,738
October	434	548	3	1,637	66	148	279	51	1,215	4,380
November	295	664	8	1,648	64	145	339	57	1,333	4,553
December Average	204 362	700 559	9 4	2,061 1,673	58 68	146 148	307 310	51 52	1,301 1,343	4,838 4,519
_	P 004	P = 4 =			Pos	P 407	Pooo	P 00		
2011 January	R 221	^R 717 ^R 588	3 R 9	^R 2,123 ^R 1,946	R 64	^R 137 ^R 141	^R 280 ^R 226	^R 60 ^R 59	^R 1,244 ^R 1,185	^R 4,849 ^R 4,463
February	248 ^R 282	^N 588 ^R 765	× 9 5	^R 1,856	62 ^R 77	^ 141 144	R 275	R 48	R 1,185	R 4,463
March	R 311	R 564	2	R 1,573	R 70	144	R 307	R 50	R 1,301	R 4,321
April May	R 357	R 557	(s)	R 1,600	R 63	R 145	R 365	R 49	R 1,082	R 4,217
	R 454	R 572	1	R 1,561	R 64	R 149	R 317	R 49	R 1,213	R 4.379
June July	R 465	R 306	2	R 1,570	R 61	R 148	R 293	R 32	R 1,363	R 4,241
August	R 545	R 529	1	R 1,618	R 70	146	R 397	R 34	R 1,311	R 4,651
September	462	R 556	R 1	R 1,579	R 64	R 143	R 286	R 50	R 1,299	R 4,440
October	R 423	R 588	R (s)	R 1,715	R 53	R 142	R 347	42	R 1,239	R 4.549
November	R 297	R 706	R 1	R 1,842	64	140	R 336	R 42	R 1,391	R 4,819
December	R 187	R 455	2	R 2,014	R 57	142	R 178	52	R 1,228	R 4,317
Average	355	R 575	2	R 1,749	64	R 144	R 301	R 47	R 1,272	R 4,509
2012 January	216	R 553	(s)	1,896	66	134	311	40	1,349	R 4.567
February	218	R 724	4	1,864	71	141	250	38	1,306	R 4,616
March	236	R 499	(s)	1,715	57	142	289	41	1,163	R 4,142
April	329	R 491	1	1.594	63	145	311	41	1,166	R 4.139
May	378	R 469	(s)	1,657	59	148	344	29	1,224	R 4,309
June	454	385	(s)	1.596	55	148	342	35	1,214	4.230
6-Month Average	305	519	1	1,720	62	143	308	37	1,237	4,332
2011 6-Month Average	312	628	3	1,776	67	143	296	52	1,239	4,517
2010 6-Month Average	324	537	3	1,674	69	146	292	54	1,351	4,450

^a Industrial sector fuel use, including that at industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

^c Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. (s)=Less than 500 barrels per day and greater than -500 barrels per

day.

Notes:

Data are estimates.

For total petroleum consumption by all sectors, but a realized data in Table 3.5 Petroleum products supplied is Notes: • Data are estimates. • For total perioleum consumption by an sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section.

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

Floats may not equal sum of components due to independent founding.
 Geographic coverage is the 50 States and the District of Columbia.
 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum for all available data beginning in 1973.

Table 3.7c Petroleum Consumption: Transportation and Electric Power Sectors

				Transportat	ion Secto	r			E	lectric Po	wer Sectora	
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oile	Petro- leum Coke	Residual Fuel Oil ^f	Total
1973 Average	45	1,045	1,042	35	74	6,496	317	9,054	129	7	1,406	1,542
1975 Average	39	998	992	31	70	6,512	310	8,951	107	1	1,280	1,388
1980 Average	35	1,311	1,062	13	77	6,441	608	9,546	79	2	1,069	1,151
1985 Average	27	1,491	1,218	21	71	6,667	342 443	9,838	40 45	3	435	478
1990 Average 1995 Average	24 21	1,722 1,973	1,522 1,514	16 13	80 76	7,080 7,674	443 397	10,888 11,668	51	14 37	507 247	566 334
1996 Average	20	2.096	1,578	11	73	7,772	370	11,921	51	36	273	360
1997 Average	22	2,198	1,599	10	78	7,883	310	12,099	52	46	311	410
1998 Average	19	2,263	1,622	13	81	8,128	294	12,420	64	56	456	576
1999 Average	21	2,352	1,673	10	82	8,336	290	12,765	66	51	418	535
2000 Average	20	2,422	1,725	8	81	8,370	386	13,012	82	45	378	505
2001 Average	19 18	2,489	1,655	10 10	74 73	8,435	255 295	12,938	80 60	47 80	437 287	564
2002 Average 2003 Average	16	2,536 2,665	1,614 1,578	10	73 68	8,662 8,733	295 249	13,208 13,321	76	79	287 379	427 534
2004 Average	17	2,783	1,630	14	69	8,887	321	13,720	52	101	382	535
2005 Average	19	2,858	1,679	20	68	8,948	365	13,957	54	111	382	547
2006 Average	18	3,017	1,633	20	67	9,029	395	14,178	35	97	157	289
2007 Average	17	3,037	1,622	16	69	9,093	433	14,287	42	78	173	293
2008 Average	15	2,824	1,539	29	64	8,834	400	13,704	34	70	104	209
2009 Average	14	2,600	1,393	20	57	8,840	353	13,279	33	63	79	175
2010 January	10	2,353	1,344	26	57	8,352	407	12,547	79	67	93	239
February	10	2,490	1,343	24	66	8,411	364	12,709	30	69	38	138
March	14	2,663	1,443	22 18	67	8,620	403 465	13,231	24 23	69	41 40	134
April May	17 15	2,779 2,781	1,410 1.446	18	64 62	8,929 8.983	465 377	13,682 13,681	33	62 64	40 66	125 164
June	18	2,761	1,543	19	75	9.128	322	13,963	41	78	105	224
July	20	2,848	1,494	19	69	9,118	399	13,966	42	81	120	244
August	14	2,963	1,486	20	63	9,074	315	13,934	34	63	98	196
September	20	2,888	1,457	20	66	8,933	381	13,766	29	62	61	153
October	15	2,803	1,430	21	62	8,839	371	13,540	25	56	37	118
November	11	2,719	1,396	21	60	8,643	427	13,277	30	50	35	114
December Average	12 15	2,679 2,737	1,383 1,432	26 21	55 64	8,736 8,816	355 382	13,245 13,466	60 38	63 65	67 67	189 170
2011 January	R 11	R 2,521	R 1,346	^R 27	^R 60	R 8,206	R 423	R 12,594	40	81	57	177
February	^R 14	R 2.580	R 1,352	R 24	59	R 8,435	R 426	R 12,891	31	67	36	134
March	^R 18	R 2,766	R 1,385	R 23	R 73	R 8,626	^R 346	R 13,236	27	73	38	137
April	R 10	R 2,824	R 1,457	R 20	R 66	R 8,623	R 360	R 13,361	31	49	46	126
May	18	R 2,893	R 1,424	R 20	R 59	R 8,644	R 364	R 13,421	29	49	41	119
June	17 ^R 19	R 3,000	R 1,540	R 20	^R 61 ^R 58	R 8,889	R 365	R 13,891	32 37	62	44	138
July August	18	R 2,914 R 3,034	^R 1,473 ^R 1,554	R 20 R 20	R 67	^R 8,854 ^R 8,750	R 226 R 242	^R 13,562 ^R 13,686	26	75 65	52 45	163 135
September	13	R 2.895	R 1,416	20	61	R 8.572	R 378	R 13,354	25	63	34	123
October	16	R 2.894	R 1.384	R 22	R 50	R 8.479	R 299	R 13,143	22	48	32	102
November	12	R 2,808	R 1,416	R 23	60	R 8,369	R 309	R 12,997	23	40	32	96
December	10	R 2,634	R 1,353	R 25	^R 54	R 8,513	R 389	R 12,978	26	51	31	109
Average	15	R 2,815	1,425	R 22	R 61	R 8,581	R 343	R 13,261	29	60	41	130
2012 January	12	R 2,446	1,313	24	62	8,026	R 296	R 12,179	24	55	34	114
February	11	R 2,563	1,350	23	67	8,452	R 286	R 12,753	22	47	27	96
March	14	R 2,644	1,382	22	54	8,463	R 312	R 12,890	18	34	29	81
April	14 17	R 2,790	1,359	20	59 56	8,644	R 314	R 13,201	24	27	28	79
May	17 13	R 2,853 2,915	1,409 1,545	21 20	56 52	8,819 8,857	^R 212 266	R 13,386 13,668	27 28	32 30	29 45	88 103
June 6-Month Average	14	2,915 2,702	1,343 1,393	20 22	58	8,542	281	13,000 13,011	24	38	32	94
2011 6-Month Average 2010 6-Month Average	15 14	2,765 2,655	1,418 1,422	22 21	63 65	8,571 8,739	380 390	13,234 13,306	31 39	63 68	44 64	139 171

^a 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

Notes: • Transportation sector data are estimates. • For total petroleum Notes:

• Transportation sector data are estimates.
• For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5.
Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c.
• See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section.
• Totals may not equal sum of components due to independent rounding.

the public. Through 1966, data are for electric utilities only, beginning in 1969, data are for electric utilities and independent power producers.

^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in

^{2005,} includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector, Other" on Table 3.7b.

d Finished motor gasoline. Beginning in 1993, also includes fuel ethanol

blended into motor gasoline.

^e Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small

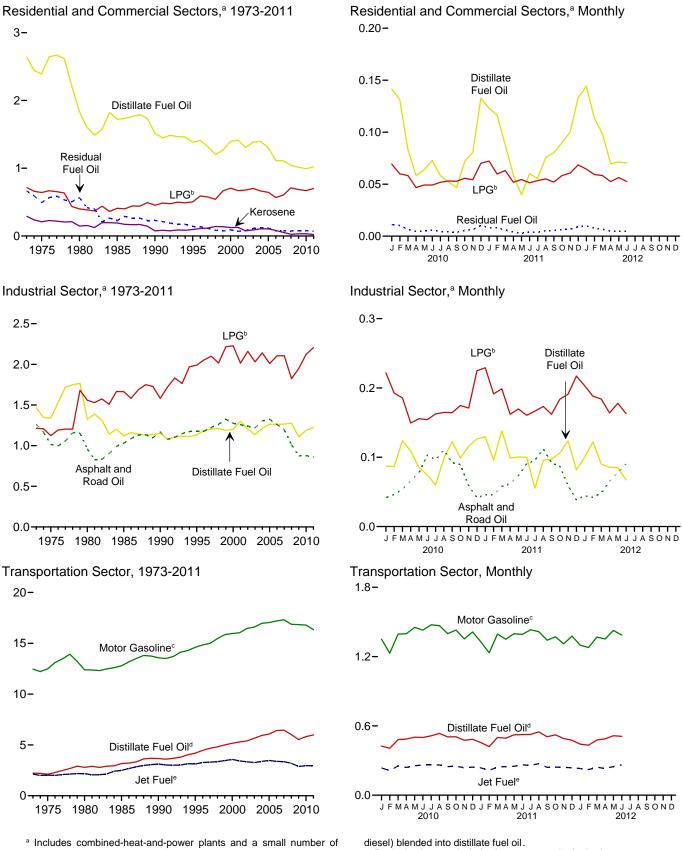
amounts of kerosene and jet fuel.

 $^{^{\}rm f}$ Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4. R=Revised.

Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum for all available data beginning in 1973.

Heat Content of Petroleum Consumption by Sector, Selected Products Figure 3.8 (Quadrillion Btu)



electricity-only plants.

^b Liquefied petroleum gases.

^c Beginning in 1993, includes fuel ethanol blended into motor gasoline.

^d Beginning in 2009, includes renewable diesel fuel (including bio-

e Beginning in 2005, includes kerosene-type jet fuel only. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.8a-3.8c.

Table 3.8a Heat Content of Petroleum Consumption: Residential and Commercial Sectors (Trillion Btu)

		Resident	ial Sector				Con	nmercial Sec	ctora		
	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Total
1973 Total	2,003	227	570	2,800	644	65	147	87	NA	665	1,607
1975 Total	1,807	161	512	2,479	587	49	129	89	NA	492	1,346
1980 Total	1,316	107	311	1,734	518	41	88	107	NA	565	1,318
1985 Total	1,092	159	314	1,565	631	33	95	96	NA _	228	1,083
1990 Total	978	64	352	1,394	536	12	102	111	0	230	991
1995 Total	905 926	74 89	395 469	1,374	479 483	22 21	109 122	18 27	(s)	141 137	769 790
1996 Total	926 874	93	469 455	1,484 1,422	444	25	122	43	(s)	111	790 743
1998 Total	772	108	424	1,304	429	31	118	39	(s) (s)	85	702
1999 Total	828	111	526	1,465	438	27	140	28	(s)	73	707
2000 Total	905	95	555	1,554	491	30	150	45	(s)	92	807
2001 Total	908	95	526	1,529	508	31	143	37	(s)	70	790
2002 Total	860	60	537	1,457	444	16	141	45	(s)	80	726
2003 Total	905	70	544	1,519	481	19	157	60	(s)	111	828
2004 Total	924	85	512	1,520	470	20	152	45	(s)	122	810
2005 Total	854	84	513	1,451	447	22	131	46	(s)	116	762
2006 Total	712	66	446	1,224	401	15	123	49	(s)	75	664
2007 Total	726	44	484	1,254	384	9	121	61	(s)	75	651
2008 Total	669	21 28	553 547	1,243	372	4	158	46	(s)	73 76	653
2009 Total	602	28	547	1,176	413	4	139	53	(s)	76	685
2010 January	83	2	55	140	58	(s)	14	4	(s)	11	89
February	77 49	4 1	47 46	128 96	54 34	•	13 12	4 5	(s)	10 6	82 58
March April	49 34	1	37	96 72	24	(s) (s)	10	5 5	(s) (s)	5	43
May	37	1	39	78	26	(s)	10	5	(3)	5	47
June	43	2	39	83	30	(s)	10	5	0	6	51
July	34	2	41	78	24	(s)	11	5	Ö	5	45
August	31	1	42	74	21	(s)	11	5	(s)	4	42
September	27	1	42	70	19	(s)	11	5	(s)	4	39
October	42	2	44	88	30	(s)	12	5	(s)	6	52
November	47	6	43	96	33	1	11	4	(s)	6	56
December	78	6	55	140	55	1	15	5	(s)	10	86
Total	583	29	530	1,142	410	5	140	55	(s)	77	688
2011 January	R 72	2	^R 57	R 132	^R 51	(s)	15	4	(s)	R 8	R 79
February	_ 68	R 6	R 47	R 121	48	1	12	4	(s)	8	R 74
March	R 52	3	R 50	R 105	36	1	13	5	(s)	6	^R 61
April	34	1	R 41	R 76	24	(s)	R 11	4	0	4	R 44
May	23	(s) 1	^R 43 ^R 41	^R 67 ^R 76	^R 17 ^R 25	(s)	11 ^R 11	5	0	3	35
June July	35 ^R 33	1	R 42	^R 76	23	(s) (s)	*11 11	5 5	0	4 4	44 R 43
August	R 45	1	R 44	R 89	31	(s)	R 12	5 5	0	5	R 53
September	45 47	R 1	41	89	33	(s)	11	4	0	R 5	53 54
October	R 53	(s)	R 46	R 99	37	(s)	12	5	0	6	R 60
November	R 59	` 1	R 48	^R 107	41	(s)	R 13	4	(s)	7	^R 65
December	^R 78	R 2	R 54	R 134	^R 55	(s)	14	5	(s)	9	R 83
Total	R 599	18	R 554	^R 1,171	R 422	` 3	R 146	54	(s)	R 69	R 695
2012 January	^R 85	(s)	51	^R 136	R 60	(s)	13	4	(s)	10	87
February	^R 67	3	47	^R 116	R 47	(s)	12	4	(s)	8	R 72
March	^R 58	(s)	46	R 104	R 41	(s)	12	5	(s)	7	64
April	R 41	(s)	41	R 83	R 29	(s)	11	4	(s)	5	49
May	R 42	(s)	45	R 87	R 30	(s)	12	5	0	5	51
June	41	(s)	42	83	29	(s)	11	5	0	5	49 373
6-Month Total	333	4	272	609	235	1	72	27	(s)	39	372
2011 6-Month Total 2010 6-Month Total	285 323	13 11	279 263	577 597	201 227	2 2	74 69	27 27	(s) (s)	33 43	337 369

a Commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu and greater than O.5 trillion Btu.
 Notes: • Data are estimates. • For total heat content of petroleum consumption

by all sectors, see data for heat content of petroleum products supplied in Table

^{3.6.} Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c.

• See Note 7, "Petroleum Products Supplied and Petroleum Consumption," 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/#petroleum for all available data beginning in 1973.

Sources: See end of section.

Table 3.8b Heat Content of Petroleum Consumption: Industrial Sector

(Trillion Btu)

	illion Bia)				Industri	al Sector ^a				
			1		illuustii	ai Sector				
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total
1973 Total	1,264	1.469	156	1,215	195	255	558	1,858	2,114	9.083
1975 Total	1,014	1,339	119	1,123	149	223	540	1,509	2,109	8,127
1980 Total	962	1,324	181	1,559	182	158	516	1,349	3,278	9,509
1985 Total	1,029	1,119	44	1,664	166	218	575	748	2,152	7,714
1990 Total	1,170 1,178	1,150 1,131	12 15	1,582 1,990	186 178	185 200	714 721	411 337	2,839 2.837	8,251 8,588
1996 Total	1,176	1,187	18	2,054	173	200	757	335	3,121	9,020
1997 Total	1,224	1,203	19	2,100	182	212	727	291	3,298	9,256
1998 Total	1,263	1,211	22	2,016	191	199	858	230	3,093	9,083
1999 Total	1,324 1,276	1,187 1,200	13 16	2,217 2,228	193 190	152 150	936 796	207 241	3,129 2,979	9,357 9,076
2000 Total 2001 Total	1,276	1,300	23	2,226 2,014	174	295	858	203	3,056	9,076 9,181
2002 Total	1,240	1,204	14	2,160	172	309	842	190	3,040	9,171
2003 Total	1,220	1,136	24	2,030	159	324	825	220	3,264	9,202
2004 Total	1,304	1,214	28	2,141	161	372	934	249	3,428	9,831
2005 Total 2006 Total	1,323 1,261	1,264 1,263	39 30	2,009 2,104	160 156	356 376	889 934	281 239	3,318 3,416	9,640 9,780
2007 Total	1,197	1,265	13	2,104	161	306	906	193	3,313	9,461
2008 Total	1,012	1,277	4	1,823	150	250	868	198	2,941	8,523
2009 Total	873	1,107	4	1,950	135	244	799	106	2,611	7,829
2010 January	42	87	(s)	222	11	23	38	11	215	650
February	46 54	87 124	1	193 186	12 13	21 23	45 67	10 11	202 252	615 730
March April	66	109	(s) (s)	149	12	23	58	11	252	681
May	78	85	(s)	156	12	24	51	10	240	657
June	103	75	(s)	154	14	24	60	8	237	676
July	97	60	1	163	14	25	57	10	242	667
August September	110 92	98 123	(s) (s)	165 164	12 13	25 23	69 67	8 10	259 227	747 719
October	89	99	(s)	175	12	24	52	10	215	676
November	59	116	`1	171	12	23	61	11	227	680
December	42	126	2 7	225	11	24	57	10	233	729
Total	878	1,188	1	2,121	149	281	682	120	2,800	8,227
2011 January	R 45	R 129	1	R 229	R 12	22	R 52	R 12	R 227	R 730
February March	46 58	^R 96 ^R 138	1 1	^R 191 ^R 199	11 14	21 23	^R 38 ^R 51	R 10 R 9	^R 190 ^R 250	^R 604 ^R 744
April	R 62	R 98	(s)	R 162	R 13	23	55	R 9	R 224	R 647
May	73	R 101	(s)	R 170	12	23	68	Rg	R 194	R 650
June	R 90	R 100	(s)	R 161	R 12	23	R 57	9	R 209	R 662
July	^R 96 112	^R 55 ^R 96	(s) (s)	^R 167 ^R 173	11 13	24 24	^R 55 ^R 74	6 R 7	^R 245 ^R 234	^R 659 ^R 733
August September	92	R 97	(s)	R 162	12	22	R 52	9	R 224	R 670
October	87	^R 106	(s)	^R 184	10	23	R 65	8	R 220	^R 703
November	59	R 123	(s)	R 191	12	22	^R 61	R 8	R 239	R 715
December	^R 38 ^R 859	^R 82 ^R 1,222	(s) 4	R 217	11 R 142	23 R 274	R 33 R 662	10 R 108	R 220 R 2,676	R 635
Total	859		4	R 2,205	142	2/4	662	108	2,676	^R 8,152
2012 January	44	R 100	(s)	203	12	22	58	8	238	R 686
February	42	R 122 R 90	1	188	13	21	44	7	219	^R 656 ^R 627
March April	49 65	^R 86	(s) (s)	184 164	11 11	23 23	54 56	8 8	209 201	^R 614
May	78	R 85	(s)	178	11	23 24	64	6	217	R 663
June	90	67	(s)	163	10	23	62	7	211	633
6-Month Total	369	550	1	1,080	68	136	338	43	1,296	3,880
2011 6-Month Total 2010 6-Month Total	375 389	662 567	3 3	1,111 1,059	73 76	135 138	323 318	59 61	1,294 1,398	4,037 4,009

^a Industrial sector fuel use, including that at industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

Notes: • Data are estimates. • For total heat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c.

• See Note 7, "Petroleum Products Supplied and Petroleum Consumption," 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/#petroleum for all available data beginning in 1973.

Sources: See end of section.

^c Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

Table 3.8c Heat Content of Petroleum Consumption: Transportation and Electric Power Sectors (Trillion Btu)

		•							1			
				Transporta	tion Secto	r		ı	Е	lectric Po	wer Sectora	
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oil ^e	Petro- leum Coke	Residual Fuel Oil ^f	Total
1973 Total 1975 Total	83 71	2,222 2,121	2,131 2,029	49 43	163 155	12,455 12,485	727 711	17,832 17,615	273 226	15 2	3,226 2,937	3,515 3,166
1980 Total	64	2,795	2,179	18	172	12,383	1,398	19,009	169	5	2,459	2,634
1985 Total	50 45	3,170	2,497	30 23	156	12,784	786	19,472	85 97	7	998	1,090
1990 Total	45 40	3,661 4,195	3,129 3,132	23 18	176 168	13,575 14,607	1,016 911	21,626 23,070	108	30 81	1,163 566	1,289 755
1996 Total	37	4,469	3,274	16	163	14,837	851	23,648	109	80	628	817
1997 Total	40	4,672	3,308	14	172	14,999	712	23,918	111	102	715	927
1998 Total 1999 Total	35 39	4,812 5,001	3,357 3,462	18 14	180 182	15,463 15,855	674 665	24,538 25,219	136 140	124 112	1,047 959	1,306 1,211
2000 Total		5,165	3,580	12	179	15,960	888	25,820	175	99	871	1,144
2001 Total	35	5,292	3,426	14	164	16,041	586	25,557	171	103	1,003	1,277
2002 Total 2003 Total	34 30	5,392 5.666	3,340 3,265	14 17	162 150	16,465 16,597	677 571	26,085 26,297	127 161	175 175	659 869	961 1.205
2004 Total	31	5,000	3,383	17	152	16,962	740	27,219	111	222	879	1,212
2005 Total	35	6,076	3,475	28	151	17,043	837	27,645	115	243	876	1,235
2006 Total	33 32	6,414	3,379	27 22	147	17,197	906 994	28,105	74 89	214 171	361 397	648
2007 Total 2008 Total	28	6,457 6,020	3,358 3,193	40	152 141	17,321 16,872	994	28,335 27,214	73	154	240	657 468
2009 Total	27	5,528	2,883	28	127	16,837	810	26,240	70	139	181	390
2010 January	2	425	236	3	11	1,351	79	2,107	14	12	18	45
February	1	406	213	3	11	1,229	64	1,928	5	12	7	23
March April	2	481 486	254 240	3 2	13 12	1,394 1,398	79 88	2,225 2,227	4 4	13 11	8 8	25 23
May	2	502	254	2	12	1,453	73	2,299	6	12	13	31
June	3	499	263	2	14	1,429	61	2,270	7	14	20	41
July August	3 2	514 535	263 261	2 2	13 12	1,475 1,468	78 61	2,348 2,342	8 6	15 12	23 19	46 37
September	3	505	248	2	12	1,398	72	2,240	5	11	12	28
October	2	506	251	2	12	1,430	72	2,276	4	10	7	22
November December	2	475 484	238 243	2	11 10	1,353 1,413	80 69	2,161 2,224	5 11	9 12	7 13	21 36
Total	27	5,818	2,963	29	141	16,791	877	26,646	80	144	154	378
2011 January	2	R 455	R 237	_ 3	^R 11	R 1,327	R 82	^R 2,118	7	15	11	33
February		^R 421 ^R 499	^R 215 ^R 243	R 3 3	10 14	^R 1,232 ^R 1,395	^R 75 ^R 67	R 1,958 R 2,225	5 5	11 14	6 7	23 26
March April		R 493	R 248	2	12	R 1,350	R 68	R 2,175	5	9	9	23
May	3	R 522	R 250	2	11	R 1,398	^R 71	^R 2,258	5	9	8	22
June	3	^R 524 ^R 526	^R 262 ^R 259	2	R 11 R 11	R 1,391 R 1.432	^R 69 ^R 44	R 2,262	6	11	8	25
July August	3 3	R 548	273	2 2	R 13	R 1,432	R 47	R 2,277 R 2.301	7 5	14 12	10 9	31 25
September	2	^R 506	241	2	11	R 1,342	R 71	R 2,175	4	11	6	22
October	R 2	R 523	R 243	R 3	R 9	R 1,371	58	R 2,210	4	9	6	19
November December	2 2	R 491 R 476	^R 241 238	R 3 3	11 10	R 1,310 R 1,377	^R 58 ^R 76	R 2,115 R 2,181	4 5	7 10	6 6	17 20
Total	27	R 5,984	2,950	R 31	R 134	R 16,343	R 787	R 26,256	62	132	94	288
2012 January	2	R 442	231	3	12	1,298	R 58	R 2,045	4	10	7	21
February	2	R 433	222	3	12	1,279	52 R 64	R 2,002	4	8	5	17
March April	2 2	^R 477 ^R 488	243 231	3 2	10 11	1,369 1,353	^R 61 59	^R 2,165 ^R 2,146	3 4	6 5	6 5	15 14
May	3	R 515	248	2	11	1,427	41	R 2,246	5	6	6	16
June 6-Month Total	2 12	509 2,864	263 1,437	2 15	9 64	1,387 8,113	50 321	2,223 12,827	5 25	5 41	9 37	19 103
2011 6-Month Total 2010 6-Month Total	13	2,916 2,799	1,455 1,459	15 15	69 72	8,095 8,254	432 444	12,996 13,055	33 41	69 74	50 73	152 188

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS Electricity-only and combined-near-and-power (CHF) 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.

^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type int fuel only; naphtha-type jet fuel, is included in

amount of fuel oil no. 4.

R=Revised.

R=Revised.

Notes: • Transportation sector data are estimates. • For total heat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a=3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," 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. of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum for all

available data beginning in 1973.

^{2005,} includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector Other" on Table 3.8b.

^d Finished motor gasoline. Beginning in 1993, also includes fuel ethanol

blended into motor gasoline.

^e Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.

f Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small

Petroleum

Note 1. Petroleum Survey Respondents. The U.S. Energy Information Administration (EIA) uses a number of sources and methods to maintain the survey respondent lists. On a regular basis, survey managers review such industry publications as the *Oil & Gas Journal* and *Oil Daily* for information on facilities or companies starting up or closing down operations. Those sources are augmented by articles in newspapers, communications from respondents indicating changes in status, and information received from survey systems.

To supplement routine frames maintenance and to provide more thorough coverage, a comprehensive frames investigation is conducted every 3 years. This investigation results in the reassessment and recompilation of the complete frame for each survey. The effort also includes the evaluation of the impact of potential frame changes on the historical time series of data from these respondents. The results of this frame study are usually implemented in January to provide a full year under the same frame.

In 1991, EIA conducted a frame identifier survey of companies that produce, blend, store, or import oxygenates. A summary of the results from the identification survey was published in the *Weekly Petroleum Status Report* dated February 12, 1992, and in the February 1992 issue of the *Petroleum Supply Monthly (PSM)*. In order to continue to provide relevant information about U.S. and regional gasoline supply, EIA conducted a second frame identifier survey of those companies during 1992. As a result, numerous respondents were added to the monthly surveys effective in January 1993. See PSM, Appendix B, "Frame."

Note 2. Motor Gasoline. Beginning in January 1981, EIA expanded its universe to include non-refinery blenders and separated blending components from finished motor gasoline as a reporting category. Also, survey forms were modified to describe refinery operations more accurately.

Beginning with the reporting of January 1993 data, EIA made adjustments to the product supplied series for finished motor gasoline. It was recognized that motor gasoline statistics published by EIA through 1992 were underreported because the reporting system was (1) not collecting all fuel ethanol blending, and (2) there was a misreporting of motor gasoline blending components that were blended into finished gasoline. The adjustments are incorporated into EIA's data beginning in January 1993. To facilitate data analysis across the 1992–1993 period, EIA prepared a table of 1992 data adjusted according to the 1993 basis. See *Petroleum Supply Monthly*, March 1993, Table H3.

Note 3. Distillate and Residual Fuel Oils. The requirement to report crude oil in pipelines or burned on leases as either distillate or residual fuel oil was eliminated. Prior to January 1981, the refinery input of unfinished oils typically exceeded the available supply of unfinished oils.

That discrepancy was assumed to be due to the redesignation of distillate and residual fuel oils received as such but used as unfinished oil inputs by the receiving refinery. The imbalance between supply and disposition of unfinished oils would then be subtracted from the production of distillate and residual fuel oils. Two-thirds of that difference was subtracted from distillate and one-third from residual. Beginning in January 1981, EIA modified its survey forms to account for redesignated product and discontinued the above-mentioned adjustment.

Prior to 1983, crude oil burned on leases and used at pipeline pump stations was reported as either distillate or residual fuel oil and was included as product supplied for these products.

Note 4. Petroleum New Stock Basis. In January 1975, 1979, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, affecting subsequent stocks reported and stock change calculations. Using the expanded coverage (new basis), the end-of-year stocks, in million barrels, would have been:

Crude Oil: 1982—645 (Total) and 351 (Non-SPR).

Distillate Fuel Oil: 1974—224; 1980—205; and 1982—186.

Jet Fuel (Total): 1974—30; 1980—42; and 1982—39.

Liquefied Petroleum Gases: 1974—113; 1978—136; 1980—128; and 1982—102.

Propane and Propylene: 1978—86; 1980—69; and 1982—57.

Motor Gasoline (Total): 1974—225; 1980—263; 1982—244.

Residual Fuel Oil: 1974—75; 1980—91; and 1982—69. Total Petroleum: 1974—1,121; 1980—1,425; and 1982—1.461.

Stock change calculations beginning in 1975, 1979, 1981, and 1983 were made by using new basis stock levels.

In January 1984, changes were made in the reporting of natural gas liquids. As a result, unfractionated stream is now reported on a component basis (ethane, propane, normal butane, isobutane, and pentanes plus). This change affects stocks reported and stock change calculations. Under the new basis, 1983 end-of-year stocks, in million barrels, would have been 108 for liquefied petroleum gases, and 55 for propane and propylene.

In January 1993, changes were made in the monthly surveys to begin collecting bulk terminal and pipeline stocks of oxygenates. This change affected stocks reported and stock change calculations. However, a new basis stock level was not calculated for 1992 end-of-year stocks.

Note 5. Stocks of Alaskan Crude Oil. Stocks of Alaskan crude oil in transit were included for the first time in January 1981. The major impact of this change is on the reporting of stock change calculations. Using the expanded coverage (new basis), 1980 end-of-year stocks, in million barrels, would have been 488 (Total) and 380 (Non-SPR).

Note 6. Petroleum Data Discrepancies. Due to differences internal to EIA data processing systems, some small discrepancies exist between data in the *Monthly Energy Review* and the *Petroleum Supply Annual (PSA)* and *Petroleum Supply Monthly (PSM)*. The data that have discrepancies are footnoted in Section 3 tables. The corresponding PSA/PSM values, in thousand barrels per day, are: Natural Gas Plant Liquids Production, 1976: 1,603; Total Exports, 1979: 472; Petroleum Products Exports, 1979: 237; and SPR Crude Oil Imports, 1978: 162.

Note 7. Petroleum Products Supplied and Petroleum **Consumption.** Total petroleum products supplied is the sum of the products supplied for each petroleum product, crude oil, unfinished oils, and gasoline blending components. For each of these except crude oil, product supplied is calculated by adding refinery production, natural gas plant liquids production, new supply of other liquids, imports, and stock withdrawals, and subtracting stock additions, refinery inputs, and exports. Crude oil product supplied is the sum of crude oil burned on leases and at pipeline pump stations as reported on Form EIA-813, "Monthly Crude Oil Report." Prior to 1983, crude oil burned on leases and used at pipeline pump stations was reported as either distillate or residual fuel oil and was included as product supplied for these products. Petroleum product supplied (see Tables 3.5 and 3.6) is an approximation of petroleum consumption and is synonymous with the term "Petroleum Consumption" in Tables 3.7a-3.8c.

Table 3.1 Sources

1973–1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports.

1976–1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports.

1981–2001: EIA, Petroleum Supply Annual (PSA), annual reports.

2002 forward: EIA, PSA, annual reports; *Petroleum Supply Monthly*, monthly reports; revisions to crude oil production, total field production, and adjustments (based on crude oil production data from: State government agencies; U.S. Department of the Interior, Bureau of Safety and Environmental Enforcement, and predecessor agencies; and Form EIA-182, "Domestic Crude Oil First Purchase Report"); and, for the current two months, *Weekly Petroleum Status Report* data system and *Monthly Energy Review* data system calculations.

Table 3.6 Sources

Asphalt and Road Oil, Aviation Gasoline, Distillate Fuel Oil, Kerosene, Propane, Lubricants, Petroleum Coke, and Residual Fuel Oil

Product supplied data in thousand barrels per day for these petroleum products are from Table 3.5, and are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1.

Jet Fuel

Product supplied data in thousand barrels per day for kerosene-type jet fuel and, through 2004, naphtha-type jet fuel are from the U.S. Energy Information Administration's (EIA) *Petroleum Supply Annual (PSA), Petroleum Supply Monthly (PSM)*, and earlier publications (see sources for Table 3.5). These data are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1. Total jet fuel product supplied is the sum of the data in trillion Btu for kerosene-type and naphtha-type jet fuel.

Liquefied Petroleum Gases (LPG) Total

Prior to the current two months, product supplied data in thousand barrels per day for the component products of LPG (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene) are from the PSA, PSM, and earlier publications (see sources for Table 3.5). These data are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1. Total LPG product supplied is the sum of the data in trillion Btu for the LPG component products.

For the current two months, product supplied data in thousand barrels per day for total LPG are from Table 3.5, and are converted to trillion Btu by multiplying by the LPG heat content factors in Table A3.

Motor Gasoline

Product supplied data in thousand barrels per day for motor gasoline are from Table 3.5, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Other Petroleum Products

Prior to the current two months, product supplied data in thousand barrels per day for "other" petroleum products are from the PSA, PSM, and earlier publications (see sources for Table 3.5). "Other" petroleum products include pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products; beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components; beginning in 1983, also includes crude oil burned as fuel; and beginning in 2005, also includes naphtha-type jet fuel. These data are converted to trillion Btu by multiplying by the appropriate heat content factors in MER Table A1. Total "Other" petroleum product supplied is the sum of the data in trillion Btu for the individual products.

For the current two months, total "Other" petroleum products supplied is calculated by first estimating total petroleum products supplied (product supplied data in thousand barrels per day for total petroleum from Table 3.5 are converted to trillion Btu by multiplying by the total petroleum consumption heat content factor in Table A3), and then subtracting data in trillion Btu (from Table 3.6) for asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, total LPG, lubricants, motor gasoline, petroleum coke, and residual fuel oil.

Total Petroleum

Total petroleum products supplied is the sum of the data in trillion Btu for the products (except "Propane") shown in Table. 3.6.

Tables 3.7a-3.7c Sources

Petroleum consumption data in these tables are derived from data for "petroleum products supplied" from the following sources:

1973–1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual."

1976–1980: U.S. Energy Information Administration's (EIA), *Energy Data Reports*, "Petroleum Statement, Annual."

1981–2011: EIA, Petroleum Supply Annual.

2012: EIA, Petroleum Supply Monthly.

Energy-use allocation procedures by individual product are as follows:

Asphalt and Road Oil

All consumption of asphalt and road oil is assigned to the industrial sector.

Aviation Gasoline

All consumption of aviation gasoline is assigned to the transportation sector.

Distillate Fuel Oil

Distillate fuel oil consumption is assigned to the sectors as follows:

Distillate Fuel Oil Consumed by the Electric Power Sector

See sources for Table 7.4b. For 1973–1979, electric utility consumption of distillate fuel oil is assumed to be the amount of petroleum (minus small amounts of kerosene and kerosene-type jet fuel deliveries) consumed in gas turbine and internal combustion plants. For 1980–2000, electric utility consumption of distillate fuel oil is assumed to be the amount of light oil (fuel oil nos. 1 and 2, plus small amounts of kerosene and jet fuel) consumed.

Distillate Fuel Oil Consumed by the End-Use Sectors, Annually

The aggregate end-use amount is total distillate fuel oil supplied minus the amount consumed by the electric power sector. The end-use total consumed annually is allocated to the individual end-use sectors (residential, commercial, industrial, and transportation) in proportion to each sector's share of sales as reported in EIA's *Fuel Oil and Kerosene Sales* (*Sales*) report series (DOE/EIA-0535), which is based primarily on data collected by Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report" (previously Form EIA-172). Shares for the current year are based on the most recent Sales report.

Following are notes on the individual sector groupings:

Since 1979, the residential sector sales total is directly from the Sales reports. Prior to 1979, each year's sales subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares.

Since 1979, the commercial sector sales total is directly from the Sales reports. Prior to 1979, each year's sales subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares.

Since 1979, the industrial sector sales total is the sum of the sales for industrial, farm, oil company, off-highway diesel, and all other uses. Prior to 1979, each year's sales subtotal of the heating plus industrial category is split into residential, commercial, and industrial (including farm) in proportion to the 1979 shares, and this estimated industrial portion is added to oil company, off-highway diesel, and all other uses.

The transportation sector sales total is the sum of the sales for railroad, vessel bunkering, on-highway diesel, and military uses for all years.

Distillate Fuel Oil Consumed by the End-Use Sectors, Monthly

Residential sector and commercial sector monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. (For each month of the current year, the residential and commercial consumption increase from the same month in the previous year is based on the percent increase in that month's No. 2 heating oil sales from the same month in the previous year.) The years' No. 2 heating oil sales totals are from the following sources: for 1973–1980, the Ethyl Corporation, *Monthly Report of Heating Oil Sales*; for 1981 and 1982, the American Petroleum Institute, *Monthly Report of Heating Oil Sales*; and for 1983 forward, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum

Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

The transportation highway use portion is allocated into the months in proportion to each month's share of the year's total sales for highway use as reported by the Federal Highway Administration's Table MF-25, "Private and Commercial Highway Use of Special Fuels by Months." After 1993, the sales-for-highway-use data are no longer available as a monthly series; the 1993 data are used for allocating succeeding year's totals into months.

A distillate fuel oil "balance" is calculated as total distillate fuel oil supplied minus the amount consumed by the electric power sector, residential sector, commercial sector, and for highway use.

Industrial sector monthly consumption is estimated by multiplying each month's distillate fuel oil "balance" by the annual industrial consumption share of the annual distillate fuel oil "balance."

Total transportation sector monthly consumption is estimated as total distillate fuel oil supplied minus the amount consumed by the residential, commercial, industrial, and electric power sectors.

Jet Fuel

Through 1982, small amounts of kerosene-type jet fuel were consumed by the electric power sector. Kerosene-type jet fuel deliveries to the electric power sector as reported on Form FERC-423 (formerly Form FPC-423) were used as estimates of this consumption. Through 2004, all remaining jet fuel (kerosene-type and naphtha-type) is consumed by the transportation sector. Beginning in 2005, kerosene-type jet fuel is consumed by the transportation sector, while naphtha-type jet fuel is classified under "Other Petroleum Products," which is assigned to the industrial sector.

Kerosene

Kerosene product supplied is allocated to the individual end-use sectors (residential, commercial, and industrial) in proportion to each sector's share of sales as reported in EIA's *Fuel Oil and Kerosene Sales* (*Sales*) report series (DOE/EIA-0535), which is based primarily on data collected by Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report" (previously Form EIA-172).

Since 1979, the residential sector sales total is directly from the Sales reports. Prior to 1979, each year's sales category called "heating" is allocated to the residential, commercial, and industrial sectors in proportion to the 1979 shares.

Since 1979, the commercial sector sales total is directly from the Sales reports. Prior to 1979, each year's sales category called "heating" is allocated to the residential,

commercial, and industrial sectors in proportion to the 1979 shares.

Since 1979, the industrial sector sales total is the sum of the sales for industrial, farm, and all other uses. Prior to 1979, each year's sales category called "heating" is allocated to the residential, commercial and industrial sectors in proportion to the 1979 shares, and the estimated industrial (including farm) portion is added to all other uses.

Liquefied Petroleum Gases (LPG)

The annual shares of LPG's total consumption that are estimated to be used by each sector are applied to each month's total LPG consumption to create monthly sector consumption estimates. The annual sector shares are calculated as described below.

Sales of LPG to the residential and commercial sectors combined are converted from thousand gallons per year to thousand barrels per year and are assumed to be the annual consumption of LPG by the combined sectors. Since 2003, residential sector LPG consumption is assumed to equal propane retail sales, with the remainder of the combined residential and commercial LPG consumption being assigned to the commercial sector. Prior to 2003, residential sector LPG consumption is based on the average of the State residential shares for 2003–2008, with the remainder of the combined residential and commercial LPG consumption being assigned to the commercial sector.

The quantity of LPG sold each year for consumption in internal combustion engines is allocated between the transportation and industrial sectors on the basis of data for special fuels used on highways published by the U.S. Department of Transportation, Federal Highway Administration, in *Highway Statistics*. The allocations of LPG sold for internal combustion engine use to the transportation sector range from a low of 20 percent (in 2001) to a high of 78 percent (in 2008).

LPG consumed annually by the industrial sector is estimated as the difference between LPG total product supplied and the sum of the estimated LPG consumption by the residential, commercial, and transportation sectors. The industrial sector LPG consumption includes LPG used by chemical plants as raw materials or solvents and used in the production of synthetic rubber; refinery fuel use; use as synthetic natural gas feedstock and use in secondary recovery projects; all farm use; LPG sold to gas utility companies for distribution through the mains; and a portion of the use of LPG as an internal combustion engine fuel.

Sources of the annual sales data for creating annual energy shares are:

1973–1982: EIA's "Sales of Liquefied Petroleum Gases and Ethane" reports, based primarily on data collected by Form EIA-174, "Sales of Liquefied Petroleum Gases."

1983: End-use consumption estimates for 1983 are based on 1982 end-use consumption because the collection of data under Form EIA-174 was discontinued after data year 1982. 1984 forward: American Petroleum Institute (API), "Sales of Natural Gas Liquids and Liquefied Refinery Gases," which is based on an LPG sales survey jointly sponsored by API, the Gas Processors Association, and the National Liquefied Petroleum Gas Association. EIA adjusts the data to remove quantities of pentanes plus and to estimate withheld values.

Lubricants

The consumption of lubricants is allocated to the industrial and transportation sectors for all months according to proportions developed from annual sales of lubricants to the two sectors from U.S. Department of Commerce, Bureau of the Census, *Current Industrial Reports*, "Sales of Lubricating and Industrial Oils and Greases." The 1973 shares are applied to 1973 and 1974; the 1975 shares are applied to 1975 and 1976; and the 1977 shares are applied to 1977 forward.

Motor Gasoline

The total monthly consumption of motor gasoline is allocated to the sectors in proportion to aggregations of annual sales categories created on the basis of the U.S. Department of Transportation, Federal Highway Administration, *Highway Statistics*, Tables MF-21, MF-24, and MF-25, as follows:

Commercial sales are the sum of sales for public non-highway use and miscellaneous and unclassified uses.

Industrial sales are the sum of sales for agriculture, construction, and industrial and commercial use as classified in the *Highway Statistics*.

Transportation sales are the sum of sales for highway use (minus the sales of special fuels, which are primarily diesel fuel and are accounted for in the transportation sector of distillate fuel) and sales for marine use.

Petroleum Coke

Portions of petroleum coke are consumed by the electric power sector (see sources for Table 7.4b) and the commercial sector (see sources for Table 7.4c). The remaining petroleum coke is assigned to the industrial sector.

Residual Fuel Oil

Residual fuel oil consumption is assigned to the sectors as follows:

Residual Fuel Oil Consumed by the Electric Power Sector

See sources for Table 7.4b. For 1973–1979, electric utility consumption of residual fuel oil is assumed to be the amount of petroleum consumed in steam-electric power plants. For 1980–2000, electric utility consumption of residual fuel oil is assumed to be the amount of heavy oil (fuel oil nos. 4, 5, and 6) consumed.

Residual Fuel Oil Consumed by the End-Use Sectors, Annually

The aggregate end-use amount is total residual fuel oil supplied minus the amount consumed by the electric power sector. The end-use total consumed annually is allocated to the individual end-use sectors (commercial, industrial, and transportation) in proportion to each sector's share of sales as reported in EIA's *Fuel Oil and Kerosene Sales* (*Sales*) report series (DOE/EIA-535), which is based primarily on data collected by Form EIA-821, "Annual Fuel Oil and Kerosene Sales Report" (previously Form EIA-172). Shares for the current year are based on the most recent Sales report.

Following are notes on the individual sector groupings:

Since 1979, commercial sales data are directly from the Sales reports. Prior to 1979, each year's sales subtotal of the heating plus industrial category is allocated to the commercial and industrial sectors in proportion to the 1979 shares.

Since 1979, industrial sales data are the sum of sales for industrial, oil company, and all other uses. Prior to 1979, each year's sales subtotal of the heating plus industrial category is allocated to the commercial and industrial sectors in proportion to the 1979 shares, and the estimated industrial portion is added to oil company and all other uses.

Transportation sales are the sum of sales for railroad, vessel bunkering, and military uses for all years.

Residual Fuel Oil Consumed by the End-Use Sectors, Monthly

Commercial sector monthly consumption is estimated by allocating the annual estimates, which are described above, into the months in proportion to each month's share of the year's sales of No. 2 heating oil. (For each month of the current year, the consumption increase from the same month in the previous year is based on the percent increase in that month's No. 2 heating oil sales from the same month in the previous year.) The years' No. 2 heating oil sales totals are from the following sources: for 1973–1980, the Ethyl Corporation, Monthly Report of Heating Oil Sales; for 1981 and 1982, the American Petroleum Institute, Monthly Report of Heating Oil Sales; and for 1983 forward, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

A residual fuel oil "balance" is calculated as total residual fuel oil supplied minus the amount consumed by the electric power sector, commercial sector, and by industrial combined-heat-and-power plants (see sources for Table 7.4c).

Transportation sector monthly consumption is estimated by multiplying each month's residual fuel oil "balance" by the annual transportation consumption share of the annual residual fuel oil "balance."

Total industrial sector monthly consumption is estimated as total residual fuel oil supplied minus the amount consumed by the commercial, transportation, and electric power sectors.

Other Petroleum Products

Consumption of all remaining petroleum products is assigned to the industrial sector. Other petroleum products include pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

Table 3.8a Sources

Distillate Fuel Oil, Kerosene, Petroleum Coke, and Residual Fuel Oil

Residential and/or commercial sector consumption data in thousand barrels per day for these petroleum products are from Table 3.7a, and are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1.

Liquefied Petroleum Gases (LPG)

Residential and commercial sector consumption data in thousand barrels per day for LPG are from Table 3.7a, and are converted to trillion Btu by multiplying by the propane heat content factor in Table A1.

Motor Gasoline

Commercial sector consumption data in thousand barrels per day for motor gasoline are from Table 3.7a, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Total Petroleum

Residential sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Residential Sector" in Table 3.8a. Commercial sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Commercial Sector" in Table 3.8a.

Table 3.8b Sources

Asphalt and Road Oil, Distillate Fuel Oil, Kerosene, Lubricants, Petroleum Coke, and Residual Fuel Oil Industrial sector consumption data in thousand barrels per day for these petroleum products are from Table 3.7b, and are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1.

Liquefied Petroleum Gases (LPG)

Industrial sector consumption data for LPG are calculated by subtracting LPG consumption data in trillion Btu for the residential (Table 3.8a), commercial (Table 3.8a), and transportation (Table 3.8c) sectors from total LPG consumption (Table 3.6).

Motor Gasoline

Industrial sector consumption data in thousand barrels per day for motor gasoline are from Table 3.7b, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Other Petroleum Products

Industrial sector "Other" petroleum data are equal to the "Other" petroleum data in Table 3.6.

Total Petroleum

Industrial sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown in Table 3.8b.

Table 3.8c Sources

Aviation Gasoline, Distillate Fuel Oil, Lubricants, Petroleum Coke, and Residual Fuel Oil

Transportation and/or electric power sector consumption data in thousand barrels per day for these petroleum products are from Table 3.7c, and are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1.

Jet Fuel

Transportation sector consumption data in thousand barrels per day for kerosene-type jet fuel and, through 2004, naphtha-type jet fuel (see sources for Table 3.7c) are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1. Total transportation sector jet fuel consumption is the sum of the data in trillion Btu for kerosene-type and naphtha-type jet fuel.

Liquefied Petroleum Gases (LPG)

Transportation sector consumption data in thousand barrels per day for LPG are from Table 3.7c, and are converted to trillion Btu by multiplying by the propane heat content factor in Table A1.

Motor Gasoline

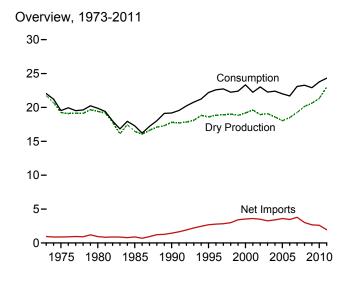
Transportation sector consumption data in thousand barrels per day for motor gasoline are from Table 3.7c, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Total Petroleum

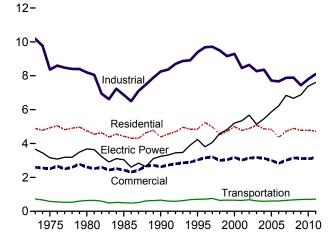
Transportation sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Transportation Sector" in Table 3.8c. Electric power sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Electric Power Sector" in Table 3.8c.

4. Natural Gas

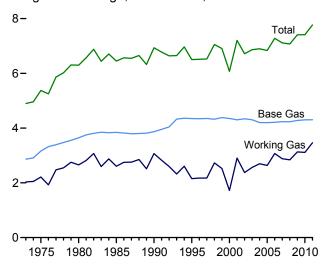
Figure 4.1 Natural Gas (Trillion Cubic Feet)



Consumption by Sector, 1973-2011

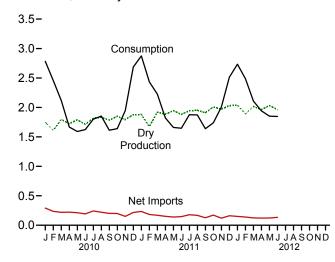


Underground Storage, End of Year, 1973-2011



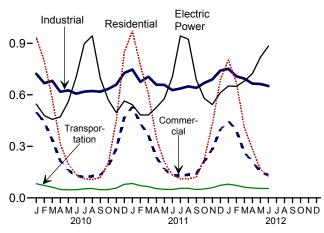
Web Page: http://www.eia.gov/totalenergy/data/monthly/#naturalgas. Sources: Tables 4.1, 4.3, and 4.4.

Overview, Monthly



Consumption by Sector, Monthly





Underground Storage, End of Month

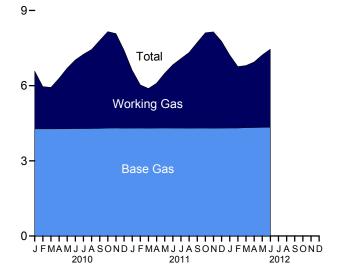


Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

	0	Manhatad			Supple-		Trade		Net		
	Gross With- drawals ^a	Marketed Production (Wet) ^b	Extraction Loss ^c	Dry Gas Production ^d	mental Gaseous Fuels ^e	Imports	Exports	Net Imports	Storage With- drawals ^f	Balancing Item ^g	Consump- tion ^h
1973 Total	24,067	^j 22,648	917	ⁱ 21,731	NA	1,033	77	956	-442	-196	22,049
1975 Total	21,104	ⁱ 20,109	872	ⁱ 19,236	NA	953	73	880	-344	-235	19,538
1980 Total	21,870	20,180	777	19,403	155	985	49	936	23	-640	19,877
1985 Total	19,607	17,270	816	16,454	126	950	55	894	235	-428	17,281
1990 Total	21,523	18,594	784	17,810	123	1,532	86	1,447	-513	307	^j 19,174
1995 Total	23,744	19,506	908	18,599	110	2,841	154	2,687	415	396	22,207
1996 Total	24,114	19,812	958	18,854	109	2,937	153	2,784	2	860	22,609
1997 Total	24,213	19,866	964	18,902	103	2,994	157	2,837	24	871	22,737
1998 Total	24,108	19,961	938	19,024	102	3,152	159	2,993	-530	657	22,246
1999 Total	23,823	19,805	973	18,832	98	3,586	163	3,422	172	-119	22,405
2000 Total	24,174	20,198	1,016	19,182	90	3,782	244	3,538	829	-306	23,333
2001 Total	24,501	20,570	954	19,616	86	3,977	373	3,604	-1,166	99	22,239
2002 Total	23,941	19,885	957	18,928	68	4,015	516	3,499	467	65	23,027
2003 Total	24,119	19,974	876	19,099	68	3,944	680	3,264	-197	44	22,277
2004 Total	23,970	19,517	927	18,591	60	4,259	854	3,404	-114	461	22,403
2005 Total	23,457	18,927	876	18,051	64	4,341	729	3,612	52	236	22,014
2006 Total	23,535	19,410	906	18,504	66	4,186	724	3,462	-436	103	21,699
2007 Total	24,664	20,196	930	19,266	63	4,608	822	3,785	192	-203	23,104
2008 Total	25,636	21,112	953	20,159	61	3,984	963	3,021	34	2	23,277
2009 Total	26,057	21,648	1,024	20,624	65	3,751	1,072	2,679	-355	-103	22,910
2010 January	2,224	1,838	88	1,750	5	385	94	291	822	-86	2,783
February	2,057	1,692	81	1,611	5	324	88	236	628	-24	2,456
March	2,296	1,884	90	1,794	5	319	100	219	34	65	2,117
April	2,187	1,810	86	1,723	5	298	76	223	-364	80	1,667
May	2,231	1,881	90	1,791	5	298	86	212	-416	-2	1,591
June	2,134	1,797	86	1,712	5	282	90	192	-326	41	1,624
July	2,221	1,908	91	1,817	6	329	86	243	-231	-35	1,800
August	2,241	1,924	92	1,832	6	305	84	221	-190	-15	1,853
September	2,251	1,874	89	1,785	5	282	79	202	-363	-16	1,612
October	2,343	1,942	93	1,849	6	295	96	199	-360	-54	1,639
November	2,266	1,882	90	1,792	5	273	124	150	77	-78	1,947
December	2,388	1,971	94	1,877	6	352	135	217	675	-89	2,685
Total	26,836	22,402	1,070	21,332	65	3,741	1,137	2,604	-13	-213	23,775
2011 January	2,309	E 1,972	92	E 1,880	6	371	136	235	799	R -45	R 2,875
February	2,109	E 1,752	79	E 1,674	5	308	125	183	584	R -13	R 2,433
March	2,423	E 2,020	99	E 1,921	6	314	145	170	145	-16	R 2,225
April	2,363	E 1,979	95	E 1,884	5	278	127	152	-212	R -5	R 1,823
May	2,420	E 2,046	101	E 1,945	3	271	132	139	-398	R -28	R 1,661
June	2,330	E 1,977	95	E 1,881	5	265	120	146	-340	R -45	R 1,646
July	2,344	E 2,044	99	E 1,944	5	293	113	179	-244	R -8 R -7	R 1,876
August	2,371	E 2,051	99	E 1,951	5	279	111	168	-244	R - 7	1,872
September	2,371	E 2,005 E 2,112	95 104	E 1,910 E 2.008	5 5	253	127	127	-398	R -60	R 1,639 R 1,739
October	2,496 2,483	E 2,112	104 104	E 1,971	5 5	281 247	110 128	171 120	-385 -37		2,006
November		E 2,074	104	E 2.031	6	247 295			-3 <i>1</i> 384	-52 ^R -68	2,006 R 2,514
December	2,557				61		134	161	-348	R -352	
Total	28,576	E 24,170	1,169	E 23,000	01	3,456	1,507	1,949	-340		R 24,310
2012 January	2,575	E 2,150	109	E 2,042	6	281	130	150	545	R -9	R 2,734
February	2,380	E 1,991	102	E 1,889	5	269	130	139	459	R-6	R 2,487
March	2,539	E 2,125	109	E 2,016	6	265	141	124	-39	R (s)	2,107
April	2,447	E 2,066	105	E 1,961	5	243	122	121	-137	Ř-8	R 1,941
May	R 2,532	RE 2,140	108	RE 2,033	4	257	134	123	-283	R -25	R 1,852
June 6-Month Total	2,424 14,896	E 2,064 E 12,537	103 636	E 1,961 E 11,902	5 31	258 1,573	125 782	134 791	-230 315	-23 -71	1,847 12,967
		,		*							
2011 6-Month Total 2010 6-Month Total	13,955 13,127	E 11,746 10,901	561 521	E 11,185 10,381	30 31	1,807 1,906	784 533	1,023 1,373	577 379	-153 74	12,663 12,238

^a Gas withdrawn from natural gas and crude oil wells; excludes lease

condensate.

^b Gross withdrawals minus repressuring, nonhydrocarbon gases removed, and vented and flared. See Note 1, "Natural Gas Production," at end of section.

^c See Note 2, "Natural Gas Extraction Loss," at end of section.

Marketed production (wet) minus extraction loss.

See Note 3, "Supplemental Gaseous Fuels," at end of section.

Net withdrawals from underground storage. For 1980-2010, also includes net

^{&#}x27; Net withdrawals from underground storage. For 1980-2010, also includes net withdrawals of liquefied natural gas in above-ground tanks. See Note 4, "Natural Gas Storage," at end of section.

g See Note 5, "Natural Gas Balancing Item," at end of section. Since 1980, excludes transit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination via the other country).

h See Note 6, "Natural Gas Consumption," at end of section.

i May include unknown quantities of nonhydrocarbon gases.

^j For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector" on Table 4.3. See Note 7, "Natural Gas Consumption, 1989-1992," at end of section.

R=Revised. E=Estimate. NA=Not available.
Notes: • See Note 8, "Natural Gas Adjustments, 1993-2000," at end of section.

Notes: • See Note 8, "Natural Gas Adjustments, 1993-2000," 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/#naturalgas for all available data beginning in 1973.

Sources: • Imports and Exports: Table 4.2. • Consumption: Table 4.3.
• Balancing Item: Calculated as consumption minus dry gas production, supplemental gaseous fuels, net imports, and net storage withdrawals. • All Other Data: 1973-2006—U.S. Energy Information Administration (EIA), Natural Gas Annual, annual reports. 2007 forward—EIA, Natural Gas Monthly, August 2012, Table 1.

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

-	Imports Exports													
					Imports		·					Exports	1	
							Trinidad							
	Algeria	Canada ^b	Egypta	Mexicob	Nigeriaa	Qatara	and Tobago ^a	Other ^{a,c}	Total	Canadab	Japan ^a	Mexicob	Othera,d	Total
			0,,									1		
1973 Total	3 5	1,028	0	2 0	0 0	0	0	0	1,033 953	15 10	48 53	14 9	0	77 73
1975 Total 1980 Total	86	948 797	0	102	0	0	0	0	953 985	0	53 45	4	0	73 49
1985 Total	24	926	0	0	Ŏ	0	0	0	950	0	53	2	Ö	55
1990 Total	84	1,448	0	0	0	0	0	0	1,532	17	53	16	0	86
1995 Total	18 35	2,816 2.883	0	7 14	0	0	0 0	0 5	2,841 2,937	28 52	65 68	61 34	0	154 153
1997 Total	66	2,899	0	17	0	0	0	12	2,994	56	62	38	Ö	157
1998 Total	69	3,052	0	15	0	0	0	17	3,152	40	66	53	0	159
1999 Total 2000 Total	76 47	3,368 3,544	0	55 12	0 13	20 46	51 99	17 21	3,586 3,782	39 73	64 66	61 106	0	163 244
2001 Total	65	3,729	ŏ	10	38	23	98	14	3,977	167	66	141	ő	373
2002 Total	27	3,785	0	2	.8	35	151	. 8	4,015	189	63	263	0	516
2003 Total 2004 Total	53 120	3,437 3,607	0	0	50 12	14 12	378 462	11 46	3,944 4,259	271 395	66 62	343 397	0	680 854
2005 Total	97	3,700	73	9	8	3	439	11	4,239	358	65	305	0	729
2006 Total	17	3,590	120	13	57	0	389	.0	4,186	341	61	322	0	724
2007 Total 2008 Total	77 0	3,783 3,589	115 55	54 43	95 12	18 3	448 267	18 15	4,608 3,984	482 559	47 39	292 365	2 0	822 963
2009 Total	ŏ	3,271	160	28	13	13	236	29	3,751	701	31	338	3	1,072
2010 January	0	327	17	1	0	12	22	6	385	68	2	23	0	94
February	0	277	12	1	0	6	16	12	324	60	2	22	3	88
March April	0	276 252	9 6	5 5	3 9	1 9	16 15	9 3	319 298	77 50	2 4	21 22	0	100 76
May	0	257	9	4	9	0	16	3	298	55	2	29	0	86
June	0	248	6	2	11	0	11	5	282	51	2	34	3	90
July August	0 0	291 282	6 0	1	5 0	0	17 17	8 5	329 305	50 49	4 2	32 33	0	86 84
September	0	250	6	3	3	0	16	3	282	50	7	23	0	79
October	0	257	3	4	2	5	15	9	295	63	2	25	6	96
November December	0 0	242 322	0	(s) 1	0	9 4	14 15	9 9	273 352	84 82	2	30 38	8 12	124 135
Total	0	3,280	73	30	42	46	190	81	3,741	739	33	333	32	1,137
2011 January	0	331	3	(s)	0	13	16	9	371	85	2	37	13	136
February	0 0	276 275	6 6	(s)	0	0 14	11 10	15 9	308	84 98	2 2	37 41	3 3	125 145
March April	0	275 245	6	(s) (s)	0	14 4	10 11	13	314 278	98 76	2	41 43	6	145 127
May	Ō	235	3	(s)	0	24	8	0	271	80	3	44	6	132
June	0	238	6	(s)	0	5	11	6	265	71	2	47	0	120
July August	0 0	272 249	0	(s) (s)	0 2	5 8	13 11	3 9	293 279	64 67	0 2	47 42	3 0	113 111
September	0	233	0	(s)	0	4	8	9	253	77	2	39	8	127
October	0	^R 249 232	3	1 (s)	0	8	8 12	12 0	281 247	64 84	0 2	43 39	3 3	110 128
November December	0	232 269	3	(s) (s)	0	3 4	10	9	247 295	87	0	39 42	5 5	134
Total	Ŏ	3,104	35	3	2	91	129	92	3,456	937	18	500	52	1,507
2012 January	0	265	0	(s)	0	4	9	3	281	84	3	40	3	130
February March	0	249 246	3	(s) (s)	0	0 4	11 13	6 3	269 265	87 93	2	42 46	0 3	130 141
April	0	235	0	(s)	0	4	1	3	243	77	0	45	0	122
May	0	240	0	(s)	0	6	11	0	257	79	3	52	0	134
June 6-Month Total	0 0	250 1,486	0 3	(s) (s)	0 0	0 16	8 54	0 14	258 1,573	64 483	2 10	58 284	0 6	125 782
2011 6-Month Total 2010 6-Month Total	0	1,600 1,637	29 58	1 19	0 31	60 28	67 96	51 37	1,807 1,906	494 362	12 13	248 151	30 6	784 533

R=Revised. (s)=Less than 500 million cubic feet.

Notes: • See Note 9, "Natural Gas Imports and Exports," at end of section.
• Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#naturalgas for all available data beginning in 1973.

Sources: • 1973-1987: U.S. Energy Information Administration (EIA), Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." • 1988-2009: EIA, Natural Gas Annual, annual reports. • 2010 forward: EIA, Natural Gas Monthly, August 2012, Tables 4 and 5; and U.S. Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports."

As liquefied natural gas.
 By pipeline, except for very small amounts of liquefied natural gas imported from Canada in 1973, 1977, and 1981 and exported to Mexico beginning in 1998.
 See Note 9, "Natural Gas Imports and Exports," at end of section.
 Australia in 1997-2001 and 2004; Brunei in 2002; Equatorial Guinea in 2007; Indonesia in 1986 and 2000; Malaysia in 1999 and 2002-2005; Norway in 2008 forward; Oman in 2000-2005; Peru in 2010 and 2011; United Arab Emirates in 1998-2000; Verman in 2010 forward; and Other (unassigned) in 2004

^{1996-2000;} Yemen in 2010 forward; and Other (unassigned) in 2004.

d Brazil in 2010 forward; China in 2011; Chile in 2011; India in 2010 forward; Russia in 2007; South Korea in 2009-2011; Spain in 2010 and 2011; and United Kingdom in 2010 and 2011.

Table 4.3 Natural Gas Consumption by Sector

(Billion Cubic Feet)

			<u>'</u>									
						se Sectors		I _			-	
					Industrial				ansportatio	n	-	
	Resi-	Com-	Lease and		Other Industr	ial		Pipelines ^d and Dis-	Vehicle		Electric Power	
	dential	merciala	Plant Fuel	CHPb	Non-CHP ^c	Total	Total	tributione	Fuel	Total	Sector ^{f,g}	Total
1973 Total 1975 Total 1980 Total 1985 Total	4,879 4,924 4,752 4.433	2,597 2,508 2,611 2,432	1,496 1,396 1,026 966	(h) (h)	8,689 6,968 7,172 5,901	8,689 6,968 7,172 5,901	10,185 8,365 8,198 6,867	728 583 635 504	NA NA NA NA	728 583 635 504	3,660 3,158 3,682 3,044	22,049 19,538 19,877 17,281
1990 Total	4,391	2,623	1,236	1,055	i 5,963	ⁱ 7,018	8,255	660	(s)	660	i 3,245	ⁱ 19,174
1995 Total 1996 Total	4,850 5.241	3,031 3,158	1,220 1,250	1,258 1,289	6,906 7,146	8,164 8,435	9,384 9,685	700 711	`5 6	705 718	4,237 3,807	22,207 22.609
1997 Total	4,984	3,215	1,203	1,282	7,229	8,511	9,714	751	8	760	4,065	22,737
1998 Total 1999 Total	4,520 4,726	2,999 3,045	1,173 1,079	1,355 1,401	6,965 6,678	8,320 8,079	9,493 9,158	635 645	9 12	645 657	4,588 4,820	22,246 22,405
2000 Total	4,996	3,182	1,151	1,386	6,757	8,142	9,293 8,463	642	13	655 640	5,206	23,333 22,239
2001 Total 2002 Total	4,771 4,889	3,023 3,144	1,119 1,113	1,310 1,240	6,035 6,287	7,344 7,527	8,640	625 667	15 15	682	5,342 5,672	22,239
2003 Total 2004 Total	5,079 4.869	3,179 3,129	1,122 1,098	1,144 1,191	6,007 6,066	7,150 7,256	8,273 8,354	591 566	18 21	610 587	5,135 5,464	22,277 22,403
2005 Total	4,827	2,999	1,112	1,084	5,518	6,601	7,713	584	23	607	5,869	22,014
2006 Total 2007 Total	4,368 4.722	2,832 3,013	1,142 1,226	1,115 1,050	5,412 5,604	6,527 6,655	7,669 7,881	584 621	24 25	608 646	6,222 6,841	21,699 23,104
2008 Total	4,892	3,153	1,220	955	5,715	6,670	7,890	648	26	674	6,668	23,277
2009 Total	4,779	3,119	1,275	990	5,178	6,167	7,443	670	27	697	6,873	22,910
2010 January February	934 796	499 441	106 98	90 80	526 490	616 570	722 667	80 70	3 2	82 72	546 480	2,783 2,456
March	580	337	109	84	488	572	681	60	3 3	62	457	2,117
April May	313 198	215 161	104 107	79 82	435 437	514 519	618 626	46 44	3 3	49 47	471 560	1,667 1,591
June	134	130	102	84	420	504	607	45	3	48	706	1,624
July August	111 107	120 127	107 108	91 95	420 419	512 514	619 622	50 52	3	53 55	897 943	1,800 1,853
September	117	133	107	87	424	511	618	45	3	47	697	1,612
October November	202 447	185 287	112 108	84 82	438 469	522 551	634 659	45 55	3	48 57	570 497	1,639 1,947
December	848 4,787	467 3,102	114	92	521	613	727 7,800	76	3 31	79 700	564 7,387	2,685
Total	•	,	1,282	1,029	5,488	6,517	•	669			•	23,775
2011 January February	^R 972 ^R 771	529 433	E 113 E 100	89 79	^R 545 ^R 496	^R 634 ^R 575	^R 747 676	E 81 E 68	E 3 E 3	E 84 E 71	542 482	^R 2,875 ^R 2,433
March	607 R 348	R 365 236	E 116 E 113	81	R 508 R 463	R 590 R 545	^R 705 ^R 659	E 63 E 51	E 3	E 65 E 54	483	R 2,225 R 1,823
April May	208	168	E 117	82 87	R 454	R 540	R 658	E 47	ΕŠ	E 50	526 578	R 1.661
June	R 134 112	R 132 R 130	E 113 E 117	83 88	R 431 R 432	^R 514 ^R 520	^R 627 ^R 637	E 46 E 53	E 3	E 49 E 56	705 942	R 1,646 R 1,876
July August	109	R 135	E 117	89	R 442	R 531	R 649	E 53	E 3	E 55	923	1.872
September October	122 R 227	141 ^R 214	E 115 E 121	84 81	^R 442 ^R 467	^R 526 ^R 548	^R 641 ^R 669	E 46 E 49	E 3	E 49 E 52	686 578	R 1,639 R 1,739
November	R 430	R 284	E 119	86	486	R 571	R 690	E 56	E 3	E 59	543	2.006
December Total	688 R 4,730	398 R 3,164	E 122 E 1,383	94 1,024	R 525 R 5,691	R 619 R 6,714	R 741 R 8,098	E 71 E 684	E 33 E 33	E 74 E 717	612 7,602	R 2,514 R 24,310
2012 January	R 803	448	E 123	94	534	628	751	E 77	E3	E 80	651	R 2,734
February	668	R 390	E 114	87	507	594	^R 707	E 70	E 3	E 73	649	R 2,487
March April	408 283	263 212	E 122 E 118	89 84	^R 483 463	^R 572 547	694 665	E 59 E 55	E 3 E 3	E 62 E 57	680 724	2,107 R 1,941
May	165	150	RE 123	90	R 450	R 541	R 663	E 52	E 3	E 55	819	R 1,852
June 6-Month Total	125 2,451	133 1,596	E 118 E 718	92 536	441 2,878	533 3,415	651 4,132	^E 52 ^E 365	E 16	E 55 E 381	884 4,407	1,847 12,967
2011 6-Month Total 2010 6-Month Total	3,041 2,955	1,862 1,783	^E 672 626	502 498	2,897 2,797	3,399 3,295	4,071 3,921	^E 356 345	E 16 15	E 373 360	3,316 3,219	12,663 12,238

a All commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Table 7.4c for CHP fuel use.
b Industrial combined-heat-and-power (CHP) and a small number of industrial

gaseous fuels. • See Note 8, "Natural Gas Adjustments, 1993-2000," at end of section. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • 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/#naturalgas for all available data beginning in 1973.

Sources: • Residential, Commercial, Lease and Plant Fuel, Other Industrial Total and Pipelines and Distribution: 1973-2006—U.S. Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports and unpublished revisions. 2007 forward—EIA, Natural Gas Monthly (NGM), August 2012, Table 2. • Industrial CHP: Table 7.4c. • Vehicle Fuel: 1990 and 1991—EIA, NGA 2000, (November 2001), Table 95. 1992-1998—EIA, "Alternatives to Traditional Transportation Fuels 1999" (October 1999), Table 10, and "Alternatives to Traditional Transportation Fuels 2003" (February 2004), Table 10. Data for compressed natural gas and liquefied natural gas in gasoline-equivalent gallons were converted to cubic feet by multiplying by the motor gasoline conversion factor (see Table A4), 1999-2006—EIA, NGA, annual reports. 2007 forward—EIA, NGM, August 2012, Table 2. • Electric Power Sector: Table 7.4b. Sector: Table 7.4b.

Industrial combined-heat-and-power (CHP) and a small number of industrial

b Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants.

c All industrial sector fuel use other than that in "Lease and Plant Fuel" and "CHP."

d Natural gas consumed in the operation of pipelines, primarily in compressors. e Natural gas used as fuel in the delivery of natural gas to consumers.

f 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.

g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

h Included in "Non-CHP."

i For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector." See Note 7, "Natural Gas Consumption, 1989-1992," at end of section.

R=Revised. E=Estimate. NA=Not available. (s)=Less than 500 million cubic feet.

Notes:

Data are for natural gas, plus a small amount of supplemental

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	Natural Gas in Underground Storage, End of Period Base Gas Working Gas Total ^a		θ,	From Sar Previou		Storage Activity			
	Base Gas	Working Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,c}	
73 Total	2.864	2,034	4,898	305	17.6	1,533	1,974	-442	
75 Total	3,162	2,212	5,374	162	7.9	1,760	2.104	-344	
30 Total	3,642	2,655	6,297	-99	-3.6	1,910	1.896	14	
35 Total	3,842	2,607	6,448	-270	-9.4	2,359	2,128	231	
90 Total	3,868	3,068	6,936	555	22.1	1,934	2,433	-499	
	3,000 4.349	2,153	6,503	-453	-17.4	2.974	2,433 2,566	-499 408	
95 Total						,-			
96 Total	4,341	2,173	6,513	19	.9	2,911	2,906	6	
97 Total	4,350	2,175	6,525	_2	.1	2,824	2,800	24	
98 Total	4,326	2,730	7,056	554	25.5	2,379	2,905	-526	
99 Total	4,383	2,523	6,906	-207	-7.6	2,772	2,598	174	
00 Total	4,352	1,719	6,071	-806	-31.9	3,498	2,684	814	
01 Total	4,301	2,904	7,204	1,185	68.9	2,309	3,464	-1,156	
02 Total	4,340	2,375	6,715	-528	-18.2	3,138	2,670	468	
3 Total	4,303	2,563	6,866	187	7.9	3,099	3,292	-193	
04 Total	4,201	2,696	6,897	133	5.2	3,037	3,150	-113	
05 Total	4,200	2,635	6,835	-61	-2.3	3.057	3.002	55	
06 Total	4,211	3,070	7,281	435	16.5	2,493	2,924	-431	
07 Total	4,234	2,879	7,113	-191	-6.2	3,325	3,133	192	
08 Total	4,232	2,840	7,073	-39	-1.4	3,374	3,340	34	
09 Total	4,277	3,130	7,407	290	10.2	2,966	3,315	-349	
0 January	4,276	2,304	6,580	171	8.0	873	63	811	
February	4,278	1,683	5,961	-75	-4.2	657	38	619	
March	4,278	1,652	5,930	-7	4	238	207	31	
April	4.278	2.011	6.289	101	5.3	68	427	-360	
May	4,279	2,420	6,699	45	1.9	53	463	-410	
June	4,287	2,740	7,027	-20	7	64	385	-321	
			7,027	-125	<i>1</i> -4.0				
July	4,287	2,966				112	339 323	-227	
August	4,290	3,153	7,443	-206	-6.1	137		-186	
September	4,294	3,508	7,801	-138	-3.8	52	411	-359	
October	4,305	3,851	8,156	41	1.1	52	407	-355	
November	4,309	3,769	8,078	-69	-1.8	237	163	74	
December	4,301	3,111	7,412	-19	6	731	66	665	
Total	4,301	3,111	7,412	-19	6	3,274	3,291	-17	
1 January	4,306	2,308	6,614	4	.2	852	53	799	
February	4,306	1,724	6,029	40	2.4	668	84	584	
March	4,304	1,581	5,884	-72	-4.3	317	172	145	
April	4,307	1,789	6,096	-222	-11.0	108	320	-212	
May	4,308	2,188	6,495	-232	-9.6	66	464	-398	
June	4,305	2,530	6,835	-210	-7.7	90	430	-340	
July	4,304	2,774	7,079	-192	-6.5	124	368	-244	
August	4,304	3,020	7,323	-133	-4.2	138	382	-244	
September	4.305	3.416	7,721	-92	-2.6	64	462	-398	
October	4,305	3,804	8,109	-46	-1.2	62	448	-385	
November	4,302	3,843	8,145	74	2.0	198	235	-37	
December	4,302	3,462	7.767	351	11.3	488	105	384	
Total	4,305 4,305	3,462 3,462	7,767	351	11.3	3,175	3,523	-348	
2 January	4,307	2,916	7,223	608	26.4	633	88	545	
February	4,307	2,455	6,762	731	42.4	526	67	459	
March	4,325	2,477	6,802	896	56.7	217	256	-39	
April	4.329	2,613	6,942	824	46.1	144	282	-137	
May	4,334	2,890	7,225	703	32.1	92	375	-283	
			7,225 7,456	589	23.3	109	339	-203 -230	
June 6-Month Total	4,337 	3,118 	7,430		23.3	1,722	1, 407	-230 315	
1 6-Month Total						2.101	1.524	577	

 ^a For total underground storage capacity at the end of each calendar year, see
 Note 4, "Natural Gas Storage," at end of section.
 ^b For 1980-2010, data differ from those shown on Table 4.1, which includes

1976-1979—EIA, Natural Gas Production and Consumption 1979, Table 1.
1980-1995—EIA, Historical Natural Gas Annual 1930 Through 2000, Table 11.
1996-2006—EIA, Natural Gas Monthly (NGM), monthly issues. 2007 forward—EIA, NGM, August 2012, Table 8. • All Other Data: 1973 and 1974—American Gas Association, Gas Facts, 1972 Data, Table 57, Gas Facts, 1973 Data, Table 57, and Gas Facts, 1974 Data, Table 40. 1975 and 1976—Federal Energy Administration (FEA), Form FEA-G318-M-0, "Underground Gas Storage Report." and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report." 1977 and 1978—EIA, Form FEA-G318-M-0, "Underground Gas Storage Report." and Federal Energy Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report." 1979-1995—EIA, Form EIA-191, "Underground Gas Storage Report." and FERC, Form FERC-8, "Underground Gas Storage Report." 1976-2006—EIA, NGM, monthly issues. 2007 forward—EIA, NGM, August 2012, Table 8.

liquefied natural gas storage for that period.

^c Positive numbers indicate that withdrawals are greater than injections. Negative numbers indicate that injections are greater than withdrawals. Net withdrawals or injections may not equal the difference between applicable ending

withdrawals or injections may not equal the difference between applicable ending stocks. See Note 4, "Natural Gas Storage," at end of section.

Notes: • 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/#naturalgas for all available data beginning in 1973.

Sources: • Storage Activity: 1973-1975—U.S. Energy Information Administration (EIA), Natural Gas Annual 1994, Volume 2, Table 9.

Natural Gas

Note 1. Natural Gas Production. Final annual data are from the U.S. Energy Information Administration (EIA) *Natural Gas Annual (NGA)*.

Data for the two most recent months presented are estimated. Some of the data for earlier months are also estimated or computed. For a discussion of computation and estimation procedures, see the EIA *Natural Gas Monthly (NGM)*.

Monthly data are considered preliminary until after publication of the EIA NGA. Preliminary monthly data are gathered from reports to the Interstate Oil Compact Commission and the U.S. Minerals Management Service. Volumetric data are converted, as necessary, to a standard 14.73 psi pressure base. Unless there are major changes, data are not revised until after publication of the EIA NGA.

Differences between annual data in the EIA NGA and the sum of preliminary monthly data (January–December) are allocated proportionally to the months to create final monthly data.

Note 2. Natural Gas Extraction Loss. Extraction loss is the reduction in volume of natural gas resulting from the removal of natural gas liquid constituents at natural gas processing plants.

Annual data are from the EIA NGA, where they are estimated on the basis of the type and quantity of liquid products extracted from the gas stream and the calculated volume of such products at standard conditions. For a detailed explanation of the calculations used to derive estimated extraction losses, see the EIA NGA.

Preliminary monthly data are estimated on the basis of extraction loss as an annual percentage of marketed production. This percentage is applied to each month's marketed production to estimate monthly extraction loss.

Monthly data are revised and considered final after the publication of the EIA NGA. Final monthly data are estimated by allocating annual extraction loss data to the months on the basis of total natural gas marketed production data from the EIA NGA.

Note 3. Supplemental Gaseous Fuels. Supplemental gaseous fuels are any substances that, introduced into or commingled with natural gas, increase the volume available for disposition. Such substances include, but are not limited to, propane-air, refinery gas, coke oven gas, still gas, manufactured gas, biomass gas, and air or inert gases added for Btu stabilization.

Annual data beginning with 1980 are from the EIA NGA. Unknown quantities of supplemental gaseous fuels are included in consumption data for 1979 and earlier years.

Monthly data are considered preliminary until after the publication of the EIA NGA. Monthly estimates are based on the annual ratio of supplemental gaseous fuels to the sum of dry gas production, net imports, and net withdrawals from storage. The ratio is applied to the monthly sum of the three elements to compute a monthly supplemental gaseous fuels figure.

Although the total amount of supplemental gaseous fuels consumed is known for 1980 forward, the amount consumed by each energy-use sector is estimated by EIA. These estimates are used to create natural gas (without supplemental gaseous fuels) data for Tables 1.3, 2.2, 2.3, 2.4, and 2.6 (note: to avoid double-counting in these tables, supplemental gaseous fuels are accounted for in their primary energy category: "Coal," "Petroleum," or "Biomass"). It is assumed that supplemental gaseous fuels are commingled with natural gas consumed by the residential, commercial, other industrial, and electric power sectors, but are not commingled with natural gas used for lease and plant fuel, pipelines and distribution, or vehicle fuel. The estimated consumption of supplemental gaseous fuels by each sector (residential, commercial, other industrial, and electric power) is calculated as that sector's natural gas consumption (see Table 4.3) divided by the sum of natural gas consumption by the residential, commercial, other industrial, and electric power sectors (see Table 4.3), and then multiplied by total supplemental gaseous fuels consumption (see Table 4.1). For estimated sectoral consumption of supplemental gaseous fuels in Btu, the residential, commercial, and other industrial values in cubic feet are multiplied by the "End-Use Sectors" conversion factors (see Table A4), and the electric power values in cubic feet are multiplied by the "Electric Power Sector" conversion factors (see Table A4). Total supplemental gaseous fuels consumption in Btu is calculated as the sum of the Btu values for the sectors.

Note 4. Natural Gas Storage. Natural gas in storage at the end of a reporting period may not equal the quantity derived by adding or subtracting net injections or withdrawals from the quantity in storage at the end of the previous period. The difference is due to changes in the quantity of native gas included in the base gas and/or losses in base gas due to migration from storage reservoirs.

Total underground storage capacity, which includes both active and inactive fields, at the end of each calendar year since 1975 (first year data were available), in billion cubic feet, was:

1975 6,280	1988 8,124	2001 8,182
1976 6,544	1989 8,120	2002 8,207
1977 6,678	1990 7,794	2003 8,206
1978 6,890	1991 7,993	2004 8,255
1979 6,929	1992 7,932	2005 8,268
1980 7,434	1993 7,989	2006 8,330
1981 7,805	1994 8,043	2007 8,402
1982 7,915	1995 7,953	2008 8,499
1983 7,985	1996 7,980	2009 8,656
1984 8,043	1997 8,332	2010 8,764
1985 8,087	1998 8,179	2011 ^p 8,776
1986 8,145	1999 8,229	
1987 8,124	2000 8,241	

P=Preliminary

Monthly underground storage data are collected from the Federal Energy Regulatory Commission Form FERC-8 (interstate data) and EIA Form EIA-191 (intrastate data). Beginning in January 1991, all data are collected on the revised Form EIA-191. Injection and withdrawal data from the FERC-8/EIA-191 survey are adjusted to correspond to data from Form EIA-176 following publication of the EIA NGA.

The final monthly and annual storage and withdrawal data for 1980–2010 include both underground and liquefied natural gas (LNG) storage. Annual data on LNG additions and withdrawals are from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying the ratio to the annual LNG data.

Note 5. Natural Gas Balancing Item. The balancing item for natural gas represents the difference between the sum of the components of natural gas supply and the sum of components of natural gas disposition. The differences may be due to quantities lost or to the effects of data reporting problems. Reporting problems include differences due to the net result of conversions of flow data metered at varying temperature and pressure bases and converted to a standard temperature and pressure base; the effect of variations in company accounting and billing practices; differences between billing cycle and calendar period time frames; and imbalances resulting from the merger of data reporting systems that vary in scope, format, definitions, and type of respondents.

The increase of 0.2 trillion cubic feet (Tcf) in the "Balancing Item" category in 1983, followed by a decline of 0.5 Tcf in 1984, reflected unusually large differences resulting from the use of the annual billing cycle (essentially December 15 through the following December 14) consumption data in conjunction with calendar year supply data. Record cold temperatures during the last half of December 1983 resulted in a reported 0.3 Tcf increase in net withdrawals from underground storage for peak shaving as compared with the same period in 1982, but the effect of this cold weather was reflected primarily in 1984 consumption data. For underground storage data, see Table F2 in the May 1985 EIA NGM, which was published in July 1985.

Note 6. Natural Gas Consumption. Consumption includes use for lease and plant fuel, pipelines and distribution, vehicle fuel, and electric power plants, as well as deliveries to residential, commercial, and other industrial customers.

Final data for series other than "Other Industrial CHP" and "Electric Power Sector" are from the EIA NGA. Monthly data are considered preliminary until after publication of the EIA NGA. For more detailed information on the methods of estimating preliminary and final monthly data, see the EIA NGM.

Note 7. Natural Gas Consumption, 1989–1992. Prior to 1993, deliveries to nonutility generators were not separately collected from natural gas companies on Form

EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition." As a result, for 1989 through 1992, those volumes are probably included in both the industrial and electric power sectors and double-counted in total consumption. In 1993, 0.28 trillion cubic feet was reported as delivered to nonutility generators.

Note 8. Natural Gas Data Adjustments, 1993–2000. For 1993–2000, the original data for natural gas delivered to industrial consumers (now "Other Industrial" in Table 4.3) included deliveries to both industrial users and independent power producers (IPPs). These data were adjusted to remove the estimated consumption at IPPs from "Other Industrial" and include it with electric utilities under "Electric Power Sector." (To estimate the monthly IPP consumption, the monthly pattern for Other Industrial CHP in Table 4.3 was used.)

For 1996-2000, monthly data for several natural gas series Natural Gas Navigator in EIA's http://www.eia.gov/dnav/ng/ng cons sum dcu nus m.htm) were not reconciled and updated to be consistent with the final annual data in EIA's NGA. In the Monthly Energy Review, monthly data for these series were adjusted so that the monthly data sum to the final annual values. The Table 4.1 data series (and years) that were adjusted are: Gross Withdrawals (1996, 1997), Marketed Production (1997), Extraction Loss (1997, 1998, 2000), Dry Gas Production (1996, 1997), Supplemental Gaseous Fuels (1997–2000), Balancing Item (1997-2000), and Total Consumption (1997 The Table 4.3 data series (and years) that were adjusted are: Lease and Plant Fuel (1997-2000), Total Industrial (1997-2000), Pipelines and Distribution (2000), Total Transportation (2000), and Total Consumption (1997–2000).

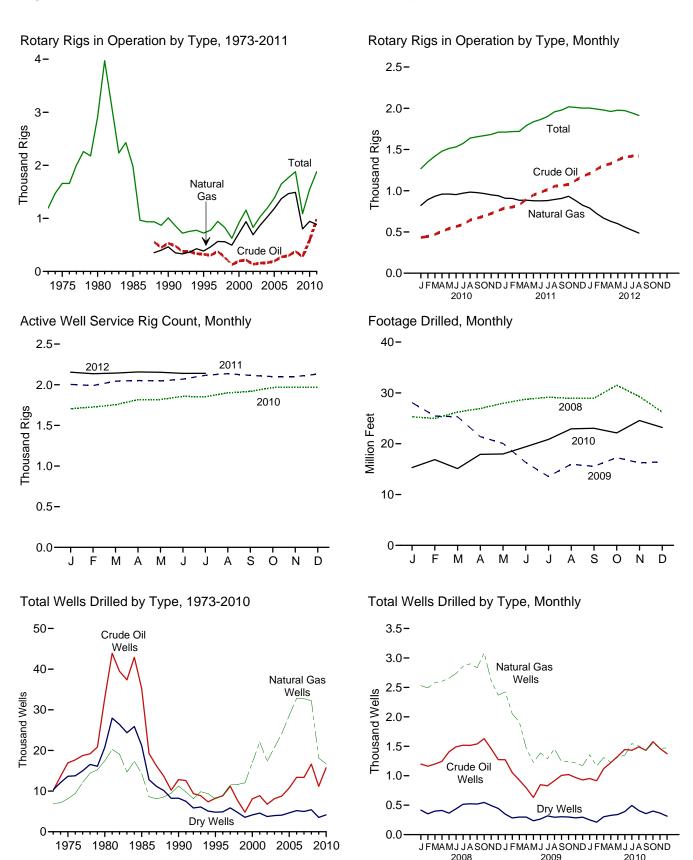
Note 9. Natural Gas Imports and Exports. The United States imports natural gas via pipeline from Canada and Mexico; and imports liquefied natural gas (LNG) via tanker from Algeria, Australia, Brunei, Egypt, Equatorial Guinea, Indonesia, Malaysia, Nigeria, Norway, Oman, Peru, Qatar, Trinidad and Tobago, the United Arab Emirates, and Yemen. In addition, very small amounts of LNG arrived from Canada in 1973 (667 million cubic feet), 1977 (572 million cubic feet), and 1981 (6 million cubic feet). The United States exports natural gas via pipeline to Canada and Mexico; and exports LNG via tanker to Brazil, China, Chile, India, Japan, Russia, South Korea, Spain, and United Kingdom. Also, small amounts of LNG have gone to Mexico since 1998.

Annual and final monthly data are from the annual EIA Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas," which requires data to be reported by month for the calendar year.

Preliminary monthly data are EIA estimates. For a discussion of estimation procedures, see the EIA NGM. Preliminary data are revised after the publication of the EIA *U.S. Imports and Exports of Natural Gas*.

5. Crude Oil and Natural Gas Resource Development

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators



Web Page: http://www.eia.gov/totalenergy/data/monthly/#crude. Sources: Tables 5.1 and 5.2.

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements

(Number of Rigs)

		Ro	otary Rigs in Operation	n ^a		
	Ву	Site	Ву	Туре		Active
	Onshore	Offshore	Crude Oil	Natural Gas	Total ^b	Well Service Rig Count ^c
1973 Average	1,110	84	NA	NA	1,194	2,008
1975 Average	1,554	106	NA	NA	1,660	2,486
1980 Average	2,678	231	NA	NA	2,909	4,089
1985 Average	1,774	206	NA	NA	1,980	4,716
1990 Average	902	108	532	464	1,010	3,658
1995 Average	622	101	323	385	723	3,041
1996 Average	671	108	306	464	779	3,445
1997 Average	821	122	376	564	943	3,499
998 Average	703	123	264	560	827	3,014
1999 Average	519	106	128	496	625	2,232
2000 Average	778	140	197	720	918	2,692
2001 Average	1,003	153	217	939	1,156	2,267
2002 Average	717	113	137	691	830	1,830
2003 Average	924	108	157	872	1,032	1,967
2004 Average	1,095	97	165	1,025	1,192	2,064
2005 Average	1,287	94	194	1,184	1,381	2,222
2006 Average	1,559	90	274	1,372	1,649	2,364
2007 Average	1,695	72 65	297	1,466	1,768	2,388
2008 Average 2009 Average	1,814 1.046	65 44	379 278	1,491 801	1,879 1.089	2,515 1,722
-	,-				,	,
2010 January	1,225	42	433	822	1,267	1,706
February	1,305	45	446	892	1,350	1,726
March	1,368	51	471	933	1,419	1,754
April	1,426	53	508	959	1,479	1,816
May	1,464	49	541	960	1,513	1,818
June	1,511	20	566	953	1,531	1,857
July	1,558	15	591	971	1,573	1,852
August	1,619	20	644	983	1,638	1,900
September	1,635	19	668	977	1,655	1,918
October	1,647	21	693	966	1,668	1,965
November	1,662	22	723	950	1,683	1,971
December Average	1,687 1,514	24 31	759 591	940 943	1,711 1,546	1,968 1,854
-	,	-	700	000	,	
2011 January	1,686	26	793	909	1,711	2,004
February	1,692	26	801	907	1,718	1,990
March	1,694 1.762	26	830 896	884 885	1,720 1.790	2,044 2.052
April	1,762	28 32	948	878	1,790	2,052
May	1,804	32 34	946 979	877	1,863	2,047
June	1,865	35	1,014	880	1,900	2,116
July	1,923	35	1,014	894	1,957	2,136
August	1,923	32	1,055	907	1,937	2,130
September October	1,982	35	1,003	933	2.017	2,113
November	1,974	37	1,125	880	2,017	2,100
December	1,961	42	1,177	824	2,002	2,100
Average	1,846	32	984	887	1,879	2,075
2040 January	4.004	40	4.000	700	0.000	0.454
2012 January	1,961 1.949	42 42	1,208 1,261	790 723	2,003 1.990	2,154 2.135
February	1,949	42 43	1,261	723 667	1,990	2,135
March	1,935	43 44	1,307	629	1,979	2,143 2,157
April	1,917	44 46			1,961	2,157
May			1,373	600		
June	1,923 1.894	49 51	1,409 1.419	558 522	1,972 1.944	2,139 2.140
July						
August	1,863	51	1,423	487 617	1,913	NA NA
8-Month Average	1,920	46	1,345	617	1,966	NA
2011 8-Month Average	1,784	30	917	889	1,814	2,057

a Rotary rigs in operation are reported weekly. Monthly data are averages of 4-or 5-week reporting periods, not calendar months. Multi-month data are averages of the reported data over the covered months, not averages of the weekly data. Annual data are averages over 52 or 53 weeks, not calendar years. Published data are rounded to the nearest whole number.
 b Sum of rigs drilling for crude oil, rigs drilling for natural gas, and other rigs (not shown) drilling for miscellaneous purposes, such as service wells, injection wells, and stratigraphic tests.
 c The number of rigs doing true workovers (where tubing is pulled from the well), or doing rod string and pump repair operations, and that are, on average, crewed and working every day of the month.

NA=Not available.

NA=Not available.

Note: Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#crude for all available data beginning in 1973.

Sources: • Rotary Rigs in Operation: Baker Hughes, Inc., Houston, TX, Rotary Rigs Running—by State, used with permission. See http://investor.shareholder.com/bhi/rig_counts/rc_index.cfm. • Active Well Service Rig Count: Cameron International Corporation, Houston, TX. See http://www.c-a-m.com/Forms/Product.aspx?prodID=cdc209c4-79a3-47e5-99c2-fdeda6d4aad6.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

	Wells Drilled Exploratory Development Total												
		Exploi	atory			Develo	pment			То	tal		Total
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Footage Drilled
						Num	ber						Thousand Feet
1973 Total 1975 Total 1980 Total	642 982 1,777	1,067 1,248 2,099	5,952 7,129 9,081	7,661 9,359 12,957	9,525 15,966 31,182	5,866 6,879 15,362	4,368 6,517 11,704	19,759 29,362 58,248	10,167 16,948 32,959	6,933 8,127 17,461	10,320 13,646 20,785	27,420 38,721 71,205	138,223 180,494 316,943
1985 Total 1990 Total 1995 Total 1996 Total 1997 Total	1,680 778 570 489 491	1,200 811 558 576 562	8,954 3,652 2,024 1,956 2,113	11,834 5,241 3,152 3,021 3,166	33,581 12,061 7,678 8,347 10,715	13,124 10,435 7,524 8,451 10,936	12,257 4,593 2,790 2,934 3,761	58,962 27,089 17,992 19,732 25,412	35,261 12,839 8,248 8,836 11,206	14,324 11,246 8,082 9,027 11,498	21,211 8,245 4,814 4,890 5,874	70,796 32,330 21,144 22,753 28,578	314,409 156,044 117,156 126,365 161,249
1998 Total 1999 Total 2000 Total 2001 Total	327 197 288 357	566 570 657 1,052	1,590 1,157 1,341 1,733	2,483 1,924 2,286 3,142	7,355 4,608 7,802 8,531	11,073 11,457 16,394 21,020	3,171 2,393 2,805 2,865	21,599 18,458 27,001 32,416	7,682 4,805 8,090 8,888	11,639 12,027 17,051 22,072	4,761 3,550 4,146 4,598	24,082 20,382 29,287 35,558	137,202 102,861 144,425 180,141
2002 Total 2003 Total 2004 Total 2005 Total	258 350 383 539 646	844 997 1,671 2,141 2,456	1,282 1,297 1,350 1,462 1,547	2,384 2,644 3,404 4,142 4,649	6,517 7,779 8,406 10,240 12,739	16,498 19,725 22,515 26,449 30,382	2,472 2,685 2,732 3,191 3,659	25,487 30,189 33,653 39,880 46,780	6,775 8,129 8,789 10,779 13,385	17,342 20,722 24,186 28,590 32,838	3,754 3,982 4,082 4,653 5,206	27,871 32,833 37,057 44,022 51,429	145,159 177,239 204,279 240,307 282,675
2007 Total 2008 January	808 88	2,794 208	1,582 144	5,184 440	12,563 1,111	29,925 2,321	3,399 272	45,887 3,704	13,371 1,199	32,719 2,529	4,981 416	51,071 4,144	301,515 25,306
February March April	82 66 68	230 216 189	107 127 130	419 409 387	1,080 1,132 1,177	2,261 2,363 2,415	247 271 281	3,588 3,766 3,873	1,162 1,198 1,245	2,491 2,579 2,604	354 398 411	4,007 4,175 4,260	24,958 26,226 26,920
May June July August	88 63 79 67	206 195 163 165	124 139 171 144	418 397 413 376	1,317 1,428 1,439 1,448	2,449 2,540 2,695 2,735	240 299 344 379	4,006 4,267 4,478 4,562	1,405 1,491 1,518 1,515	2,655 2,735 2,858 2,900	364 438 515 523	4,424 4,664 4,891 4,938	27,947 28,739 29,140 28,942
September October November December	52 80 97 67	166 243 192 172	164 173 160 132	370 382 496 449 371	1,448 1,488 1,549 1,361 1,206	2,735 2,667 2,841 2,418 2,196	379 355 373 334 313	4,510 4,763 4,113 3,715	1,513 1,540 1,629 1,458 1,273	2,833 3,084 2,610 2,368	519 546 494 445	4,892 5,259 4,562 4.086	28,960 31,505 29,276 26,222
Total	897	2,345	1,715	4,957	15,736	29,901	3,708	49,345	16,633	32,246	5,423	54,302	334,141
2009 January February March April May June	80 62 59 36 47 44	171 125 146 68 90 91	99 88 88 93 80 75	350 275 293 197 217 210	1,192 991 867 755 584 804	2,253 1,925 1,771 1,396 1,136 1,297	250 195 210 205 156 189	3,695 3,111 2,848 2,356 1,876 2,290	1,272 1,053 926 791 631 848	2,424 2,050 1,917 1,464 1,226 1,388	349 283 298 298 236 264	4,045 3,386 3,141 2,553 2,093 2,500	28,077 25,440 25,304 21,406 20,055 16,301
July August September October November December	40 49 61 55 38 34 605	100 84 71 79 83 98 1,206	101 88 96 78 85 84 1,055	241 221 228 212 206 216 2,866	789 867 945 966 931 894 10,585	1,188 1,372 1,170 1,167 1,133 1,074	217 207 207 222 199 213 2,470	2,194 2,446 2,322 2,355 2,263 2,181 29,937	829 916 1,006 1,021 969 928 11,190	1,288 1,456 1,241 1,246 1,216 1,172	318 295 303 300 284 297 3,525	2,435 2,667 2,550 2,567 2,469 2,397 32,803	13,543 15,970 15,547 17,261 16,236 16,424 231,562
2010 January	55 44	91 71	81 67	2, 000 227 182	898 871	1,264 1,096	169 144	29,937 2,331 2,111	953 915	18,088 1,355 1,167	250 211	2,558 2,293	15,304 16.862
February	59 49 48 61	71 85 78 107 100	88 77 86 90	232 204 241 251	1,062 1,173 1,282 1,385	1,096 1,224 1,152 1,208 1,250	216 249 255 302	2,111 2,502 2,574 2,745 2,937	1,121 1,222 1,330 1,446	1,167 1,309 1,230 1,315 1,350	304 326 341 392	2,734 2,778 2,986 3,188	15,862 15,102 17,904 17,987 19,408
June July August September October	46 56 57 75	103 104 73 87	105 94 88 117	254 254 218 279	1,386 1,434 1,374 1,502	1,443 1,402 1,358 1,463	390 314 268 283	3,219 3,150 3,000 3,248	1,432 1,490 1,431 1,577	1,546 1,506 1,431 1,550	495 408 356 400	3,473 3,404 3,218 3,527	20,847 22,923 23,037 22,123
November December Total	62 57 669	114 92 1,105	103 70 1,066	279 219 2,840	1,400 1,317 15,084	1,352 1,379 15,591	263 243 3,096	3,015 2,939 33,771	1,462 1,374 15,753	1,466 1,471 16,696	366 313 4,162	3,294 3,158 36,611	24,561 23,189 239,247

Notes: • Data are estimates. • Prior to 1990, these well counts include only the original drilling of a hole intended to discover or further develop already discovered crude oil or natural gas resources. Other drilling activities, such as drilling an old well deeper, drilling of laterals from the original well, drilling of service and injection wells, and drilling for resources other than crude oil or natural gas are excluded. After 1990, a new well is defined as the first hole in the ground whether it is lateral or not. Due to the methodology used to estimate ultimate well counts from the available partially reported data, the counts shown on this page are frequently revised. See Note, "Crude Oil and Natural Gas Exploratory and Development

Wells," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#crude for all

available data beginning in 1973.

Sources: • 1973–1989: U.S. Energy Information Administration (EIA) computations based on well reports submitted to the American Petroleum Institute. • 1990 forward: EIA computations based on well reports submitted to IHS, Inc., Denver, CO.

2011 and 2012 data in this table have been removed while EIA evaluates the quality of the data and the estimation methodology.

Crude Oil and Natural Gas Resource Development

Note. Crude Oil and Natural Gas Exploratory and Development Wells. Three well types are considered in the *Monthly Energy Review* (*MER*) drilling statistics: "completed for crude oil," "completed for natural gas," and "dry hole." Wells that productively encounter both crude oil and natural gas are categorized as "completed for crude oil." Both development wells and exploratory wells (new field wildcats, new pool tests, and extension tests) are included in the statistics. All other classes of wells drilled in connection with the search for producible hydrocarbons are excluded. If a lateral is drilled at the same time as the original hole it is not counted separately, but its footage is included.

Prior to the March 1985 MER, drilling statistics consisted of

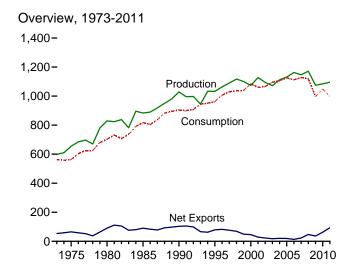
completion data for the above types and classes of wells as reported to the American Petroleum Institute (API) during a given month. Due to time lags between the date of well completion and the date of completion reporting to the API, as-reported well completions proved to be an inaccurate indicator of drilling activity. During 1982, for example, as-reported well completions rose, while the number of actual completions fell. Consequently, the drilling statistics published since the March 1985 MER are U.S. Energy Information Administration (EIA) estimates produced by statistically imputing well counts and footage based on the partial data available from the API. These estimates are subject to continuous revision as new data, some of which pertain to earlier months and years, become available. Additional information about the EIA estimation methodology may be found in "Estimating Well Completions," a feature article published in the March 1985 MER.

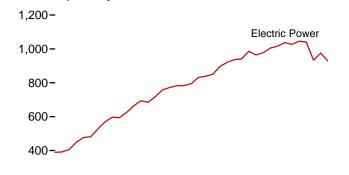
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6. Coal

Figure 6.1 Coal (Million Short Tons)

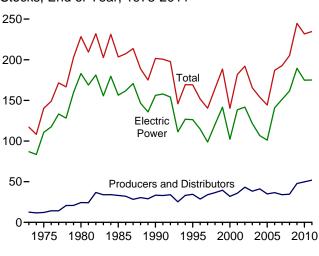
Consumption by Sector, 1973-2011

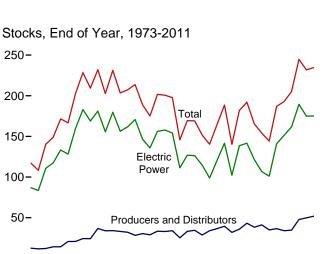


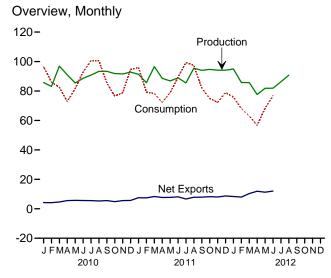


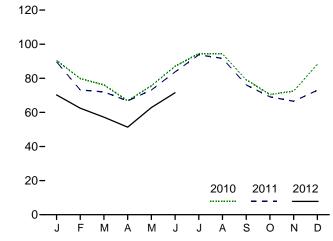
Industrial

1975 1980 1985 1990 1995 2000 2005 2010



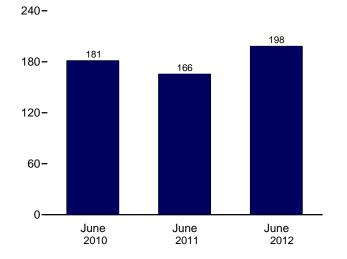






Electric Power Sector Stocks, End of Month

Electric Power Sector Consumption, Monthly



Web Page: http://www.eia.gov/totalenergy/data/monthly/#coal. Sources: Tables 6.1-6.3.

200-

Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste Coal		Trade		Stock	Losses and Unaccounted	
	Productiona	Supplied ^b	Imports	Exports	Net Imports ^c	Change ^{d,e}	forf	Consumption
973 Total	598,568	NA	127	53,587	-53,460	402	-17,878	562,584
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
985 Total	883,638	NA NA	1,952	92,680	-90,727	-27,934	2,796	818,049
990 Total	1.029.076	3.339	2,699	105.804	-103.104	26,542	-1.730	904.498
995 Total	1,032,974	8,561	9,473	88,547	-79,074	-275	632	962,104
996 Total	1,063,856	8,778	8,115	90,473	-82,357	-17,456	1,411	1,006,321
997 Total	1,089,932	8,096	7,487	83,545	-76,058	-11,253	3,678	1,029,544
998 Total	1,117,535	8,690	8,724	78,048	-69,324	24,228	-4,430	1,037,103
999 Total	1,100,431	8,683	9,089	58,476	-49,387	23,988	-2,906	1,038,647
000 Total	1,073,612	9,089	12,513	58,489	-45,976	-48,309	938	1,084,095
001 Total	1,127,689	10,085	19,787	48,666	-28,879	41,630	7,120	1,060,146
002 Total	1,094,283	9,052	16,875	39,601	-22,726	10,215	4,040	1,066,355
003 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 January	85,711	1,187	1,665	5,866	-4,202	-10,695	-3,103	96,494
February	83,087	908	1,239	5,386	-4,146	-7,306	1,154	86,001
March	96,904	1,192	1,899	6,554	-4,655	8,127	2,870	82,444
April	90.960	1,071	1,812	7,358	-5,545	11,519	2.176	72,790
May	85,401	1,138	1,475	7,220	-5,745	2,723	-3,500	81,570
June	88,621	1,219	1,771	7.387	-5,616	-9.407	647	92,983
July	90,795	1,273	1,390	6,928	-5,539	-15,499	1,446	100,582
	93.350	1,273	1,702	7.001			-2.316	
August					-5,299	-8,766		100,393
September	93,360	1,102	1,588	7,145	-5,556	5,111	-1,591	85,386
October	91,831	982	1,775	6,623	-4,849	11,463	-90	76,591
November	91,558	1,121	1,473	7,015	-5,542	8,878	-437	78,697
December	92,791	1,197	1,563	7,232	-5,669	-9,187	2,925	94,582
Total	1,084,368	13,651	19,353	81,716	-62,363	-13,039	182	1,048,514
011 January	R 91,355	1,187	1,014	8,509	-7,496	R -11,414	R 499	R 95,961
February	R 85,575	1,030	843	8,275	-7,432	R -3,196	R 3,109	R 79,259
March	R 96,548	1,068	1,524	9,832	-8,308	R 4,097	R 6,890	R 78,320
April	R 88,563	910	1,136	8,843	-7,706	R 9,055	R 402	^R 72,310
May	R 86,850	852	1,313	9,042	-7,730	^R 2,348	^R -1,243	^R 78,868
June	R 88,878	1,109	970	9,102	-8,132	R -9,771	R 2,193	R 89,434
July	R 85,498	1,173	1,208	7,865	-6,657	R -15,675	R -3,622	R 99,311
August	R 95.495	1,142	1,545	9,387	-7,843	R -10,712	R 2.088	R 97,418
September	R 94,013	1.087	835	8.723	-7.888	^R 5,044	R 259	R 81,909
October	R 94,643	999	917	9,159	-8,242	R 13,535	R -1,052	R 74,916
November	R 94,109	1.039	807	8.808	-8.001	R 11,801	R 2.997	R 72,349
December	R 94,101	934	976	9,713	-8,737	R 7.812	R -481	R 78,968
Total	R 1,095,628	12,529	13,088	107,259	-94,171	R 2,924	R 12,039	R 999,022
012 January	94.944	1,068	789	9,126	-8,337	^R 2.713	R 9.089	R 75,873
February	85,763	891	534	8,460	-7,927	R 6,532	R 4,134	R 68.062
March	85,698	837	699	11,055	-10,356	R 10,601	R 2,604	R 62,973
April	R 77,624	R 725	623	12,529	-11,905	^R 7,351	R 2,436	R 56,657
May	R 81,825	R 892	986	12,329	-11,903	R -929	R 4.189	R 68,187
	R 81.911	R 854	719			R -4,540	R -1,385	R 76,660
June				12,749	-12,030			
July	86,244	NA	NA	NA	NA	NA	NA	NA
August	90,768	NA	NA	NA	NA	NA	NA	NA
8-Month Total	684,777	NA	NA	NA	NA	NA	NA	NA
011 8-Month Total 010 8-Month Total	718,761 714,828	8,471 9,249	9,553 12,953	70,857 53,701	-61,303 -40,748	-35,267 -29,304	10,316 -625	690,880 713,258

 $^{^{\}rm a}$ 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 For 1980-2007, excludes coal stocks in the residential and commercial

sectors.

^e A negative value indicates a decrease in stocks; a positive value indicates an

 $^{^{\}rm f}$ The difference between calculated coal supply and disposition, due to coal quantities lost or to data reporting problems.

quantities lost or to data reporting problems.

R=Revised. NA=Not available.

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 include refined coal. • Data values preceded by "F" are derived from the U.S. English 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 for all available data beginning in 1973.

Sources: See end of section.

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

					End-U	se Sector	s					
			Commerci	al			Industrial					
	D:				0-1	0	ther Industria	al] <u>-</u>	Electric	
	Resi- dential	CHPa	Otherb	Total	Coke Plants	CHPc	Non-CHP ^d	Total	Total	Trans- portation	Power Sector ^{e,f}	Total
1973 Total	4,113	(^g)	7,004	7,004	94,101	(h)	68,038	68,038	162,139	116	389,212	562,584
1975 Total	2,823	(g)	6,587	6,587	83,598	(h)	63,646	63,646	147,244	(h)	405,962	562,640
1980 Total	1,355	(g) (g)	5,097	5,097	66,657	(") (h)	60,347	60,347	127,004	(")	569,274	702,730
1985 Total 1990 Total	1,711 1,345	(°) 1,191	6,068 4,189	6,068 5,379	41,056 38,877	('') 27,781	75,372 48,549	75,372 76,330	116,429 115,207	{ '' }	693,841 782,567	818,049 904.498
1995 Total	755	1,419	3,633	5,052	33,011	29,363	43,693	73,055	106,067	\h\	850,230	962,104
1996 Total	721	1,660	3,625	5,285	31,706	29,434	42,254	71,689	103,395	ìh;	896,921	1,006,321
1997 Total	711	1,738	4,015	5,752	30,203	29,853	41,661	71,515	101,718	(h)	921,364	1,029,544
1998 Total	534	1,443	2,879	4,322	28,189	28,553	38,887	67,439	95,628	(h)	936,619	1,037,103
1999 Total	585	1,490	2,803	4,293	28,108	27,763	36,975	64,738	92,846	(h)	940,922	1,038,647
2000 Total	454	1,547	2,126	3,673	28,939	28,031	37,177	65,208	94,147	(h)	985,821	1,084,095
2001 Total	481 533	1,448 1.405	2,441	3,888	26,075	25,755	39,514	65,268	91,344 84.403	(")	964,433 977,507	1,060,146
2002 Total 2003 Total	533 551	1,405	2,506 1.869	3,912 3,685	23,656 24,248	26,232 24,846	34,515 36,415	60,747 61,261	84,403 85.509	('')	1,005,116	1,066,355 1,094,861
2004 Total	512	1,917	2,693	4,610	23,670	26,613	35,582	62,195	85,865	\n\	1,005,116	1,107,255
2005 Total	378	1.922	2,420	4.342	23,434	25,875	34,465	60,340	83,774	}h;	1,037,485	1,125,978
2006 Total	290	1,886	1,050	2,936	22,957	25,262	34,210	59,472	82,429	(h í	1,026,636	1,112,292
2007 Total	353	1,927	1,247	3,173	22,715	22,537	34,078	56,615	79,331	(h)	1,045,141	1,127,998
2008 Total	351	2,021	1,134	3,155	22,070	21,902	32,491	54,393	76,463	(h)	1,040,580	1,120,548
2009 Total	353	1,798	1,059	2,857	15,326	19,766	25,549	45,314	60,641	(h)	933,627	997,478
2010 January	43	193	156	349	1,472	2,094	2,084	4,178	5,650	(h)	90,452	96,494
February	37	167	136	303	1,584	1,978	2,215	4,193	5,777	(h)	79,884	86,001
March	33	149	121	271	1,801	2,124	2,106	4,230	6,030	(h) (h)	76,110	82,444
April	21	117	54 55	171	1,786	2,220	1,749 1,975	3,969	5,755 5,779	('')	66,842	72,790
May June	21 24	118 135	62	173 197	1,794 1.772	2,010 1.898	2.061	3,985 3.959	5,779	(n)	75,597 87.030	81,570 92,983
July	24	142	48	190	1,783	2.122	1.944	4.066	5.849	\h \	94,519	100.582
August	25	152	52	203	1,814	2,194	1,909	4,103	5,917	}h	94,247	100,393
September	22	133	45	178	1,894	1,941	2,174	4,115	6,010	(h j	79,176	85,386
October	26	121	86	207	1,731	1,958	2,178	4,136	5,866	(h)	70,492	76,591
November	27	128	90	218	1,787	1,854	2,297	4,151	5,938	(h)	72,514	78,697
December	35	165	116	281	1,874	2,246	1,957	4,203	6,077	(h)	88,189	94,582
Total	339	1,720	1,022	2,742	21,092	24,638	24,650	49,289	70,381	(h)	975,052	1,048,514
2011 January February	40 37	178 165	144 133	322 298	1,746 1,623	2,320 2,044	^R 1,852 ^R 2,101	^R 4,172 ^R 4,145	^R 5,917 ^R 5,769	(h) (h)	89,682 73,156	^R 95,961 ^R 79,259
March	35	158	127	285	1,819	2,088	R 2,085	R 4,173	R 5,991	(h j	72,009	R 78,320
April	23	124	^R 65	^R 189	1,668	1,767	^R 1,922	R 3.689	R 5,357	(h)	66,741	R 72,310
May	24	128	R 67	^R 194	1,878	2,126	^R 1.546	R 3.672	R 5,550	(h)	73,100	R 78,868
June	23	124	R 65	R 189	1,846	2,056	R 1,620	R 3,676	R 5,522	(h)	83,700	R 89,434
July	R 21	134	R 32	R 166	1,670	2,208	R 1,510	R 3,718	R 5,388	(h)	93,736	R 99,311
August	19 ^R 19	124	^R 30 ^R 29	^R 154 ^R 150	1,863 1.874	2,182	^R 1,533 ^R 1,635	^R 3,715 ^R 3.735	^R 5,578 ^R 5,609	('') (h)	91,667	^R 97,418 ^R 81,909
September October	R 21	121 116	R 50	R 166	1,874 1,784	2,100 2,080	R 1,635	R 3,735	R 5,609	('')	76,131 69,109	R 74.916
November	22	123	R 52	R 176	1,772	1,835	R 1,987	R 3,822	R 5,594	(h (66,557	R 72,349
December	24	138	R 59	R 197	1,891	1,927	R 1,958	R 3,885	R 5,776	}h	72,971	R 78,968
Total	R 307	1,633	R 852	R 2,485	21,434	24,733	R 21,504	R 46,238	R 67,671	(h)	928,558	R 999,022
2012 January	R 28	154	R 69	R 224	1,701	2,102	R 1,588	3,690	R 5,391	(h) (h)	70,231	R 75,873
February	R 25	137	^R 62 ^R 59	^R 199 ^R 190	1,687	1,890	R 1,812	R 3,702	^R 5,389 ^R 5,549	('')	62,450	R 68,062
March April	23 ^R 15	131 111	R 10	R 121	1,895 R 1,783	1,921 1,589	1,732 R 1,792	3,653 R 3,381	^N 5,549 ^R 5,164	(ii)	57,211 51,357	^R 62,973 ^R 56,657
May	R 16	117	R 11	R 127	R 1,857	1,680	R 1,680	R 3,360	R 5,217	(h)	62,827	R 68,187
June	15	110	10	120	1,657	1,643	1,712	3,355	5,012	(h)	71,514	76,660
6-Month Total	121	760	221	980	10,579	10,827	10,315	21,142	31,721	(h)	375,590	408,412
2011 6-Month Total 2010 6-Month Total	182 181	876 880	601 584	1,477 1,464	10,580 10,209	12,400 12,324	11,125 12,191	23,526 24,514	34,105 34,724	(h)	458,387 475,914	494,152 512,283

^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, "Classification of Power Plants Into Energy-Use Sectors," at end of

"Included in "Industrial Non-CHP."
R=Revised.
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 include refined coal. • 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 regulation. • Geographic coverage is the 50 States and the District of Columbia.

rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#coal for all web Page: See http://ww available data beginning in 1973. Sources: See end of section.

See Note, '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, "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

Sections," 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) 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 consumption at electric utilities only. Beginning in

^{1989,} data also include consumption at independent power producers.

g Included in "Commercial Other."
 h Included in "Industrial Non-CHP."

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

			E	nd-Use Sectors				
	Producers	Residential		Industrial			Electric	
	and Distributors	and Commercial	Coke Plants	Othera	Total	Total	Power Sector ^{b,c}	Total
1973 Year	12,530	290	6,998	10,370	17,368	17,658	86,967	117,155
1975 Year	12,108	233	8,797	8,529	17,326	17,559	110,724	140,391
1980 Year	24,379	NA	9,067	11,951	21,018	21,018	183,010	228,407
1985 Year	33,133	NA	3,420	10,438	13,857	13,857	156,376	203,367
1990 Year	33,418	NA	3,329	8,716	12,044	12,044 8.334	156,166	201,629
1995 Year 1996 Year	34,444 28,648	NA NA	2,632 2,667	5,702 5,688	8,334 8,355	8,355	126,304 114,623	169,083 151,627
1997 Year	33,973	NA NA	1,978	5,597	7,576	7,576	98,826	140,374
1998 Year	36,530	NA NA	2,026	5,545	7,571	7,571	120,501	164,602
1999 Year	39,475	NA	1,943	5,569	7,511	7,511	°141,604	188,590
2000 Year	31,905	NA	1,494	4,587	6,081	6,081	102,296	140,282
2001 Year	35,900	NA	1,510	6,006	7,516	7,516	138,496	181,912
2002 Year	43,257	NA	1,364	5,792	7,156	7,156	141,714	192,127
2003 Year	38,277	NA	905	4,718	5,623	5,623	121,567	165,468
2004 Year	41,151	NA NA	1,344	4,842	6,186 8,196	6,186 8,196	106,669	154,006 144,304
2005 Year2006 Year	34,971 36,548	NA NA	2,615 2,928	5,582 6,506	8,196 9,434	8,196 9,434	101,137 140,964	186,946
2007 Year	33,977	NA NA	1,936	5,624	7,560	7,560	151,221	192,758
2008 Year	34.688	498	2,331	6.007	8.338	8.836	161,589	205.112
2009 Year	47,718	529	1,957	5,109	7,066	7,595	189,467	244,780
2010 January	48,854	510	1,832	4,798	6,630	7,140	178,091	234,085
February	49,069	490	1,708	4,486	6,194	6,684	171,026	226,779
March	50,936	471	1,583	4,175	5,758	6,229	177,742	234,906
April	50,761	482 494	1,715 1,846	4,207	5,922	6,404	189,260	246,425 249,148
May June	50,900 51,497	505	1,978	4,239 4,272	6,086 6,250	6,579 6,755	191,669 181,490	239,741
July	47,935	509	1,948	4,345	6,294	6,803	169,504	224,242
August	48.638	513	1.918	4.419	6,337	6.851	159.987	215,476
September	49,913	517	1,889	4,492	6,381	6,899	163,776	220,587
October	49,430	529	1,901	4,503	6,404	6,933	175,686	232,050
November	50,571	541	1,913	4,514	6,428	6,968	183,389	240,928
December	49,820	552	1,925	4,525	6,451	7,003	174,917	231,740
2011 January	R 48,709	536	1,937	4,305	6,241	6,777	164,840	R 220,327
February	^R 49,140	520	1,948	4,084	6,032	6,552	161,439	^R 217,131
March	R 48,165	503	1,959	3,864	5,823	6,326	166,737	R 221,228
April	R 49,852	R 505	1,958	R 3,969	R 5,927	6,433	173,999	R 230,283
May	^R 51,473 ^R 50,507	^R 508 ^R 510	1,957	R 4,075	^R 6,032 ^R 6.136	6,539	174,619	R 232,631
June	^R 52,420	R 513	1,956 2.082	^R 4,181 ^R 4,203	^R 6.285	6,646 6.798	165,707 147.967	^R 222,860 ^R 207,185
July August	R 50,287	R 515	2,002	R 4,225	R 6,446	6,796	139,225	R 196,473
September	R 49,909	^R 518	2,405	R 4,247	R 6.652	7,170	144,438	R 201.517
October	R 50.810	R 546	2,473	R 4,316	R 6,790	7,336	156,906	R 215.052
November	^R 50,997	^R 575	2,541	R 4,386	R 6,927	7,502	168,354	R 226,853
December	R 51,897	R 603	2,610	R 4,455	R 7,065	7,668	175,100	R 234,664
2012 January	RF 48,424	^R 587	2,507	R 4,238	R 6,745	^R 7,332	181,621	R 237,377
February	RF 49,954	R 572	2,403	R 4,021	R 6,424	^R 6,996	186,958	R 243,908
March	RF 51,458	R 557	2,300	R 3,804	R 6,104	R 6,661	196,391	R 254,510
April	RF 51,705	R 566	R 2,299	R 3,896	^R 6,195	R 6,761	203,394	R 261,860
May	^{RF} 51,253 ^F 51,007	^R 575 585	^R 2,297 2,295	^R 3,989 4,082	^R 6,286 6,377	^R 6,862 6,962	202,816 198,422	^R 260,931 256,391
June	51,007	200	2,290	4,∪0∠	0,311	0,902	190,422	200,391

 $^{^{\}rm a}$ Through 1977, data are for stocks held by the manufacturing and transportation sectors. Beginning in 1978, data are for stocks held at manufacturing

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 include refined coal. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Source Cogard of coeffice.

Sources: See end of section.

plants only.

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

^c Through 1998, data are for stocks at electric utilities only. Beginning in 1999,

data also include stocks at 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.

Prior to 2002, 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.

Beginning in 2002, the weekly coal production model uses statistical autoregressive methods to estimate national coal production as a function of railcar loadings of coal, and heating degree-days and cooling degree-days. On Thursday of each week, EIA receives from the AAR data for the previous week. The latest weekly national data for heating degree-days and cooling degree-days are obtained from the National Oceanic and Atmospheric Administration's Climate Prediction Center. The weekly coal model is run and a national level coal production estimate is obtained. 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 State-level production data and is explained in EIA's Quarterly Coal Report. 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. The fourth quarter estimates may or may not be revised when preliminary data become available in March of the following year, depending on the magnitude of the difference between the estimates and the preliminary data. In any event, 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. Coal consumption data are reported by major end-use sector. Forecast data (designated

by an "F") are derived from forecasted values shown in the EIA *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply and Demand: Base Case." 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—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 by 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. The 2007 share is applied to 2008 forward, and the other missing years' shares are interpolated.

Industrial Coke Plants—Prior to 1980, 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 January 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.

Industrial Other—Prior to 1978, 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 Bureau of the Census 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 January 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. Prior to 2008, 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 20,000 to 30,000 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 for the most recent months (designated by an "F") are derived from forecasted values shown in the EIA *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply and Demand: Base Case." 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—Prior to 1998, 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—Prior to 1980, 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 stocks data are collected on Form EIA-3 (data for "Commercial and Institutional Coal Users").

Industrial Coke Plants—Prior to 1980, 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—Prior to 1978, 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 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/.

Note 5. Additional Coal Information. EIA's *Quarterly Coal Report* provides additional information about coal data and estimation procedures.

Table 6.1 Sources

Production

1973–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."

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."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report," and Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users"; and, for forecast values, EIA, Short-Term Integrated Forecasting System.

Imports and Exports

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

Stock Change

Calculated from data in Table 6.3. (The 1973 stock change value is calculated using the 1972 total stocks value of 116,753 thousand short tons from EIA, *Annual Energy Review*, Table 7.6. The 1972 stocks value excludes stocks at producers and distributors.)

Losses and Unaccounted for

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

Consumption

Table 6.2.

Table 6.2 Sources

Residential and Commercial Total

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:

1973–1976: 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 Mine Employment and Coal Production."

2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users" (data for "Commercial and Institutional Coal Users"); and, for forecast values, EIA, Short-Term Integrated Forecasting System (STIFS).

Commercial CHP

Table 7.4c.

Commercial Other

Calculated as "Commercial Total" minus "Commercial CHP."

Industrial Coke Plants

1973–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, "Coke Plant Report—Quarterly"; and, for forecast values, EIA, STIFS.

Other Industrial Total

1973–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977–1979: EIA, Form EIA-3, "Monthly Coal Consumption Report—Manufacturing Plants."

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

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

2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users," and Form EIA-7A, "Coal Production Report," annual; and, for forecast values, EIA, STIFS.

Other Industrial CHP

Table 7.4c.

Other Industrial Non-CHP

Calculated as "Other Industrial Total" minus "Other Industrial CHP."

Transportation

1973–1976: 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

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-7A, "Coal Production Report," annual, and Form EIA-8A, "Coal Stocks Report," annual; and, for forecast values, EIA internal estimates.

Residential and Commercial

1973–1976: 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 Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users" (data for "Commercial and Institutional Coal Users"); and, for forecast values, EIA, STIFS.

Industrial Coke Plants

1973–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, "Coke Plant Report—Quarterly"; and, for forecast values, EIA, STIFS.

Industrial Other

1973–September 1977: DOI, BOM, *Minerals Yearbook* and *Minerals Industry Surveys*.

October 1977–1979: EIA, Form EIA-3, "Monthly Coal Consumption Report—Manufacturing Plants."

1980–2007: EIA, Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants."

2008 forward: EIA, Form EIA-3, "Quarterly Coal Consumption and Quality Report, Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Coal Users"; and, for forecast values, EIA, STIFS.

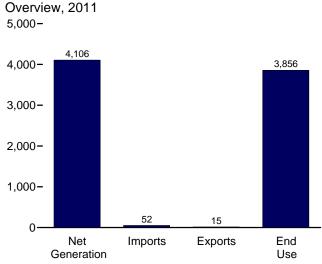
Electric Power

Table 7.5.

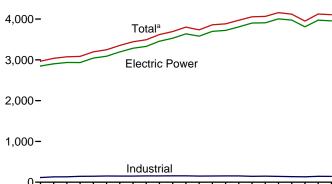
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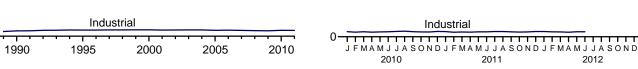
7. Electricity

Figure 7.1 Electricity Overview (Billion Kilowatthours)









Net Generation, 2011

3,955

Electric

Commercial

Total

Electric Power

4,106

Total

142

Industrial

5,000-

4,000-

3,000-

2,000-

1,000-

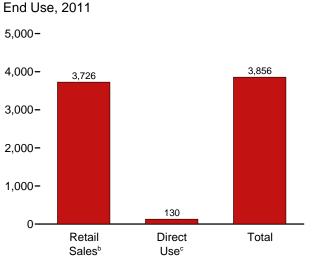
400-

300

200-

100-

0





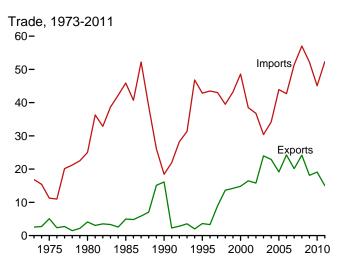


Table 7.1 Electricity Overview

(Billion Kilowatthours)

		Net Gen	eration			Trade		T&D Lossese		End Use	
	Electric Power Sector ^a	Com- mercial Sector ^b	Indus- trial Sector ^c	Total	Importsd	Exportsd	Net Imports ^d	and Unaccounted for ^f	Retail Sales ^g	Direct Use ^h	Total
1973 Total	1,861	NA NA	3	1,864	17	3	14	165	1,713	NA	1,713
1975 Total	1,918	NA NA	3	1,921	11	5	6	180	1,747	NA	1,747
1980 Total	2,286	NA	3	2,290	25	4	21	216	2,094	NA	2,094
1985 Total	2,470	NA	3	2,473	46	5	41	190	2,324	NA	2,324
1990 Total	2,901	6	131	3,038	18	16	2	203	2,713	125	2,837
1995 Total	3,194	8	151	3,353	43	4	39	229	3,013	151	3,164
1996 Total	3,284	9	151	3,444	43	3	40	231	3,101	153	3,254
1997 Total	3,329	9	154	3,492	43	9	34	224	3,146	156	3,302
1998 Total	3,457	9	154	3,620	40	14	26	221	3,264	161	3,425
1999 Total	3,530	9	156	3,695	43	14	29	240	3,312	172	3,484
2000 Total	3,638	8	157	3,802	49	15	34	244	3,421	171	3,592
2001 Total	3,580	7	149	3,737	39	16	22	202	3,394	163	3,557
2002 Total	3,698	7	153	3,858	37	16	21	248	3,465	166	3,632
2003 Total	3,721	7	155	3,883	30	24	6	228	3,494	168	3,662
2004 Total	3,808	8	154	3,971	34	23	11	266	3,547	168	3,716
2005 Total	3,902	8	145	4,055	44	19	25	269	3,661	150	3,811
2006 Total	3,908	8	148	4,065	43	24	18	266	3,670	147	3,817
2007 Total	4,005	8	143	4,157	51 57	20 24	31 33	298	3,765	126	3,890
2008 Total 2009 Total	3,974 3,810	8 8	137 132	4,119 3,950	57 52	24 18	33 34	287 261	3,733 3,597	132 127	3,865 3,724
2009 Total	3,010	0	132	3,930	32	10	34	201	3,397	127	3,724
2010 January	348	1	12	361	5	1	4	22	332	E 11	343
February	308	1	11	320	4	1	3	15	298	E 10	309
March	300	1	12	312	4	1	3	12	293	E 11	303
April	276	1	11	288	4	1	3	13	267	E 10 E 11	277
May	316	1	12	328	3 4	2 2	1	35	284	E 11	294
June	363 396	1	12 13	376 410	4	1	2	36 32	331 369	E 12	342 381
July	395	1	13	409	4	2	2	32 27	372	E 12	384
August	333	1	12	346	3	2	1	8	328	E 11	339
September October	296	1	12	308	3	2	(s)	10	288	E 11	298
November	294	1	11	306	3	2	(3)	21	275	E 11	285
December	349	i	13	362	4	1	3	34	319	E 12	331
Total	3,972	ģ	144	4,125	45	19	26	265	3,754	132	3,886
2011 January	351	1	12	364	4	2	3	23	333	E 11	344
2011 January February	302	1	11	313	4	2	2	23 10	296	E 10	306
March	307	1	11	319	4	2	2	21	290	E 11	301
April	291	1	11	303	4	2	2	21	274	E 10	284
May	312	i	12	325	5	1	4	32	286	E 11	297
June	356	i	12	368	4	i	3	34	327	Ē 11	338
July	406	1	13	419	6	i	5	44	369	E 12	380
August	393	i	13	406	6	i	5	29	370	E 12	382
September	325	1	12	338	4	1	3	6	324	E 11	335
October	297	1	11	309	4	1	3	16	286	E 10	296
November	292	1	12	304	3	1	2	23	273	E 11	284
December	323	1	13	336	4	1	3	29	299	_ ^E 12	311
Total	3,955	8	142	4,106	52	15	37	287	3,726	E 130	3,856
2012 January	327	1	13	341	4	1	3	22	311	E 12	322
February	298	1	12	310	4	1	3	16	286	<u> </u>	297
March	297	1	12	310	4	1	3	20	282	E 11	293
April	285	1	11	296	5	1	4	20	270	<u> </u>	280
May	325	1	12	338	5	1	4	35	296	E 11	307
June	349	1	12	362	5	<u>1</u>	4	30	325	E 11	336
6-Month Total	1,881	4	71	1,956	28	7	21	143	1,770	^E 65	1,835
2011 6-Month Total 2010 6-Month Total	1,919 1,910	4	70 70	1,992 1,984	25 25	9 8	16 17	140 133	1,805 1,804	E 64 E 64	1,869 1,868

^a 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

Sources: See end of section.

are for electric utilities and independent power producers.

b Commercial combined-heat-and-power (CHP) and commercial electricity-only

plants.

^c Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. Through 1988, data are for industrial hydroelectric power only.

^d Electricity transmitted across U.S. borders. Net imports equal imports minus

exports.

^e Transmission and distribution losses (electricity losses that occur between the point of generation and delivery to the customer). See Note 2, "Electrical System Energy Losses," at end of Section 2.

^f Data collection frame differences and nonsampling error.

⁹ Electricity retail sales to ultimate customers by electric utilities and, beginning in 1996, other energy service providers.

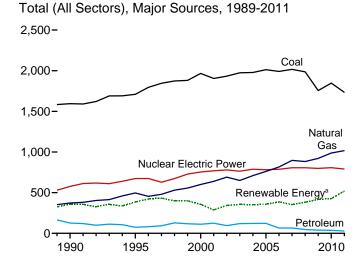
^h Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.

E=Estimate. NA=Not available. (s)=Less than 0.5 billion kilowatthours.

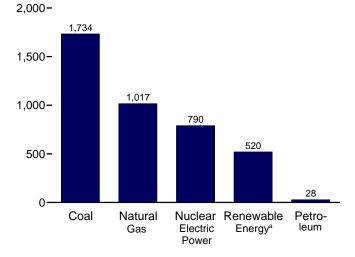
Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia

rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973.

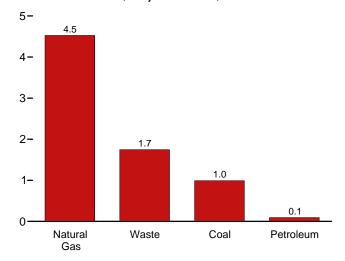
Figure 7.2 Electricity Net Generation (Billion Kilowatthours)



Total (All Sectors), Major Sources, 2011

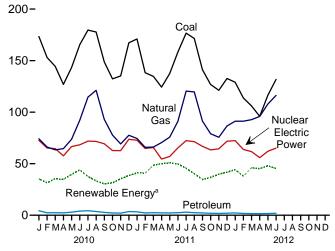


Commercial Sector, Major Sources, 2011

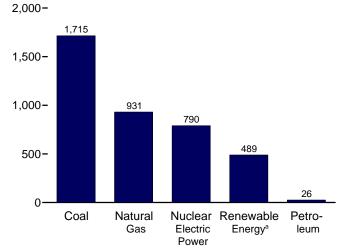


^a Conventional hydroelectric power, wood, waste, geothermal, solar/PV, and wind.

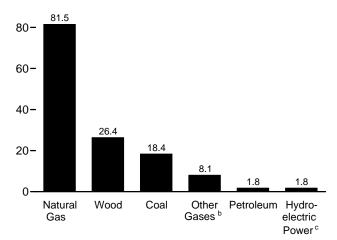
Total (All Sectors), Major Sources, Monthly



Electric Power Sector, Major Sources, 2011



Industrial Sector, Major Sources, 2011



^c Conventional hydroelectric power.
Web Page: http://www.eia.gov/totalenerg

Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Sources: Tables 7.2a–7.2c.

100-

^b Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Table 7.2a Electricity Net Generation: Total (All Sectors)

(Sum of Tables 7.2b and 7.2c; Million Kilowatthours)

		Fossil I	Fuels						Renewabl	e Energy			
							Conven-	Bio	mass				
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	tional Hydro- electric Power ^f	Woodg	Waste ^h	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total 1975 Total 1980 Total	847,651 852,786 1,161,562	314,343 289,095 245,994	340,858 299,778 346,240	NA NA NA	83,479 172,505 251,116	(f) (f) (f)	275,431 303,153 279,182	130 18 275	198 174 158	1,966 3,246 5,073	NA NA NA	NA NA NA	1,864,057 1,920,755 2,289,600
1985 Total 1990 Total ^k 1995 Total 1996 Total	1,594,011 1,709,426	100,202 126,460 74,554 81,411	291,946 372,765 496,058 455,056	NA 10,383 13,870 14,356	383,691 576,862 673,402 674,729	-3,508 -2,725 -3,088	284,311 292,866 310,833 347,162	743 32,522 36,521 36,800	13,260 20,405 20,911	9,325 15,434 13,378 14,329	367 497 521	2,789 3,164 3,234	2,473,002 3,037,827 3,353,487 3,444,188
1997 Total 1998 Total 1999 Total 2000 Total	1,873,516 1,881,087	92,555 128,800 118,061 111,221	479,399 531,257 556,396 601,038	13,351 13,492 14,126 13,955	628,644 673,702 728,254 753,893	-4,040 -4,467 -6,097 -5,539	356,453 323,336 319,536 275,573	36,948 36,338 37,041 37,595	21,709 22,448 22,572 23,131	14,726 14,774 14,827 14,093	511 502 495 493	3,288 3,026 4,488 5,593	3,492,172 3,620,295 3,694,810 3,802,105
2001 Total 2002 Total 2003 Total 2004 Total	1,933,130 1,973,737 1,978,301	124,880 94,567 119,406 121,145	639,129 691,006 649,908 710,100	9,039 11,463 15,600 15,252	768,826 780,064 763,733 788,528	-8,823 -8,743 -8,535 -8,488	216,961 264,329 275,806 268,417	35,200 38,665 37,529 38,117	14,548 15,044 15,812 15,421	13,741 14,491 14,424 14,811	543 555 534 575	6,737 10,354 11,187 14,144	3,736,644 3,858,452 3,883,185 3,970,555
2005 Total 2006 Total 2007 Total 2008 Total	1,990,511 2,016,456 1,985,801	122,225 64,166 65,739 46,243	760,960 816,441 896,590 882,981	13,464 14,177 13,453 11,707	781,986 787,219 806,425 806,208	-6,558 -6,558 -6,896 -6,288	270,321 289,246 247,510 254,831	38,856 38,762 39,014 37,300	15,420 16,099 16,525 17,734	14,692 14,568 14,637 14,840	550 508 612 864	17,811 26,589 34,450 55,363	4,055,423 4,064,702 4,156,745 4,119,388
2009 Total	1,755,904 173,320	38,937 4,348	920,979 74,173	10,632 909	798,855 72,569	-4,627 -565	273,445 22,383	36,050 3,126	18,443 1,503	15,009 1,312	891 10	73,886 6,854	3,950,331 360,957
2010 January February March April	153,044 144,406 126,952	2,373 2,470 2,286	66,198 63,431 64,644	825 1,010 943	65,245 64,635 57,611	-351 -325 -335	20,590 20,886 19,097	2,895 3,090 2,932	1,382 1,592 1,558	1,159 1,307 1,240	33 76 112	5,432 8,589 9,764	319,735 312,168 287,800
May June July August	143,272 165,491 179,600 177,745	2,994 3,989 4,411 3,575	73,665 92,268 114,624 121,151	1,017 964 963 1,061	66,658 68,301 71,913 71,574	-441 -472 -557 -600	25,079 29,854 24,517 20,119	2,893 3,094 3,308 3,319	1,577 1,627 1,640 1,642	1,311 1,264 1,274 1,297	153 176 161 156	8,698 8,049 6,724 6,686	327,936 375,759 409,725 408,884
September October November	148,746 132,270 135,185	2,783 2,228 2,079	93,004 77,738 69,227	954 808 907	69,371 62,751 62,655	-421 -438 -467	17,265 17,683 19,562	3,157 3,003 3,080	1,575 1,547 1,625	1,253 1,222 1,252	138 75 77	7,106 7,944 9,748	346,045 307,921 306,010
December Total	167,258 1,847,290	3,523 37,061	77,573 987,697	952 11,313	73,683 806,968	-530 -5,501	23,169 260,203	3,275 37,172	1,650 18,917	1,330 15,219	44 1,212	9,059 94,652	362,119 4,125,060
2011 January February	170,983 138,295	3,268 2,201	74,458 65,852	910 770	72,743 64,789	-426 -247	26,148 24,687	3,258 2,896	1,503 1,393	1,478 1,326	31 80	8,659 10,528	363,855 313,351
March April May June July	134,717 124,293 137,493 158,308 176,709	2,454 2,279 2,198 2,439 3,011	66,169 70,529 75,769 91,096 120,377	955 913 848 980 1,059	65,662 54,547 57,017 65,270 72,345	-350 -467 -419 -568 -709	31,737 31,629 33,105 32,253 31,570	3,041 2,788 2,802 3,243 3,348	1,655 1,619 1,702 1,685 1,767	1,465 1,337 1,438 1,363 1,372	113 161 201 257 226	10,537 12,447 11,635 10,887 7,382	319,092 302,994 324,757 368,184 419,480
August	171,472 141,220 126,872 121,197	2,407 2,247 1,934 1,723	119,646 91,377 79,078 75,637	999 958 949 923	71,339 66,849 63,354 64,474	-663 -554 -572 -441	26,320 21,500 20,036 21,374	3,290 3,113 2,876 2,980	1,717 1,621 1,669 1,689	1,380 1,334 1,393 1,377	236 183 169 78	7,342 6,883 10,623 12,354	406,450 337,606 309,279 304,268
December	132,706 1,734,265	2,000	86,606 1,016,595	1,005 11,269	71,837 790,225	-496 -5,912	24,715 325,074	3,311 36,946	1,765 19,786	1,439 16,700	79 1,814	10,469	336,419 4,105,734
2012 January	129,064 113,831 106,032 95,982 116,476 131,737 693,122	2,232 1,718 1,576 1,534 1,677 1,877	91,213 91,260 92,739 95,882 107,928 116,184 595,206	1,096 1,146 1,023 1,018 1,034 1,079 6,396	72,382 63,850 61,730 55,871 62,081 65,140 381,055	-330 -226 -268 -242 -343 -487	23,933 20,813 26,287 26,748 28,991 27,074 153,846	3,293 3,029 2,832 2,515 2,932 2,984 17,585	1,621 1,523 1,637 1,643 1,695 1,657 9,776	1,438 1,361 1,438 1,354 1,439 1,394 8,424	70 119 218 307 450 500 1,664	13,823 11,047 13,553 12,611 12,442 11,740 75,216	340,743 310,298 309,709 296,101 337,770 361,790 1,956,410
2011 6-Month Total 2010 6-Month Total	864,090 906,486	14,839 18,461	443,873 434,379	5,375 5,668	380,028 395,020	-2,477 -2,488	179,559 137,888	18,028 18,030	9,558 9,238	8,406 7,592	843 560	64,694 47,386	1,992,233 1,984,356

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other

commercial piants, and industrial plants.

NA=Not available.

Notes: • 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/#electricity for all available data beginning in 1973.

Sources: See sources for Tables 7.2b and 7.2c.

Pumped storage facility production minus energy used for pumping.
 Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."
 Wood and wood-derived fuels.

⁹ Wood and wood-derived fuels.
h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

i Solar thermal and photovoltaic (PV) energy.
j Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
k Through 1988, all data except hydroelectric are for electric utilities only; hydroelectric data through 1988 include industrial plants as well as electric utilities. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

NA-Not available

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power ^f	Bio:	mass Waste ^h	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total 1975 Total 1980 Total		314,343 289,095 245,994	340,858 299,778 346,240	NA NA NA	83,479 172,505 251,116	(f) (f) (f)	272,083 300,047 276,021	130 18 275	198 174 158	1,966 3,246 5,073	NA NA NA	NA NA NA	1,860,710 1,917,649 2,286,439
1985 Total 1990 Total ^k 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2001 Total	1,572,109 1,686,056 1,771,973 1,820,762 1,850,193	100,202 118,864 68,146 74,783 86,479 122,211 111,539 105,192 119,149 89,733	291,946 309,486 419,179 378,757 399,596 449,293 472,996 517,978 554,940 607,683	NA 621 1,927 1,341 1,533 2,315 1,607 2,028 586 1,970	383,691 576,862 673,402 674,729 628,644 673,702 728,254 753,893 768,826 780,064	-3,508 -2,725 -3,088 -4,040 -4,467 -6,097 -5,539 -8,823 -8,743	281,149 289,753 305,410 341,159 350,648 317,867 314,663 271,338 213,749 260,491	743 7,032 7,597 8,386 8,680 8,681 8,916 8,916 8,294 9,009	640 11,500 17,986 17,816 18,485 19,233 19,493 20,307 12,944 13,145	9,325 15,434 13,378 14,329 14,726 14,774 14,827 14,093 13,741 14,491	11 367 497 521 511 502 495 493 543 555	2,789 3,164 3,234 3,288 3,026 4,488 5,593 6,737 10,354	2,469,841 2,901,322 3,194,230 3,284,141 3,329,375 3,457,416 3,529,982 3,637,529 3,580,053 3,698,458
2003 Total 2004 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	1,952,714 1,957,188 1,992,054 1,969,737 1,998,390	113,697 114,678 116,482 59,708 61,306 42,881 35,811	567,303 627,172 683,829 734,417 814,752 802,372 841,006	2,647 3,568 3,777 4,254 4,042 3,200 3,058	763,733 788,528 781,986 787,219 806,425 806,208 798,855	-8,535 -8,488 -6,558 -6,558 -6,896 -6,288 -4,627	271,512 265,064 267,040 286,254 245,843 253,096 271,506	9,528 9,736 10,570 10,341 10,711 10,638 10,738	13,143 13,808 13,062 13,031 13,927 14,294 15,379 15,954	14,424 14,811 14,692 14,568 14,637 14,840 15,009	534 575 550 508 612 864 891	11,187 14,144 17,811 26,589 34,450 55,363 73,886	3,721,159 3,808,360 3,902,192 3,908,077 4,005,343 3,974,349 3,809,837
2010 January	171,660 151,461 142,665 125,615 141,669 163,912 177,778 175,848 147,157 130,663 133,815 165,494	4,111 2,166 2,299 2,109 2,801 3,792 4,199 3,375 2,608 2,037 1,879 3,302 34,679	66,847 59,556 56,492 58,124 66,862 85,033 106,961 112,961 85,498 70,876 62,305 69,875 901,389	275 247 275 273 279 265 267 249 240 170 219 208 2,967	72,569 65,245 64,635 57,611 66,658 68,301 71,913 71,574 69,371 62,751 62,655 73,683 806,968	-565 -351 -325 -335 -441 -472 -557 -600 -421 -438 -467 -530	22,207 20,421 20,691 18,898 24,903 29,711 24,405 20,019 17,188 17,561 19,426 23,024 258,455	1,011 926 939 837 830 955 1,061 1,074 974 887 934 1,018	1,294 1,207 1,391 1,334 1,359 1,409 1,413 1,364 1,330 1,412 1,443 16,376	1,312 1,159 1,307 1,240 1,311 1,264 1,274 1,297 1,253 1,222 1,252 1,330 15,219	10 33 76 112 153 175 161 156 137 75 76 43 1,206	6,853 5,431 8,588 9,763 8,696 8,048 6,723 6,685 7,104 7,942 9,746 9,058 94,636	348,128 307,994 299,571 276,121 315,656 362,985 394,651 333,057 295,646 293,833 348,549 3,972,386
Petron January February March April May June July August September October November December Total	169,157 136,752 133,163 123,067 135,794 156,677 174,850 169,572 139,458 125,200 119,867 131,311 1,714,870	3,056 2,042 2,282 2,112 2,053 2,276 2,840 2,243 2,075 1,792 1,597 1,857 26,223	67,038 59,187 59,350 63,709 68,567 84,032 112,765 111,991 84,392 72,407 68,418 78,714 930,568	247 206 250 250 250 282 296 293 287 279 242 266 3,148	72,743 64,789 65,662 54,547 57,017 65,270 72,345 71,339 66,849 63,354 64,474 71,837 790,225	-426 -247 -350 -467 -419 -568 -709 -663 -554 -572 -441 -496 -5,912	26,001 24,517 31,537 31,422 32,888 32,097 31,442 26,217 21,375 19,905 21,222 24,520 323,141	986 873 883 674 753 921 1,042 1,020 896 752 753 951 10,504	1,293 1,204 1,457 1,439 1,467 1,470 1,537 1,481 1,395 1,444 1,457 1,538	1,478 1,326 1,465 1,337 1,438 1,363 1,372 1,380 1,334 1,393 1,377 1,439	31 79 112 160 199 254 223 233 181 167 77 79 1,795	8,657 10,525 10,534 12,444 11,632 10,884 7,380 7,339 6,880 10,618 12,348 10,464 119,704	350,775 301,735 306,932 291,282 312,220 355,569 406,019 393,059 325,121 297,294 291,954 323,103 3,955,065
Page 2012 January	127,430 112,361 104,552 94,891 115,362 130,559 685,155	1,940 1,524 1,375 1,322 1,496 1,669 9,325	83,532 83,904 85,611 89,010 100,315 108,443 550,815	422 422 275 242 271 387 2,019	72,382 63,850 61,730 55,871 62,081 65,140 381,055	-330 -226 -268 -242 -343 -487 -1,897	23,749 20,649 26,090 26,580 28,797 26,933 152,798	949 875 829 628 780 852 4,913	1,388 1,295 1,422 1,418 1,447 1,269 8,239	1,438 1,361 1,438 1,354 1,439 1,394 8,424	69 117 211 297 435 484 1,613	13,814 11,040 13,543 12,602 12,434 11,679 75,112	327,388 297,729 297,419 284,567 325,131 348,812 1,881,046
2011 6-Month Total 2010 6-Month Total	854,611 896,982	13,821 17,278	401,883 392,913	1,484 1,614	380,028 395,020	-2,477 -2,488	178,461 136,832	5,091 5,498	8,331 7,995	8,406 7,592	835 559	64,675 47,378	1,918,514 1,910,454

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other

Distillate the filt, restouch the filt petroleum, and waste oil.

C Natural gas, plus a small amount of supplemental gaseous fuels.

Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Pumped storage facility production minus energy used for pumping.

f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

⁹ Wood and wood-derived fuels.

h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

i Solar thermal and photovoltaic (PV) energy.
j Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
NA=Not available.
Notes: • 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. • 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/#electricity for all available data beginning in 1973.
Sources: See end of section.

Sources: See end of section.

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors

(Subset of Table 7.2a; Million Kilowatthours)

	Commercial Sector ^a						Industrial Sector ^b								
		D. 4		Biomass			5.4	Natural	041	Hydro-	Biomass				
	Coalc	Petro- leum ^d	Natural Gas ^e	Waste ^f	Totalg	Coalc	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	electric Power ⁱ	Wood ^j	Waste ^f	Total ^k		
1973 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,347	NA	NA	3,347		
1975 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,106	NA	NA	3,106		
1980 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161		
1985 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161		
1990 Total	796	589	3,272	812	5,837	21,107	7,008	60,007	9,641	2,975	25,379	949	130,830		
1995 Total	998	379	5,162	1,519	8,232	22,372	6,030	71,717	11,943	5,304	28,868	900	151,025		
1996 Total	1,051	369	5,249	2,176	9,030	22,172	6,260	71,049	13,015	5,878	28,354	919	151,017		
1997 Total	1,040	427	4,725	2,342	8,701	23,214	5,649	75,078	11,814	5,685	28,225	882	154,097		
1998 Total	985	383	4,879	2,335	8,748	22,337	6,206	77,085	11,170	5,349	27,693	880	154,132		
1999 Total 2000 Total	995 1,097	434 432	4,607 4,262	2,393 1,985	8,563 7,903	21,474 22,056	6,088 5,597	78,793 78,798	12,519 11,927	4,758 4,135	28,060 28.652	686 839	156,264 156,673		
2001 Total	995	432	4,434	1,965	7,416	20,135	5,293	79,755	8.454	3,145	26,888	596	149,175		
2002 Total	992	431	4,310	1,053	7,415	21,525	4,403	79,013	9,493	3,825	29,643	846	152,580		
2003 Total	1.206	423	3.899	1,289	7,496	19.817	5.285	78,705	12.953	4,222	27,988	715	154,530		
2004 Total	1,340	499	3,969	1,562	8,270	19,773	5,967	78,959	11,684	3,248	28,367	797	153,925		
2005 Total	1,353	375	4,249	1,657	8,492	19,466	5,368	72,882	9,687	3,195	28,271	733	144,739		
2006 Total	1,310	235	4,355	1,599	8,371	19,464	4,223	77,669	9,923	2,899	28,400	572	148,254		
2007 Total	1,371	189	4,257	1,599	8,273	16,694	4,243	77,580	9,411	1,590	28,287	631	143,128		
2008 Total	1,261	142	4,188	1,534	7,926	15,703	3,219	76,421	8,507	1,676	26,641	821	137,113		
2009 Total	1,096	163	4,225	1,748	8,165	13,686	2,963	75,748	7,574	1,868	25,292	740	132,329		
2010 January	116	13	367	137	709	1,544	225	6,959	634	169	2,114	72	12,120		
February	102	11	339	111	623	1,481	197	6,303	578	162	1,967	64	11,118		
March	91 80	8 9	351 326	134 144	661 645	1,649 1,258	163 169	6,588 6,194	735 669	188 187	2,149 2,094	67 80	11,936 11,034		
April May	84	12	326	149	666	1,238	181	6,194	738	164	2,094	69	11,614		
June	97	10	350	150	699	1,482	187	6,885	700	132	2,137	68	12,075		
July	110	18	459	146	812	1,713	194	7,205	696	107	2,246	75	12,718		
August	105	11	490	152	838	1,792	189	7,701	812	99	2.243	78	13,395		
September	89	9	421	148	750	1,499	165	7,085	713	76	2,182	62	12,238		
October	80	7	419	133	712	1,527	184	6,443	637	117	2,114	84	11,562		
November	69	4	401	134	683	1,301	196	6,520	688	130	2,145	79	11,493		
December	88	12	476	136	793	1,677	209	7,223	744	134	2,255	71	12,777		
Total	1,111	124	4,725	1,672	8,592	18,441	2,258	81,583	8,343	1,668	25,706	869	144,082		
2011 January	103	13	402	139	739	1,723	198	7,017	663	137	2,271	71 64	12,341		
February March	95 97	8 7	350 341	125 134	656 666	1,447 1.457	151 165	6,314 6.478	564 705	160 188	2,021 2,156	64 65	10,961 11.494		
April	71	5	347	118	622	1,155	162	6,473	662	196	2,130	62	11,089		
May	77	6	373	160	714	1,622	140	6,829	597	208	2,047	74	11,822		
June	82	8	368	144	693	1,549	155	6,696	698	147	2.321	71	11,921		
July	96	13	431	155	791	1,763	158	7,181	762	118	2,304	76	12,669		
August	86	7	408	160	752	1,814	157	7,248	706	100	2,268	76	12,639		
September	76	6	356	150	674	1,686	166	6,629	670	123	2,215	76	11,811		
October	63	8	359	153	668	1,609	135	6,312	669	126	2,123	72	11,317		
November	64	6	378	155	691	1,266	121	6,841	680	147	2,226	77	11,623		
December	78	6	413	154	739	1,317	138	7,480	738	188	2,359	73	12,577		
Total	989	93	4,526	1,746	8,403	18,406	1,846	81,500	8,115	1,838	26,422	858	142,266		
2012 January	83 82	6 4	387 357	163 163	698 665	1,552 1,388	286 190	7,295 6,999	673 723	182	2,343 2,152	70 65	12,657 11,904		
February March	82 68	4	363	155	658	1,388	190	6,765	723 747	163 195	2,152	60	11,633		
April	49	6	359	159	639	1,412	206	6,513	747	166	1.885	65	10,895		
May	67	6	364	174	686	1,041	176	7,249	762	192	2,151	74	11,952		
June	64	10	453	316	1.034	1,114	198	7,243	691	138	2,131	71	11,944		
6-Month Total	413	36	2,282	1,131	4,380	7,553	1,253	42,110	4,372	1,035	12,662	407	70,985		
2011 6-Month Total 2010 6-Month Total	526 571	47 63	2,181 2,060	820 824	4,090 4,003	8,952 8,933	971 1,121	39,808 39,406	3,890 4,053	1,037 1,004	12,928 12,522	408 420	69,629 69,898		

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only

tire-derived fuels).

NA=Not available.

Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," 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/#electricity for all available data beginning in 1973.

Sources: See end of section.

plants.

b Industrial combined-heat-and-power (CHP) and industrial electricity-only

plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

synfuel.

d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

e Natural gas, plus a small amount of supplemental gaseous fuels.

f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and the derived fuels).

g Includes a small amount of conventional hydroelectric power, other gases, photovoltaic (PV) energy, wind, wood, and other, which are not separately displayed.

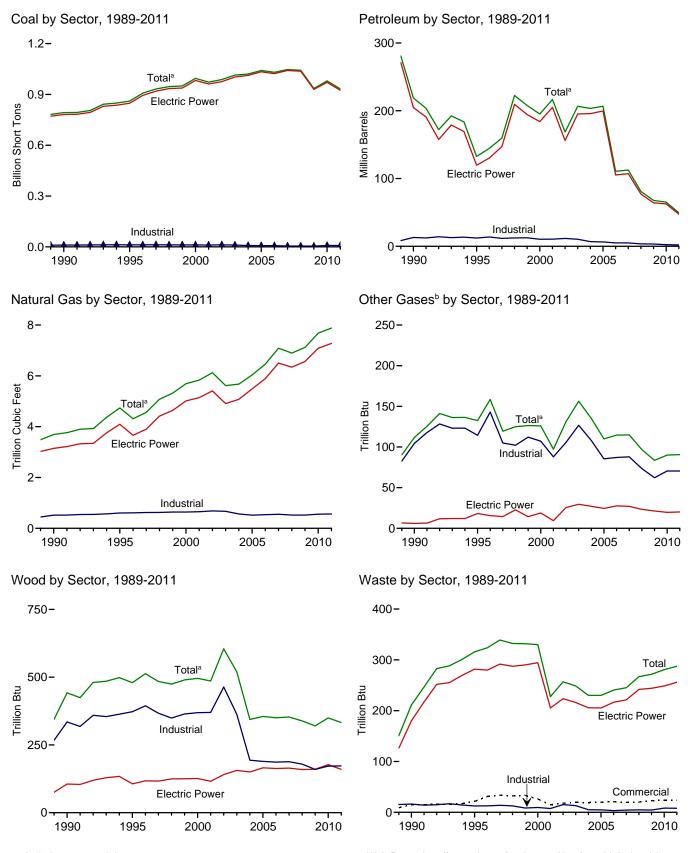
^h Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Conventional hydroelectric power Wood and wood-derived fuels.

y wood and wood-derived ruels.
k Includes photovoltaic (PV) energy, wind, batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels).

Figure 7.3 Consumption of Selected Combustible Fuels for Electricity Generation



^a Includes commercial sector.

^b Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Sources: Tables 7.3a–7.3c.

Consumption of Combustible Fuels for Electricity Generation: Table 7.3a **Total (All Sectors)** (Sum of Tables 7.3b and 7.3c)

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total	389,212 405,962	47,058 38,907	513,190 467,221	NA NA	507 70	562,781 506,479	3,660 3,158	NA NA	1 (s)	2 2	NA NA
1980 Total 1985 Total	569,274 693,841	29,051 14,635	391,163 158,779	NA NA	179 231	421,110 174,571	3,682 3,044	NA NA	3	2 7	NA NA
1990 Total ^k	792,457	18,143	190,652	437	1,914	218,800	3,692	112	442	211	36
1995 Total 1996 Total	860,594 907,209	19,615 20,252	95,507 106.055	680 1.712	3,355 3,322	132,578 144.626	4,738 4,312	133 159	480 513	316 324	42 37
1997 Total	931,949	20,309	118,741	237	4,086	159,715	4,565	119	484	339	36
1998 Total	946,295	25,062	172,728	549	4,860	222,640	5,081	125	475	332	36
1999 Total 2000 Total	949,802 994,933	25,951 31,675	158,187 143,381	974 1,450	4,552 3,744	207,871 195,228	5,322 5,691	126 126	490 496	332 330	41 46
2001 Total	972,691	31,150	165,312	855	3,871	216,672	5,832	97	486	228	160
2002 Total 2003 Total	987,583 1.014.058	23,286 29.672	109,235 142,518	1,894 2.947	6,836 6,303	168,597 206.653	6,126 5,616	131 156	605 519	257 249	191 193
2004 Total	1,020,523	20,163	142,088	2,856	7,677	203,494	5,675	135	344	230	183
2005 Total	1,041,448 1.030.556	20,651 13,174	141,518 58,473	2,968 2,174	8,330 7,363	206,785 110,634	6,036 6,462	110 115	355 350	230 241	173 172
2006 Total 2007 Total	1,046,795	15,683	63,833	2,174	6,036	112,615	7,089	115	353	245	168
2008 Total	1,042,335	12,832	38,191	2,822	5,417	80,932	6,896	97	339	267	172
2009 Total	934,683	12,658	28,576	2,328	4,821	67,668	7,121	84	320	272	170
2010 January	90,767	2,485 869	2,860	241 212	433 404	7,751	570 502	7 6	30 28	22 20	15
February March	80,209 76.544	785	1,075 1,245	147	438	4,174 4.370	479	8	20 29	20 24	13 15
April	67,037	726	1,160	126	382	3,923	494	8	27	23	15
May June	76,061 87,395	1,050 1,244	1,997 3,087	121 154	415 493	5,244 6,950	582 731	8 8	27 29	24 24	15 16
July	94,993	1,347	3,681	200	524	7,849	923	8	31	24	16
August September	94,786 79,573	1,093 905	2,987 1,789	164 151	423 394	6,358 4,813	972 723	8 8	32 30	24 23	16 16
October	70,918	787	1,113	129	362	3,840	594	6	28	23	15
November	72,756	876	982	143	317	3,588	519	7	29	24	15
December Total	88,645 979,684	1,883 14,050	2,021 23,997	266 2,056	408 4,994	6,210 65,071	591 7,680	8 90	31 350	24 281	16 184
	,	,	,	,	,		,				
2011 January February	90,106 73,505	1,238 854	1,700 1,007	231 124	526 387	5,802 3,919	564 503	7 6	30 27	22 21	12 11
March	72,340	839	1,122	133	465	4,421	504	7	28	24	14
April May	66,870 73,511	957 909	1,328 1,222	121 110	304 316	3,924 3,820	548 603	7 7	24 25	23 24	13 14
June	84,072	969	1,261	145	388	4,316	729	8	29	25	14
July	94,214	1,161	1,542	167	479	5,265	966 948	8 8	30	26 25	15
August September	92,177 76,612	809 778	1,333 958	122 162	415 392	4,341 3,861	948 710	8	30 28	25 24	14 13
October	69,524	711	940	124	307	3,311	600	8	26	24	13
November December	66,789 73,190	715 835	904 927	135 134	250 331	3,002 3,551	568 639	8 8	26 30	24 25	13 14
Total	932,911	10,775	14,246	1,707	4,561	49,533	7,880	91	333	287	162
2012 January	70,595	772	988	135	414	3.964	676	9	30	23	14
February	62,802	649	753	108	314	3,079	672	9	28	22	12
March April	57,564 51,574	579 734	869 797	120 126	251 204	2,825 2,675	704 744	9 8	26 25	24 24	13 13
May	62,958	854	838	141	234	3,006	843	8	28	25	14
June	71,698	854 4,443	1,295 5,541	133 763	225 1,642	3,410 18,959	910 4,550	9 52	29 167	24 141	14 80
6-Month Total	377,191	,	•		,	,	,				
2011 6-Month Total 2010 6-Month Total	460,405 478,013	5,766 7,160	7,641 11,424	864 1,002	2,386 2,565	26,203 32,412	3,451 3,358	43 46	163 170	139 137	79 89

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

tire-derived fuels).

plants.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants.

• 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/#electricity for all available data beginning in 1973.

Sources: See sources for Tables 7.3b and 7.3c.

synfuel.

b Fuel oil nos. 1, 2, and 4. For 1973-1979, data are for gas turbine and internal

combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.

^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant use of petroleum. For 1980-2000, electric utility data also include a small amount of fuel

oil no. 4.

d Jet fuel, kerosene, other petroleum liquids, and waste oil.

e Petroleum coke is converted from short tons to barrels by multiplying by 5.

Petroleum coke is converted from short tons to barrels by multiplying by 5.
 f Natural gas, plus a small amount of supplemental gaseous fuels.
 g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.
 h Wood and wood-derived fuels.
 i Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

J Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

K Through 1988, data are for electric utilities only. Beginning in 1989, data are

for electric utilities, independent power producers, commercial plants, and industrial

Table 7.3b Consumption of Combustible Fuels for Electricity Generation: Electric Power Sector (Subset of Table 7.3a)

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ⁹	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	Th	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA	70	506,479	3,158	NA	(s)	2	NA
1980 Total	569,274	29.051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total 1990 Total ^k 1995 Total	693,841 781,301 847,854	14,635 16,394 18,066	158,779 183,285 88,895	NA 25 441	231 1,008 2,452	174,571 204,745 119,663	3,044 3,147 4,094	NA 6 18	106 106	7 180 282	(s) 2
1996 Total	894,400	18,472	98,795	567	2,467	130,168	3,660	16	117	280	2
1997 Total	919,009	18,646	112,423	130	3,201	147,202	3,903	14	117	292	1
1998 Total	934,126	23,166	165,875	411	3,999	209,447	4,416	23	125	287	2
1999 Total	937,888	23,875	151,921	514	3.607	194,345	4.644	14	125	290	1
2000 Total	982,713	29,722	138,047	403	3,155	183,946	5,014	19	126	294	1
2001 Total	961,523	29,056	159,150	374	3,308	205,119	5,142	9	116	205	109
2002 Total	975,251	21,810	104,577	1,243	5,705	156,154	5,408	25	141	224	137
2003 Total 2004 Total 2005 Total	1,003,036 1,012,459 1,033,567 1,022,802	27,441 18,793 19,450 12,578	137,361 138,831 138,337 56,347	1,937 2,511 2,591 1,783	5,719 7,135 7,877 6,905	195,336 195,809 199,760 105,235	4,909 5,075 5,485 5,891	30 27 24 28	156 150 166 163	216 206 205 216	136 131 116 117
2006 Total 2007 Total 2008 Total 2009 Total	1,041,346	15,135 12,318 11,848	62,072 37,222 27,768	2,496 2,608 2,110	5,523 5,000 4,485	103,233 107,316 77,149 64,151	6,502 6,342 6,567	27 23 21	165 159 160	221 242 244	117 117 122 115
2010 January	90,080 79,537	2,441 833	2,804 1,023	219 196	404 379	7,482 3,946	519 456	2 2	16 15	20 18	9
March	75,772	756	1,214	130	415	4,176	432	2	15	21	9
April	66,559	695	1,132	112	360	3,741	449	2	14	20	9
May	75,311	1,021	1,964	104	390	5,040	536	2	13	21	10
June	86,725	1,220	3,059	137	463	6,733	681	2	15	21	10
July	94,194	1,306	3,643	185	495	7,610	869	2	16	22	10
August	93,922	1,066	2,962	149	392	6,136	915	2	16	22	10
September	78,881	880	1,760	136	371	4,628	671	1	15	21	10
October	70,205	762	1,076	112	337	3,634	547	1	13	20	10
November	72,206	849	949	125	290	3,373	473	1	15	21	10
December	87,854	1,847	1,973	244	383	5,978	538	1	16	22	10
Total	971,245	13,677	23,560	1,848	4,679	62,477	7,085	20	177	249	116
2011 January February	89,305 72,814	1,215 832	1,653 973	223 117	495 365	5,564 3,750	512 457	1	15 14	20 18	9 8
March April May June	71,671 66,411 72,742 83.360	822 936 891 946	1,093 1,296 1,199 1,236	121 104 103 129	440 282 295 364	4,234 3,747 3,670 4,134	457 500 551 679	1 2 2 2 2	13 11 12 14	22 21 22 22	10 10 10 10
July	93,388	1,135	1,518	158	452	5,069	912	2 2	15	23	11
August	91,340	788	1,311	107	389	4,152	894		15	22	10
September	75,820	756	940	126	369	3,670	661		13	21	10
October November December Total	68,779	686	911	119	288	3,155	553	2	12	21	10
	66,260	693	883	129	233	2,871	518	2	12	21	10
	72,633	811	899	128	309	3,382	584	2	15	22	10
	924,523	10,513	13,914	1,564	4,281	47,398	7,279	20	160	256	117
2012 January	69,864 62,146	754 635	961 728	124 97	331 263	3,497 2,775	623 623	3	15 14	21 19	10 9
March	56,908	563	849	111	201	2,528	655	2	13	21	10
April	51,168	713	776	102	154	2,360	697	2	10	21	10
May	62,595	837	811	134	187	2,717	790	2	12	22	11
June	71,305	827	1,278	117	176	3,102	856	3	13	19	8
6-Month Total	373,986	4.330	5,402	685	1,313	16,981	4,243	14	75	123	59
2011 6-Month Total	456,303	5,643	7,451	797	2,242	25,099	3,156	9	78	124	57
2010 6-Month Total	473,984	6,966	11,197	898	2,411	31,118	3,072	11	86	122	56

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

tire-derived fuels).

tire-derived fuels).

J Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

K Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • 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. • 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/#electricity for all available data beginning in 1973.

Sources: See end of section.

Antifractie, bituminious coat, sustaining synfuel.

b Fuel oil nos. 1, 2, and 4. For 1973-1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.

c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant use of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4.

petroleum. For 1980-2000, electric utility data also include a small amount of ideo oil no. 4.

d Jet fuel, kerosene, other petroleum liquids, and waste oil.

e Petroleum coke is converted from short tons to barrels by multiplying by 5.

f Natural gas, plus a small amount of supplemental gaseous fuels.

g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

h Wood and wood-derived fuels.

i Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

Table 7.3c Consumption of Selected Combustible Fuels for Electricity Generation: Commercial and Industrial Sectors (Subset of Table 7.3a)

			ial Sector ^a		Industrial Sector ^b							
			Notural	Biomass			Notural	Other	Bior	nass		
	Coalc	Petroleum ^d	Natural Gas ^e	Waste ^f	Coalc	Petroleum ^d	Natural Gas ^e	Other Gases ^g	Woodh	Waste ^f	Other ⁱ	
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu		
1989 Total	414	1,165	18	9	9,707	8,482	444	83	267	15	37	
1990 Total	417	953	28	15	10,740	13,103	517	104	335	16	36	
1995 Total 1996 Total	569 656	649 645	43 42	21 31	12,171 12,153	12,265 13,813	601 610	114 143	373 394	13 13	40 35	
1997 Total	630	790	39	34	12,133	11.723	623	105	367	14	36	
1998 Total	440	802	41	32	11,728	12,392	625	102	349	13	35	
1999 Total	481	931	39	33	11,432	12,595	639	112	364	.8	39	
2000 Total	514 532	823 1.023	37 36	26 15	11,706 10.636	10,459 10,530	640 654	107 88	369 370	10 7	45 44	
2001 Total 2002 Total	477	834	33	18	11,855	11,608	685	106	464	15	43	
2003 Total	582	894	38	19	10,440	10,424	668	127	362	13	46	
2004 Total	377	766	33	19	7,687	6,919	566	108	194	5	41	
2005 Total	377	585	34	20	7,504	6,440	518	85	189	5	46	
2006 Total 2007 Total	347 361	333 258	35 34	21 19	7,408 5.089	5,066 5.041	536 554	87 88	187 188	3 4	45 41	
2007 Total	369	166	33	20	5.075	3,617	520	73	179	5	39	
2009 Total	317	190	34	23	4,674	3,328	520	62	160	4	42	
2010 January	32	18	3	2	654	252	48	5	14	1	4	
February	28	16	3	2	643	212	43	5	13	1	4	
March	26 23	12 11	3	2 2	746 456	182 171	44 42	6 6	14 14	1	4 4	
April May	23	14	3	2	727	190	44	6	14	1	4	
June	27	13	3	2	643	204	47	6	14	i	5	
July	30	26	4	2	769	213	50	6	15	1	5 5	
August	29	15	4	2	835	207	53	7	15	1	5	
September October	26 23	13 11	3	2 2	666 690	171 195	48 44	6 5	15 14	1	5 5	
November	23	7	3	2	529	208	43	6	14	1	4	
December		15	4	2	765	217	48	6	15	i	5	
Total	314	172	39	24	8,125	2,422	555	70	172	8	55	
2011 January	30	14	3	2	771	223	49	6	15	1	2	
February	28 28	9 8	3	2 2	663 641	160 179	44 44	5 6	13 14	1	2	
March April	22	6	3	2	437	179	45	6	14	1	3	
May	23	7	3	2	746	143	48	5	13	i	3	
June	24	.9	3	2	688	173	47	6	15	1	3	
July	28	15 9	4	2	798	181	50	7	15	1	3	
August	26 23	9 8	3 3	2 2	811 769	180 183	50 46	6 6	15 14	1 1	3 2	
September October		0 11	3	2	709	145	46 44	6	14	1	3	
November	20	8	3	2	509	124	47	6	15	i	3	
December	24	8	3	2	533	161	51	6	16	1	3	
Total	297	112	38	24	8,091	2,023	564	71	173	8	31	
2012 January	25	7	3	2	706	460	50	6	15 15	1	2	
February March	25 22	5 6	3 3	2 2	631 634	299 291	47 46	6 7	15 14	1	2 2	
April	19	8	3	2	387	306	44	7	15	1	2	
May	20	8	3	2	342	281	51	7	16	i	3 2	
June 6-Month Total	22 134	16 50	4 18	5 15	371 3,071	292 1,928	51 289	6 38	16 91	1 4	2 15	
2011 6-Month Total 2010 6-Month Total	156 159	54 84	18 17	11 12	3,947 3.870	1,050 1,211	277 268	34 34	85 83	4	16 26	

a Commercial combined-heat-and-power (CHP) and commercial electricity-only

i Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

Notes: • Data are for fuels consumed to produce electricity. Through 1988, data are not available. • See Note, "Classification of Power Plants Into Energy-Use Sectors," 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/#electricity for all

and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1989.

Sources: • 1989-1997: U.S. Energy Information Administration (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." • 2004-2007: EIA, Form EIA-906, "Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

plants.

b Industrial combined-heat-and-power (CHP) and industrial electricity-only

plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

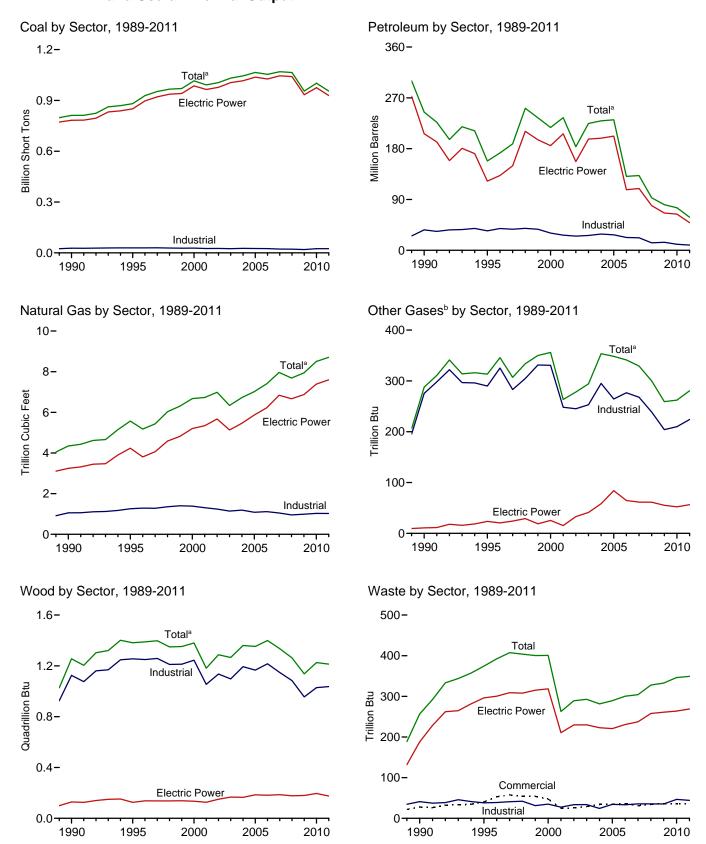
synfuel. $^{\rm d}$ Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

Petitietini, and waste oii.
Natural gas, plus a small amount of supplemental gaseous fuels.
Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and Blast furnace gas, propane gas, and other manufactured and waste gases

derived from fossil fuels.

h Wood and wood-derived fuels.

Figure 7.4 Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output



^a Includes commercial sector.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Sources: Tables 7.4a–7.4c.

^b Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Table 7.4a Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Total (All Sectors) (Sum of Tables 7.4b and 7.4c)

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ⁹	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	TI	nousand Barre	ıls	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total	389,212 405,962	47,058 38,907	513,190 467,221	NA NA	507 70	562,781 506,479	3,660 3,158	NA NA	1 0	2 2	NA NA
1980 Total	569,274	29,051	391,163	NA NA	179	421,110	3,682	NA	3	2	NA
1985 Total	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total k	811,538	20,194	209,081	1,332	2,832	244,765	4,346	288	1,256	257	86
1995 Total 1996 Total	881,012 928.015	21,697 22,444	112,168 124.607	1,322 2,468	4,590 4,596	158,140 172,499	5,572 5,178	313 346	1,382 1,389	374 392	97 91
1997 Total	952,955	22,893	134,623	526	6,095	188,517	5,433	307	1,397	407	103
1998 Total	966,615	30,006	189,267	1,230	6,196	251,486	6,030	334	1,349	404	95
1999 Total	970,175	30,616	172,319	1,812	5,989	234,694	6,305	350	1,352	400	101
2000 Total	1,015,398	34,572	156,673	2,904	4,669	217,494	6,677	356	1,380	401	109
2001 Total 2002 Total	991,635 1,005,144	33,724 24,749	177,137 118,637	1,418 3,257	4,532 7,353	234,940 183,409	6,731 6,986	263 278	1,182 1,287	263 289	229 252
2002 Total	1,005,144	31,825	152,859	4,576	7,067	224.593	6,337	276	1,267	293	262
2004 Total	1,044,798	23,520	157,478	4,764	8,721	229,364	6,727	353	1,360	282	254
2005 Total	1,065,281	24,446	156,915	4,270	9,113	231,193	7,021	348	1,353	289	237
2006 Total	1,053,783	14,655	69,846	3,396	8,622	131,005	7,404	341	1,399	300	247
2007 Total	1,069,606	17,042	74,616	4,237	7,299	132,389	7,962	329	1,336	304	239
2008 Total 2009 Total	1,064,503 955,190	14,137 14,800	43,477 33,672	3,765 3,218	6,314 5,828	92,948 80,830	7,689 7,938	300 259	1,263 1,137	328 333	212 228
2009 10tal	955,190	14,000	33,072	3,210	3,020	00,030	7,330	233	1,137	333	220
2010 January	92,738	2,643	3,212	338	525	8,819	643	21	103	29	18
February	82,029	978	1,397	286	497	5,143	566	19	96	26	17
March	78,383	866	1,439	207	522	5,124	547	23	103	30	19
April	69,179 77,725	837 1,111	1,355 2,221	176 176	458 500	4,656 6,005	556 647	22 23	98 98	29 29	19 20
May June	89,063	1,111	3,291	204	586	7,721	796	23	101	29 29	21
July	96.783	1.455	3.921	244	613	8.684	997	22	105	29	21
August	96,593	1,185	3,190	206	510	7,132	1,047	23	106	29	21
September	81,250	961	2,006	191	475	5,534	791	22	103	27	20
October	72,571	871	1,370	186	453	4,693	662	20	101	29	20
November December	74,496 90.600	1,017 2.029	1,212 2,332	204 361	414 499	4,503 7,218	586 665	21 23	102 109	30 30	20 21
Total	1,001,411	15,247	26,944	2,777	6,053	75,231	8,502	262	1,226	346	237
2011 January	92,180 75.364	1,302 934	2,014 1.197	286 161	602 490	6,611 4,742	639 568	22 20	108 96	29 26	15 14
March	74,254	890	1,327	175	573	5,256	570	24	100	29	16
April	68,631	1,020	1,541	170	409	4,774	615	23	95	27	15
May	75,353	962	1,405	147	434	4,683	671	23	94	29	16
June	85,880	1,013	1,452	188 206	475	5,030	794 1 027	24 24	104	29	17 17
July August	96,079 93,974	1,208 851	1,739 1,523	206 165	566 498	5,982 5,029	1,037 1,020	24	105 103	30 30	17
September	78.352	816	1,323	225	465	4.497	777	23	103	29	15
October	71,305	762	1,162	152	388	4,018	666	25	97	29	15
November	68,515	748	1,082	164	358	3,784	636	23	100	30	15
December	75,036	868	1,109	162	408	4,181	713	25	109	31	17
Total	954,925	11,374	16,678	2,203	5,666	58,586	8,707	281	1,214	349	189
2012 January	72,487 64.477	817 674	1,177 882	171 140	487 388	4,598 3,637	753 743	26 26	107 99	29 27	16 15
February March	59,263	609	985	185	300 372	3,637	743 775	26	99 95	27 29	16
April	53,057	764	908	177	305	3,376	814	25	90	29	15
May	64,624	888	977	174	338	3,730	914	25	98	30	16
June	73,266	905	1,434	171	309	4,058	983	26	98	29	16
6-Month Total	387,176	4,658	6,363	1,019	2,200	23,041	4,983	155	588	173	94
2011 6-Month Total 2010 6-Month Total	471,663 489,118	6,122 7,729	8,935 12,914	1,129 1,386	2,982 3,088	31,096 37,468	3,858 3,755	136 131	598 598	170 171	93 115

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

non-renewable waste (municipal solid waste from non-biogenic sources, and

NA=Not available.

Notes: • 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/#electricity for all available data beginning in 1973.

Sources: See sources for Tables 7.4b and 7.4c.

Anthracite, bituminous coal, subbituminous coal, lighte, waste coal, and coal synfuel.

b Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.

c Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4.

d Jet fuel, kerosene, other petroleum liquids, and waste oil.

Jet fuel, kerosene, other petroleum liquids, and waste oil.
Petroleum coke is converted from short tons to barrels by multiplying by 5.

Natural gas, plus a small amount of supplemental gaseous fuels.

Natural gas, plus a small amount of supplemental gaseous ruels.
 Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.
 Mood and wood-derived fuels.
 Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes

non-renewable waste (municipal soille waste from non-biogenic sources, and tire-derived fuels).

j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

k Through 1988, data are for electric utilities only. Beginning in 1989, data are

for electric utilities, independent power producers, commercial plants, and industrial plants.

Table 7.4b Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Electric Power Sector (Subset of Table 7.4a)

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases	Woodh	Waste ⁱ	Other
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total 1980 Total 1985 Total	389,212 405,962 569,274 693.841	47,058 38,907 29,051 14,635	513,190 467,221 391,163 158,779	NA NA NA	507 70 179 231	562,781 506,479 421,110 174,571	3,660 3,158 3,682 3,044	NA NA NA	1 (s) 3 8	2 2 2	NA NA NA NA
1990 Total ^k	782,567 850,230 896,921 921,364 936,619 940,922	16,567 18,553 18,780 18,989 23,300 24,058	184,915 90,023 99,951 113,669 166,528 152,493	26 499 653 152 431 544	1,008 2,674 2,642 3,372 4,102 3,735	206,550 122,447 132,593 149,668 210,769 195,769	3,245 4,237 3,807 4,065 4,588 4,820	11 24 20 24 29 19	129 125 138 137 137 138	188 296 300 309 308 315	(s) 2 2 1 2 1
2000 Total	985,821 964,433 977,507 1,005,116 1,016,268 1,037,485 1,026,636 1,045,141 1,040,580 933,627	30,016 29,274 21,876 27,632 19,107 19,675 12,646 15,327 12,547 12,035	138,513 159,504 104,773 138,279 139,816 139,409 57,345 63,086 38,241 28,782	454 377 1,267 2,026 2,713 2,685 1,870 2,594 2,670 2,210	3,275 3,427 5,816 5,799 7,372 8,083 7,101 5,685 5,119 4,611	185,358 206,291 156,996 196,932 198,498 202,184 107,365 109,431 79,056 66,081	5,206 5,342 5,672 5,135 5,464 5,869 6,222 6,841 6,668 6,873	25 15 33 41 58 84 65 61 55	134 126 150 167 165 185 182 186 177	318 211 230 230 223 221 231 237 258 261	1 113 143 140 138 123 125 124 131
2010 January February March April May June July August September October November December Total	90,452 79,884 76,110 66,842 75,597 87,030 94,519 94,247 79,176 70,492 72,514 88,189 975,052	2,459 851 759 699 1,023 1,222 1,309 1,068 883 772 890 1,854 13,790	2,887 1,061 1,256 1,214 2,055 3,147 3,730 3,051 1,845 1,161 1,035 2,062 24,503	222 219 131 112 104 137 185 149 136 112 126 245 1,877	413 389 427 369 400 471 503 394 372 346 301 391 4,777	7,636 4,076 4,281 3,871 6,860 7,742 6,236 4,726 3,773 3,557 6,118 64,055	546 480 457 471 560 706 897 943 697 570 497 564 7,387	5 4 5 5 5 5 5 5 4 4 4 3 4 4 5	17 16 16 15 14 16 17 18 16 15 16 17	21 20 22 21 22 23 23 23 22 22 22 23 23 23 23	10 9 10 10 11 11 11 11 10 10 11 11
2011 January February March April May June July August September October November December Total	89,682 73,156 72,009 66,741 73,100 93,736 91,667 76,131 69,109 66,557 72,971 928,558	1,225 858 827 940 894 950 1,139 793 760 690 697 814	1,759 1,020 1,164 1,378 1,279 1,316 1,603 1,400 1,027 995 962 973 14,876	224 117 121 104 103 129 158 107 127 119 131 128 1,568	500 374 451 291 306 374 462 400 380 295 242 319 4,394	5,707 3,866 4,364 3,879 3,807 4,265 5,211 4,299 3,812 3,280 2,999 3,512 49,003	542 482 483 526 578 705 942 923 686 578 543 612 7,602	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	16 15 12 13 15 16 16 15 13 16 175	21 20 23 22 22 23 24 23 22 23 23 23 23 269	10 9 11 10 11 11 11 11 10 10 10 11
2012 January	70,231 62,450 57,211 51,357 62,827 71,514 375,590	758 638 567 717 842 830 4,353	1,054 790 898 838 892 1,364 5,835	125 97 111 102 134 117 686	342 274 212 163 198 182 1,371	3,649 2,895 2,636 2,472 2,860 3,220 17,731	651 649 680 724 819 884 4,407	6 5 4 5 31	16 15 14 11 13 15 83	22 21 23 22 23 20 131	11 10 11 11 11 9 64
2011 6-Month Total 2010 6-Month Total	458,387 475,914	5,694 7,013	7,917 11,619	799 926	2,296 2,469	25,889 31,903	3,316 3,219	26 28	86 95	131 129	61 60

a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

tire-derived fuels).

synfuel.

b Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small Puel oil nos. 1, z, and 4. Inflough 2000, electric utility data also include small amounts of kerosene and jet fuel.

Puel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4.

Jet fuel, kerosene, other petroleum liquids, and waste oil.

Petroleum coke is converted from short tons to barrels by multiplying by 5.

Natural gas, plus a small amount of supplemental gaseous fuels.

Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Wood and wood-derived fuels.

Mood almost wood devices of the property of

tire-derived fuels).

J Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • 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. • 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 thtp://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973.

Sources: See end of section.

Table 7.4c Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output: Commercial and Industrial Sectors (Subset of Table 7.4a)

1989 Total	Coal ^c Thousand Short Tons 1,125 1,191 1,419 1,660 1,738	Petroleum ^d Thousand Barrels 1,967 2,056 1,245	Natural Gase Billion Cubic Feet	Biomass Wastef Trillion Btu	Coal ^c Thousand Short Tons	Petroleum ^d Thousand	Natural Gas ^e	Other Gases ^g	Biom Wood ^h	wass Waste ^f	Other ⁱ
1990 Total	Thousand Short Tons 1,125 1,191 1,419 1,660	Thousand Barrels 1,967 2,056	Gase Billion Cubic Feet	Trillion Btu	Thousand				Woodh	Wastef	Other ⁱ
1990 Total	1,125 1,191 1,419 1,660	1,967 2,056	Cubic Feet	Btu		Thousand	l l				
1990 Total	1,191 1,419 1,660	2,056				Barrels	Billion Cubic Feet		Trillion	Btu	
1990 Total	1,191 1,419 1,660	2,056		22	24,867	25,444	914	195	926	35	85
1995 Total	1,660	1.245	46	28	27,781	36,159	1,055	275	1,125	41	86
			78	40	29,363	34,448	1,258	290	1,255	38	95
1996 Total		1,246 1,584	82 87	53 58	29,434	38,661 37,265	1,289 1,282	325	1,249 1,259	39 41	89 102
1997 Total 1998 Total	1,443	1,584	87 87	58 54	29,853 28,553	37,265 38.910	1,282	283 305	1,259	41 42	93
1999 Total	1,490	1,613	84	54	27,763	37,312	1,401	331	1,213	31	99
2000 Total	1,547	1,615	85	47	28,031	30,520	1,386	331	1,244	35	108
2001 Total	1,448	1,832	79	25	25,755	26,817	1,310	248	1,054	27	101
2002 Total	1,405	1,250	74	26	26,232	25,163	1,240	245	1,136	34	92
2003 Total	1,816	1,449	58	29	24,846	26,212	1,144	253	1,097	34	103
2004 Total 2005 Total	1,917 1,922	2,009 1,630	72 68	34 34	26,613 25,875	28,857 27,380	1,191 1,084	295 264	1,193 1,166	24 34	94 94
2006 Total	1,886	935	68	36	25,262	22,706	1,004	204 277	1,100	33	102
2007 Total	1,927	752	70	31	22,537	22,207	1,050	268	1,148	36	98
2008 Total	2,021	671	66	34	21,902	13,222	955	239	1,084	35	60
2009 Total	1,798	521	76	36	19,766	14,228	990	204	955	35	82
2010 January	193	55	7	3	2,094	1,128	90	17	86	4	6
February	167	47	7	3	1,978	1,021	80	15	79	4	7
March	149	26 24	7 6	3	2,124	817 761	84 79	18	86 83	4	7 7
April May	117 118	24 28	6	3	2,220 2.010	761 796	79 82	18 18	83 83	5 3	7
June	135	26	6	3	1,898	835	84	18	85	3	8
July	142	59	8	3	2.122	883	91	17	88	3	8
August	152	46	9	3	2,194	849	95	19	88	3	8
September	133	27	7	3	1,941	780	87	18	87	3	8
October	121	21	7	3	1,958	899	84	17	86	5	8
November	128	22	7	3	1,854	924	82	17	86	5	8
December Total	165 1,720	55 437	8 86	3 36	2,246 24,638	1,045 10,740	92 1,029	19 210	91 1,029	4 47	8 91
2011 January	178	45	8	3	2,320	858	89	18	91	4	3
February	165	24	7	3	2,044	852	79	16	81	4	3
March	158	29	6	3	2,088	862	81	20	86	3	3
April May	124 128	15 17	6 7	3	1,767 2,126	880 859	82 87	19 18	83 81	3	3
June	124	22	6	3	2,056	743	83	19	89	4	4
July	134	35	7	3	2,208	737	88	19	89	4	4
August	124	20	7	3	2,182	710	89	19	86	4	3
September	121	15	6	3	2,100	670	84	18	87	4	3
October	116	19	6	3	2,080	719	81	20	84	4	3
November	123 138	18 23	7 8	3	1,835 1,927	767 646	86 94	19 20	87 93	4	3
December Total	1,633	282	81	36	24,733	9,302	1,024	224	1, 037	44	40
2012 January	154	30	7	3	2.102	919	94	21	91	4	3
February	137	16	7	3	1,890	726	87	20	84	4	3
March	131	17	6	3	1,921	989	89	21	81	3	3
April	111	14	6	3	1,589	891	84	20	79	4	3
May	117	15	6	3	1,680	855	90	21	85	4	4
June 6-Month Total	110 760	27 119	8 39	6 20	1,643 10,827	811 5,191	92 536	21 124	84 504	4 22	3 19
2011 6-Month Total 2010 6-Month Total	876 880	153 206	40 38	17 19	12,400 12,324	5,054 5,359	502 498	110 103	511 502	21 23	20 43

a Commercial combined-heat-and-power (CHP) and commercial electricity-only

h Wood and wood-derived fuels.

Nood and wood-derived fuels.
Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," 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/#electricity for all available data heringing in 1989.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1989.

Sources: • 1989-1997: U.S. Energy Information Administration (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." • 2004-2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

plants.

b Industrial combined-heat-and-power (CHP) and industrial electricity-only

plants.

^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.

d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other

petroleum, and waste oil.

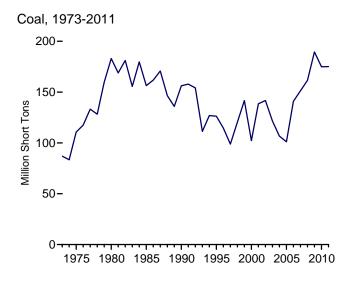
petroleum, and waste oii.

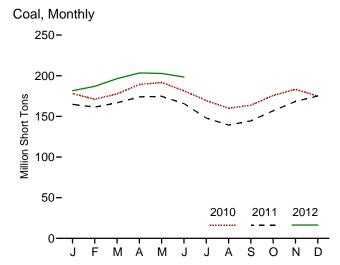
Patrial gas, plus a small amount of supplemental gaseous fuels.

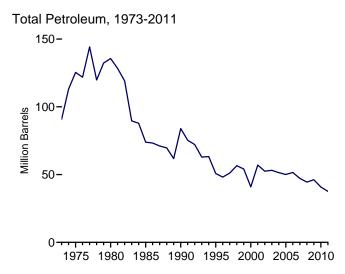
Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and the defined finels).

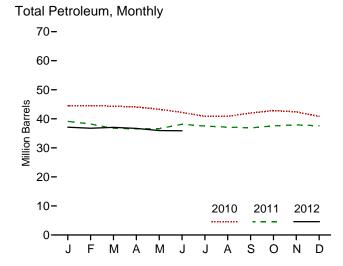
Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels

Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector

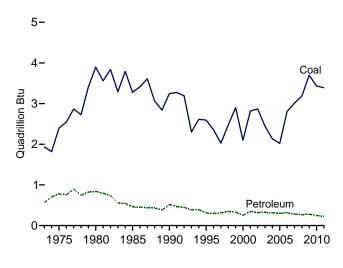




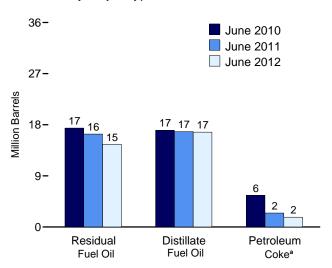




Coal and Petroleum Stocks, 1973-2011



Petroleum by Major Type, End of Month



^a Converted from short tons to barrels by multiplying by 5. Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Sources: Tables 7.5, A1, and A5 (column 6).

Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector

				Petroleum		
	Coal ^a	Distillate Fuel Oilb	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale
	Thousand Short Tons		Thousand Barrels		Thousand Short Tons	Thousand Barrels
973 Year	86,967	10,095	79,121	NA	312	90,776
975 Year		16,432	108.825	NA NA	31	125.413
980 Year		30.023	105,351	NA NA	52	135,635
985 Year		16,386	57,304	NA NA	49	73,933
			67,030	NA NA	94	
990 Year	156,166	16,471				83,970
995 Year		15,392	35,102	NA	65	50,821
996 Year		15,216	32,473	NA	91	48,146
997 Year		15,456	33,336	NA	469	51,138
998 Year ,	120,501	16,343	37,451	NA NA	559	56,591
999 Year ^f	141,604	17,995	34,256	NA	372	54,109
000 Year	102,296	15,127	24,748	NA	211	40,932
001 Year	138,496	20,486	34,594	NA	390	57,031
002 Year		17,413	25,723	800	1.711	52,490
003 Year	121,567	19,153	25.820	779	1,484	53,170
004 Year		19,275	26,596	879	937	51,434
005 Year		18,778	27,624	1.012	530	50.062
006 Year		18.013	28,823	1,380	674	51,583
		18,395	24,136	1,902	554	47.203
007 Year						
008 Year		17,761	21,088	1,955	739	44,498
009 Year	189,467	17,886	19,068	2,257	1,394	46,181
010 January	178,091	17,193	18,035	2,198	1,406	44,454
February	171,026	17,409	18,532	2,222	1,280	44,562
March	177,742	17,353	18,679	2,105	1,240	44,337
April	189.260	17.295	18.353	2.228	1.243	44.090
May		17,185	17,935	2,235	1.188	43,294
June		17.040	17.411	2.172	1.117	42.209
July		16,917	16,441	2.268	1.046	40,856
August		16,737	16,288	2,292	1.112	40.878
		16.608	17,269	2,330	1,112	41,996
September		16,698	17,781	2,330	1,136	42.840
October						
November		17,024	17,492	2,410	1,098	42,414
December	174,917	16,758	16,629	2,319	1,019	40,800
011 January		16,673	16,061	2,383	801	39,123
February	161,439	16,654	15,575	2,435	707	38,200
March	166,737	16,498	15,393	2,437	489	36,776
April	173,999	16,301	15,180	2,460	522	36,551
May	174,619	16,195	15,235	2.447	548	36,617
June		16,779	16.356	2.564	491	38.152
July		16,550	16,090	2,561	462	37,510
August		16,583	15,804	2,581	435	37,144
September		16,691	15,654	2,593	389	36.884
October		16,955	15,034	2,593	413	37.601
		17,148	15,832	2,640	413 453	37,923
November December		17,146 17,101	15,632 15,469	2,677 2,690	470	37,923 37,608
Doodilibei	113,100	17,101	10,700	2,000		37,000
012 January		17,179	15,248	2,718	394	37,116
February	186,958	17,024	15,174	2,766	357	36,749
March		16,929	15,326	2,792	405	37,073
April	203.394	16.876	15.144	2.834	368	36,697
May		16,801	14,809	2.862	301	35,975
June		16,699	14,553	2,903	346	35,886

Anthracite, bituminous coal, subbituminous coal, and lignite.

NA=Not available.

Notes: • 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. • Stocks

are at end of period.

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

• Geographic coverage is the 50 States and the District of Columbia.

Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973.

Sources: • 1973-September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • October 1977-1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • 1982-1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report." • 1989-2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report." • 2001-2003: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward: EIA, Form EIA-920, "Power Plant Operations Report." EIA-923, "Power Plant Operations Report."

Aftificacité, bitufinificus coal, subolitainificus coal, and ignite.
b Fuel oil nos. 1, 2 and 4. For 1973-1979, data are for gas turbine and internal combustion plant stocks of petroleum. For 1980-2000, electric utility data also

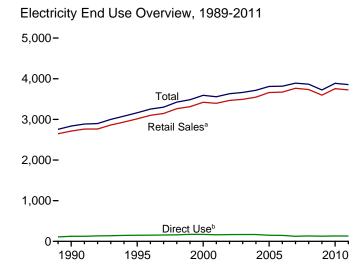
include small amounts of kerosene and jet fuel.

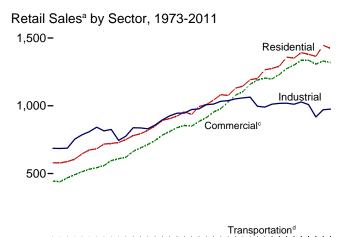
^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant stocks of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4.

Jet fuel and kerosene. Through 2003, data also include a small amount of waste oil.

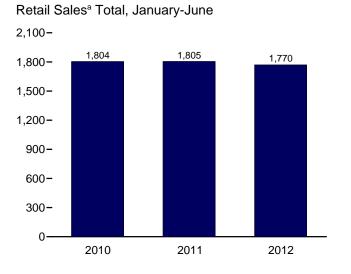
Petroleum coke is converted from short tons to barrels by multiplying by 5.
 Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers.

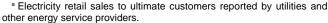
Figure 7.6 Electricity End Use (Billion Kilowatthours)





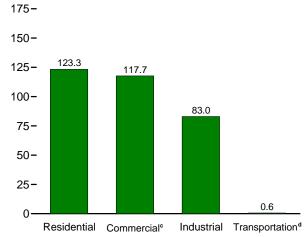
1975 1980 1985 1990 1995 2000 2005 2010



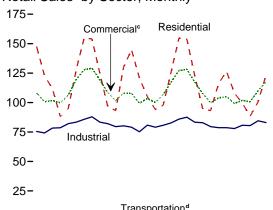


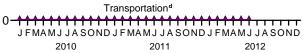
^b See "Direct Use" in Glossary.

Retail Sales^a by Sector, June 2012

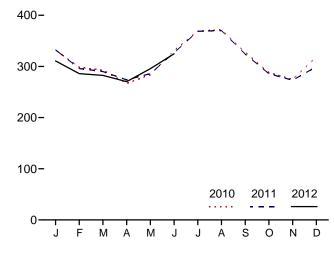


Retail Sales^a by Sector, Monthly





Retail Sales^a Total, Monthly



departmental sales, and other sales to public authorities.

d Transportation sector, including sales to railroads and railways.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity.

Source: Table 7.6.

[°] Commercial sector, including public street and highway lighting, inter-

Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Sales ^a					Discont Retail Sale	
	Residential	Commercialb	Industrialc	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use ⁹	Commercial (Old) h	Other (Old) ⁱ
1973 Total	579,231	E 444,505	686,085	E 3,087	1,712,909	NA	1,712,909	388,266	59,326
1975 Total	. 588,140	E 468,296	687,680	^E 2,974	1,747,091	NA	1,747,091	403,049	68,222
1980 Total	717,495	558,643	815,067	3,244	2,094,449	NA	2,094,449	488,155	73,732
1985 Total		689,121	836,772	4,147	2,323,974	NA	2,323,974	605,989	87,279
1990 Total		838,263	945,522	4,751	2,712,555	124,529	2,837,084	751,027	91,988
1995 Total		953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,407
1996 Total		980,061	1,033,631	4,923	3,101,127	152,638	3,253,765	887,445	97,539
1997 Total		1,026,626	1,038,197	4,907	3,145,610	156,239	3,301,849	928,633	102,901
1998 Total		1,077,957 1,103,821	1,051,203 1,058,217	4,962 5,126	3,264,231 3,312,087	160,866 171,629	3,425,097 3,483,716	979,401 1,001,996	103,518 106,952
2000 Total		1,159,347	1,064,239	5,382	3,421,414	171,029	3,592,357	1,055,232	100,932
2001 Total		1,190,518	996,609	5,724	3,394,458	162,649	3,557,107	1,083,069	113,174
2002 Total		1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,552
2003 Total		1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029		
2004 Total		1,230,425	1,017,850	7,224	3.547.479	168,470	3.715.949		
2005 Total		1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984		
2006 Total		1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845		
2007 Total	1,392,241	1,336,315	1,027,832	8,173	3,764,561	125,670	3,890,231		
2008 Total	1,379,981	1,335,981	1,009,300	7,700	3,732,962	132,197	3,865,159		
2009 Total	1,364,474	1,307,168	917,442	7,781	3,596,865	126,938	3,723,803		
2010 January		108,120	75,506	715	331,841	E 11,084	342,925		
February		100,747	74,164	689	298,440	E 10,144	308,585		
March		101,756	78,303	656	292,505	E 10,884 E 10.091	303,389		
April		99,791 106.176	78,597 82,088	600	267,034	E 10,091	277,125		
May		119,388	83,347	606 658	283,712 330,889	E 11,037	294,323 341,927		
June July		127,925	85,725	667	369,006	E 11,690	380,696		
August		129,143	87,904	628	371,728	E 12.298	384.026		
September	124,582	119,137	83.353	639	327,711	E 11,221	338.932		
October		108,461	82,046	615	287,811	E 10.605	298,416		
November		101,524	79.575	607	274.871	E 10,520	285,392		
December		108,031	80,264	633	318,943	E 11,725	330,668		
Total		1,330,199	970,873	7,712	3,754,493	131,910	3,886,403		
2011 January		107,884	79,055	710	332,561	E 11,301	343,862		
February	. 120,685	99,368	75,223	633	295,909	E 10,037	305,945		
March		103,507	80,817	655	290,044	E 10,506	300,550		
April		100,019	79,099	618	273,805	E 10,119	283,924		
May	97,755	106,841	80,741	615 627	285,951	E 10,831 E 10,899	296,783		
June		117,460 127,139	82,775 85.907	637 645	326,881 368,580	E 11,899	337,780 380,209		
July August		128,200	87,565	620	370,073	E 11,570	381,643		
September		117,403	83,311	630	324,186	E 10,787	334,973		
October		107,655	82.860	608	285,699	E 10,757	296.055		
November		99,782	79.561	584	273.053	E 10,639	283.692		
December		104,030	78,655	649	299,421	E 11,505	310,926		
Total		1,319,288	975,569	7,606	3,726,163	E 130,179	3,856,342		
2012 January		105,076	78,640	669	310,859	<u>E</u> 11,539	322,398		
February	. 108,145	99,266	77,918	646	285,975	E 10,860	296,835		
March		101,806	80,694	612	282,453	E_10,619	293,072		
April		100,733	80,444	596	270,217	E 9,966	280,183		
May		109,955	84,482	617	295,682	E 10,920	306,601		
June		117,708	83,015	609	324,650	E 11,213	335,862		
6-Month Total	646,351	634,545	485,192	3,749	1,769,836	^E 65,115	1,834,952		
2011 6-Month Total		635,079 635,978	477,710 472,006	3,869 3,924	1,805,151 1,804,423	^E 63,693 ^E 63,851	1,868,843 1.868,274		
2010 6-Month Total									

a Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

^b Commercial sector, including public street and highway lighting, interdepartmental sales, and other sales to public authorities.

^c Industrial sector. Through 2002, excludes agriculture and irrigation; beginning in 2003, includes agriculture and irrigation.

^d Transportation sector, including sales to railroads and railways.

^e The sum of "Residential," "Commercial," "Industrial," and "Transportation."

^f Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.

^g The sum of "Total Retail Sales" and "Direct Use."

h "Commercial (Old)" is a discontinued series—data are for the commercial sector, excluding public street and highway lighting, interdepartmental sales, and other sales to public authorities.

i "Other (Old)" is a discontinued series—data are for public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.

E=Estimate. NA=Not available. — =Not applicable.
Notes: • 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/#electricity for all available data beginning in 1973.

Sources: See end of section.

Electricity

Note. Classification of Power Plants Into Energy-

Use Sectors. The U.S. Energy Information Administration (EIA) classifies power plants (both electricity-only and combined-heat-and-power plants) into energy-use sectors based on the North American Industry Classification System (NAICS), which replaced the Standard Industrial Classification (SIC) system in 1997. Plants with a NAICS code of 22 are assigned to the Electric Power Sector. Those with NAICS codes beginning with 11 (agriculture, forestry, fishing, and hunting); 21 (mining, including oil and gas extraction); 23 (construction); 31-33 (manufacturing); 2212 (natural gas distribution); and 22131 (water supply and irrigation systems) are assigned to the Industrial Sector. Those with all other codes are assigned to the Commercial Sector. Form EIA-860, "Annual Electric Generator Report," asks respondents to indicate the primary purpose of the facility by assigning a NAICS code from the list at

http://www.eia.gov/survey/form/eia_860/instructions_form.doc.

Table 7.1 Sources

Net Generation, Electric Power Sector

Table 7.2b.

Net Generation, Commercial and Industrial Sectors Table 7.2c.

Imports and Exports, Electricity Trade With Canada and Mexico, 1973–1989

1973–September 1977: Unpublished Federal Power Commission data.

October 1977–1980: Unpublished Economic Regulatory Administration (ERA) data.

1981: U.S. Department of Energy (DOE), Office of Energy Emergency Operations, "Report on Electric Energy Exchanges with Canada and Mexico for Calendar Year 1981," April 1982 (revised June 1982).

1982 and 1983: DOE, ERA, *Electricity Exchanges Across International Borders*.

1984–1986: DOE, ERA, Electricity Transactions Across International Borders.

1987 and 1988: DOE, ERA, Form ERA-781R, "Annual Report of International Electrical Export/Import Data."

1989: DOE, Fossil Energy, Form FE-781R, "Annual Report of International Electrical Export/Import Data."

Imports and Exports, Electricity Trade with Canada, 1990 Forward

National Energy Board of Canada, data for total sales (firm and interruptible; which exclude non-revenue, inadvertent, and service) from Canada to the United States, and data for total purchases (which exclude non-revenue, inadvertent, and service) by Canada from the United States.

Imports and Exports, Electricity Trade with Mexico, 1990 Forward

DOE, Office of Electricity Delivery and Energy Reliability, Form OE-781R, "Monthly Electricity Imports and Exports Report," and predecessor form. For 2001 forward, data from the California Independent System Operator are used in combination with the Form OE-781 values to estimate electricity trade with Mexico.

T&D Losses and Unaccounted for

Calculated as the sum of total net generation and imports minus end use and exports.

End Use

Table 7.6.

Table 7.2b Sources

1973–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report."

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report–Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report." 2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.2c Sources

Industrial Sector, Hydroelectric Power, 1973-1988

1973–September 1977: Federal Power Commission (FPC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FPC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants.

October 1977–1978: Federal Energy Regulatory Commission (FERC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FERC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants.

1979: FERC, Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and U.S. Energy Information Administration (EIA) estimates for all other plants.

1980–1988: Estimated by EIA as the average generation over the 6-year period of 1974–1979.

All Data, 1989 Forward

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."

2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.3b Sources

1973–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report."

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report–Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report." 2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.4b Sources

1973–September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report."

October 1977–1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report."

1982–1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report."

1989–1997: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report."

1998–2000: EIA, Form EIA-759, "Monthly Power Plant Report," and Form EIA-860B, "Annual Electric Generator Report–Nonutility."

2001–2003: EIA, Form EIA-906, "Power Plant Report." 2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Table 7.6 Sources

Retail Sales, Residential and Industrial

1973–September 1977: Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenue and Income."

October 1977–February 1980: Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenue and Income."

March 1980–1982: FERC, Form FPC-5, "Electric Utility Company Monthly Statement."

1983: U.S. Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement." 1984–1997: EIA, Form EIA-861, "Annual Electric Utility Report."

1998 forward: EIA, *Electric Power Monthly*, August 2012, Table 5.1.

Retail Sales, Commercial

1973–2002: Estimated by EIA as the sum of "Commercial (Old)" and the non-transportation portion of "Other (Old)." See estimation methodology at

http://www.eia.gov/states/sep_use/notes/use_elec.pdf.

2003 forward: EIA, *Electric Power Monthly*, August 2012, Table 5.1.

Retail Sales, Transportation

1973–2002: Estimated by EIA as the transportation portion of "Other (Old)." See estimation methodology at http://www.eia.gov/states/sep_use/notes/use_elec.pdf.

2003 forward: EIA, *Electric Power Monthly*, August 2012, Table 5.1.

Direct Use, Annual

1989–1996: EIA, Form EIA-867, "Annual Nonutility Power Producer Report."

1997–2010: EIA, Electric Power Annual 2010, November 2011, Table 7.2.

2011: Sum of monthly estimates.

Direct Use, Monthly

Annual shares are calculated as annual direct use divided by annual commercial and industrial net generation (on Table 7.1). Then monthly direct use estimates are calculated as the annual share multiplied by the monthly commercial and industrial net generation values. For 2011 and 2012, the 2010 annual share is used.

Discontinued Retail Sales Series Commercial (Old) and Other (Old)

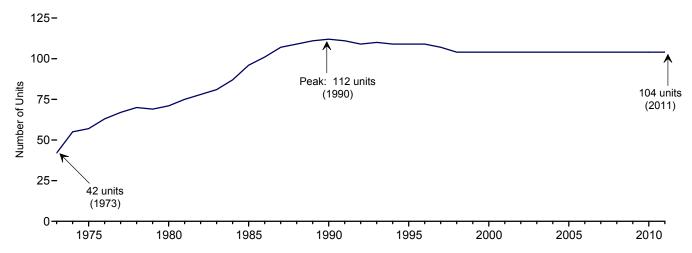
1973–2002: See sources for "Residential" and "Industrial."

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8. Nuclear Energy

Figure 8.1 Nuclear Energy Overview

Operable Units, End of Year, 1973-2011



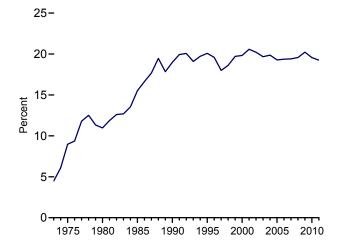
Electricity Net Generation, 1973-2011

5
4
Total

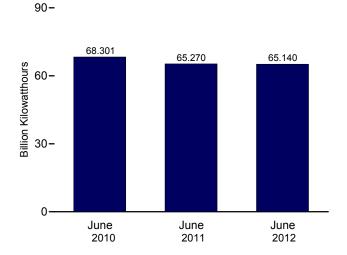
4
Nuclear Electric Power

1975 1980 1985 1990 1995 2000 2005 2010

Nuclear Share of Electricity Net Generation, 1973-2011



Nuclear Electricity Net Generation



Web Page: http://www.eia.gov/totalenergy/data/monthly/#nuclear. Sources: Tables 7.2a and 8.1.

Capacity Factor, Monthly

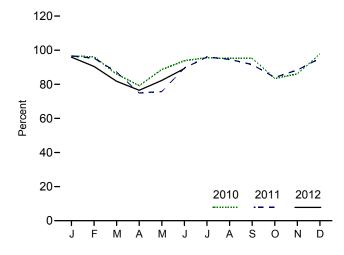


Table 8.1 Nuclear Energy Overview

	Total Operable Units ^{a,b}	Net Summer Capacity of Operable Units ^{b,c}	Nuclear Electricity Net Generation	Nuclear Share of Electricity Net Generation	Capacity Factor
	Number	Million Kilowatts	Million Kilowatthours	Pe	rcent
973 Total	42	22.683	83,479	4.5	53.5
75 Total	57	37.267	172,505	9.0	55.9
80 Total	71	51.810	251,116	11.0	56.3
85 Total	96	79.397	383,691	15.5	58.0
00 Total	112	99.624	576.862	19.0	66.0
5 Total	109	99.515	673.402	20.1	77.4
	109	100.784	674,729	19.6	76.2
96 Total	109			18.0	76.2 71.1
97 Total		99.716	628,644		
98 Total	104	97.070	673,702	18.6	78.2
9 Total	104	97.411	728,254	19.7	85.3
0 Total	104	97.860	753,893	19.8	88.1
01 Total	104	98.159	768,826	20.6	89.4
12 Total	104	98.657	780,064	20.2	90.3
3 Total	104	99.209	763,733	19.7	87.9
4 Total	104	99.628	788,528	19.9	90.1
05 Total	104	99.988	781,986	19.3	89.3
06 Total	104	100.334	787,219	19.4	89.6
07 Total	104	100.266	806,425	19.4	91.8
08 Total	104	100.755	806,208	19.6	91.1
09 Total	104	101.004	798,855	20.2	90.3
10 January	104	e E 101.002	72,569	20.1	E 96.6
February	104	E 101.000	65,245	20.4	^E 96.1
March	104	E 100.998	64,635	20.7	E 86.0
April	104	E 100.996	57,611	20.0	E 79.2
May	104	E 101.063	66.658	20.3	E 88.7
June	104	E 101.094	68,301	18.2	E 93.8
July	104	E 101.092	71,913	17.6	E 95.6
August	104	E 101.090	71,574	17.5	E 95.2
September	104	E 101.088	69,371	20.0	E 95.3
October	104	E 101.104	62,751	20.4	E 83.4
November	104	E 101.129	62,655	20.5	E 86.0
December	104	101.129	73.683	20.3	97.9
Total	104	101.167	806,968	19.6	91.1
11 January	104	E 101.167	72,743	20.0	E 96.6
February	104	^E 101.167	64,789	20.7	E 95.3
March	104	^E 101.167	65,662	20.6	E 87.2
April	104	^E 101.167	54,547	18.0	E 74.9
May	104	E 101.167	57,017	17.6	E 75.8
June	104	E 101.281	65,270	17.7	E 89.5
July	104	E 101.281	72,345	17.2	E 96.0
August	104	E 101.351	71.339	17.6	E 94.6
September	104	E 101.351	66,849	19.8	E 91.6
October	104	E 101.351	63,354	20.5	E 84.0
November	104	E 101.351	64.474	21.2	E 88.4
December	104	P 101.423	71,837	21.4	P 95.2
Total	1 04	P 101.423	790,225	19.2	P 89.1
12 January	104	E 101.423	72,382	21.2	E 95.9
February	104	E 101.423	63,850	20.6	E 90.5
March	104	E 101.423	61,730	19.9	E 81.8
	104	E 101.423	55,871	18.9	E 76.5
April	104	E 101.423		18.4	E 82.3
May			62,081		
June	104	E 101.446	65,140	18.0	E 89.2
6-Month Total	104	^E 101.446	381,055	19.5	^E 86.0
I1 6-Month Total I0 6-Month Total	104 104	^E 101.281 ^E 101.094	380,028 395,020	19.1 19.9	^E 86.5 ^E 90.0

^a Total of nuclear generating units holding full-power licenses, or equivalent permission to operate, at end of period. See Note 1, "Operable Nuclear Reactors," at end of section. For additional information on nuclear generating units, see Annual Energy Review 2010, October 2011, Table 9.1, Annual Energy Review 2010, Octobe http://www.eia.gov/totalenergy/data/annual/#nuclear.

difference between the resulting year-end capacity (from data reported on Form $\hbox{EIA-860M})$ and final capacity (reported on Form EIA-860) is distributed evenly across the 12 months.

Notes: • For a discussion of nuclear reactor unit coverage, see Note 1, "Operable Nuclear Reactors," at end of section. • Nuclear electricity net generation 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/#nuclear for all available data beginning in 1973.

Sources: See end of section.

At end of period.

^c For the definition of "Net Summer Capacity," see Note 2, "Nuclear Capacity,"

at end of section.

d For an explanation of the method of calculating the capacity factor, see Note 2, "Nuclear Capacity," at end of section.

Beginning in 2010, monthly capacity values are estimated in two steps: 1) uprates reported on Form EIA-860M are added to specific months; and 2) the

P=Preliminary. E=Estimate.

Nuclear Energy

- **Note 1. Operable Nuclear Reactors.** A reactor is generally defined as operable while it possessed a full-power license from the Nuclear Regulatory Commission or its predecessor the Atomic Energy Commission, or equivalent permission to operate, at the end of the year or month shown. The definition is liberal in that it does not exclude units retaining full-power licenses during long, non-routine shutdowns that for a time rendered them unable to generate electricity. Examples are:
- (a) In 1985 the five then-active Tennessee Valley Authority (TVA) units (Browns Ferry 1, 2, and 3, and Sequoyah 1 and 2) were shut down under a regulatory forced outage. All five units were idle for several years, restarting in 2007, 1991, 1995, 1988, and 1988, respectively and were counted as operable during the shutdowns.
- (b) Shippingport was shut down from 1974 through 1976 for conversion to a light-water breeder reactor, but is counted as operable from 1957 until its retirement in 1982.
- (c) Calvert Cliffs 2 was shut down in 1989 and 1990 for replacement of pressurizer heater sleeves but is counted as operable during those years.

Exceptions to the definition are Shoreham and Three Mile Island 2. Shoreham was granted a full-power license in April 1989, but was shut down two months later and never restarted. In 1991, the license was changed to Possession Only. Although not operable at the end of the year, Shoreham is counted as operable during 1989. A major accident closed Three Mile Island 2 in 1979, and although the unit retained its full-power license for several years, it is considered permanently shut down since that year.

- **Note 2. Nuclear Capacity.** Nuclear generating units may have more than one type of net capacity rating, including the following:
- (a) Net Summer Capacity—The steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power, as demonstrated by test at the

time of summer peak demand. Auxiliary power of a typical nuclear power plant is about 5 percent of gross generation.

(b) Net Design Capacity or Net Design Electrical Rating (DER)—The nominal net electrical output of a unit, specified by the utility and used for plant design.

The monthly capacity factors are calculated as the monthly nuclear electricity net generation divided by the maximum possible nuclear electricity net generation for that month. The maximum possible nuclear electricity net generation is the number of hours in the month (assuming 24-hour days, with no adjustment for changes to or from Daylight Savings Time) multiplied by the net summer capacity of operable nuclear generating units at the end of the month. That fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are calculated as the annual nuclear electricity net generation divided by the annual maximum possible nuclear electricity net generation (the sum of the monthly values for maximum possible nuclear electricity net generation).

Table 8.1 Sources

Total Operable Units and Net Summer Capacity of Operable Units

1973-1982: Compiled from various sources, primarily U.S. Department of Energy, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones."

1983 forward: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," Form EIA-860M, "Monthly Update to the Annual Electric Generator Report," and monthly updates as appropriate. For a list of currently operable units, see http://www.eia.gov/nuclear/reactors/stats table1.html.

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation

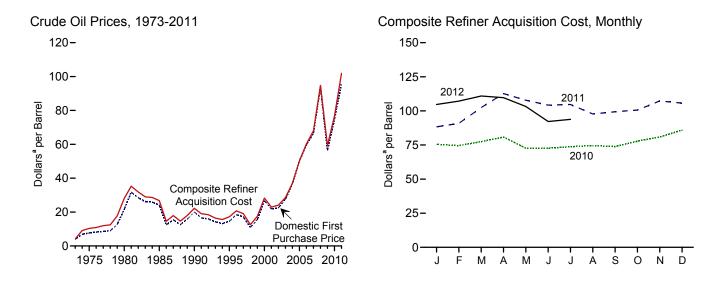
See Table 7.2a.

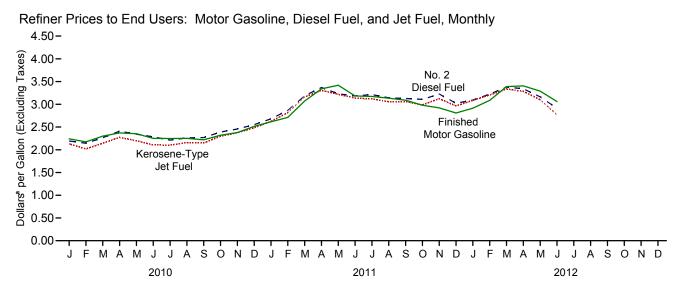
Capacity Factor

Calculated by EIA using the method described above in Note 2.

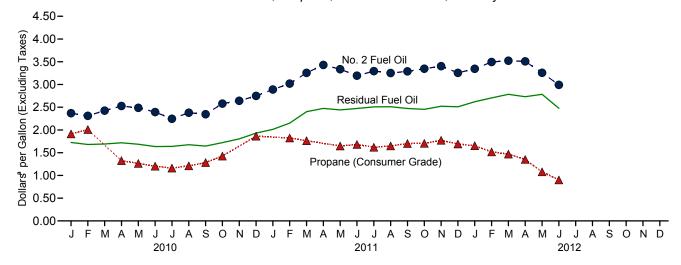
9. Energy Prices

Figure 9.1 Petroleum Prices









^aPrices are not adjusted for inflation. See "Nominal Dollars" in Glossary. Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Dollars^a per Barrel)

				R	efiner Acquisition Co	st ^b
	Domestic First Purchase Price ^c	F.O.B. Cost of Imports ^d	Landed Cost of Imports ^e	Domestic	Imported	Composite
1973 Average	3.89	^f 5.21	^f 6.41	^E 4.17	^E 4.08	^E 4.15
ū	7.67	11.18	12.70	8.39	13.93	10.38
1975 Average	21.59	32.37	33.67		33.89	28.07
1980 Average				24.23		
1985 Average	24.09	25.84	26.67	26.66	26.99	26.75
1990 Average	20.03	20.37	21.13	22.59	21.76	22.22
1995 Average	14.62	15.69	16.78	17.33	17.14	17.23
1996 Average	18.46	19.32	20.31	20.77	20.64	20.71
1997 Average	17.23	16.94	18.11	19.61	18.53	19.04
1998 Average	10.87	10.76	11.84	13.18	12.04	12.52
1999 Average	15.56	16.47	17.23	17.90	17.26	17.51
2000 Average	26.72	26.27	27.53	29.11	27.70	28.26
2001 Average	21.84	20.46	21.82	24.33	22.00	22.95
2002 Average	22,51	22.63	23.91	24.65	23.71	24.10
2002 Average	27.56	25.86	27.69	29.82	27.71	28.53
2004 Average	36.77	33.75	36.07	38.97	35.90	36.98
2005 Average	50.28	47.60	49.29	52.94	48.86	50.24
2006 Average	59.69	57.03	59.11	62.62	59.02	60.24
2007 Average	66.52	66.36	67.97	69.65	67.04	67.94
2008 Average	94.04	90.32	93.33	98.47	92.77	94.74
2009 Average	56.35	57.78	60.23	59.49	59.17	59.29
2010 January	72.89	72.96	74.78	76.04	75.07	75.48
February	72.74	71.50	75.01	75.91	73.73	74.58
March	75.77	75.41	77.65	78.52	76.77	77.43
April	78.80	78.27	79.34	82.12	80.03	80.83
May	70.90	69.21	72.00	75.23	71.15	72.66
June	70.77	70.17	72.62	73.93	71.91	72.66
July	71.37	71.01	73.43	74.54	73.25	73.73
August	72.07	71.27	73.63	76.21	73.50	74.58
September	71.23	71.72	74.25	74.87	73.20	73.85
October	76.02	75.52	77.26	78.88	77.02	77.77
November	79.20	79.56	81.56	82.05	80.07	80.85
December	83.98	83.95	86.64	86.48	85.59	85.95
Average	74.71	74.20	76.49	77.96	75.88	76.69
2011 January	85.66	86.80	89.61	88.73	87.99	88.28
February	86.69	92.07	94.25	89.50	91.72	90.85
March	99.19	104.19	104.80	102.34	102.48	102.43
April	108.80	111.52	112.54	111.96	113.08	112.65
May	102.46	105.92	108.28	107.55	107.99	107.82
	97.30					
June		104.35	105.19	102.53	105.36	104.23
July	97.82	105.60	106.19	102.67	105.94	104.68
August	89.00	97.72	99.27	95.89	99.01	97.70
September	90.22	100.84	101.03	96.89	101.05	99.39
October	92.28	101.92	102.55	98.34	102.00	100.57
November	100.18	105.79	105.98	106.69	107.67	107.28
December	98.71	103.09	105.62	104.51	106.52	105.69
Average	95.73	101.68	102.99	100.74	102.70	101.93
2012 January	98.99	103.96	105.27	103.97	105.25	104.70
February	102.05	108.56	109.24	105.93	108.08	107.18
March	105.42	110.72	110.68	110.80	111.00	110.92
April	103.62	^R 107.17	^R 107.58	111.26	108.53	109.70
May	95.57	R 101.11	R 101.86	103.17	103.26	103.23
June	R 83.59	R 89.14	R 90.67	^R 91.66	R 92.59	R 92.19
July	NA	NA	NA	E 93.11	E 94.26	E 93.80

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

Flased on October, November, and December data only.

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

Notes: • Values for Domestic First Purchase Price and Refiner Acquisition Cost for the current two months and for F.O.B. and Landed Costs of Imports for the

current three months are preliminary. • F.O.B. and landed costs through 1980

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.

Sources: See end of section.

a Prices are not adjusted for inflation. See Norminal Dunials in Subsery.

b See Note 1, "Crude Oil Refinery Acquisition Costs," at end of section.

c See Note 2, "Crude Oil Domestic First Purchase Prices," at end of section.

d See Note 3, "Crude Oil E.O.B. Costs," at end of section.

e See Note 4, "Crude Oil Landed Costs," at end of section.

<sup>e F.O.B. and landed costs through 1980
e felect the period of reporting; prices since then reflect the period of loading.
Annual averages are the averages of the monthly prices, weighted by volume.
Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all U.S. Territories and Possessions.</sup>

Table 9.2 F.O.B. Costs of Crude Oil Imports From Selected Countries

(Dollarsa per Barrel)

1973 Average ^d 1975 Average 1980 Average 1985 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 1999 Average 2001 Average 2001 Average 2002 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 Average 2009 Average 2009 Average 2009 Average 2008 Average 2009 Average 2009 Average	Angola W 10.97	Colombia	Mexico	Nigeria	Saudi Arabia	United		Persian Gulf	Total	Total
1975 Average 1980 Average 1985 Average 1995 Average 1995 Average 1996 Average 1997 Average 1998 Average 1998 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 Average 2009 Average					Alabia	Kingdom	Venezuela	Nations ^b	OPEC ^c	Non-OPEC
1975 Average 1980 Average 1985 Average 1995 Average 1995 Average 1997 Average 1997 Average 1998 Average 2000 Average 2001 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 Average 2009 Average	10.07	W	_	7.81	3.25	_	5.39	3.68	5.43	4.80
1980 Average 1985 Average 1990 Average 1995 Average 1995 Average 1997 Average 1998 Average 1998 Average 2000 Average 2001 Average 2002 Average 2004 Average 2005 Average 2006 Average 2006 Average 2007 Average 2007 Average 2008 Average 2009 Average		_	11.44	11.82	10.87	_	11.04	10.88	11.34	10.62
1985 Average 1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2005 Average 2006 Average 2007 Average 2007 Average	33.45	W	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 Average 2009 Average	26.30	_	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
1995 Average 1996 Average 1997 Average 1998 Average 1998 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 Average 2008 Average 2009 Average	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
1996 Average 1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2003 Average 2004 Average 2005 Average 2006 Average 2006 Average 2007 Average 2007 Average	16.58	16.73	15.64	17.40	W	16.94	13.86	W	15.36	16.02
1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 Average 2009 Average	20.71	21.33	19.14	21.27	19.28	19.43	17.73	19.22	18.94	19.65
1999 Average 2001 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2009 Average	18.81	18.85	16.72	19.43	15.16	18.59	15.33	15.24	16.26	17.51
1999 Average 2001 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2009 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
2001 Average	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
2002 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
2002 Average	23.25	24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 Average	24.09	24.64	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
2004 Average	28.22	28.89	24.83	29.40	25.03	28.76	23.81	25.17	25.36	26.21
2006 Average 2007 Average 2008 Average 2009 Average	37.26	37.73	31.55	38.71	34.08	37.30	31.78	33.08	33.95	33.58
2007 Average 2008 Average 2009 Average	52.48	51.89	43.00	55.95	47.96	54.48	46.39	47.21	49.60	45.79
2008 Average 2009 Average	62.23	59.77	52.91	65.69	56.09	66.03	55.80	56.02	59.18	55.35
2009 Average	67.80	67.93	61.35	76.64	W	69.96	64.10	69.93	69.58	62.69
_	95.66	91.17	84.61	102.06	93.03	96.33	88.06	91.44	93.15	87.15
2010 January	57.07	57.90	56.47	64.61	57.87	65.63	55.58	59.53	58.53	57.16
	74.62	70.08	72.96	75.91	W	_	70.86	W	73.42	72.49
February	W	68.70	69.16	76.07	W	_	68.83	71.89	71.77	71.14
March	78.11	73.90	72.76	81.27	W	_	70.88	76.10	75.83	74.91
April	84.40	74.85	75.57	85.94	W	W	72.59	80.01	78.88	77.73
May	71.86	64.32	68.30	74.28	W	_	66.37	73.60	70.45	68.24
June	72.90	67.19	67.64	75.61	W	-	66.19	72.49	71.39	69.20
July	74.77	70.00	68.53	79.63	W	_	67.25	71.76	72.16	69.87
August	77.11	69.88	69.53	75.70	W	W	68.27	72.79	72.38	70.35
September	W	69.71	69.90	80.93	74.06	-	67.59	73.34	73.24	70.24
October	W	76.06	73.93	84.59	W	_	72.10	78.28	77.55	73.80
November	85.99	78.92	77.14	86.61	W	_	75.03	80.99	80.95	78.49
December	_W_	81.62	81.75	93.68	_W		77.78	_W_	85.72	82.40
Average	78.18	72.56	72.46	80.83	76.44	W	70.30	75.65	75.23	73.24
2011 January	95.97	83.36	84.36	99.86	W	_	81.25	W	89.74	83.92
February	W	87.23	88.77	109.07	W	_	85.11	97.25	96.01	88.67
March	113.63	101.29	102.55	117.98	W	-	97.56	107.36	106.19	102.44
April	122.52	114.17	109.90	126.05	W	-	106.56	114.82	115.15	107.71
May	113.33	106.15	105.13	117.66	W	_	101.60	110.29	108.50	103.81
June	115.13	102.78	103.43	119.13	W	_	100.59	106.39	108.22	100.42
July	114.80	100.30	104.84	119.68	W	_	100.62	109.06	110.09	100.90
August	W	95.01	98.21	115.61	W	_	97.17	106.98	104.19	93.57
September	112.49	97.45	100.28	115.43	109.99	_	95.72	108.41	105.82	97.08
October	109.74	102.37	101.48	114.46	W	-	96.93	105.62	105.20	98.65
November	112.49	106.97	107.94	115.35	W	-	105.44	106.51	108.16	104.17
December Average	111.26 111.82	103.10 100.19	105.96 100.92	W 115.35	W 107.08	_	105.75 97.23	104.48 106.49	106.42 105.34	100.80 98.51
2012 January	111.10	106.69	107.79	114.12	W	_	105.08	107.51	107.51	101.40
February	404 45	444 47	440.44							
March	121.45	114.47	110.14	124.31	W	_	110.37	111.12	113.85	103.42
April	W	118.46	114.81	128.10	W	_	112.76	118.06	117.06	104.75
May June										

Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

Notes: • The Free on Board (F.O.B.) cost at the country of origin excludes all Notes: • The Free on Board (F.O.B.) cost at the country of origin excludes all costs related to insurance and transportation. See "F.O.B." in Glossary, and Note 3, "Crude Oil F.O.B. Costs," at end of section. • Values for the current two months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported. • ILS geographic data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all

See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.

Sources: See end of section

b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

C See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973–2008, also includes Indonesia; for 1973–1992 and again beginning in 2008, also include Seudek, (Although Equators, Irange and Irange). also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974–1995, also includes Gabon (although Gabon was a member of OPEC for only 1975–1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total Non-OPEC." are included in "Total Non-OPEC."

^d Based on October, November, and December data only

R=Revised. - =No data reported. W=Value withheld to avoid disclosure of individual company data.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollarsa per Barrel)

1973 Average ^d W 5.33 W - 9.08 5.37 - 9.08 1975 Average 11.81 12.84 - 12.61 12.70 12.50 - 12.00 1980 Average 34.76 30.11 W 31.77 37.15 29.80 35.68 29.00 1985 Average 27.39 25.71 - 25.63 28.96 24.72 28.36 29.00 1990 Average 21.51 20.48 22.34 19.64 23.33 21.82 22.65 20.00 1995 Average 17.66 16.65 17.45 16.19 18.25 16.84 17.91 14.00 1996 Average 21.86 19.94 22.02 19.64 21.95 20.49 20.88 18.00 1997 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 16.00 1998 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 10.00	Persiar Gulf Nations 5.99 5.91 2.36 12.64 5.92 30.59 4.43 25.50 0.31 20.55 4.81 16.78 8.59 20.45	6.85 12.70 33.56 26.86 21.23	Total Non-OPEC ^c 5.64 12.70 33.99 26.53
1973 Averaged	5.99 5.91 2.36 12.64 5.92 30.59 4.43 25.50 0.31 20.55 4.81 16.78 8.59 20.45	6.85 12.70 33.56 26.86 21.23	5.64 12.70 33.99
1975 Average 11.81 12.84 - 12.61 12.70 12.50 - 12.70 1980 Average 34.76 30.11 W 31.77 37.15 29.80 35.68 29.80 1985 Average 27.39 25.71 - 25.63 28.96 24.72 28.36 24.72 1990 Average 21.51 20.48 22.34 19.64 23.33 21.82 22.65 22.65 1995 Average 17.66 16.65 17.45 16.19 18.25 16.84 17.91 14.19 1996 Average 21.86 19.94 22.02 19.64 21.95 20.49 20.88 18.19 1997 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 16.19 1998 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 16	2.36 12.64 5.92 30.59 4.43 25.50 0.31 20.55 4.81 16.78 8.59 20.45	12.70 33.56 26.86 21.23	12.70 33.99
1975 Average 11.81 12.84 - 12.61 12.70 12.50 - 12.980 1980 Average 34.76 30.11 W 31.77 37.15 29.80 35.68 29.80 1985 Average 27.39 25.71 - 25.63 28.96 24.72 28.36 24.72 1990 Average 21.51 20.48 22.34 19.64 23.33 21.82 22.65 22.65 1995 Average 17.66 16.65 17.45 16.19 18.25 16.84 17.91 14. 1996 Average 21.86 19.94 22.02 19.64 21.95 20.49 20.88 18 1997 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 16 1998 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 16	2.36 12.64 5.92 30.59 4.43 25.50 0.31 20.55 4.81 16.78 8.59 20.45	12.70 33.56 26.86 21.23	12.70 33.99
1980 Average 34,76 30.11 W 31.77 37.15 29.80 35.68 22 1985 Average 27.39 25.71 - 25.63 28.96 24.72 28.36 24 1990 Average 21.51 20.48 22.34 19.64 23.33 21.82 22.65 22 1995 Average 17.66 16.65 17.45 16.19 18.25 16.84 17.91 14 1996 Average 21.86 19.94 22.02 19.64 21.95 20.49 20.88 16 1997 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 16 1998 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 10	5.92 30.59 4.43 25.50 0.31 20.55 4.81 16.78 8.59 20.45	33.56 26.86 21.23	33.99
1985 Average 27.39 25.71 - 25.63 28.96 24.72 28.36 24.79 1990 Average 21.51 20.48 22.34 19.64 23.33 21.82 22.65 20.72 1995 Average 17.66 16.65 17.45 16.19 18.25 16.84 17.91 14.996 1996 Average 21.86 19.94 22.02 19.64 21.95 20.49 20.88 18 1997 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 11 1998 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 11	4.43 25.50 0.31 20.55 4.81 16.78 8.59 20.45	26.86 21.23	
1990 Average 21.51 20.48 22.34 19.64 23.33 21.82 22.65 20 1995 Average 17.66 16.65 17.45 16.19 18.25 16.84 17.91 14 1996 Average 21.86 19.94 22.02 19.64 21.95 20.49 20.88 18 1997 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 16 1998 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 10	0.31 20.55 4.81 16.78 8.59 20.45		
1995 Average 17.66 16.65 17.45 16.19 18.25 16.84 17.91 14 1996 Average 21.86 19.94 22.02 19.64 21.95 20.49 20.88 18 1997 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 16 1998 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 10	8.59 20.45	46.64	20.98
1997 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 16 1998 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 10		16.61	16.95
1998 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 10	COF 47.44	20.14	20.47
	6.35 17.44	17.73	18.45
	0.16 11.18	11.46	12.22
	5.58 17.37	16.94	17.51
	6.05 26.77	27.29	27.80
	9.81 20.73	21.52	22.17
	1.93 24.13	23.83	23.97
	5.70 27.54 3.79 36.53	27.70 36.84	27.68 35.29
	7.87 49.68	36.84 51.36	35.29 47.31
	7.37 58.92	61.21	57.14
	6.13 69.83	71.14	63.96
	0.76 93.59	95.49	90.59
	7.78 62.15	61.90	58.58
2010 January	2.63 76.34	75.91	73.59
	0.91 77.27	76.24	73.33
	2.92 77.55	78.40	76.84
	5.21 79.15	80.07	78.61
	8.53 76.20	73.95	70.20
	8.30 75.14	74.55	70.92
	9.59 74.75	74.81	72.03
August	0.14 75.81	75.42	71.81
	8.88 76.64	76.39	71.89
	4.29 81.24	80.52	74.15
	7.53 84.09	84.38	78.96
	0.79 89.99	89.25	83.97
Average	2.43 78.58	78.27	74.67
	4.70 96.57	94.03	85.02
	9.88 101.81	99.96	89.03
	1.22 109.56	109.23	101.20
	7.95 115.18	116.64	108.91
	4.04 111.48	111.90	105.06
	2.32 108.97 3.04 110.19	109.87 111.58	100.83 100.38
	9.54 108.26	106.24	93.81
	9.10 108.82	107.67	95.59
	9.89 108.07	107.98	97.91
	6.90 108.35	110.09	102.90
	8.02 107.53	109.63	102.52
	0.14 108.06	107.85	98.75
2012 January	6.23 110.61	110.32	101.31
	1.72 114.22	115.76	103.02
March	4.29 117.14	118.26	103.98
April	0.58 R 115.98	R 116.21	R 99.94
May		R 109.14	R 95.36
June 102.58 78.58 93.92 91.38 W 98.97 – 90	0.62 98.68	96.45	86.91

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 ^c See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973–2008, also includes Indonesia; for 1973–1992 and again beginning in 2008, also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974–1995, also includes Gabon (although Gabon was a member of OPEC for only 1975–1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC."
 ^d Based on October, November, and December data only.
 R=Revised. — =No data reported. W=Value withheld to avoid disclosure of

R=Revised. - =No data reported. W=Value withheld to avoid disclosure of individual company data.

Notes: • See "Landed Costs" in Glossary, and Note 4, "Crude Oil Landed

Costs," at end of section. • Values for the current two months are preliminary.
• Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation

into the United States, are not included in the published data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.

available data beginning in 1973.

Sources: • October 1973-September 1977: Federal Energy Administration,
Form FEA-F701-M-0, "Transfer Pricing Report." • October 1977-December 1977:
U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 22.

^{• 2010} forward: EIA, Petroleum Marketing Monthly, September 2012, Table 22.

Table 9.4 Motor Gasoline Retail Prices, U.S. City Average

	Leaded Regular	Unleaded Regular	Unleaded Premium ^b	All Types ^c
973 Average	0.388	NA	NA	NA
•	0.567	NA NA	NA NA	NA NA
75 Average	1.191	1.245	NA NA	1.221
80 Average				
85 Average	1.115	1.202	1.340	1.196
90 Average	1.149	1.164	1.349	1.217
95 Average	NA	1.147	1.336	1.205
96 Average	NA	1.231	1.413	1.288
97 Average	NA	1.234	1.416	1.291
98 Average	NA	1.059	1.250	1.115
99 Average	NA	1.165	1.357	1.221
000 Average	NA	1.510	1.693	1.563
01 Average	NA	1.461	1.657	1.531
02 Average	NA	1.358	1.556	1.441
03 Average	NA	1.591	1.777	1.638
04 Average	NA	1.880	2.068	1.923
05 Average	NA NA	2.295	2.491	2.338
	NA NA	2.589	2.805	2.635
006 Average				
007 Average	NA	2.801	3.033	2.849
008 Average	NA	3.266	3.519	3.317
009 Average	NA	2.350	2.607	2.401
110 January	NA	2.731	2.987	2.779
February	NA	2.659	2.922	2.709
March	NA	2.780	3.035	2.829
April	NA	2.858	3.113	2.906
May	NA	2.869	3.124	2.915
June	NA	2.736	3.000	2.783
July	NA	2.736	2.997	2.783
August	NA	2.745	3.015	2.795
September	NA	2.704	2.968	2.754
October	NA	2.795	3.055	2.843
	NA NA			2.899
November		2.852	3.109	
December	NA	2.985	3.234	3.031
Average	NA	2.788	3.047	2.836
11 January	NA	3.091	3.345	3.139
February	NA	3.167	3.424	3.215
March	NA	3.546	3.807	3.594
April	NA	3.816	4.074	3.863
May	NA	3.933	4.192	3.982
June	NA	3.702	3.972	3.753
July	NA	3.654	3.915	3.703
August	NA	3.630	3.893	3.680
September	NA	3.612	3.887	3.664
October	NA	3.468	3.745	3.521
November	NA NA	3.423	3.700	3.475
December	NA NA	3.423	3.553	3.329
Average	NA NA	3.527	3.792	3.577
012 January	NA	3.399	3.663	3.447
	NA NA	3.572	3.840	3.622
February				
March	NA	3.868	4.138	3.918
April	NA	3.927	4.194	3.976
May	NA	3.792	4.062	3.839
June	NA	3.552	3.825	3.602
July	NA	3.451	3.726	3.502
August	NA	3.707	3.991	3.759

NA=Not available.

Notes: • See Note 5, "Motor Gasoline Prices," at end of section. • In September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. From September 1981 forward, gasohol is included in the average for all types, and unleaded premium is weighted

more heavily. • Geographic coverage for 1973-1977 is 56 urban areas. Geographic coverage for 1978 forward is 85 urban areas.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all

available data beginning in 1973.

Sources: • Monthly Data: U.S. Department of Labor, Bureau of Labor Statistics, Consumer Prices: Energy. • Annual Data: 1973—Platt's Oil Price Handbook and Oilmanac, 1974, 51st Edition. 1974 forward—calculated by the U.S. Energy Information Administration as the simple averages of monthly data.

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 b The 1981 average (available in Web file) is based on September through December data only.

^c Also includes types of motor gasoline not shown separately.

Table 9.5 Refiner Prices of Residual Fuel Oil

	Sulfur Co	al Fuel Oil ontent Less al to 1 Percent	Sulfur	al Fuel Oil Content an 1 Percent	Ave	Average		
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users		
978 Average	0.293	0.314	0.245	0.275	0,263	0.298		
080 Average	0.608	0.675	0.479	0.523	0.528	0.607		
85 Average	0.610	0.644	0.560	0.582	0.577	0.610		
90 Average	0.472	0.505	0.372	0.400	0.413	0.444		
95 Average	0.383	0.436	0.338	0.377	0.363	0.392		
96 Average	0.456	0.526	0.389	0.433	0.420	0.455		
97 Average	0.415	0.488	0.366	0.403	0.387	0.423		
98 Average	0.299	0.354	0.269	0.287	0.280	0.305		
99 Average	0.382	0.405	0.329	0.362	0.354	0.374		
00 Average	0.627	0.708	0.512	0.566	0.566	0.602		
01 Average	0.523	0.642	0.428	0.492	0.476	0.531		
02 Average	0.546	0.640	0.508	0.544	0.530	0.569		
03 Average	0.728	0.804	0.588	0.651	0.661	0.698		
004 Average	0.764	0.835	0.601	0.692	0.681	0.739		
005 Average	1.115	1.168	0.842	0.974	0.971	1.048		
006 Average	1.202	1.342	1.085	1.173	1.136	1.218		
007 Average	1.406	1.436	1.314	1.350	1.350	1.374		
008 Average	1.918	2.144	1.843	1.889	1.866	1.964		
009 Average	1.337	1.413	1.344	1.306	1.342	1.341		
10 January	1.767	1.852	1.705	1.660	1.721	1.725		
February	1.725	1.862	1.650	1.574	1.666	1.681		
March	1.739	1.862	1.700	1.609	1.711	1.692		
April	1.827	1.887	1.725	1.655	1.748	1.718		
May	1.675	1.898	1.675	1.601	1.675	1.686		
June	1.629	1.874	1.604	1.555	1.612	1.636		
July	1.686	1.858	1.604	1.536	1.629	1.639		
August	1.705	1.895	1.625	1.571	1.642	1.676		
September	1.716	1.883	1.612	1.558	1.632	1.645		
October	1.793	1.913	1.688	1.637	1.712	1.721		
November	1.865	2.025	1.741	1.701	1.768	1.804		
December	2.036	2.215	1.814	1.784	1.865	1.931		
Average	1.756	1.920	1.679	1.619	1.697	1.713		
011 January	NA	2.302	1.896	1.870	1.918	2.013		
February	2.100	2.451	2.079	2.019	2.086	2.150		
March	2.344	2.654	2.307	2.245	2.321	2.403		
April	2.555	2.741	2.427	2.370	2.448	2.475		
May	2.463	2.786	2.374	2.325	2.392	2.440		
June	2.467	2.905	2.377	2.312	2.402	2.473		
July	2.547	2.877	2.430	2.362	2.474	2.508		
August	2.394	2.896	2.392	2.342	2.392	2.512		
September	2.368	2.882	2.370	2.318	2.369	2.473		
October	2.512	2.891	2.375	2.276	2.406	2.454		
November	2.566	2.853	2.424	2.368	2.459	2.521		
December Average	2.473 2.389	2.891 2.736	2.335 2.316	2.348 2.257	2.371 2.336	2.509 2.401		
12 January	2.591	2.965	2.480	2.452	2.512	2.620		
February	2.739	3.070	2.632	2.556	2.654	2.705		
March	2.921	3.159	2.717	2.601	2.772	2.784		
April	2.805	3.201	2.624	2.596	2.670	2.731		
May	2.589	3.170	R 2.501	2.652	R 2.527	2.784		
June	2.275	3.083	2.185	2.179	2.210	2.476		

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. R=Revised. NA=Not available.

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and commercial consumers. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note

^{6, &}quot;Historical Petroleum Prices," at end of section. • Geographic coverage is the

⁵⁰ States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 16. • 2010 forward: EIA, Petroleum Marketing Monthly, September 2012, Table 16.

Table 9.6 Refiner Prices of Petroleum Products for Resale

	Finished Motor Gasoline ^b	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
978 Average	0.434	0.537	0.386	0.404	0.369	0.365	0.237
980 Average	0.941	1.128	0.868	0.864	0.803	0.801	0.415
985 Average	0.835	1.130	0.794	0.874	0.776	0.772	0.398
990 Average	0.786	1.063	0.773	0.839	0.697	0.694	0.386
995 Average	0.626	0.975	0.539	0.580	0.511	0.538	0.344
996 Average	0.713	1.055	0.646	0.714	0.639	0.659	0.461
997 Average	0.700	1.065	0.613	0.653	0.590	0.606	0.416
998 Average	0.526	0.912	0.450	0.465	0.422	0.444	0.288
999 Average	0.645	1.007	0.533	0.550	0.493	0.546	0.342
	0.963	1.330	0.880	0.969	0.495	0.898	0.595
000 Average							
001 Average	0.886	1.256	0.763	0.821	0.756	0.784	0.540
002 Average	0.828	1.146	0.716	0.752	0.694	0.724	0.431
003 Average	1.002	1.288	0.871	0.955	0.881	0.883	0.607
004 Average	1.288	1.627	1.208	1.271	1.125	1.187	0.751
005 Average	1.670	2.076	1.723	1.757	1.623	1.737	0.933
006 Average	1.969	2.490	1.961	2.007	1.834	2.012	1.031
007 Average	2.182	2.758	2.171	2.249	2.072	2.203	1.194
008 Average	2.586	3.342	3.020	2.851	2.745	2.994	1.437
009 Average	1.767	2.480	1.719	1.844	1.657	1.713	0.921
10 January	2.097	2.759	2.121	2.282	2.075	2.078	1.332
February	2.033	2.662	1.999	2.216	1.986	2.025	1.324
March	2.197	2.906	2.129	2.219	2.100	2.163	1.179
April	2.265	2.999	2.247	2.281	2.214	2.312	1.144
May	2.152	2.945	2.186	2.110	2.129	2.177	1.098
June	2.113	2.835	2.094	2.103	2.037	2.120	1.049
July	2.113	2.891	2.100	2.046	2.001	2.098	1.012
August	2.095	2.842	2.138	2.125	2.041	2.161	1.084
September	2.088	2.805	2.131	2.163	2.093	2.190	1.151
October	2.198	2.890	2.263	2.384	2.221	2.325	1.253
November	2.243	2.868	2.342	NA	2.308	2.392	1.277
December	2.383	3.024	2.459	2.744	2.435	2.486	1.322
Average	2.165	2.874	2.459 2.185	2.299	2.147	2.460 2.214	1.212
11 lanuary	2.472	3.161	2.585	2.804	2.585	2.621	1.380
11 January							
February	2.584	3.248	2.783	2.974	2.737	2.820	1.401
March	2.934	3.607	3.095	3.196	2.996	3.134	1.403
April	3.218	4.035	3.259	3.296	3.167	3.296	1.433
May	3.174	4.096	3.188	W	3.039	3.116	1.515
June	2.970	3.847	3.101	3.054	2.956	3.079	1.503
July	3.058	4.011	3.090	3.158	3.024	3.135	1.513
August	2.949	3.899	3.040	3.089	2.927	3.032	1.522
September	2.896	3.878	3.025	3.073	2.927	3.035	1.557
October	2.805	3.616	2.962	3.096	2.915	3.035	1.511
November	2.701	3.494	3.089	3.258	3.050	3.157	1.498
December	2.614	3.424	2.951	3.006	2.928	2.927	1.444
Average	2.867	3.739	3.014	3.065	2.907	3.034	1.467
112 January	2.747	3.576	3.059	3.197	3.027	3.018	1.341
February	2.936	3.788	3.186	3.293	3.166	3.163	1.282
March	3.203	4.052	3.296	3.306	3.211	3.308	1.293
April	3.189	4.157	3.255	3.243	3.153	3.252	1.163
May	3.016	4.004	8 3.076	R 3.008	2.976	3.039	0.950

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are shown in Table 9.7; they are sales made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. • Values

for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 4.
• 2010 forward: EIA, Petroleum Marketing Monthly, September 2012, Table 4.

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b See Note 5, "Motor Gasoline Prices," at end of section.
 R=Revised. NA=Not available. W=Value withheld to avoid disclosure of individual company data.

Table 9.7 Refiner Prices of Petroleum Products to End Users

	Finished Motor Gasoline ^b	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume Grade)
978 Average	0.484	0.516	0.387	0.421	0.400	0.377	0.335
980 Average	1.035	1.084	0.868	0.902	0.788	0.818	0.482
985 Average	0.912	1.201	0.796	1.030	0.849	0.789	0.717
990 Average	0.883	1.120	0.766	0.923	0.734	0.725	0.745
995 Average	0.765	1.005	0.540	0.589	0.562	0.560	0.492
96 Average	0.847	1.116	0.651	0.740	0.673	0.681	0.605
97 Average	0.839	1.128	0.613	0.745	0.636	0.642	0.552
	0.673	0.975	0.452	0.745	0.482	0.494	0.332
98 Average							
999 Average	0.781	1.059	0.543	0.605	0.558	0.584	0.458
000 Average	1.106	1.306	0.899	1.123	0.927	0.935	0.603
01 Average	1.032	1.323	0.775	1.045	0.829	0.842	0.506
02 Average	0.947	1.288	0.721	0.990	0.737	0.762	0.419
03 Average	1.156	1.493	0.872	1.224	0.933	0.944	0.577
04 Average	1.435	1.819	1.207	1.160	1.173	1.243	0.839
05 Average	1.829	2.231	1.735	1.957	1.705	1.786	1.089
06 Average	2.128	2.682	1.998	2.244	1.982	2.096	1.358
07 Average	2.345	2.849	2.165	2.263	2.241	2.267	1.489
08 Average	2.775	3.273	3.052	3.283	2.986	3.150	1.892
09 Average	1.888	2.442	1.704	2.675	1.962	1.834	1.220
10 January	2.240	2.914	2.129	2.986	2.369	2.192	1.913
February	2.173	2.855	2.018	2.974	2.310	2.144	2.009
March	2.301	3.103	2.144	2.978	2.425	2.265	NA
	2.370	3.201	2.144	3.040	2.527	2.410	1.326
April							
May	2.353	3.129	2.199	2.938	2.487	2.343	1.264
June	2.251	2.981	2.105	2.965	2.393	2.284	1.204
July	2.247	3.028	2.103	NA .	2.246	2.212	1.162
August	2.250	2.967	2.158	2.772	2.379	2.260	1.211
September	2.219	2.893	2.148	2.898	2.346	2.269	1.283
October	2.319	3.000	2.298	3.058	2.580	2.389	1.425
November	2.378	3.095	2.374	3.130	2.641	2.457	NA
December	2.514	3.218	2.484	3.276	2.749	2.554	1.863
Average	2.301	3.028	2.201	3.063	2.462	2.314	1.481
11 January	2.615	3.323	2.623	3.358	2.889	2.681	NA
February	2.712	3.374	2.818	3.506	3.020	2.867	1.823
March	3.072	3.767	3.161	3.697	3.255	3.189	1.763
April	3.340	4.132	3.306	3.796	3.430	3.370	NA
May	3.419	4.091	3.220	3.894	3.337	3.231	1.648
June	3.184	3.913	3.138	3.802	3.193	3.183	1.681
	3.172	4.027	3.118	3.812	3.294	3.214	1.620
July							
August	3.134	3.920	3.057	3.851	3.251	3.143	1.650
September	3.090	3.915	3.059	3.873	3.288	3.127	1.702
October	2.980	3.697	2.987	3.823	3.346	3.108	1.706
November	2.922	3.620	3.124	3.892	3.403	3.225	1.773
December	2.808	W	2.963	3.824	3.255	3.024	1.691
Average	3.050	3.803	3.054	3.616	3.193	3.117	1.709
12 January	2.914	3.732	3.087	3.848	3.345	3.093	1.655
February	3.087	W	3.206	3.874	3.495	3.224	1.518
March	3.389	4.133	3.337	3.919	3.522	3.378	1.470
April	3.405	4.313	3.283	3.916	3.509	3.342	1.352
May	3.289	W	R 3.100	3.741	R 3.258	R 3.163	1.080
June	3.060	w	2.766	3.753	2.992	2.912	0.902

Notes: • Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. Sales for resale are shown in Table 9.6; they are sales made to purchasers other than ultimate consumers. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 2.
• 2010 forward: EIA, Petroleum Marketing Monthly, September 2012, Table 2.

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 b See Note 5, "Motor Gasoline Prices," at end of section.
 R=Revised. NA=Not available. W=Value withheld to avoid disclosure of individual company data.

Table 9.8a No. 2 Distillate Prices to Residences: Northeastern States

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
978 Average	0.486	0.503	0.508	0.488	0.507	0.501	0.501	0.496	0.488
980 Average	0.963	1.004	1.015	0.978	1.011	0.983	0.982	0.979	0.964
985 Average	0.997	1.024	1.077	1.070	1.067	1.080	1.113	1.059	1.023
990 Average	0.989	1.028	1.070	1.084	1.086	1.098	1.125	1.087	1.026
995 Average	0.787	0.779	0.853	0.844	0.874	0.864	0.955	0.888	0.826
996 Average	0.972	0.940	0.969	0.976	0.986	0.986	1.063	1.024	0.953
997 Average	0.942	0.942	0.987	0.960	0.989	0.963	1.065	1.033	0.950
998 Average	0.788	0.788	0.873	0.818	0.868	0.831	0.948	0.892	0.814
999 Average	0.813	0.770	0.854	0.836	0.858	0.852	0.969	0.913	0.815
2000 Average	1.297	1.281	1.255	1.273	1.259	1.291	1.442	1.404	1,224
2001 Average	1.217	1.256	1.261	1.221	1.236	1.239	1.363	1.314	1.159
002 Average	1.129	1.119	1.172	1.141	1.124	1.118	1.218	1.220	1.064
003 Average	1.314	1.312	1.309	1.386	1.344	1.355	1.436	1.489	1.304
004 Average	1.511	1.497	1.505	1.559	1.511	1.518	1.627	1.662	1.489
	1.986	1.972	1.987	2.064	2.000	2.012	2.105	2.166	1.974
2005 Average	2.294	2.283	2.408	2.355	2.360	2.357	2.458	2.467	2.286
2006 Average	2.540	2.535	2.679	2.576	2.602	2.615			2.508
2007 Average	2.540 3.199	3.207		2.576 3.197		3.195	2.674	2.664	
008 Average	3.199	3.207	3.323	3.197	3.210	3.195	3.293	3.267	3.157
009 January	2.506	2.537	2.774	2.356	2.346	2.576	2.543	2.389	2.427
February	2.404	2.426	2.693	2.226	2.209	2.429	2.447	2.288	2.268
March	2.237	2.283	2.545	2.166	2.127	2.362	2.334	2.166	2.202
April	2.250	2.246	2.437	2.192	2.143	2.314	2.338	2.187	2.177
May	2.175	2.151	2.370	2.142	2.169	2.225	2.300	2.187	2.190
June	2.295	2.201	2.376	2.371	2.385	2.413	2.428	2.381	2.211
July	2.268	2.077	2.324	2.312	2.285	2.354	2.291	2.322	2.137
August	2.350	2.243	2.378	2.432	2.454	2.490	2.523	2.454	2.257
September	2.333	2.272	2.403	2.386	2.357	2.349	2.455	2.437	2.196
October	2.391	2.373	2.484	2.470	2.537	2.516	2.574	2.541	2.315
November	2.461	2.484	2.604	2.619	2.685	2.645	2.747	2.710	2.520
December	2.486	2.523	2.640	2.634	2.718	2.665	2.733	2.731	2.536
Average	2.382	2.377	2.593	2.358	2.376	2.487	2.504	2.404	2.330
010 January	2.583	2.611	2.753	2.762	2.856	2.764	2.893	2.928	2.692
February	2.536	2.600	2.705	2.729	2.777	2.730	2.845	2.871	2.697
	2.536	2.632	2.747	2.729	2.777	2.758	2.801	2.929	2.755
March	2.565	2.651	2.747	2.795	2.000	2.756	2.845		2.752
April								2.946	
May	2.511	2.636	2.710	2.811	2.921	2.736	2.781	2.873	2.680
June	2.479	2.574	2.649	2.716	2.829	2.705	2.691	2.747	2.561
July	2.478	2.532	2.614	2.656	2.728	2.653	2.651	2.715	2.519
August	2.469	2.513	2.619	2.651	2.735	2.634	2.668	2.701	2.543
September	2.539	2.543	2.657	2.686	2.745	2.647	2.721	2.754	2.583
October	2.677	2.642	2.784	2.860	2.942	2.822	2.848	2.912	2.759
November	2.774	2.772	2.924	2.969	3.044	2.946	2.969	3.077	2.892
December	2.910	2.904	3.032	3.126	3.197	3.106	3.147	3.278	3.061
Average	2.639	2.680	2.795	2.850	2.927	2.835	2.894	2.973	2.780
011 January	3.071	3.102	3.186	3.313	3.368	3.268	3.281	3.458	3.237
February	3.188	3.269	3.330	3.493	3.536	3.477	3.428	3.624	3.369

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. Notes: • States are grouped in Tables 9.8a–9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section.

Due to budget cuts in 2011, EIA adjusted its data programs. No. 2 distillate fuel oil prices to residences (Tables 9.8a-9.8c) will not be available for March 2011 forward.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all

available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15.
• 2010 and 2011: EIA, Petroleum Marketing Monthly, July 2011, Table 15.

Table 9.8b No. 2 Distillate Prices to Residences: Selected South Atlantic and Midwestern States (Dollars^a per Gallon, Excluding Taxes)

								,			
		District									
		of			West						
	Delaware	Columbia	Maryland	Virginia	Virginia	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesota
1978 Average	. 0.478	0.507	0.492	0.491	0.462	0.474	0.479	0.485	0.465	0.447	0.478
1980 Average		1.026	0.979	0.985	0.922	0.919	0.978	0.996	0.958	0.915	0.999
1985 Average		1.143	1.088	1.063	0.980	0.997	1.021	0.991	0.975	0.983	1.019
1990 Average		1.078	1.119	1.106	0.991	0.981	1.009	0.993	0.961	0.942	1.014
1995 Average		1.010	0.936	0.844	0.815	0.808	0.860	0.816	0.785	0.812	0.801
1996 Average		1.178	1.063	0.952	0.960	0.921	0.977	0.912	0.893	0.899	0.909
1997 Average		1.174	1.057	0.948	0.962	0.913	0.942	0.865	0.870	0.933	0.899
1998 Average		1.022	0.902	0.856	0.818	0.767	0.804	0.748	0.735	0.801	0.738
1999 Average		1.011	0.907	0.870	0.789	0.820	0.883	0.793	0.716	0.847	0.774
2000 Average		W	1.351	1.269	1.251	1.220	NA	1.207	1.095	1.171	1.156
2001 Average		1.431	1.342	1.202	1.139	1.160	NA	1.133	1.121	1.180	1.122
2002 Average		w	1.201	1.057	1.054	1.058	1.109	1.025	0.975	1.073	1.051
2003 Average		W	1.455	1.311	1.304	1.284	1.321	1.202	1.198	1.269	1.218
2004 Average		W	1.632	1.462	1.493	1.475	1.539	1.537	1.405	1.465	1.433
2005 Average		W	2.127	2.044	2.043	2.009	2.053	2.017	2.021	1.993	1.987
2006 Average		W	2.398	2.268	2.261	2.244	2.329	2.317	2.312	2.297	2.268
2007 Average		W	2.668	2.407	2.478	2.494	2.588	2.557	2.528	2.571	2.587
2008 Average		W	3.273	3.124	3.221	3.147	3.067	3.105	3.152	3.088	3.065
2009 January	. 2.428	W	2.470	2.225	2.329	2.041	1.991	2.062	2.069	2.004	1.974
February	. 2.310	W	2.407	2.145	2.188	1.888	1.866	1.912	1.869	1.854	1.813
March		W	2.275	1.999	2.042	1.826	1.806	1.822	1.836	1.781	1.735
April		W	2.263	NA	2.035	1.917	1.810	1.922	1.983	1.870	1.890
May	. 2.253	W	2.224	1.824	2.008	1.941	1.807	1.972	NA	1.975	1.872
June	. 2.289	W	2.320	2.037	2.119	2.180	2.095	2.176	2.060	2.200	2.156
July	. 2.253	W	2.307	2.055	2.122	2.103	1.964	2.181	NA	2.166	2.092
August	. 2.340	W	2.397	2.140	2.217	2.279	2.153	2.321	2.147	2.284	2.297
September	. 2.309	W	2.396	2.118	2.253	2.205	2.179	2.318	NA	2.262	2.232
October	. 2.505	W	2.561	2.322	2.397	2.364	2.336	2.391	2.386	2.331	2.301
November	. 2.683	W	2.707	2.408	2.504	2.479	2.485	2.520	2.483	2.421	2.388
December	. 2.724	W	2.763	2.495	2.496	2.493	2.447	2.507	2.427	2.395	2.394
Average		W	2.473	2.193	2.265	2.130	2.096	2.189	2.155	2.105	2.124
2010 January		W	2.861	2.594	2.681	2.572	2.526	2.565	2.526	2.466	2.505
February		W	2.833	2.561	2.714	2.533	2.501	2.510	2.516	2.421	W
March		W	2.894	2.587	2.712	2.585	2.640	2.614	2.660	2.537	2.580
April		W	2.858	NA	2.676	2.566	2.731	2.679	2.777	2.640	2.668
May		W	2.808	2.435	2.583	2.574	2.669	NA	2.783	2.567	2.581
June		W	2.705	2.356	2.501	2.436	2.505	2.482	NA	2.478	2.557
July	. 2.655	W	2.636	2.345	2.499	2.436	2.481	2.510	2.582	2.508	2.466
August		W	2.669	2.351	2.547	2.511	2.508	2.550	W	2.514	2.559
September		W	2.692	2.397	2.577	2.554	2.596	2.607	2.732	2.562	2.596
October	. 2.847	W	2.822	2.567	2.720	2.695	2.734	2.701	NA	2.702	2.719
November		W	2.985	2.754	2.834	2.802	2.830	2.864	2.915	2.788	2.866
December		W	3.195	2.920	3.024	2.923	2.933	2.979	3.030	2.894	2.965
Average	. 2.951	W	2.925	2.621	2.724	2.653	2.657	2.670	2.749	2.610	2.470
2011 January		W	3.377	3.093	3.204	3.039	3.041	3.109	3.098	3.008	3.031
February	. 3.560	W	3.508	3.222	3.365	3.189	3.196	3.246	3.286	3.169	3.184

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. NA=Not available. W=Value withheld to avoid disclosure of individual company

Notes: • States are grouped in Tables 9.8a-9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15.

Due to budget cuts in 2011, EIA adjusted its data programs. No. 2 distillate fuel oil prices to residences (Tables 9.8a-9.8c) will not be available for March 2011 forward.

^{• 2010} and 2011: EIA, Petroleum Marketing Monthly, July 2011, Table 15.

Table 9.8c No. 2 Distillate Prices to Residences: Selected Western States and U.S. Average (Dollars^a per Gallon, Excluding Taxes)

	Idaho	Washington	Oregon	Alaska	U.S. Average
978 Average	0.436	0.486	0.458	0.532	0.490
980 Average	0.916	1.008	0.973	0.978	0.974
985 Average	0.972	1.011	0.971	1.083	1.053
990 Average	0.974	1.029	0.970	1.101	1.063
	0.839	0.962	0.894	0.834	0.867
995 Average		1.080	0.989	0.909	0.989
996 Average	0.933				
997 Average	0.953	1.139	1.031	0.973	0.984
998 Average	0.784	0.978	0.861	0.852	0.852
999 Average	0.762	1.065	0.938	0.966	0.876
000 Average	1.170	1.445	1.368	1.337	1.311
001 Average	1.038	1.336	1.211	1.377	1.250
002 Average	0.919	1.204	1.060	1.087	1.129
003 Average	1.188	1.487	1.303	1.243	1.355
2004 Average	1.495	1.749	1.594	1.524	1.548
2005 Average	2.123	2.385	2.146	2.061	2.052
2006 Average	2.391	2.681	2.411	2.395	2.365
2007 Average	2.598	2.909	2.500	2.518	2.592
008 Average	3.078	3.401	3.060	3.485	3.219
009 January	1.879	2.388	1.939	2.160	2.426
February	1.762	2.253	1.819	NA	2.309
March	1.674	2.124	1.727	1.946	2.210
April	1.863	2.414	1.986	2.140	2.211
May	1.878	2.473	2.050	2.256	2.167
June	2.148	2.544	2.278	2.506	2.307
July	2.123	2.335	2.149	2.362	2.219
August	2.158	2.489	2.326	2.554	2.369
September	2.273	2.658	2.357	NA	2.334
October	2.333	2.737	2.469	NA NA	2.458
November	2.459	2.871	2.551	NA NA	2.608
	2.354				
December		2.830	2.475	NA 2.503	2.628
Average	2.048	2.491	2.132	2.503	2.386
010 January	2.392	2.918	2.583	NA	2.763
February	2.412	2.817	2.536	2.790	2.658
March	2.569	2.924	2.664	2.884	2.757
April	2.747	3.105	2.817	2.965	2.787
May	2.675	3.053	2.685	2.958	2.723
June	NA	2.892	2.653	2.891	2.623
July	2.540	NA	NA NA	2.878	2.584
August	2.598	2.757	2.625	2.901	2.597
September	2.676	NA	2.760	2.944	2.641
October	2.853	3.174	2.760	3.041	2.795
	2.937	3.174	2.935	3.070	2.795
November					
December	2.980	3.242	2.991	3.134	3.089
Average	2.716	3.039	2.776	2.951	2.798
011 January	3.005	3.350	3.079	3.210	3.251
February	3.173	3.537	3.295	3.366	3.409

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. NA=Not available.

Notes: • States are grouped in Tables 9.8a–9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical

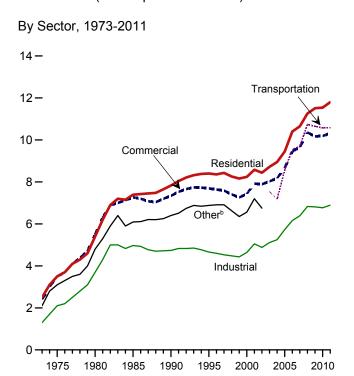
Petroleum Prices," at end of section.

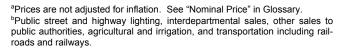
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978.
Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15.

• 2010 and 2011: EIA, Petroleum Marketing Monthly, July 2011, Table 15.

Due to budget cuts in 2011, EIA adjusted its data programs. No. 2 distillate fuel oil prices to residences (Tables 9.8a-9.8c) will not be available for March 2011 forward.

Figure 9.2 Average Retail Prices of Electricity (Cents^a per Kilowatthour)





By Sector, Monthly

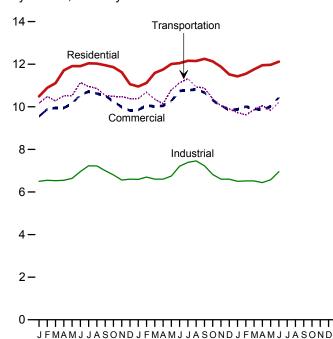
Source: Table 9.9.

Costs, Monthly

25 -

20 -

15-

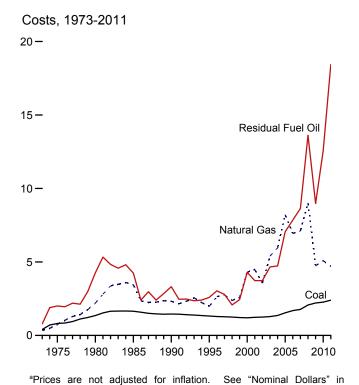


2010 2011 2012

Note: Includes taxes.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices.

Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants (Dollars^a per Million Btu, Including Taxes)



Glossary.

Residual Fuel Oil

Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.10.

Table 9.9 Average Retail Prices of Electricity

(Centsa per Kilowatthour, Including Taxes)

	Residential	Commercial ^b	Industrial ^c	Transportationd	Othere	Total
973 Average	2.50	2.40	1.30	NA	2.10	2.00
975 Average		3.50	2.10	NA	3.10	2.90
980 Average		5.50	3.70	NA	4.80	4.70
985 Average		7.27	4.97	NA NA	6.09	6.44
990 Average		7.34	4.74	NA NA	6.40	6.57
		7.69	4.66	NA NA	6.88	6.89
995 Average			4.60	NA NA	6.91	6.86
996 Average		7.64				
97 Average		7.59	4.53	NA	6.91	6.85
98 Average		7.41	4.48	NA	6.63	6.74
99 Average		7.26	4.43	NA	6.35	6.64
000 Average		7.43	4.64	NA	6.56	6.81
01 Average		7.92	5.05	NA	7.20	7.29
02 Average	8.44	7.89	4.88	NA	6.75	7.20
03 Average	8.72	8.03	5.11	7.54		7.44
04 Average		8.17	5.25	7.18		7.61
05 Average		8.67	5.73	8.57		8.14
06 Average		9.46	6.16	9.54		8.90
07 Average		9.65	6.39	9.70		9.13
08 Average		10.36	6.83	10.74		9.74
		10.36	6.81	10.74		9.74
09 Average	11.51	10.17	0.01	10.05		9.02
10 January		9.55	6.50	10.17		9.28
February		9.89	6.55	10.48		9.47
March	11.11	9.95	6.53	10.28		9.48
April	11.71	9.95	6.55	10.52		9.53
May	11.91	10.15	6.64	10.52		9.72
June	11.91	10.56	6.96	11.14		10.18
July		10.72	7.23	10.95		10.46
August		10.62	7.22	10.86		10.40
September		10.52	7.00	10.53		10.17
October		10.25	6.80	10.49		9.81
						9.55
November		9.99	6.56	10.47		
December		9.82	6.60	10.39		9.52
Average	11.54	10.19	6.77	10.57		9.83
11 January	10.95	9.85	6.59	10.39		9.55
February	11.12	10.07	6.70	10.69		9.64
March	11.59	10.01	6.60	10.35		9.64
April		10.05	6.60	10.14		9.64
May		10.27	6.75	10.80		9.87
June		10.75	7.21	11.12		10.35
July		10.77	7.39	11.32		10.57
August		10.82	7.46	10.93		10.58
September		10.67	7.40	10.88		10.39
			6.82			
October		10.30		10.37		9.90
November		10.06	6.60	10.04		9.67
December		9.85	6.60	9.90		9.64
Average	11.80	10.32	6.89	10.58		9.99
12 January		9.88	6.50	9.73		9.65
February		10.01	6.52	9.62		9.64
March		9.91	6.52	9.86		9.59
April		9.86	6.44	10.05		9.52
May		10.02	6.57	9.83		9.70
June		10.44	6.95	10.20		10.18
6-Month Average		10.44	6.58	9.88		9.73
J						
11 6-Month Average 10 6-Month Average		10.18 10.02	6.74 6.63	10.58 10.51		9.79 9.61

Prices are not adjusted for inflation. See "Nominal Price" in Glossary

and railways.

NA=Not available. ——=Not applicable.

Notes: • Beginning in 2003, the category "Other" has been replaced by "Transportation," and the categories "Commercial" and "Industrial" have been redefined. • Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of energy service provider billing and accounting procedures. That lack of correspondence could result in uncharacteristic increases or decreases in the monthly prices. • Prices include State and local taxes, energy or demand charges, customer service charges, environmental surcharges, franchise fees, fuel adjustments, and other

miscellaneous charges applied to end-use customers during normal billing operations. Prices do not include deferred charges, credits, or other adjustments, such as fuel or revenue from purchased power, from previous reporting periods.

• See Note 7, "Electricity Retail Prices," at end of section for plant coverage, and for information on preliminary and final values.

• Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.

available data beginning in 1973.
Sources: • 1973-September 1977: Federal Power Commission, Form FPC-5,
"Monthly Statement of Electric Operating Revenues and Income." • October
1977-February 1980: Federal Energy Regulatory Commission (FERC), Form
FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • March
1980-1982: FERC, Form FERC-5, "Electric Utility Company Monthly Statement."
• 1983: U.S. Energy Information Administration (EIA), Form EIA-826, "Electric
Utility Company Monthly Statement." • 1984-1997: EIA, Form EIA-861, "Annual
Electric Utility Report." • 1998 forward: EIA, Electric Power Monthly, August
2012, Table 5.3.

b Commercial sector. For 1973–2002, prices exclude public street and highway lighting, interdepartmental sales, and other sales to public authorities.

^c Industrial sector. For 1973–2002, prices exclude agriculture and irrigation.

Transportation sector, including railroads and railways.
 Public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.

Table 9.10 Cost of Fossil-Fuel Receipts at Electric Generating Plants

(Dollarsa per Million Btu, Including Taxes)

			Petrole	um			
	Coal	Residual Fuel Oilb	Distillate Fuel Oil ^c	Petroleum Coke	Total ^d	Natural Gas ^e	All Fossil Fuels
973 Average	0.41	0.79	NA	NA	0.80	0.34	0.48
975 Average	.81	2.01	NA	NA	2.02	.75	1.04
980 Average	1.35	4.27	NA NA	NA NA	4.35	2.20	1.93
985 Average	1.65	4.24	NA NA	NA NA	4.32	3.44	2.09
1990 Average	1.45	3.32	5.38	.80	3.35	2.32	1.69
1995 Average	1.32	2.59	3.99	.65	2.57	1.98	1.45
	1.29	3.03	4.87	.78	3.03	2.64	1.52
996 Average	1.27	2.79	4.49	.76 .91	2.73	2.76	1.52
997 Average	1.25	2.79	3.30	.71	2.73		1.44
998 Average		2.08 2.44				2.38	1.44
999 Average	1.22		4.03	.65	2.36	2.57	
2000 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74
2001 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73
2002 Average ^g	1.25	3.73	5.34	.78	3.34	3.56	1.86
2003 Average	1.28	4.66	6.82	.72	4.33	5.39	2.28
2004 Average	1.36	4.73	8.02	.83	4.29	5.96	2.48
2005 Average	1.54	7.06	11.72	1.11	6.44	8.21	3.25
2006 Average	1.69	7.85	13.28	1.33	6.23	6.94	3.02
2007 Average	1.77	8.64	14.85	1.51	7.17	7.11	3.23
2008 Average	2.07	13.62	21.46	2.11	10.87	9.01	4.12
2009 Average	2.21	8.98	13.22	1.61	7.02	4.74	3.04
2010 January	2.23	11.85	15.73	1.72	9.72	6.71	3.74
February	2.27	12.11	15.69	1.80	9.51	6.07	3.45
March	2.31	12.44	16.42	2.09	8.95	5.29	3.16
	2.29	13.17	17.10		7.95	4.71	3.01
April				2.18			
May	2.26	12.36	16.54	2.22	9.47	4.79	3.12
June	2.25	11.96	16.12	2.15	9.26	5.12	3.34
July	2.27	12.28	15.89	2.42	9.63	5.18	3.51
August	2.30	12.28	16.24	2.65	9.18	4.92	3.39
September	2.28	12.34	16.53	2.67	9.35	4.45	3.10
October	2.27	13.53	17.14	2.43	9.13	4.30	2.94
November	2.26	14.06	17.43	2.22	10.86	4.35	2.94
December	2.23	14.61	18.56	2.57	11.29	5.43	3.32
Average	2.27	12.57	16.61	2.28	9.54	5.09	3.26
2011 January	2.33	14.65	19.48	2.92	11.71	5.35	3.36
February	2.36	15.98	20.93	2.67	12.08	5.06	3.26
March	2.34	17.65	22.60	2.94	13.71	4.61	3.12
April	2.39	18.30	24.06	2.99	13.73	4.85	3.29
May	2.44	17.73	23.17	3.22	13.70	4.85	3.38
June	2.42	18.81	22.89	2.57	13.82	5.03	3.49
July	2.45	20.17	22.96	3.14	12.22	4.96	3.61
August	2.48	19.51	22.48	2.95	11.68	4.72	3.44
September	2.44	20.81	22.46	2.79	12.17	4.72	3.26
	2.39	19.69	23.04	2.79	13.68	4.32	3.12
October	2.39						
November		19.46	23.33	2.18	13.27	4.08	3.03
December Average	2.35 2.40	21.01 18.43	22.31 22.41	2.29 2.80	12.76 12.88	4.00 4.71	3.00 3.29
012 January	2.43	20.93	22.96	2.26	13.28	3.67	2.97
February	2.39	21.12	23.82	2.01	13.32	3.32	2.83
March	2.40	21.79	24.91	1.86	12.83	2.96	2.72
April	2.44	22.96	24.72	2.09	13.43	2.74	2.66
May	2.44	22.73	23.20	2.15	14.40	2.90	2.74
June	2.38	22.35	21.66	2.14	14.55	3.08	2.81
6-Month Average	2.41	21.91	23.38	2.09	13.63	3.10	2.79
2011 6-Month Average	2.38	17.19	22.04	2.89	13.12	4.97	3.32
2010 6-Month Average	2.27	12.19	16.15	2.03	9.22	5.44	3.30

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

Gas."

g Through 2001, data are for electric utilities only. Beginning in 2002, data also include independent power producers, and electric generating plants in the commercial and industrial sectors. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage.

NA=Not available.

Notes: • Receipts are purchases of fuel. • Yearly costs are averages of monthly values, weighted by quantities in Btu. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.

Sources: See end of section.

b For 1973–2001, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).

^c For 1973–2001, electric utility data are for light oil (fuel oil nos. 1 and 2).

^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil. For 1973–1982, data do not include refined motor oil,

bunker oil, and liquefied petroleum gases. For 1973–1989, data do not include petroleum coke.

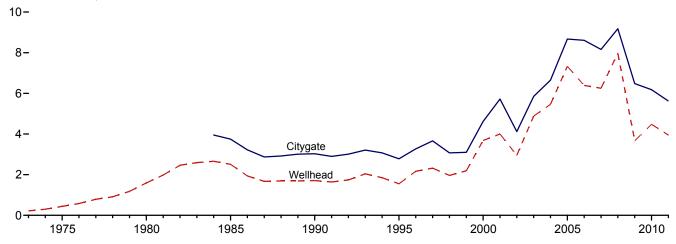
^e Natural gas, plus a small amount of supplemental gaseous fuels. For 1973-2000, data also include a small amount of blast furnace gas and other gases derived from fossil fuels.

f Weighted average of costs shown under "Coal," "Petroleum," and "Natural

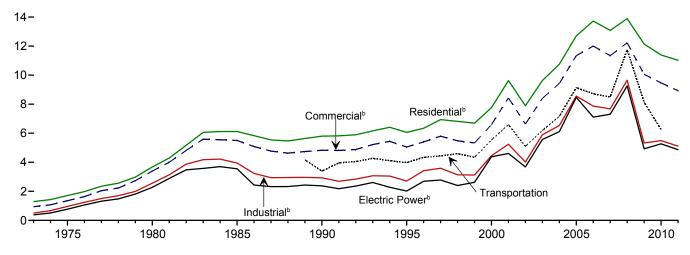
Figure 9.4 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)

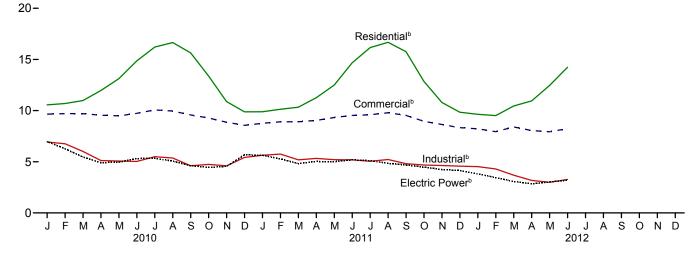
Selected Prices, 1973-2011



Consuming Sectors, 1973-2011



Consuming Sectors, Monthly



 $^{\rm a}\textsc{Prices}$ are not adjusted for inflation. See "Nominal Dollars" in Glossary. $^{\rm b}\textsc{Includes}$ taxes.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.11.

Table 9.11 Natural Gas Prices

(Dollarsa per Thousand Cubic Feet)

						C	onsuming	Sectorsb			
			Res	idential	Com	mercial ^c	Ind	ustriald	Transportation	Electr	ric Power ^e
	Wellhead Price	City- gate Price	Pricef	Percentage of Sector ^g	Pricef	Percentage of Sector ^g	Price ^f	Percentage of Sector ^g	Vehicle Fuel ^h Price ^f	Price ^f	Percentage of Sector ^{g,i}
1973 Average 1975 Average 1980 Average 1985 Average 1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 2000 Average 2001 Average 2003 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 Average 2009 Average 2009 Average 2009 Average	1.59 2.51 1.71 1.55 2.17 2.32 1.96 2.19 3.68 4.00 2.95 4.88 5.46 7.33 6.39 6.25	NA NA 3.75 3.03 2.78 3.66 3.07 3.10 4.62 5.72 5.85 6.65 8.61 8.16 8.16 9.18 9.18	1.29 1.71 3.68 6.12 5.80 6.06 6.34 6.89 7.76 9.63 7.89 9.63 10.75 13.73 13.08 13.89 12.14	NA NA NA NA 99.2 99.0 99.8 97.7 95.2 92.6 92.4 97.5 97.5 97.7 98.1 98.1 98.0 97.5 97.4	0.94 1.35 3.39 5.50 5.48 5.33 6.59 8.43 8.40 9.43 11.34 12.00 11.34 12.03	NA NA NA 86.6 76.7 77.6 70.8 67.0 66.1 63.9 66.0 77.4 78.2 78.0 82.1 80.8 80.4 79.9 77.8	0.50 .96 2.56 3.95 2.71 3.42 3.59 3.14 4.45 5.24 4.45 5.89 6.53 7.68 7.68 5.33	NA NA NA 68.8 35.2 24.5 19.4 18.1 16.1 18.8 20.8 22.7 22.1 23.6 24.0 23.4 22.2 20.5 18.8	NA NA NA 3.39 3.98 4.34 4.59 4.59 6.60 6.19 7.16 9.14 8.72 8.50 11.75 8.13	0.38 .77 2.27 3.55 2.38 2.02 2.69 2.78 2.40 2.62 4.38 4.61 *3.68 *5.57 6.11 7.31 7.31 7.92 6.493	92.1 96.1 96.9 94.0 76.8 71.4 68.0 63.7 58.3 50.5 40.2 83.9 91.2 89.8 91.3 93.4 92.2 101.1
2010 January February March April May June July August September October November December Average	5.30 4.70 4.10 4.24 4.27 4.44 4.38 3.83 4.05 4.12 4.68	6.84 6.64 6.50 5.88 5.81 6.02 6.31 6.22 5.72 5.70 5.48 5.74 6.18	10.56 10.69 10.98 11.97 13.12 14.86 16.21 16.65 15.64 13.37 10.88 9.88 11.39	97.4 97.8 97.6 96.2 97.1 96.9 96.8 96.4 96.7 96.8 97.4	9.65 9.71 9.70 9.55 9.49 9.73 10.07 9.96 9.57 9.28 8.86 8.56 9.47	81.2 81.8 79.7 75.7 73.0 71.9 70.6 69.8 68.5 71.8 77.7 80.2 77.5	6.93 6.76 6.01 5.12 5.07 5.03 5.49 5.37 4.61 4.74 4.60 5.42 5.49	19.0 18.6 18.4 17.7 17.9 18.0 18.3 17.5 16.8 17.6 17.6	NA NA NA NA NA NA NA NA NA NA NA	6.98 6.27 5.47 4.91 4.96 5.31 5.34 5.06 4.61 4.45 4.55 5.68 5.27	101.0 100.5 101.0 100.9 100.9 100.6 100.5 100.7 101.3 101.0 101.3 100.8
2011 January February March April May June July August September October November December Average	E 4.34 E 3.95 E 4.05 E 4.12 E 4.20 E 4.27 E 4.20 E 3.82 E 3.62 E 3.35	5.68 5.75 5.68 5.62 8.5.79 8.6.09 8.6.15 6.19 5.93 5.43 8.5.28 5.03 5.62	R 9.89 R 10.13 R 10.33 R 11.26 R 12.50 R 16.16 R 16.67 R 15.76 R 15.76 R 10.79 R 9.84 R 11.02	R 96.5 R 96.6 R 96.2 R 96.0 R 96.2 R 96.3 R 95.7 R 95.6 R 95.6 R 95.6 R 95.4	R 8.76 R 8.90 R 8.91 R 9.04 R 9.32 R 9.53 R 9.59 R 9.79 R 9.53 R 8.64 R 8.33 R 8.93	R 72.9 R 72.1 R 69.7 R 66.6 R 64.1 R 63.2 R 59.4 R 58.2 R 57.9 R 58.3 R 66.2 R 69.2	R 5.63 R 5.75 R 5.19 R 5.33 R 5.20 R 5.05 R 5.22 R 4.81 R 4.68 R 4.63 R 4.57 R 5.11	R 17.7 R 17.5 R 17.5 R 16.8 R 17.2 R 16.7 R 16.9 R 16.6 R 16.6 R 16.7 R 17.0 R 17.5	NA NA NA NA NA NA NA NA NA NA	5.63 5.28 4.82 5.03 5.01 5.11 4.84 4.69 4.47 4.24 4.15 4.87	101.5 102.1 101.2 101.8 101.1 101.2 100.2 100.9 101.5 101.6 101.2 101.4
2012 January	E 2.46 E 2.25 E 1.89 E 1.94 E 2.54 E 2.33	4.86 R 4.74 4.84 R 4.20 R 4.31 4.65 4.69	R 9.64 R 9.51 R 10.45 R 10.95 R 12.46 14.23 10.34	R 96.2 R 96.2 R 96.2 R 95.6 R 95.7 95.6 96.1	R 8.22 R 7.94 R 8.40 R 8.05 R 7.93 8.23 8.13	R 70.4 R 69.1 R 66.9 R 63.2 R 60.8 60.4 66.7	R 4.52 R 4.30 R 3.69 R 3.18 R 2.99 3.27 3.70	R 16.9 R 16.9 R 16.9 R 16.2 R 16.6 16.5 16.7	NA NA NA NA NA NA	3.81 3.45 3.07 2.85 3.02 3.20 3.21	100.6 100.5 100.2 100.9 100.9 100.7
2011 6-Month Average 2010 6-Month Average		5.73 6.48	10.62 11.19	96.4 97.4	8.96 9.66	69.7 79.0	5.39 5.90	17.3 18.3	NA NA	5.16 5.64	101.4 100.8

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
b See Note 9, "Natural Gas Prices," at end of section.

C Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
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 2001, data are for electric electricity beginning in 2002, data also include independent power producers. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage.

Includes taxes 9 The percentage of the sector's consumption in Table 4.3 for which price data are available. For details on how the percentages are derived, see Table 9.11 Sources at end of section.

^h Much of the natural gas delivered for vehicle fuel represents deliveries to fueling stations that are used primarily or exclusively by fleet vehicles. Thus, the prices are often those associated with the cost of gas in the operation of fleet vehicles.

vehicles.

i Percentages exceed 100 percent when reported natural gas receipts are greater than reported natural gas consumption—this can occur when combined-heat-and-power plants report fuel receipts related to non-electric generating activities.

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

Notes: • Prices are for natural gas, plus a small amount of supplemental gaseous fuels. • Prices are intended to include all taxes. See Note 9, "Natural Gas Prices," at end of section. • Wellhead annual and year-to-date prices are simple averages of the monthly prices; all other annual and year-to-date prices are volume-weighted averages of the monthly prices. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.

Sources: See end of section.

Energy Prices

Note 1. Crude Oil Domestic First Purchase Prices. The average domestic first purchase price represents the average price at which all domestic crude oil is purchased. Prior to February 1976, the price represented an estimate of the average of posted prices; beginning with February 1976, the price represents an average of actual first purchase prices. The data series was previously called "Actual Domestic Wellhead Price."

Note 2. Crude Oil F.O.B. Costs. F.O.B. literally means "Free on Board." It denotes a transaction whereby the seller makes the product available with an agreement on a given port at a given price; it is the responsibility of the buyer to arrange for the transportation and insurance.

Note 3. Crude Oil Landed Costs. The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to April 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries that export only small amounts to the United States were also excluded. Beginning in April 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.

Note 4. Crude Oil Refinery Acquisition Costs. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on U.S. Energy Information Administration (EIA) Form EIA-14, "Refiners' Monthly Cost Report." Those costs were previously published from data collected on Economic Regulatory Administration (ERA) Form ERA-49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report." Form ERA-49 was discontinued with the decontrol of crude oil on January 28, 1981. Crude oil purchases and costs are defined for Form EIA-14 in accordance with conventions used for Form ERA-49. The respondents for the two forms are also essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken when comparing the data collected on the two forms.

The refiner acquisition cost of crude oil is the average price paid by refiners for crude oil booked into their refineries in accordance with accounting procedures generally accepted and consistently and historically applied by the refiners concerned. Domestic crude oil is that oil produced in the United States or from the outer continental shelf as defined in 43 USC Section 1331. Imported crude oil is either that oil reported on Form ERA-51, "Transfer Pricing Report," or any crude oil that is not domestic oil. The composite cost is the weighted average of domestic and imported crude oil costs.

Crude oil costs and volumes reported on Form ERA-49 excluded unfinished oils but included the Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported

on Federal Energy Administration (FEA) Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report," included unfinished oils but excluded SPR. Imported averages derived from Form ERA-49 exclude oil purchased for SPR, whereas the composite averages derived from Form ERA-49 include SPR. None of the prices derived from Form EIA-14 include either unfinished oils or SPR.

Note 5. Motor Gasoline Prices. Several different series of motor gasoline prices are published in this section. U.S. city average retail prices of motor gasoline are calculated monthly by the Bureau of Labor Statistics during the development of the Consumer Price Index (CPI). These prices include all Federal, State, and local taxes paid at the time of sale. From 1974–1977, prices were collected in 56 urban areas. From 1978 forward, prices are collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-serve).

Refiner prices of finished motor gasoline for resale and to end users are determined by the EIA in a monthly survey of refiners and gas plant operators (Form EIA-782A). The prices do not include any Federal, State, or local taxes paid at the time of sale. Estimates of prices prior to January 1983 are based on Form FEA-P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices," and also exclude all Federal, State, or local taxes paid at the time of sale. Sales for resale are those made to purchasers who are other-than-ultimate consumers. Sales to end users are sales made directly to the consumer of the product, including bulk consumers (such as agriculture, industry, and utilities) and residential and commercial consumers.

Note 6. Historical Petroleum Prices. Starting in January 1983, Form EIA-782, "Monthly Petroleum Product Sales Report," replaced 10 previous surveys. Every attempt was made to continue the most important price series. However, prices published through December 1982 and those published since January 1983 do not necessarily form continuous data series due to changes in survey forms, definitions, instructions, populations, samples, processing systems, and statistical procedures. To provide historical data, continuous series were generated for annual data 1978-1982 and for monthly data 1981 and 1982 by estimating the prices that would have been published had Form EIA-782 survey and system been in operation at that time. This form of estimation was performed after detailed adjustment was made for product and sales type matching and for discontinuity due to other factors. An important difference between the previous and present prices is the distinction between wholesale and resale and between retail and end user. The resale category continues to include sales among resellers. However, sales to bulk consumers, such as utility, industrial, and commercial accounts previously included in the wholesale category, are now counted as made to end users. The end-user category continues to include retail sales through company-owned and operated outlets but also includes sales to the bulk consumers such as agriculture, industry, and electric utilities. Additional information may be found in "Estimated Historic Time Series for the EIA-782," a feature article by Paula Weir, printed in the December 1983 [3] *Petroleum Marketing Monthly*, published by EIA.

Note 7. Electricity Retail Prices. Average annual retail prices of electricity have the following plant coverage: Through 1979, annual data are for Classes A and B privately owned electric utilities only. For 1980–1982, annual data are for selected Class A utilities whose electric operating revenues were \$100 million or more during the previous year. For 1983, annual data are for a selected sample of electric utilities. Beginning in 1984, data are for a census of electric utilities. Beginning in 1996, annual data also include energy service providers selling to retail customers.

Average monthly retail prices of electricity have the following plant coverage: Through 1985, monthly data are derived from selected privately owned electric utilities and, therefore, are not national averages. Beginning in 1986, monthly data are based on a sample of publicly and privately owned electric utilities. Beginning in 1996, monthly data also include energy service providers selling to retail customers.

Preliminary monthly data are from Form EIA-826, "Monthly Electric Sales and Revenue Report With State Distributions Report," which is a monthly collection of data from approximately 450 of the largest publicly and privately owned electric utilities as well as a census of energy service providers with retail sales in deregulated States; a model is then applied to the collected data to estimate for the entire universe of U.S. electric utilities. Preliminary annual data are the sum of the monthly revenues divided by the sum of the monthly sales. When final annual data become available each year from Form EIA-861, "Annual Electric Power Industry Report," their ratios to the preliminary Form EIA-826 values are used to derive adjusted final monthly values.

Note 8. Costs of Fossil-Fuel Receipts at Electric Generating Plants. Data for 1973–1982 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 25 megawatts or greater. From 1974–1982, peaking units were included in the data and counted towards the 25-megawatt-or-greater total. Data for 1983–1990 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 50 megawatts or greater. Data for 1991–2001 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units and combined-cycle units together totaled 50

megawatts or greater. Data for 2002 forward cover the aforementioned regulated generating plants plus unregulated generating plants (independent power producers, as well as combined-heat-and-power generating plants and electricity-only plants in the commercial and industrial sector) whose total facility fossil-fueled nameplate generating capacity is 50 or more megawatts, regardless of unit type.

Note 9. Natural Gas Prices. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all Federal, State, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on more than 3,000 consumers' bills are sometimes excluded by the reporting utilities. Deliveredto-consumers prices for 1987 forward represent natural gas delivered and sold to residential, commercial, industrial, vehicle fuel, and electric power consumers. They do not include the price of natural gas delivered on behalf of third parties to residential, commercial, industrial, and vehicle fuel customers except for certain States in the residential and commercial sectors for 2002 forward. Volumes of natural gas delivered on behalf of third parties are included in the consumption data shown in Table 4.3. Additional information is available in the EIA Natural Gas Monthly, Appendix C.

Table 9.1 Sources

Domestic First Purchase Price

1973–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977: Federal Energy Administration, based on Form FEA-P124, "Domestic Crude Oil Purchaser's Monthly Report." 1978–2009: U.S. Energy Information Administration (EIA), *Petroleum Marketing Annual 2009*, Table 1.

2010 forward: EIA, *Petroleum Marketing Monthly*, September 2012, Table 1.

F.O.B. and Landed Cost of Imports

October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report."
October–December 1977: EIA, Form FEA-F701-M-0, "Transfer Pricing Report."

1978–2009: EIA, Petroleum Marketing Annual 2009, Table

2010 forward: EIA, *Petroleum Marketing Monthly*, September 2012, Table 1.

Refiner Acquisition Cost

1973: EIA estimates. The domestic price was derived by adding estimated transportation costs to the reported domestic first purchase price. The imported price was derived by adding an estimated ocean transport cost to the average "Free Alongside Ship" value published by the U.S. Bureau of the Census.

1974–1976: DOI, BOM, Minerals Yearbook, "Crude Petroleum and Petroleum Products" chapter.

1977: January-September, FEA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report." October-December, EIA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report."

1978–2009: EIA, Petroleum Marketing Annual 2009, Table

EIA, Petroleum Marketing Monthly, 2010 forward: September 2012, Table 1.

Table 9.2 Sources

October 1973-September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." October 1977–December 1977: U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report."

1978-2009: EIA, Petroleum Marketing Annual 2009, Table

2010 forward: EIA, Petroleum Marketing Monthly, September 2012, Table 21.

Table 9.10 Sources

1973-September 1977: Federal Power Commission, Form FPC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

October 1977-December 1977: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1978 and 1979: U.S. Energy Information Administration (EIA), Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1980–1989: EIA, Electric Power Monthly, May issues.

1990-2000: EIA, Electric Power Monthly, March 2003, Table 26.

2001–2007: EIA, Electric Power Monthly, October 2008, Table 4.1; Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants"; and EIA, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report."

2008 forward: EIA, Electric Power Monthly, August 2012, Table 4.1; and Form EIA-923, "Power Plant Operations Report."

Table 9.11 Sources

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All Prices Except Vehicle Fuel and Electric Power

1973–2006: U.S. Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports and unpublished revisions.

2007 forward: EIA, Natural Gas Monthly (NGM), August 2012, Table 3.

Vehicle Fuel Price

EIA, NGA, annual reports.

Electric Power Sector Price

1973-1998: EIA, NGA 2000, Table 96.

1999-2002: EIA, NGM, October 2004, Table 4.

2003-2007: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants," and EIA, Form EIA-423 "Monthly Cost and Quality of Fuels for Electric Plants Report."

2008 forward: Form EIA-923, "Power Plant Operations Report."

Percentage of Residential Sector

1989-2009: EIA, Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

2010 forward: Estimated by EIA as the average of the three previous annual values.

Percentage of Commercial Sector

1987-2006: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to commercial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to commercial consumers.

2007 forward: EIA, NGM, August 2012, Table 3.

Percentage of Industrial Sector

1982-2006: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to industrial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to industrial consumers.

2007 forward: EIA, NGM, August 2012, Table 3.

Percentage of Electric Power Sector

1973-2001: Calculated by EIA as the quantity of natural gas receipts by electric utilities reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants" (and predecessor forms) divided by the quantity of natural gas consumed by the electric power sector (for 1973-1988, see Monthly Energy Review, Table 7.3b; for 1989-2001, see Monthly Energy Review, Table 7.4b).

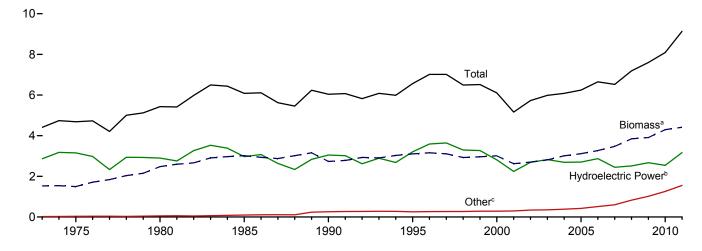
2002–2007: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," divided by the quantity of natural gas consumed by the electric power sector (see Monthly Energy Review, Table 7.4b).

2008 forward: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form EIA-923, "Power Plant Operations Report," divided by the quantity of natural gas consumed by the electric power sector (see Monthly Energy Review, Table 7.4b).

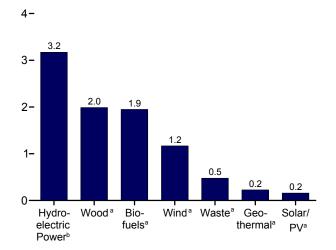
10. Renewable Energy

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

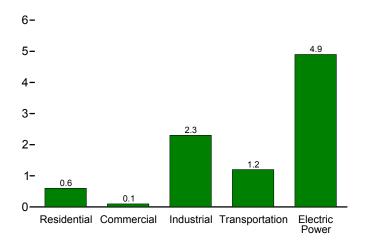
Total and Major Sources, 1973-2011



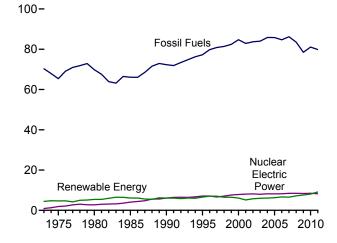
By Source, 2011



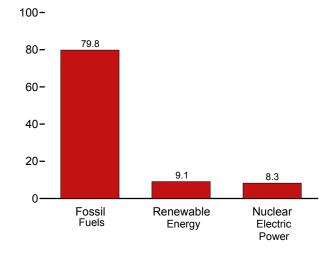
By Sector, 2011



Compared With Other Resources, 1973-2011



Compared With Other Resources, 2011



Web Page: http://www.eia.gov/totalenergy/data/monthly/#renewable. Sources: Tables 1.3 and 10.1–10.2c.

^a See Table 10.1 for definition.

^b Conventional hydroelectric power.

^c Geothermal, solar/PV, and wind.

Table 10.1 Renewable Energy Production and Consumption by Source

(Trillion Btu)

		Production	a					Consumpti	on			
	Bior	nass	Total	Hydro-					Bior	nass		Total Renew-
	Bio- fuels ^b	Total ^c	Renew- able Energy ^d	electric Power ^e	Geo- thermal ^f	Solar/ PV ^g	W ind ^h	Wood ⁱ	Waste ^j	Bio- fuels ^k	Total	able Energy
1973 Total	NA	1.529	4.411	2.861	20	NA	NA	1.527	2	NA	1,529	4,411
1975 Total	NA	1,499	4,687	3,155	34	NA	NA	1,497	2	NA	1,499	4,687
1980 Total	NA	2,475	5,428	2,900	53	NA	NA	2,474	2	NA	2,475	5,428
1985 Total	93	3,016	6,084	2,970	97	(s)	(s)	2,687	236	93	3,016	6,084
1990 Total	111	2,735	6,041	3,046	171	59	29	2,216	408	111	2,735	6,041
1995 Total	198	3,099	6,558	3,205	152	69	33	2,370	531	200	3,101	6,560
1996 Total	141	3,155 3,108	7,012	3,590	163 167	70 70	33	2,437 2,371	577	143 184	3,157	7,014 7,016
1997 Total 1998 Total	186 202	2,929	7,018 6,494	3,640 3,297	168	69	34 31	2,371	551 542	201	3,105 2,927	6,493
1999 Total	211	2,965	6,517	3,268	171	68	46	2,104	540	209	2,963	6,516
2000 Total	233	3.006	6,104	2,811	164	66	57	2,262	511	236	3.008	6,106
2001 Total	254	2,624	5,164	2,242	164	64	70	2,006	364	253	2,622	5,163
2002 Total	308	2,705	5,734	2,689	171	63	105	1,995	402	303	2,701	5,729
2003 Total	402	2,805	5,982	2,825	175	62	115	2,002	401	404	2,807	5,983
2004 Total	487	2,998	6,070	2,690	178	63	142	2,121	389	499	3,010	6,082
2005 Total	564	3,104	6,229	2,703	181	63	178	2,137	403	577	3,117	6,242
2006 Total	720	3,216	6,599	2,869	181	68	264	2,099	397	771	3,267	6,649
2007 Total	978	3,461	6,509	2,446	186	76	341	2,070	413	991	3,474	6,523
2008 Total	1,387	3,864	7,202	2,511	192	89	546	2,040	436	1,372	3,849	7,186
2009 Total	1,584	3,928	7,616	2,669	200	98	721	1,891	453	1,568	3,912	7,600
2010 January	152	359	672	218	18	10	67	168	39	142	349	662
February	142	332	610	201	16	9	53	154	35	136	326	605
March	158	366 351	682	204	18 17	10 10	84 95	168 160	40 39	149 149	357	673
April	152 157	358	661 717	186 245	18	11	95 85	162	39	155	348 356	657 715
May June	152	355	753	291	17	11	79	164	39	155	357	755
July	158	367	701	239	17	11	66	170	40	158	368	701
August	160	371	662	196	18	11	65	171	40	159	370	660
September	156	360	626	168	17	11	69	166	38	153	357	622
October	163	369	646	173	17	10	77	166	39	160	366	643
November	164	369	682	191	17	10	95	165	40	157	363	676
December	168	383	726	226	18	10	88	174	41	163	377	720
Total	1,884	4,341	8,136	2,539	208	126	923	1,988	469	1,837	4,294	8,090
2011 January	R 169	R 382	754	255	20	12	84	174	40	R 153	367	R 738
February	R 151	R 343	R 716	241	18	12	103	156	36	R 145	R 336	R 709
March	171	377	822 R 000	310	20	13	103	166	40	160	366 R 350	811 P.044
April	163 ^R 170	359 ^R 370	^R 820 840	309 323	18 19	13 14	121 114	158 160	38 40	154 ^R 164	R 364	^R 811 ^R 834
May June	R 168	R 376	R 829	315	19	14	106	168	40	R 168	R 375	R 828
July	R 171	R 383	R 796	308	19	14	72	171	41	162	374	787
August	R 174	R 383	R 745	257	19	14	72	169	41	R 174	R 383	744
September	R 166	371	^R 679	210	18	13	67	165	40	160	R 364	R 672
October	176	379	R 710	195	19	14	104	163	40	167	370	R 701
November	R 178	382	742	209	19	12	121	164	41	R 167	R 372	R 732
December	186	403	R 778	241	19	13	102	175	42	R 176	R 393	R 768
Total	R 2,044	R 4,509	R 9,233	3,171	226	158	1,168	1,987	477	R 1,948	R 4,413	R 9 ,137
2012 January	177	389	792	233	19	15	135	173	40	154	367	769
February	164	362	705	203	18	15	108	161	37	152	350	694
March	172	372 357	797 776	256 261	19 18	16 17	132 123	161	40 40	163 160	364 353	788 772
April May	164 173	357 377	819	283	18	17	123	153 164	40 40	172	353 376	773 819
June	165	367	783	263	19	19	115	162	40	164	365	782
6-Month Total	1,014	2,224	4,673	1,501	114	101	734	973	237	966	2,176	4,625
2011 6-Month Total	993	2,207	4 700	1.752	113	70	604					4 700
ZUTTO-WORTH TOTAL		2.207	4.782	1./32	113	78	631	981	233	944	2,158	4,732

^a Production equals consumption for all renewable energy sources except

biofuels.

^b Total biomass inputs to the production of fuel ethanol and biodiesel.

^c Wood and wood-derived fuels, biomass waste, and total biomass inputs to the production of fuel ethanol and biodiesel.

d Hydroelectric power, geothermal, solar thermal/photovoltaic, wind, and

d Hydroelectric power, geomerman, solar uromace, biomass.

^e Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

^f Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and geothermal heat pump and direct use energy.

^g Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and solar thermal direct use energy.

^h Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

ⁱ Wood and wood-derived fuels.

^j Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels).

k Fuel ethanol (minus denaturant) and biodiesel consumption, plus losses and co-products from the production of fuel ethanol and biodiesel.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • Most data for the residential, commercial, industrial, and transportation sectors are estimates. See notes and sources for Tables 10.2a and 10.2b. • See Note, "Renewable Energy Production and Consumption," 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/#renewable for all available data beginning in 1973. Sources: Tables 10.2a–10.4.

Table 10.2a Renewable Energy Consumption: Residential and Commercial Sectors (Trillion Btu)

		Reside	ntial Sector					Co	mmercial	Sectora			
			Biomass		Hydro-					Bio	mass		
	Geo- thermal ^b	Solar/ PV ^C	Woodd	Total	electric Power ^e	Geo- thermal ^b	Solar/ PV ^f	Wind ⁹	Woodd	Wasteh	Fuel Ethanol ⁱ	Total	Total
1973 Total	NA	NA	354	354	NA	NA	NA	NA	7	NA	NA	7	7
1975 Total	NA	NA	425	425	NA	NA	NA	NA	8	NA	NA	8	8
1980 Total	NA	NA	850	850	NA	NA	NA	NA	21	NA	NA	21	21
1985 Total	NA	NA	1,010	1,010	NA	NA	NA	NA	24	NA	(s)	24	24
1990 Total	6	56	580	641	1	3	-	-	66	28	(s)	94	98
1995 Total	7	64	520	591	1 1	5	-	-	72	40	(s)	113	118
1996 Total	7	65	540	612	1	5	-	-	76	53	(s)	129	135
1997 Total	8	64	430	502	1	6	-	-	73	58	(s)	131	138
1998 Total	8	64	380	452	1	7	_	_	64	54	(s)	118	127
1999 Total	9 9	63	390	461	1	7			67	54	(s)	121	129 128
2000 Total	9	61	420 370	489	1	8	-	_	71	47	(s)	119	
2001 Total	10	59 57	370 380	438 448	1 (2)	8 9	_	_	67 69	25 26	(s)	92 95	101 104
2002 Total 2003 Total	13	57 57	400	446 470	(s)	11	Ξ	Ξ	71	26 29	(s) 1	101	113
	14	57 57	400 410	470 481		12	Ξ	Ξ	70	29 34	1	105	118
2004 Total 2005 Total	16	58	430	504	1	14	_	_	70 70	34	i	105	120
2006 Total	18	63	380	462	1	14	_	_	65	36	i	103	118
2007 Total	22	70	410	502		14	_	_	70	31	2	103	118
2008 Total	26	80	450	557	i	15	(s)	_	73	34	2	109	125
2009 Total	33	89	430	552	i	17	(s)	(s)	72	36	3	112	129
2010 January	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
February	3	9	32	44	(s)	1	(s)	(s)	5	3	(s)	8	10
March	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
April	3	9	35	47	(s)	2	(s)	(s)	6	3	(s)	9	11
May	3	10	36	48	(s)	2	(s)	(s)	6	4	(s)	10	12
June	3	9	35	47	(s)	2	(s)	(s)	6	3	(s)	9	11
July	3	10	36	48 48	(s)	2	(s)	(s)	6	3 3	(s)	9 10	11
August	3 3	10 9	36 35	48 47	(s)	2 2	(s)	(s)	6 6	3	(s)	9	11 11
September	3	10	35 36	47 48	(s)	2	(s)	(s)	6	3	(s)	9	11
October November	3	9	35	46 47	(s) (s)	2	(s)	(s) (s)	6	3	(s) (s)	9	10
December	3	10	36	48		2	(s) (s)	(s)	6	3	(s)	9	11
Total	37	114	420	571	(s)	19	(s)	(s)	72	36	3	111	130
10tal	31	114	420	3/1	'	19	(5)	(5)	12	30	3		130
2011 January	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
February	3	11	33	47	(s)	2	(s)	(s)	5	3	(s)	9	10
March	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
April	3	12	35	50	(s)	2	(s)	(s)	6	3	(s)	9	10
May	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
June	3	12	35	50	(s)	2	(s)	(s)	6	3	(s)	9	11
July	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
August	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
September	3	12	35	50	(s)	2	(s)	(s)	6	3	(s)	9	11
October	3	12	37	52 50	(s)	2 2	(s)	(s)	6	3	(s)	9	11
November	3 3	12 12	35		(s)	2	(s)	(s)	6	3	(s)	9	11
December Total	40	140	37 430	52 610	(s)	20	(s) (s)	(s) (s)	6 71	3 36	(s) 3	10 110	11 131
2012 January	3	14	36	54	(s)	2	(s)	(s)	6	3	(s)	9	11
February	3	13	34	51	(s)	2	(s)	(s)	6	3	(s)	9	10
March	3	14	36	54	(s)	2	(s)	(s)	6	3	(s)	9	11
April	3	14	35	52	(s)	2	(s)	(s)	6	3	(s)	9	11
May	3	14	36	54	(s)	2	(s)	(s)	6	3	(s)	9	11
June	3	14	35	52	(s)	2	(s)	(s)	6	6	(s)	12	14
6-Month Total	20	84	214	318	(s)	10	(s)	(s)	35	20	2	57	67
2011 6-Month Total 2010 6-Month Total	20 18	70 57	213 208	303 283	1	10 9	(s) (s)	(s) (s)	35 35	17 19	2 2	54 56	64 65

^a Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
^b Geothermal heat pump and direct use energy.

tire-derived fuels).

i The fuel ethanol (minus denaturant) portion of motor fuels, such as E10, consumed by the commercial sector.

NA=Not available. -=No data reported. (s)=Less than 0.5 trillion Btu.

Notes:

Notes:

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

Geographic coverage is the 50 States and the District of Columbia District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 1973.

Sources: See end of section.

Geothermal heat pump and direct use energy.
 Solar thermal direct use energy, and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 Includes distributed solar thermal and PV energy used in the commercial, industrial, and electric power sectors.

Wood and wood-derived fuels.

^e Conventional hydroelectricity net generation (converted to Btu using the

Convertional hydroectricity net generation (converted to bit using the fossil-fuels heat rate—see Table A6).

† Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at commercial plants with capacity of 1 megawatt or greater.

§ Wind electricity net generation (converted to Btu using the fossil-fuels heat

rate—see Table A6).

h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

Table 10.2b Renewable Energy Consumption: Industrial and Transportation Sectors (Trillion Btu)

					Industri	al Sectora					Trans	portation	Sector
							Biomass					Biomass	
	Hydro- electric Power ^b	Geo- thermal ^c	Solar/ PV ^d	Wind ^e	Wood ^f	Waste ^g	Fuel Ethanol ^h	Losses and Co- products ⁱ	Total	Total	Fuel Ethanol ^j	Bio- diesel	Total
1973 Total 1975 Total 1980 Total	35 32 33	NA NA NA	NA NA NA	NA NA NA	1,165 1,063 1,600	NA NA NA	NA NA NA	NA NA NA	1,165 1,063 1,600	1,200 1,096 1,633	NA NA NA	NA NA NA	NA NA NA
1985 Total 1990 Total 1995 Total	33 31 55	NA 2 3	NA _ _	NA - -	1,645 1,442 1,652	230 192 195	1 1 2	42 49 86	1,918 1,684 1,934	1,951 1,717 1,992	50 60 112	NA NA NA	50 60 112
1996 Total 1997 Total 1998 Total	61 58 55	3 3 3	=	<u>-</u>	1,683 1,731 1,603	224 184 180	1 1 1	61 80 86	1,969 1,996 1,872	2,033 2,057 1,929	81 102 113	NA NA NA	81 102 113
1999 Total 2000 Total 2001 Total	49 42 33	4 4 5	=	=	1,620 1,636 1,443	171 145 129	1 1 3	90 99 108	1,882 1,881 1,681	1,934 1,928 1,719	118 135 141	NA NA 1	118 135 142
2002 Total 2003 Total 2004 Total	39 43 33	5 3 4	=	=	1,396 1,363 1,476	146 142 132	3 4 6	130 169 203	1,676 1,679 1,817	1,720 1,726 1,853	168 228 286	2 2 3	170 230 290
2005 Total	32 29 16	4 4 5	- - -	=	1,452 1,472 1,405	148 130 144	7 10 10	230 285 377	1,837 1,897 1,936	1,873 1,930 1,956	327 442 557	12 33 46	339 475 602
2008 Total 2009 Total	17 18	5 4	_	_	1,340 1,208	144 155	12 13	532 617	2,028 1,994	2,049 2,016	786 894	40 42	826 935
2010 January February	2 2 2	(s) (s)	(s) (s)	_ _ _	109 100 110	15 13 15	1 1 1	60 56 62	185 170 188	187 172 190	81 76 83	(s) 3 2	81 79 85
March April May	2 2 2 1	(s) (s) (s)	(s) (s) (s)	_ _ _ _	105 106 107	15 15 14 13	1 1 2	60 62 60	181 183 182	183 185 183	84 89 90	4 3 2	87 92 93
June July August	1 1 1	(s) (s) (s)	(s) (s) (s)	_ _ _	107 111 111 110	13 14 14 13	2 2 2 1	62 63 61	188 190 185	190 191 187	91 91 86	3 3 4	94 94 90
September October November	i 1	(s) (s)	(s) (s) (s)	_	110 110 108 114	15 15 15	2 1 2	64 65	190 190 198	192 191 199	91 88 92	3 3 3	94 91 94
December Total	1 16	(s) 4	(s) (s)	_	1,301	169	17	67 742	2,230	2,250	1,040	34	1,074
2011 January February March	1 2 2	(s) (s) (s)	(s) (s) (s)	(s) (s) (s)	115 102 109	15 14 14	1 1 1	66 59 ^R 65	197 176 190	199 178 _ 192	R 82 R 80 _ 87	3 4 6	86 R 84 _ 93
April May June	2 2 1	(s) (s) (s)	(s) (s) (s)	(s) (s) (s)	105 105 112	14 14 14	1 2 2	62 R 64 63	182 185 ^R 191	R 184 187 192	R 82 90 92	8 R 8 R 10	R 90 R 98 102
July August September	1 1 1	(s) (s) (s)	(s) (s) (s)	(s) (s) (s)	112 110 109	14 14 14	1 2 1	64 65 62	192 191 187	R 193 192 188	R 86 R 95 83	R 10 R 12 R 13	96 R 107 R 96
October November December Total	1 1 2 18	(s) (s) (s)	(s) (s) (s) (s)	(s) (s) (s) (s)	107 110 116 1,311	15 15 15 172	1 1 2 17	65 66 69 ^R 771	R 188 192 202 R 2,272	190 194 204 R 2,294	89 R 86 R 91 R 1,044	R 11 13 R 14 R 113	100 R 99 R 105 R 1,157
2012 January	2	(s)	(s)	(s)	114	15	1	67	197	199	81	5	86
February March April	2 2 2	(s) (s) (s)	(s) (s) (s)	(s) (s) (s)	106 104 101	14 14 14	1 1 1	61 64 61	183 184 178	185 186 180	82 87 86	8 10 11	89 98 98
May June 6-Month Total	2 1 10	(s) (s) 2	(s) (s) (s)	(s) 1 1	108 106 641	14 14 86	2 2 9	64 61 378	188 183 1,113	190 185 1,126	93 90 519	14 11 59	107 101 578
2011 6-Month Total 2010 6-Month Total	10 10	2 2	(s) (s)	(s) -	647 637	85 84	9 8	380 359	1,120 1,088	1,132 1,100	514 502	40 15	554 517

a Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

b Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

c Geothermal heat pump and direct use energy.
d Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at industrial plants with capacity of 1 megawatt or greater.

Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
f Wood and wood-derived fuels.
g Municipal solid waste from biogenic sources landfill gas sludge waste.

consumed by the industrial sector.

⁹ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
^h The fuel ethanol (minus denaturant) portion of motor fuels, such as E10,

Losses and co-products from the production of fuel ethanol and biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol and biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source.

i The fuel ethanol (minus denaturant) portion of motor fuels, such as E10 and E85, consumed by the transportation sector.

R=Revised. NA=Not available. - =No data reported. (s)=Less than 0.5 trillion

Notes: • Data are estimates, except for industrial sector hydroelectric power in 1973-1978 and 1989 forward, solar/PV, and wind. • 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/#renewable for all available data beginning in 1973.

Sources: See end of section.

Table 10.2c Renewable Energy Consumption: Electric Power Sector

(Trillion Btu)

Power\$ thermal\$ Solar/FVC Wind\$ Wood\$ Waste\$ Total Tot		Hydro- electric	Geo-				Biomass		
975 Total				Solar/PV ^c	Wind ^d	Woode	Waste ^f	Total	Total
978 Total	973 Total	2 827	20	NΔ	NΔ	1	2	3	2.851
980 Total									3,158
985 Total							2		2.925
990 Total									
995 Total	900 T-1-10								
996 Total	990 Total9								
997 Total	995 Total								3,747
998 Total	996 Total								4,153
999 Total 3,218 152 5 46 138 315 453 3,8 001 Total 2,768 144 5 57 134 318 453 3,4 001 Total 2,209 142 6 70 126 211 337 2,7 002 Total 2,650 147 6 105 150 230 380 3,2 2,003 Total 2,781 148 5 1115 167 230 397 3,4 004 Total 2,556 148 6 142 165 223 388 3,3 005 Total 2,670 147 6 178 185 223 388 3,3 005 Total 2,670 147 6 178 185 223 388 3,3 005 Total 2,670 147 6 178 185 223 388 3,3 005 Total 2,670 147 6 178 185 223 388 3,3 005 Total 2,670 147 6 178 185 221 406 3,4 006 Total 2,830 145 5 5 284 186 221 406 3,4 006 Total 2,494 146 9 546 186 223 142 356 009 Total 2,494 146 9 546 177 258 455 3,6 009 Total 2,494 146 9 721 180 261 441 3,9 009 Total 2,494 146 9 721 180 261 441 3,9 009 Total 2,494 146 9 721 180 261 441 3,9 009 Total 2,494 146 146 9 721 180 261 441 3,9 009 Total 2,494 146 146 9 721 180 261 441 3,9 009 Total 2,494 146 146 146 146 146 146 146 146 146 14	997 Total								4,216
000 Total									3,872
001 Total		3,218				138	315		3,874
002 Total	000 Total	2,768	144		57	134	318	453	3,427
003 Total		2,209	142	6	70	126	211	337	2,763
003 Total	002 Total	2.650	147	6	105	150	230	380	3.288
004 Total			148	5	115	167	230	397	3,445
005 Total 2,670 147 6 178 185 221 406 3,4 007 Total 2,839 145 5 264 182 231 412 3,6 007 Total 2,430 145 6 341 186 237 423 3,3 009 Total 2,650 146 9 546 177 258 435 3,6 009 Total 2,650 146 9 721 180 261 441 3,9 010 January 217 13 (s) 53 16 20 36 3 February 199 11 (s) 553 16 20 36 3 March 202 13 1 84 16 22 39 3 April 184 12 1 95 15 21 36 3 July 238 12 2 66 17 23				6					3,340
006 Total 2,839 145 5 264 182 231 412 3,6 007 Total 2,430 145 6 341 186 237 423 3,3 008 Total 2,494 146 9 546 177 258 435 3,6 009 Total 2,650 146 9 721 180 261 441 3,9 100 January 217 13 (s) 67 17 21 39 3 February 199 11 (s) 53 16 20 36 3 March 202 13 1 84 16 22 39 3 March 201 184 12 1 95 15 21 36 3 July 243 13 1 85 14 22 36 3 July 228 12 2 66 17 23	005 Total								3,406
007 Total 2,430 145 6 341 186 237 423 3,3 009 Total 2,650 146 9 546 177 258 435 3,6 009 Total 2,650 146 9 721 180 261 441 3,9 010 January 217 13 (s) 67 17 21 39 3 February 199 11 (s) 553 16 20 36 3 March 202 13 1 84 16 22 39 3 April 184 12 1 95 15 21 36 3 May 243 13 1 85 14 22 36 3 July 238 12 2 26 66 17 23 40 3 September 168 12 1 69 16 22 <	006 Total								3,665
008 Total 2,494 146 9 546 177 258 435 3,6 0910 Total 2,650 146 9 721 180 261 441 3,9 0910 January 217 13 (s) 67 17 21 39 3 February 199 11 (s) 53 16 20 36 3 April 184 12 1 95 15 21 36 3 May 243 13 1 85 14 22 36 3 July 238 12 2 2 79 16 23 39 4 July 238 12 2 66 17 23 40 3 July 238 12 2 66 17 23 40 3 July 238 12 2 66 17 23 41 <									
009 Total 2,650 146 9 721 180 261 441 3,9 010 January 217 13 (s) 67 17 21 39 3 February 199 11 (s) 53 16 20 36 3 March 202 13 1 84 16 22 39 3 April 184 12 1 95 15 21 36 3 May 243 13 1 85 14 22 36 3 June 290 12 2 2 66 17 23 40 3 June 238 12 2 2 66 17 23 40 3 September 168 12 1 69 16 22 38 2 October 171 12 1 777 15 22 37 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
1010 January	008 Total								
February	009 Total	2,650	146	9	721	180	261	441	3,967
March 202 13 1 84 16 22 39 3 April 184 12 1 95 15 21 36 3 May 243 13 1 85 14 22 36 3 June 290 12 2 79 16 23 39 4 July 238 12 2 66 17 23 40 3 August 195 13 2 65 18 23 41 3 September 168 12 1 69 16 22 38 2 October 171 12 1 77 15 22 37 2 November 190 12 1 95 16 23 39 3 December 225 13 (s) 88 17 23 41 3 To									335
April 184 12 1 95 15 21 36 3 3 May 243 13 13 1 85 14 22 36 3 39 4 June 290 12 2 79 16 23 39 4 July 238 12 2 66 17 23 40 3 3 September 168 12 1 69 16 22 38 2 COtober 171 12 1 77 15 22 37 2 November 190 12 1 95 13 (s) 8 17 23 41 3 5 Cotober 251 148 12 923 196 264 459 4,0 101 January 254 14 (s) 84 16 21 38 3 3 4 5 Cotober 252 13 (s) 84 16 21 38 3 3 6 February 239 13 1 103 15 20 35 38 4 April 307 13 2 11 103 15 23 38 4 April 307 13 2 11 103 15 23 38 4 April 307 13 2 11 14 2 11 13 13 22 35 4 June 313 13 13 2 106 15 23 38 4 August 256 13 2 72 16 23 39 3 3 3 September 250 13 3 1 1 103 15 23 38 4 April 307 13 2 106 15 23 38 4 August 256 13 2 72 16 23 39 39 3 3 September 250 13 13 13 2 72 16 23 39 38 4 August 256 13 2 72 16 23 38 4 August 256 13 2 72 16 23 38 4 August 256 13 2 72 16 23 38 3 August 256 13 2 72 16 23 39 3 3 September 209 13 2 67 15 22 37 33 September 209 13 2 67 15 22 37 33 September 209 13 2 67 15 22 37 33 September 209 13 2 67 15 22 37 3 September 209 13 2 67 15 22 37 33 September 209 13 2 67 15 22 37 33 September 209 13 1 100 13 2 3 36 3 September 209 13 1 100 13 2 3 36 3 September 209 13 11 100 13 23 36 36 33 November 207 13 11 100 13 23 36 36 3 November 207 13 11 100 13 2 16 23 39 3 September 209 13 11 100 13 2 3 36 36 3 September 209 13 11 100 13 23 36 36 3 September 209 13 11 100 13 23 36 36 3 September 209 13 11 100 13 23 36 36 3 September 209 14 1 100 13 23 36 36 3 September 209 13 11 100 13 23 36 36 3 September 209 13 11 100 13 23 36 36 3 September 209 14 1 100 13 23 36 36 3 September 209 14 1 100 13 23 33 36 36 3 September 209 14 1 100 13 23 33 36 36 3 September 209 13 2 2 10 10 13 23 36 36 3 September 209 13 2 2 10 10 13 23 33 36 36 3 September 209 13 2 2 10 10 13 23 33 36 36 3 September 209 13 2 2 10 10 13 23 33 36 36 3 September 209 13 2 2 10 10 13 23 33 36 36 3 September 209 13 2 2 10 10 13 23 33 36 36 3 September 209 13 2 2 10 10 13 23 33 36 36 33 September 209 13 2 2 10 10 13 23 33 36 36 33 September 209 14 1 100 100 13 23 33 36 36 33 September 209 14 1 100 100 110 110 110 110 110 110 11	February	199	11	(s)	53	16	20		300
May 243 13 1 85 14 22 36 3 June 290 12 2 79 16 23 39 4 July 238 12 2 66 17 23 40 3 August 195 13 2 65 18 23 41 3 September 168 12 1 69 16 22 38 2 October 171 12 1 77 15 22 37 2 November 190 12 1 95 16 23 39 33 20 225 13 (s) 88 17 23 41 3 December 225 13 (s) 84 16 21 38 3 Total 2,521 148 12 923 196 264 459 4,0 11 January<	March	202	13	1	84	16	22	39	338
May 243 13 1 85 14 22 36 3 June 290 12 2 79 16 23 39 4 July 238 12 2 66 17 23 40 3 August 195 13 2 65 18 23 41 3 September 168 12 1 69 16 22 38 2 October 171 12 1 77 15 22 37 2 November 190 12 1 95 16 23 39 3 December 225 13 (s) 88 17 23 41 3 Total 2,521 148 12 923 196 264 459 4,0 101 January 254 14 (s) 84 16 21 38 3 <	April	184	12	1	95	15	21	36	329
Juné 290 12 2 79 16 23 39 4 July 238 12 2 66 17 23 40 3 August 195 13 2 65 18 23 41 3 September 168 12 1 69 16 22 38 2 October 171 12 1 77 15 22 38 2 November 190 12 1 95 16 23 39 3 December 225 13 (s) 88 17 23 41 3 Total 2,521 148 12 923 196 264 459 4,0 011 January 254 14 (s) 84 16 21 38 3 February 239 13 1 103 15 20 35 3		243	13	1	85	14	22	36	378
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September 168 12 1 69 16 22 38 2 October 171 12 1 77 15 22 37 2 November 190 12 1 95 16 23 39 3 December 225 13 (s) 88 17 23 41 3 December 2,521 148 12 923 196 264 459 4,0 011 January 254 14 (s) 84 16 21 38 3 February 239 13 1 103 15 20 35 3 March 308 14 1 103 15 23 38 4 April 307 13 2 121 12 22 33 4 May 321 14 2 113 13 22 33 8									315
October 171 12 1 77 15 22 37 2 November 190 12 1 95 16 23 39 3 December 225 13 (s) 88 17 23 41 3 Total 2,521 148 12 923 196 264 459 4,0 011 January 254 14 (s) 84 16 21 38 3 February 239 13 1 103 15 20 35 3 March 308 14 1 103 15 20 35 3 April 307 13 2 121 12 22 33 4 May 311 14 2 113 13 2 106 15 23 38 4 July 307 13 2 106 15 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>288</td></t<>									288
November 190 12 1 95 16 23 39 3 December 225 13 (s) 88 17 23 41 3 Total 2,521 148 12 923 196 264 459 4,0 011 January 254 14 (s) 84 16 21 38 3 February 239 13 1 103 15 20 35 3 March 308 14 1 103 15 23 38 4 April 307 13 2 121 12 22 33 4 May 321 14 2 113 13 22 22 33 4 July 307 13 2 106 15 23 38 4 July 307 13 2 72 16 24 40 4									298
December 225 13 (s) 88 17 23 41 3 Total 2,521 148 12 923 196 264 459 4,0 011 January 254 14 (s) 84 16 21 38 3 February 239 13 1 103 15 20 35 3 March 308 14 1 103 15 20 35 3 April 307 13 2 121 12 22 33 4 April 307 13 2 113 13 22 35 4 June 313 13 2 106 15 23 38 4 July 307 13 2 72 16 24 40 4 July 307 13 2 72 16 23 39 3 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>337</td></t<>									337
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Olt January 254 14 (s) 84 16 21 38 3 February 239 13 1 103 15 20 35 3 March 308 14 1 103 15 23 38 4 April 307 13 2 121 12 22 33 4 May 321 14 2 113 13 22 35 4 June 313 13 2 106 15 23 38 4 July 307 13 2 72 16 24 40 4 July 307 13 2 72 16 24 40 4 August 256 13 2 72 16 23 39 3 September 209 13 2 67 15 22 37 3 <	Tetal								
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April 307 13 2 121 12 22 33 4 May 321 14 2 113 13 22 35 4 June 313 13 2 106 15 23 38 4 July 307 13 2 72 16 24 40 4 August 256 13 2 72 16 23 39 3 September 209 13 2 67 15 22 37 3 October 194 14 2 104 13 23 36 3 November 207 13 1 120 13 23 36 3 December 239 14 1 102 16 23 39 3 Total 3,153 163 18 1,168 175 269 444 4,9 012 January 232 14 1 135 16 22 38 4 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>390</td>									390
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June 313 13 2 106 15 23 38 4 July 307 13 2 72 16 24 40 4 August 256 13 2 72 16 23 39 3 September 209 13 2 67 15 22 37 3 October 194 14 2 104 13 23 36 3 November 207 13 1 120 13 23 36 3 November 239 14 1 102 16 23 39 3 Total 3,153 163 18 1,168 175 269 444 4,9 012 January 232 14 1 135 16 22 38 4 February 201 13 1 108 15 21 35 3 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>476</td>									476
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September 209 13 2 67 15 22 37 3 October 194 14 2 104 13 23 36 3 November 207 13 1 120 13 23 36 3 December 239 14 1 102 16 23 39 3 Total 3,153 163 18 1,168 175 269 444 4,9 012 January 232 14 1 135 16 22 38 4 February 201 13 1 108 15 21 35 3 March 255 14 2 132 14 23 37 4 April 259 13 3 123 11 22 33 4 May 281 14 4 121 13 23 36 4 <		256	13		72	16	23	39	383
October 194 14 2 104 13 23 36 3 November 207 13 1 120 13 23 36 3 December 239 14 1 102 16 23 39 3 Total 3,153 163 18 1,168 175 269 444 4,9 012 January 232 14 1 135 16 22 38 4 February 201 13 1 108 15 21 35 3 March 255 14 2 132 14 23 37 4 April 259 13 3 123 11 22 33 4 May 281 14 4 121 13 23 36 4 June 263 14 5 114 15 20 34 4			13		67	15		37	327
November 207 13 1 120 13 23 36 3 December 239 14 1 102 16 23 39 3 Total 3,153 163 18 1,168 175 269 444 4,9 012 January 232 14 1 135 16 22 38 4 February 201 13 1 108 15 21 35 3 3 March 255 14 2 132 14 23 37 4 April 259 13 3 123 11 22 33 4 May 281 14 4 121 13 23 36 4 June 263 14 5 114 15 20 34 4 6-Month Total 1,491 82 16 733 83 131 214 2,5	October								349
December 239 14 1 102 16 23 39 3 Total 3,153 163 18 1,168 175 269 444 4,9 012 January 232 14 1 135 16 22 38 4 February 201 13 1 108 15 21 35 3 March 255 14 2 132 14 23 37 4 April 259 13 3 123 11 22 33 4 May 281 14 4 121 13 23 36 4 June 263 14 5 114 15 20 34 4 6-Month Total 1,491 82 16 733 83 131 214 2,5									377
Total 3,153 163 18 1,168 175 269 444 4,9 012 January 232 14 1 135 16 22 38 4 February 201 13 1 108 15 21 35 3 March 255 14 2 132 14 23 37 4 April 259 13 3 123 11 22 33 4 May 281 14 4 121 13 23 36 4 June 263 14 5 114 15 20 34 4 6-Month Total 1,491 82 16 733 83 131 214 2,5									396
012 January 232 14 1 135 16 22 38 4 February 201 13 1 108 15 21 35 3 March 255 14 2 132 14 23 37 4 April 259 13 3 123 11 22 33 4 May 281 14 4 121 13 23 36 4 June 263 14 5 114 15 20 34 4 6-Month Total 1,491 82 16 733 83 131 214 2,5									4,945
February 201 13 1 108 15 21 35 3 March 255 14 2 132 14 23 37 4 April 259 13 3 123 11 22 33 4 May 281 14 4 121 13 23 36 4 June 263 14 5 114 15 20 34 4 6-Month Total 1,491 82 16 733 83 131 214 2,5	10tai	3,133	103	10	1,100	175	209	444	4,343
March 255 14 2 132 14 23 37 4 April 259 13 3 123 11 22 33 4 May 281 14 4 121 13 23 36 4 June 263 14 5 114 15 20 34 4 6-Month Total 1,491 82 16 733 83 131 214 2,5									420
April 259 13 3 123 11 22 33 4 May 281 14 4 121 13 23 36 4 June 263 14 5 114 15 20 34 4 6-Month Total 1,491 82 16 733 83 131 214 2,5	repruary								359
May 281 14 4 121 13 23 36 4 June 263 14 5 114 15 20 34 4 6-Month Total 1,491 82 16 733 83 131 214 2,5									440
June 263 14 5 114 15 20 34 4 6-Month Total 1,491 82 16 733 83 131 214 2,5									432
6-Month Total 1,491 82 16 733 83 131 214 2,5									457
									429
011 6-Month Total 1,741 82 8 631 86 131 217 2.6	6-Month Total	1,491	82	16	733	83	131	214	2,536
									2,679 2,101

^a Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

^b Geothermal electricity net generation (converted to Btu using the fossil-fuels

Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

Wood and wood-derived fuels

e Wood and wood-derived fuels.

f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels).

g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

NA=Not available. (s)=Less than 0.5 trillion Btu.

The electric nower sector comprises electricity-only and

Notes: • 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. • 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/#renewable for all available data beginning in 1973.

Sources: • Biomass: Table 7.4b. • All Other Data: Tables 7.2b and A6.

Table 10.3 Fuel Ethanol Overview

1981 Total 1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total 1999 Total	Feed-stock ^a TBtu 13 93 111 198 141 186	Losses and Coproducts ^b TBtu 6 42 49 86	Denaturant ^c Mbbl 40 294	Mbbl	moduction ^d MMgal	TBtu	Net Imports ^e	Stocks ^{d,f}	Stock Change ^{d,g}	Coi	nsumption	d	tion Minus
1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total	13 93 111 198 141 186	6 42 49	40 294		MMgal	TBtu			_		ioumption.	'	Denaturant ^h
1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total	93 111 198 141 186	42 49	294	1,978			Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu	TBtu
1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total	111 198 141 186	49			83	7	NA.	NA	NA	1,978	83	7	7
1995 Total 1996 Total 1997 Total 1998 Total 1999 Total	198 141 186			14,693	617	52	NA	NA	NA	14,693	617	52	51
1996 Total 1997 Total 1998 Total 1999 Total	141 186	86	356	17,802	748	63	NA	NA	NA	17,802	748	63	62
1997 Total 1998 Total 1999 Total	186		647	32,325	1,358	115	387	2,186	-207	32,919	1,383	117	114
1998 Total 1999 Total		61	464	23,178	973	83	313	2,065	-121	23,612	992	84	82
1999 Total	202	80	613	30,674	1,288	109	85	2,925	860	29,899	1,256	107	104
1999 Total	202	86	669	33,453	1,405	119	66	3,406	481	33,038	1,388	118	115
2000 Total	211	90	698	34,881	1,465	124	87	4,024	618	34,350	1,443	122	119
2000 TOtal	233	99	773	38,627	1,622	138	116	3,400	-624	39,367	1,653	140	137
2001 Total	253	108	841	42,028	1,765	150	315	4,298	898	41,445	1,741	148	144
2002 Total	307	130	1,019	50,956	2,140	182	306	6,200	1,902	49,360	2,073	176	171
2003 Total	400	169	1,335	66,772	2,804	238	292	5,978	-222	67,286	2,826	240	233
2004 Total	484	203	1,621	81,058	3,404	289	3,542	6,002	24	84,576	3,552	301	293
2005 Total	552	230	1,859	92,961	3,904	331	3,234	5,563	-439	96,634	4,059	344	335
2006 Total	688	285	2,326	116,294	4,884	414	17,408	8,760	3,197	130,505	5,481	465	<i>4</i> 53
2007 Total	914	376	3,105	155,263	6,521	553	10,457	10,535	1,775	163,945	6,886	584	569
2008 Total	1,300	531	4,433	221,637	9,309	790	12,610	14,226	3,691	230,556	9,683	821	800
2009 Total	1,517	616	5,688	260,424	10,938	928	4,720	16,594	2,368	262,776	11,037	936	910
2010 January	149	60	541	25,625	1,076	91	-234	18,251	1,657	23,734	997	85	82
February	138	56	496	23,802	1,000	85	-482	19,297	1,046	22,274	936	79	77
March	154	62	537	26,486	1,112	94	-1,104	20,222	925	24,457	1,027	87	85
April	147	59	522	25,384	1,066	90	-927	20,042	-180	24,637	1,035	88	85
May	152	61	534	26,244	1,102	93	-368	19,851	-191	26,067	1,095	93	90
June	149	60	522	25,632	1,077	91	-341	18,565	-1,286	26,577	1,116	95	92
July	154	62	543	26,584	1,117	95	-578	17,809	-756	26,762	1,124	95	93
August	157	63	538	26,964	1,132	96 93	-695	17,380	-429	26,698	1,121	95 90	93 88
September	152	61 64	533	26,221	1,101	93	-924	17,437	57 150	25,240	1,060		93
October	160		563 585	27,471	1,154	98	-830 -923	17,278	-159	26,800	1,126	95	93
November	161	65		27,747	1,165			18,150 17.941	872	25,952	1,090	92	
December	165	67 742	592 6,506	28,457	1,195 13,298	101	-1,711	17,941 17,941	-209 1,347	26,955	1,132	96	93
Total	1,839	742	6,506	316,617	,	1,127	-9,115	17,941	1,347	306,155	12,858	1,090	1,061
2011 January	165 R 146	66 59	581 535	R 28,467 R 25,300	R 1,196 R 1,063	R 101 90	-1,359 -1,425	R 20,826 R 21,016	^R 2,885 ^R 190	R 24,223 R 23.685	R 1,017 R 995	^R 86 ^R 84	^R 84 ^R 82
February	163	65	548	R 28,178	R 1,183	100	-2,003	R 21,593	R 577	R 25,598	R 1,075	91	89
March	154	62	R 508	R 26,538	R 1,183	R 94	-2,003	R 21,065	R -528	R 24,201	R 1,075	R 86	R 84
April	R 160	62 64	R 550	R 27,720	R 1,115	99	-2,005	R 20,609	R -456	26,433	1,110	94	92
May	R 158	63	R 540	R 27,720	R 1,164	R 97	-1,743	R 19,217	R -1,392	R 27,083	R 1,110	94	92 94
June	R 159	64	555	R 27,541	R 1,143	98	-2,731	R 18,788	R -429	R 25,239	R 1,060	R 90	R 88
July	R 162	65	575	R 27,976	R 1,137	100	R-665	R 18,123	R -665	R 27,976	R 1,175	100	97
August September	154	62	525	R 26,588	R 1,175	95	R -1,745	R 18,465	R 342	R 24,501	R 1,175	R 87	R 85
October	R 162	65	557	R 28,013	R 1,177	100	-2,388	R 18,038	R -427	R 26,052	R 1,029	93	90
November	164	66	573	R 28,383	R 1,177	100	R -2,911	R 18,308	R 270	R 25,202	R 1,058	R 90	R 87
December	172	69	R 602	R 29,718	R 1,248	106	R -2,997	R 18,238	R -70	R 26.791	R 1,125	R 95	R 93
Total	R 1,919	R 769	R 6,649	R 331,646	R 13,929	R 1,181	R -24,365	R 18,238	R 297	R 306,984	R 12,893	R 1,093	R 1,065
2012 January	167	67	583	29,063	1,221	103	-1,789	21,753	ⁱ 3,492	23,782	999	85	82
February	154	61	528	26,653	1,119	95	-1,785	22,572	819	24,049	1,010	86	83
March	160	64	522	27,706	1,164	99	-1,626	22,952	380	25,700	1,079	91	89
April	152	61	494	26,368	1,107	94	-1.549	22,370	-582	25,401	1.067	90	88
May	160	64	520	27,718	1,164	99	-1,013	21,851	-519	27,224	1,143	97	95
June	154	61	503	26,611	1,118	95	-613	21,456	-395	26,393	1,109	94	92
6-Month Total	946	377	3,150	164,119	6,893	584	-8,375	21,456	3,195	152,549	6,407	543	530
2011 6-Month Total 2010 6-Month Total	946 890	379 359	3,262 3,152	163,427 153,173	6,864 6,433	582 545	-10,927 -3,455	19,217 18.565	1,276 1,971	151,224 147,747	6,351 6,205	538 526	525 512

^a Total corn and other biomass inputs to the production of undenatured ethanol

Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Fuel ethanol data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by the approximate heat content of fuel ethanol—see Table A3. • Through 1980, data are not variable. For 1981-1992, data are estimates. For 1993-2008, only data for feedstock, losses and co-products, and denaturant are estimates. Beginning in 2009, only data for feedstock, and losses and co-products, are estimates. • See "Denaturant," "Ethanol," "Fuel Ethanol," and "Fuel Ethanol Minus Denaturant" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all

available data beginning in 1981. Sources: See end of section.

used for fuel ethanol.

b Losses and co-products from the production of fuel ethanol. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol—these are included in the industrial sector consumption statistics for the appropriate energy source.

C The amount of denaturant in fuel ethanol produced.

d Includes denaturant.

e Through 2009, data are for fuel ethanol imports only; data for fuel ethanol exports are not available. Beginning in 2010, data are for fuel ethanol imports minus fuel ethanol exports.

Stocks are at end of period.

⁹ A negative value indicates a decrease in stocks and a positive value indicates

an increase.

h Consumption of fuel ethanol minus denaturant. Data for fuel ethanol minus denaturant are used to develop data for "Renewable Energy/Biomass" in Tables 10.1–10.2b, as well as in Sections 1 and 2.

i Derived from the preliminary 2011 stocks value (18,261 thousand barrels), not the final 2011 value (18,238 thousand barrels) that is shown under "Stocks." R=Revised. NA=Not available.

Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion

Table 10.4 Biodiesel Overview

							Trade							
	Feed- stock ^a	Losses and Co- products ^b	P	roduction		Imports	Exports	Net Imports ^c	Stocksd	Stock Change ^e	Bal- ancing Item ^f	Co	nsumptio	n
	TBtu	TBtu	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu
2001 Total	1	(s)	204	9	1	78	39	39	NA	NA	NA.	243	10	1
2002 Total	1	(s)	250	10	1	191	56	135	NA	NA	NA	385	16	2
2003 Total	2	(s)	338	14	2	94	110	-16	NA	NA	NA	322	14	2
2004 Total	4	(s)	666	28	4	97	124	-26	NA	NA	NA	640	27	3
2005 Total	12	(s)	2,162	91	12	207	206	1	NA	NA	NA	2,163	91	12
2006 Total	32	(s)	5,963	250	32	1,069	828	242	NA	NA	NA	6,204	261	33
2007 Total	63	1	11,662	490	62	3,342	6,477	-3,135	NA	NA	NA	8,528	358	46
2008 Total	88	1	16,145	678	87	7,502	16,128	-8,626	NA	NA	NA	7,519	316	40
2009 Total	67	1	12,281	516	66	1,844	6,332	-4,489	711	711	669	7,750	326	42
2010 January	3	(s)	633	27	3	41	296	-256	1,049	338	0	40	2	(s)
February	4	(s)	696	29 34	4	31	139	-108	1,039	-10	0	599	25	3
March	4	(s)	804	34 34	4	60 45	433 227	-374	1,057	18	0	412 680	17 29	2 4
April	4 4	(s) (s)	814 760	34 32	4 4	80	227 251	-182 -171	1,009 1,016	-48 7	0	582	29 24	3
May June	4	(s)	644	27	3	54	304	-249	968	-48		443	19	2
July	4	(s)	657	28	4	32	199	-167	830	-138	0	628	26	3
August	4	(s)	653	27	3	52	225	-173	771	-59	0	539	23	3
September	4	(s)	723	30	4	69	131	-62	682	-89	0	749	31	4
October	4	(s)	676	28	4	18	132	-114	650	-32	0	594	25	3
November	3	(s)	528	22	3	30	57	-27	676	26	l ŏ	475	20	3
December	3	(s)	588	25	3	34	109	-75	672	-4	l ō	517	22	3
Total	44	1	8,177	343	44	546	2,503	-1,958	672	-39	0	6,258	263	34
2011 January	5	(s)	842	35	5	49	217	-169	R 1,016	R 39	0	R 634	R 27	3
February	5	(s)	961	40	5	37	88	-51	R 1,217	^R 201	0	R 709	^R 30	4
March	8	(s)	1,419	60	8	53	197	-144	R 1,381	^R 164	0	R 1,111	R 47	6
April	9	(s)	1,692	71	9	52	222	-169	R 1,408	R 27	0	R 1,495	63	8
May	10	(s)	1,838	77	10	48	192	-144	R 1,576	R 168	0	R 1,526	R 64	R 8
June	11	(s)	1,938	81	10	48	117	-69	R 1,524	R -53	0	R 1,922	R 81	R 10 R 10
July	12	(s)	2,183	92	12	62	142	-80	R 1,748 R 1,834	^R 224 ^R 86	0	R 1,879	R 79 R 92	R 12
August September	12 12	(s) (s)	2,273 R 2,284	95 96	12 12	65 65	71 193	-7 -127	R 1,617	R -207	0	R 2,181 R 2,364	R 99	R 13
October	14	(s)	2,204	105	13	82	132	-127 -49	R 1,965	R 347		R 2,111	R 89	R 11
November	14	(s)	2,494	105	13	66	131	-65	R 1,877	R -87	l ő	R 2.516	R 106	13
December	14	(s)	2,604	109	14	234	39	195	R 2,012	R 135	l ő	R 2,664	R 112	R 14
Total	125	2	R 23,035	967	123	861	1,740	-879	R 2,012	R 1,045	ŏ	R 21,111	R 887	R 113
2012 January	9	(s)	1,700	71	9	44	248	-204	2,527	g 625	0	872	37	5
February	10	(s)	1,837	77	10	58	119	-62	2,869	342	0	1,433	60	8
March	12	(s)	2,193	92	12	55	149	-93	3,053	184	0	1,915	80	10
April	12	(s)	2,180	92	12	49	221	-171	2,932	-121	0	2,130	89	11
May	13	(s)	2,373	100	13	94	306	-212	2,514	-418	0	2,579	108	14
June	12	(s)	2,162	91	12	102	375	-273	2,363	-151	0	2,039	86	11
6-Month Total	68	1	12,445	523	67	403	1,418	-1,015	2,363	461	0	10,969	461	59
2011 6-Month Total 2010 6-Month Total	47 24	1 (s)	8,689 4,352	365 183	47 23	287 311	1,033 1,650	-745 -1,340	1,524 968	547 257	0	7,396 2,756	311 116	40 15

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu.

• Biodiesel data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by 5.359 million Btu per barrel (the approximate heat content of biodiesel—see Table A3). • Through 2000, data are not available. Beginning in 2001, data not from U.S. Energy Information Administration (EIA) surveys are estimates. • 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/#repoweble for ell.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 2001. Sources: See end of section.

^a Total vegetable oil and other biomass inputs to the production of biodiesel.
^b Losses and co-products from the production of biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source.

C Net imports equal imports minus exports.

d Stocks are at end of period.

A negative value indicates a decrease in stocks and a positive value indicates

an increase.

^f Beginning in 2009, because of incomplete data coverage and different data sources, "Balancing Item" is used to balance biodiesel supply and disposition.

^g Derived from the preliminary 2011 stocks value (1,902 thousand barrels), not the final 2011 value (2,012 thousand barrels) that is shown under "Stocks."

Renewable Energy

Note. Renewable Energy Production and Consump-

tion. In Tables 1.1, 1.3, and 10.1, renewable energy consumption consists of: conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6); geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and geothermal heat pump and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fuels heat rate —see Table A6), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossilfuels heat rate—see Table A6); wood and wood-derived fuels consumption; biomass waste (municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass) consumption; fuel ethanol (minus denaturant) and biodiesel consumption; and losses and co-products from the production of fuel ethanol and biodiesel. In Tables 1.1, 1.2, and 10.1, renewable production is assumed to equal consumption for all renewable energy sources except biofuels (biofuels production comprises biomass inputs to the production of fuel ethanol and biodiesel).

Table 10.2a Sources

Residential Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Residential Sector, Solar/PV

1989–2009: U.S. Energy Information Administration (EIA) estimates based on Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," and Form EIA-63B, "Annual Photovoltaic Module/Cell Manufacturers Survey." Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

2010 forward: EIA estimates based on Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report"; Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey" (pre-2010 data); and SEIA/GTM Research, *U.S. Solar Market Insight: 2010 Year in Review.* Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for 2012 is derived using the average annual growth rate for 2009–2011.)

Residential Sector, Wood

1973–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980 forward: EIA, Form EIA-457, "Residential Energy Consumption Survey"; and EIA estimates based on Form EIA-457 and regional heating degree-day data. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Commercial Sector, Hydroelectric Power

1989 forward: Commercial sector conventional hydroelectricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Commercial Sector, Solar/PV

2008 forward: Commercial sector solar thermal and photovoltaic (PV) electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Wind

2009 forward: Commercial sector wind electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Wood

1973–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980–1983: EIA, Estimates of U.S. Wood Energy Consumption 1980-1983, Table ES1.

1984: EIA estimate based on the 1983 value.

1985–1988: Values interpolated.

1989 forward: EIA, *Monthly Energy Review (MER)*, Tables 7.4a–7.4c; and EIA estimates based on Form EIA-871, "Commercial Buildings Energy Consumption Survey." Data for wood consumption at commercial combined-heat-and-power (CHP) plants are calculated as total wood consumption at electricity-only and CHP plants (MER, Table 7.4a) minus wood consumption in the electric power sector (MER, Table 7.4b) and at industrial CHP plants (MER, Table 7.4c). Annual estimates for wood consumption at other commercial plants are based on Form EIA-871 (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing

the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Commercial Sector, Biomass Waste

EIA, MER, Table 7.4c.

Commercial Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7a, and 10.3. Calculated as commercial sector motor gasoline consumption (Table 3.7a) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Table 10.2b Sources

Industrial Sector, Hydroelectric Power

Industrial sector conventional hydroelectricity net generation data from Table 7.2c are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Industrial Sector, Solar/PV

2010 forward: Industrial sector solar thermal and photovoltaic (PV) electricity net generation data from the U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Wind

2011 forward: Industrial sector wind electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Wood

1973–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980–1983: EIA, Estimates of U.S. Wood Energy Consumption 1980-1983, Table ES1.

1984: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 1.

1985 and 1986: Values interpolated.

1987: EIA, Estimates of Biofuels Consumption in the United States During 1987, Table 2.

1988: Value interpolated.

1989 forward: EIA, *Monthly Energy Review (MER)*, Table 7.4c; and EIA estimates based on Form EIA-846, "Manufacturing Energy Consumption Survey." Data for wood consumption at industrial combined-heat-and-power (CHP) plants are from MER, Table 7.4c. Annual estimates for wood consumption at other industrial plants are based on Form EIA-846 (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Biomass Waste

1981: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1982 and 1983: EIA estimates for total waste consumption based on *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1984: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1988: Value interpolated.

1989 forward: EIA, MER, Table 7.4c; and EIA estimates based on information presented in Government Advisory Associates, *Resource Recovery Yearbook* and *Methane Recovery Yearbook*, and information provided by the U.S. Environmental Protection Agency, Landfill Methane Outreach Program. Data for waste consumption at industrial CHP plants are from MER, Table 7.4c. Annual estimates for waste consumption at other industrial plants are based on the non-EIA sources listed above (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7b, and 10.3. Calculated as industrial sector motor gasoline consumption (Table 3.7b) divided by total motor gasoline product supplied (Table

3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Industrial Sector, Losses and Co-products

Calculated as fuel ethanol losses and co-products (Table 10.3) plus biodiesel losses and co-products (Table 10.4).

Transportation Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7c, and 10.3. Calculated as transportation sector motor gasoline consumption (Table 3.7c) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Transportation Sector, Biodiesel

EIA, MER, Table 10.4. Transportation sector biodiesel consumption is assumed to equal total biodiesel consumption.

Table 10.3 Sources

Feedstock

Calculated as fuel ethanol production (in thousand barrels) minus denaturant, and then multiplied by the fuel ethanol feedstock factor—see Table A3.

Losses and Co-products

Calculated as fuel ethanol feedstock plus denaturant minus fuel ethanol production.

Denaturant

1981–2008: Data in thousand barrels for petroleum denaturant in fuel ethanol produced are estimated as 2 percent of fuel ethanol production; these data are converted to Btu by multiplying by 4.645 million Btu per barrel (the estimated quantity-weighted factor of pentanes plus and conventional motor gasoline used as denaturant).

2009–2011: U.S. Energy Information Administration (EIA), *Petroleum Supply Annual (PSA)*, annual reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

2012: EIA, *Petroleum Supply Monthly (PSM)*, monthly reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate

heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

Production

1981–1992: Fuel ethanol production is assumed to equal fuel ethanol consumption—see sources for "Consumption."

1993–2004: Calculated as fuel ethanol consumption plus fuel ethanol stock change minus fuel ethanol net imports. These data differ slightly from the original production data from EIA, Form EIA-819, "Monthly Oxygenate Report," and predecessor form, which were not reconciled and updated to be consistent with the final balance.

2005–2008: EIA, Form EIA-819, "Monthly Oxygenate Report."

2009–2011: EIA, PSA, annual reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

2012: EIA, PSM, monthly reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

Trade, Stocks, and Stock Change

1992–2011: EIA, PSA, annual reports, Table 1.

2012: EIA, PSM, monthly reports, Table 1.

Consumption

1981–1989: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 10; and interpolated values for 1982, 1983, 1985, 1986, and 1988.

1990–1992: EIA, *Estimates of U.S. Biomass Energy Consumption 1992*, Table D2; and interpolated value for 1991.

1993–2004: EIA, PSA, annual reports, Tables 2 and 16. Calculated as 10 percent of oxygenated finished motor gasoline field production (Table 2), plus fuel ethanol refinery input (Table 16).

2005–2008: EIA, PSA, annual reports, Tables 1 and 15. Calculated as motor gasoline blending components adjustments (Table 1), plus finished motor gasoline adjustments (Table 1), plus fuel ethanol refinery and blender net inputs (Table 15).

2009–2011: EIA, PSA, annual reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

2012: EIA, PSM, monthly reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

Consumption Minus Denaturant

Calculated as fuel ethanol consumption minus the amount of denaturant in fuel ethanol consumed. Denaturant in fuel ethanol consumed is estimated by multiplying denaturant in fuel ethanol produced by the fuel ethanol consumption-to-production ratio.

Table 10.4 Sources

Feedstock

Calculated as biodiesel production in thousand barrels multiplied by 5.433 million Btu per barrel (the biodiesel feedstock factor—see Table A3).

Losses and Co-products

Calculated as biodiesel feedstock minus biodiesel production.

Production

2001–2005: U.S. Department of Agriculture, Commodity Credit Corporation, Bioenergy Program records. Annual data are derived from quarterly data. Monthly data are estimated by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month.

2006: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for soybean oil consumed in methyl esters (biodiesel). In addition, the U.S. Energy Information Administration (EIA) estimates that 14.4 million gallons of yellow grease were consumed in methyl esters (biodiesel).

2007: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for all fats and oils consumed in methyl esters (biodiesel).

2008: EIA, *Monthly Biodiesel Production Report*, December 2009 (release date October 2010), Table 11. Monthly data for 2008 are estimated based on U.S. Department of

Commerce, Bureau of the Census, M311K data, multiplied by the EIA 2008 annual value's share of the M311K 2008 annual value.

2009 forward: EIA, *Monthly Biodiesel Production Report*, monthly reports, Table 1.

Trade

For imports, U.S. Department of Agriculture, data for the Harmonized Tariff following Schedule 3824.90.40.20, "Fatty Esters Animal/Vegetable Mixture" (data through June 2010); 3824.90.40.30, "Biodiesel/Mixes" (data for July 2010-2011); 3826.00.00.00, "Biodiesel B30-99" (data for 2012); and 3826.00.10.00, "Biodiesel B100" (data for 2012). For exports, U.S. Department of Agriculture, data for the following Schedule B codes: 3824.90.40.00, "Fatty Substances Vegetable/Mixture" (data through 2010); 3824.90.40.30, "Biodiesel <70%" (data for 2011); and 3826.00.00.00, "Biodiesel B=>30" (data for 2012). Although these categories include products other than biodiesel (such as biodiesel coprocessed with petroleum feedstocks; and products destined for soaps, cosmetics, and other items), biodiesel is the largest component. In the absence of other reliable data for biodiesel trade, EIA sees these data as good substitutes.

Stocks and Stock Change

2009–2011: EIA, *Petroleum Supply Annual (PSA)*, annual reports, Table 1, data for renewable fuels except fuel ethanol.

2012: EIA, *Petroleum Supply Monthly*, monthly reports, Table 1, data for renewable fuels except fuel ethanol.

Balancing Item

Calculated as biodiesel consumption and biodiesel stock change minus biodiesel production and biodiesel net imports.

Consumption

2001–2008: Calculated as biodiesel production plus biodiesel net imports.

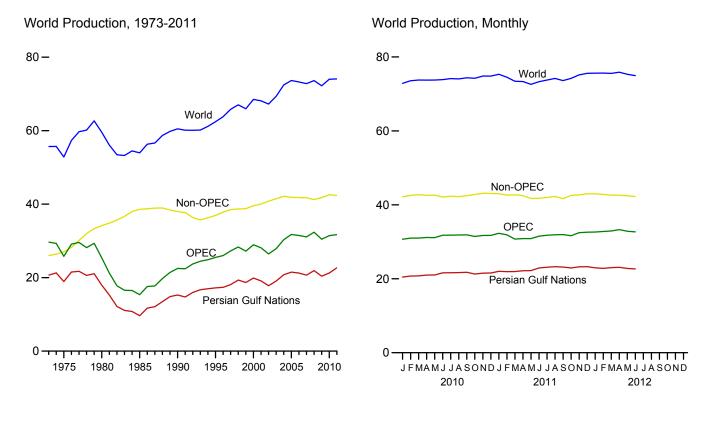
January and February 2009: EIA, PSA, Table 1, data for refinery and blender net inputs of renewable fuels except fuel ethanol.

March 2009 forward: Calculated as biodiesel production plus biodiesel net imports minus biodiesel stock change.

11. International Petroleum

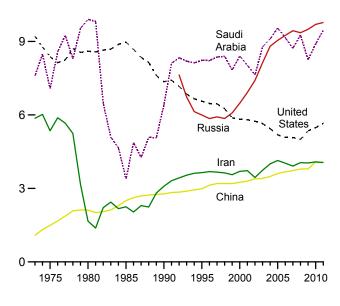
Figure 11.1a World Crude Oil Production Overview

(Million Barrels per Day)



Selected Producers, 1973-2011

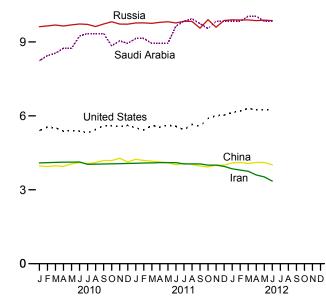
12-



Notes: • OPEC is the Organization of the Petroleum Exporting Countries. • The Persian Gulf Nations are Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Per-

Selected Producers, Monthly

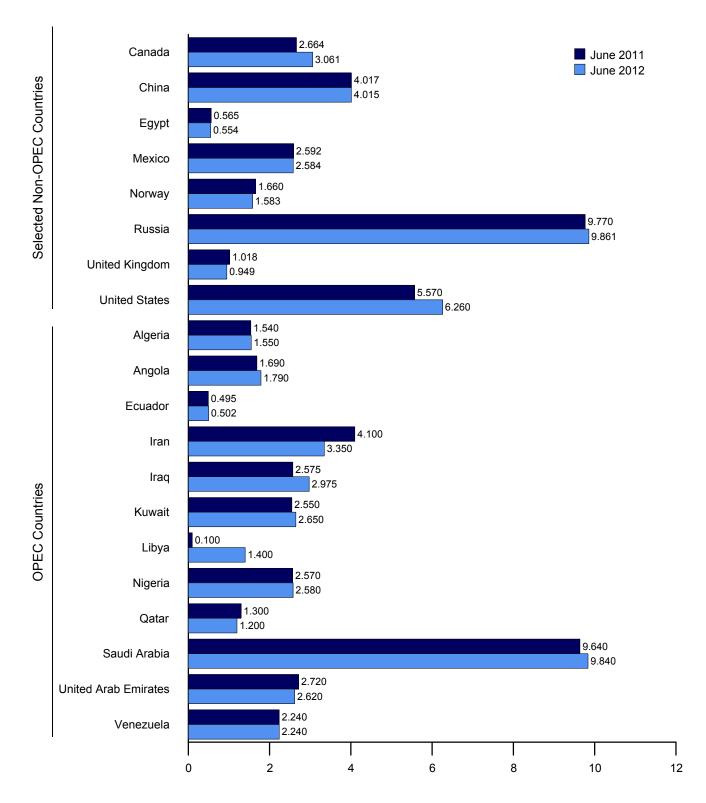
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sian Gulf Nations."

Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Sources: Tables 11.1a and 11.1b.

Figure 11.1b World Crude Oil Production by Selected Country (Million Barrels per Day)



Note: OPEC is the Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Sources: Tables 11.1a and 11.1b.

Table 11.1a World Crude Oil Production: OPEC Members

(Thousand Barrels per Day)

	Algeria	Angola	Ecuador	Iran	Iraq	Kuwait ^a	Libya	Nigeria	Qatar	Saudi Arabia ^a	United Arab Emirates	Vene- zuela	Total OPEC ^b
1973 Average	1,097	162	209	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	29,661
1975 Average	983	165	161	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	25,790
1980 Average	1,106	150	204	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	25,383
1985 Average	1,036	231	281	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	15,367
1990 Average	1,180	475	285	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	22,498
1995 Average	1,162 1,227	646 709	392 396	3,643 3,686	560 579	2,057 2,062	1,390 1,401	1,993 2,001	442 510	8,231 8,218	2,233 2,278	2,750 2,938	25,500 26,003
1996 Average	1,259	714	388	3,664	1,155	2,002	1,446	2,132	550	8,362	2,276	3,280	27,274
1997 Average	1,239	735	375	3,634	2,150	2,007	1,390	2,152	696	8,389	2,345	3,167	28,346
1999 Average	1,177	745	373	3,557	2,508	1,898	1,319	2,133	665	7,833	2,343	2,826	27,199
2000 Average	1,214	746	395	3,696	2,571	2,079	1,410	2,165	737	8,404	2,163	3,155	28,940
2001 Average	1,265	742	412	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,114
2002 Average	1,349	896	393	3,444	2,023	1,894	1,319	2,118	679	7,634	2,082	2,604	26,435
2003 Average	1,516	903	411	3,743	1,308	2,136	1,421	2,275	715	8,775	2,348	2,335	27,885
2004 Average	1,582	1,052	528	4,001	2,011	2,376	1,515	2,329	783	9,101	2,478	2,557	30,313
2005 Average	1,692	1,250	532	4,139	1,878	2,529	1,633	2,627	835	9,550	2,535	2,565	31,766
2006 Average	1,699	1,413	536	4,028	1,996	2,535	1,681	2,440	850	9,152	2,636	2,511	31,476
2007 Average	1,708	1,744	511	3,912	2,086	2,464	1,702	2,350	851	8,722	2,603	2,433	31,085
2008 Average	1,705	1,981	505	4,050	2,375	2,586	1,736	2,165	924	9,261	2,681	2,394	32,363
2009 Average	1,585	1,907	486	4,037	2,391	2,350	1,650	2,208	927	8,250	2,413	2,239	30,442
2010 January	1,540	2,040	464	4,088	2,475	2,250	1,650	2,480	969	8,240	2,414	2,090	30,699
February	1,540	2,060	470	4,100	2,475	2,250	1,650	2,420	1,036	8,440	2,414	2,140	30,995
March	1,540	2,070	478	4,112	2,375	2,250	1,650	2,430	1,055	8,540	2,414	2,090	31,004
April	1,540	2,070	480	4,120	2,375	2,250	1,650	2,360	1,072	8,740	2,414	2,110	31,181
May	1,540	2,030	478	4,120	2,375	2,250	1,650	2,310	1,091	8,740	2,415	2,140	31,138
June	1,540	1,980	491	4,127	2,425	2,250	1,650	2,410	1,113	9,240	2,415	2,140	31,780
July	1,540	1,970	492	4,033	2,325	2,350	1,650	2,410	1,136	9,340	2,415	2,140	31,801
August	1,540	1,890	485	4,040	2,325	2,350	1,650	2,510	1,164	9,340	2,415	2,140	31,849
September	1,540	1,790	490	4,047	2,375	2,350	1,650	2,550	1,193	9,340	2,415	2,140	31,880
October	1,540	1,790	497	4,053	2,375	2,350	1,650	2,580	1,216	8,840	2,415	2,140	31,446
November	1,540	1,790	508	4,060	2,375	2,350	1,650	2,510	1,235	9,040	2,415	2,240	31,713
December	1,540	1,790	499	4,068	2,525	2,350 2,300	1,650	2,490	1,235	8,940	2,415	2,240	31,742
Average	1,540	1,939	486	4,080	2,399	2,300	1,650	2,455	1,127	8,900	2,415	2,146	31,437
2011 January	1,540	1,790	500	4,076	2,625	2,350	1,650	2,580	1,280	9,140	2,520	2,240	32,291
February	1,540	1,790	509	4,084	2,525	2,350	1,340	2,570	1,280	9,140	2,520	2,240	31,888
March	1,540	1,790	501	4,092	2,525	2,450	300	2,450	1,290	8,940	2,620	2,240	30,738
April	1,540	1,740	504	4,100	2,525	2,550	200	2,500	1,300	8,940	2,720	2,240	30,859
May	1,540	1,640	497	4,100	2,575	2,550	200	2,570	1,300	8,940	2,720	2,240	30,872
June	1,540	1,690	495	4,100	2,575	2,550	100	2,570	1,300	9,640	2,720	2,240	31,520
July	1,540	1,740	492	4,050	2,625	2,550	100	2,570	1,300	9,840	2,720	2,240	31,767
August	1,540	1,790	495	4,050	2,625	2,600	0	2,600	1,300	9,940	2,720	2,240	31,900
September	1,540	1,840	496	4,050	2,725	2,600	100	2,600	1,300	9,740	2,720	2,240	31,951
October	1,540	1,790	502	4,000	2,725	2,600	300	2,400	1,300	9,540	2,720	2,240	31,657
November	1,540	1,940	504	4,000	2,725	2,600	550	2,500	1,300	9,840	2,720	2,240	32,459
December	1,540	1,890	501	3,950	2,725	2,600	800	2,400	1,300	9,840	2,820	2,240	32,606
Average	1,540	1,786	500	4,054	2,626	2,530	465	2,525	1,296	9,458	2,688	2,240	31,708
2012 January	1,550	1,890	504	3,850	2,675	2,650	1,000	R 2,520	1,300	9,840	2,620	2,240	R 32,639
February	1,550	1,940	503	3,800	2,575	2,650	1,200	R 2,580	1,300	9,840	2,620	2,240	R 32,798
March	1,550	1,790	499	3,750	2,725	2,650	1,350	R 2,520	1,200	10,040	2,620	2,240	R 32,934
April	1,550	1,890	500	3,600	2,965	2,650	1,400	R 2,640	1,190	10,040	2,620	2,240	R 33,285
May	1,550	1,840	498	3,525	2,925	2,650	1,400	R 2,580	1,200	9,840	2,620	2,240	R 32,868
June	1,550	1,790	502	3,350	2,975	2,650	1,400	2,580	1,200	9,840	2,620	2,240	32,697
6-Month Average	1,550	1,856	501	3,646	2,807	2,650	1,291	2,569	1,231	9,907	2,620	2,240	32,870
2011 6-Month Average 2010 6-Month Average	1,540 1,540	1,739 2,042	501 477	4,092 4,111	2,559 2,416	2,468 2,250	625 1,650	2,540 2,402	1,292 1,056	9,121 8,657	2,638 2,414	2,240 2,118	31,355 31,131

 $^{^{\}rm a}\,$ Except for the period from August 1990 through May 1991, includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone. Kuwait Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. In June 2012, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 600 thousand barrels per day. Data for Saudi Arabia include approximately 150 thousand barrels per

for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years. R=Revised.

Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the

preliminary monthly data are not available.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973.

Sources: See end of section.

day from the Abu Safah field produced on behalf of Bahrain.

b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC"

Table 11.1b World Crude Oil Production: Persian Gulf Nations, Non-OPEC, and World (Thousand Barrels per Day)

					Selected	Non-OPE	C ^a Produce	rs				
	Persian Gulf			_			Former		United	United	Total Non-	
	Nationsb	Canada	China	Egypt	Mexico	Norway	U.S.S.R.	Russia	Kingdom	States	OPEC ^a	World
1973 Average	20,668	1,798	1,090	165	465	32	8,324	NA	2	9,208	26,018	55,679
1975 Average	18,934	1,430	1,490	235	705	189	9,523	NA	12	8,375	27,039	52,828
1980 Average	17,961	1,435	2,114	595	1,936	486	11,706	NA	1,622	8,597	34,175	59,558
1985 Average	9,630	1,471	2,505	887	2.745	773	11,585	NA	2,530	8,971	38,598	53,965
1990 Average	15,278	1,553	2,774	873	2,553	1,630	10,975	NA	1,820	7,355	37,999	60,497
1995 Average	17,208	1,805	2,990	920	2,711	2,766		5,995	2,489	6,560	36,934	62,434
1996 Average	17,367	1,837	3,131	922	2,944	3,091		5,850	2,568	6,465	37,815	63,818
1997 Average	18,095	1,922	3,200	856	3,104	3,142		5,920	2,518	6,452	38,532	65,806
1998 Average	19,337	1,981	3,198	834	3,160	3,011		5,854	2,616	6,252	38,685	67,032
1999 Average	18,667	1,907	3,195	852	2,998	3,019		6,079	2,684	5,881	38,768	65,967
2000 Average	19,892	1,977	3,249	768	3,104	3,222		6,479	2,275	5,822	39,583	68,522
2001 Average	19,098	2,029	3,300	720	3,218	3,226		6,917	2,282	5,801	40,003	68,116
2002 Average	17,794	2,171	3,390	715	3,263	3,131		7,408	2,292	R 5,744	R 40,825	R 67,260
2003 Average	19,063	2,306	3,409	713	3,459	3,042		8,132	2,093	R 5,644	R 41,478	R 69,363
2004 Average	20,787	2,398	3,485	673	3,476	2,954		8,805	1,845	R 5,435	R 42,149	R 72,462
2005 Average	21,501	2,369	3,609	623	3,423	2,698		9,043	1,649	^R 5,186	R 41,878	R 73,644
2006 Average	21,232	2,525	3,673	535	3,345	2,491		9,247	1,490	R 5,089	R 41,791	R 73,267
2007 Average	20,672	2,628	3,729	530	3,143	2,270		9,437	1,498	R 5,077	R 41,727	R 72,812
2008 Average	21,913	2,579	3,790	566	2,839	2,182		9,357	1,391	R 5,000	R 41,262	R 73,625
2009 Average	20,402	2,579	R 3,796	587	2,646	2,067		9,495	1,328	R 5,353	R 41,777	R 72,219
2010 January	20,471	R 2,499	R 3,971	579	2,660	2,060		9,615	1,379	R 5,399	R 42,161	R 72,860
February	20,750	R 2,714	R 3.940	578	2,655	2,038		9,648	1,274	R 5,546	R 42.574	R 73,569
March	20.781	2,621	R 3,973	577	2,641	1.983		9,683	1,429	5,513	R 42,760	R 73,764
April	21,007	R 2,693	R 3.953	576	2,639	1,967		9,646	1,378	R 5,377	R 42.554	R 73,736
May	21,025	R 2,742	R 4,049	576	2,639	1,921		9,691	1,297	R 5,398	R 42,628	R 73,767
June	21,604	R 2,770	R 4,105	575	2,592	1,611		9,727	1,076	^R 5,384	R 42,092	R 73,872
July	21,634	R 2,762	R 4,060	575	2,618	1,864		9,710	1,055	R 5,313	R 42,339	R 74,139
August	21,669	R 2,779	4,104	574	2,604	1,648		9,623	1,070	R 5,445	R 42,214	R 74,063
September	21,755	R 2,646	R 4,187	574	2,615	1,637		9,725	1,194	R 5,608	R 42,489	R 74,369
October	21,284	R 2,688	R 4,186	573	2,615	1,952		9,816	1,195	R 5,596	R 42,792	R 74,239
November	21,510	R 2,937	R 4,281	573	2,556	1,868		9,723	1,248	R 5,558	R 43,134	R 74,847
December	21,568	R 2.929	4,126	572	2,620	1.886		9,719	1,207	^R 5.614	R 43,081	R 74.823
Average	21,257	R 2,732	R 4,078	575	2,621	1,869		9,694	1,233	R 5,479	R 42,568	R 74,005
2011 January	22,026	R 2,869	R 4,238	570	2,632	1,905		9,769	1,316	RE 5,511	R 43,017	R 75,308
February	21,934	2,906	R 4,188	569	2,602	1,861		9,773	1,085	RE 5,422	R 42,631	^R 74,519
March		2,854	R 4,160	568	2,620	1,808		9,753	1,073	RE 5,611	R 42,697	R 73,435
April	22,170	2,848	4,127	567	2,621	1,874		9,795	1,164	RE 5,542	R 42,482	R 73,341
May	22,220	2,564	R 4,106	566	2,603	1,607		9,818	1,017	RE 5,623	R 41,715	R 72,587
June	22,920	2,664	R 4,017	565	2,592	1,660		9,770	1,017	RE 5,570	R 41,775	R 73,295
July	23,120	2,916	4,073	564	2,580	1,737		9,837	946	RE 5,435	R 41,982	R 73,749
August	23,270	R 3,067	4,030	563	2,598	1,714		9,832	767	RE 5,651	R 42.282	R 74,182
September	23,170	R 2,987	3,964	562	2,534	1,636		9,557	890	RE 5,581	R 41,663	R 73,614
October	22,920	R 3,030	3,926	561	2,598	1,756		9,902	998	RE 5,894	R 42,563	R 74,219
November	23,220	R 3,021	4,006	560	2,573	1,764		9,595	1,039	RE 6.006	R 42,686	R 75,145
December	23,270	R 3,121	3,998	559	2,601	1,713		9,869	1,010	RE 6,028	R 42,977	R 75,582
Average	22,687	2,904	R 4,069	564	2,596	1,752		9,774	1,026	RE 5,658	R 42,373	R 74,080
2012 January	22,970	3,105	4,089	558	2,562	1,761		9.894	999	RE 6,134	R 42.969	R 75,608
2012 January										RE 6,134	R 42,835	
February	22,820	3,237	4,109	558	2,588	1,745		9,889	1,016	RE 6,195		R 75,633
March		3,042	4,066	558	2,596	1,715		9,891	968		R 42,608	R 75,543
April	23,100	3,154	4,111	558	2,586	1,720		9,861	981	^{RE} 6,247 ^{RE} 6,255	R 42,587	R 75,873
May	22,795	3,074	4,105	558	2,587	1,699		9,882	893	E 0,255	R 42,442	R 75,310
June 6-Month Average	22,670 22,897	3,061 3,111	4,015 4,082	554 557	2,584 2,584	1,583 1,704		9,861 9,880	949 967	^E 6,260 6,232	42,252 42,615	74,949 75,485
_												
2011 6-Month Average	22,204 20,939	2,782 2,672	4,139 3,999	567 577	2,612 2,638	1,785 1,930		9,780 9,669	1,113 1,307	^E 5,549 5,435	42,385 42,461	73,740 73,593
2010 O Month Average	20,333	2,012	3,333	311	2,030	1,330		3,003	1,307	3,433	72,701	13,333

^a See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC" for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years.

Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World totals due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section.

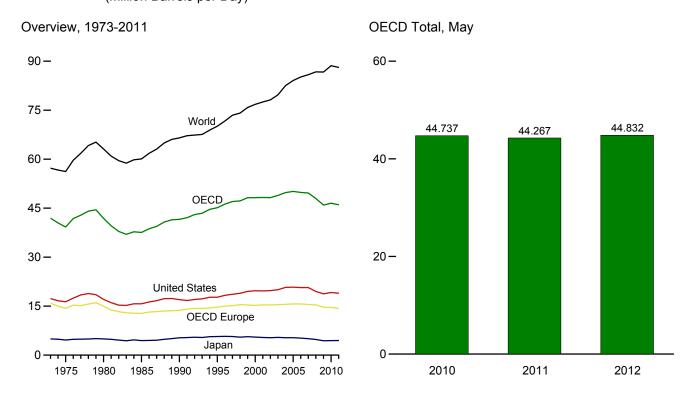
for all years.

b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

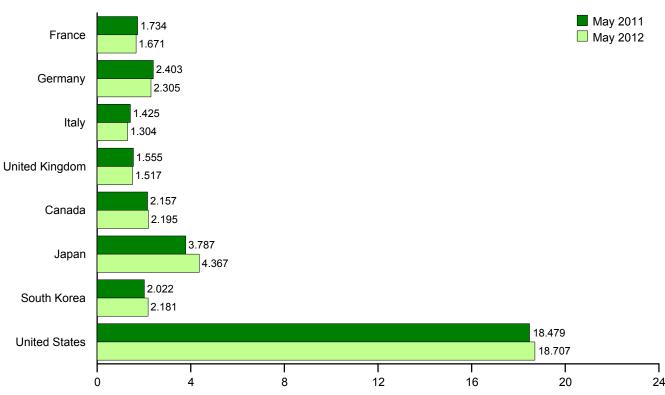
R=Revised. NA=Not available. --=Not applicable. E=Estimate.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973.

Figure 11.2 Petroleum Consumption in OECD Countries (Million Barrels per Day)



By Selected OECD Country



Note: OECD is the Organization for Economic Cooperation and Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Development.

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

(1110	- acama i	Darreis pe	. Day,							Т		
	France	Germanya	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD ^d	World
1973 Average	2,601	3,324	2.068	2,341	15,879	1,729	4.949	281	17,308	1,768	41,913	57,237
1975 Average	2,252	2,957	1,855	1,911	14,314	1,779	4,621	311	16,322	1,885	39,232	56,198
1980 Average	2,256	3,082	1,934	1,725	14,995	1,873	4,960	537	17,056	2,449	41,870	63,113
1985 Average	1,753	2,651	1,705	1,617	R 12,772	R 1,514	4,436	552	15,726	2,564	R 37,565	R 60,074
1990 Average	1,826	2,682	1,868	1,776	R 13,726	R 1,722	5,315	1,048	16,988	R 2,786	R 41,585	R 66,517
1995 Average	1,920	2,882	1,942	1,816	14,714	R 1,799	5,693	2,008	17,725	R 3,184	R 45,123	R 70,099
1996 Average	1,949	2,922	1,920	1,852	R 14,999	R 1,853	5,739	2,101	18,309	R 3,247	R 46,248	R 71,689
1997 Average	1,969	2,917	1,934	1,810	15,140	1,940	5,702	2,255	18,620	3,355	47,013	73,450
1998 Average	2,043	2,923	1,943	1,792	15,448	1,931	5,507	1,917	18,917	3,486	47,206	74,105
1999 Average	2,031	2,836	1,891	1,811	15,357	2,016	5,642	2,084	19,519	3,567	48,185	75,819
2000 Average	2,000	2,767	1,854	1,765	15,226	2,014	5,515	2,135	19,701	3,624	48,216	76,791
2001 Average	2,054	2,807	1,832	1,747	15,395	2,043	5,412	2,132	19,649	3,633	48,264	77,519
2002 Average	1,985	2,710	1,870	1,739	15,335	2,065	5,319	2,149	19,761	3,595	48,224	78,167
2003 Average	2,001	2,662	1,860	1,759	15,443	2,191	5,428	2,175	20,034	3,627	48,898	79,706
2004 Average	2,009	2,649	1,829	1,785	15,546	2,282	5,319	2,155	20,731	3,723	49,756	82,533
2005 Average	1,991	2,621	1,781	1,820	15,662	2,315	5,328	2,191	20,802	3,822	50,120	84,083
2006 Average	1,991	2,639	1,777	1,806	15,667	2,229	5,197	2,180	20,687	3,854	49,815	85,162
2007 Average	1,979	2,416	1,729	1,753	15,491	2,283	5,037	2,241	20,680	3,901	49,633	85,865
2008 Average	1,945	2,542	1,667	1,727	15,394	2,225	4,795	2,142	19,498	3,892	47,946	R 86,722
2009 Average	1,868	2,453	1,544	1,641	14,660	2,153	4,406	2,188	18,771	3,767	45,945	R 86,681
2010 January	1,756	2,161	1,369	1,586	13,537	2,128	4,779	2,361	18,652	3,519	44,976	NA
February	1,955	2,454	1,535	1,688	14,760	2,256	5,002	2,383	18,850	3,845	47,096	NA
March	1,913	2,505	1,563	1,683	14,831	2,162	4,738	2,253	19,099	3,742	46,826	NA
April	1,845	2,260	1,520	1,646	14,281	2,133	4,327	2,249	19,044	3,792	45,825	NA
May	1,693	2,354	1,451	1,615	13,915	2,181	3,841	2,170	18,866	3,764	44,737	NA
June	1,836	2,510	1,578	1,599	14,718	2,266	3,967	2,177	19,537	3,864	46,529	NA
July	1,829	2,571	1,658	1,631	14,929	2,210	4,170	2,111	19,319	3,781	46,520	NA
August	1,741	2,547	1,506	1,643	14,564	2,360	4,388	2,221	19,662	3,628	46,822	NA
September	1,945	2,747	1,624	1,640	15,378	2,381	4,441	2,192	19,438	3,721	47,551	NA
October	1,753	2,622	1,532	1,667	14,943	2,244	4,035	2,225	18,974	3,673	46,094	NA
November	1,788	2,585	1,567	1,647	15,023	2,285	4,595	2,392	18,977	3,836	47,108	NA
December	1,939	2,324	1,630	1,526	14,614	2,238	5,005	2,495	19,722	3,872	47,945	NA P 00 C4 F
Average	1,831	2,470	1,544	1,630	14,621	2,237	4,437	2,268	19,180	3,752	46,495	R 88,615
2011 January	1,773	2,230	1,352	1,600	13,637	2,277	4,899	2,429	R 18,993	3,579	R 45,814	NA
February	1,916	2,433	1,554	1,652	14,763	2,281	5,067	2,349	R 18,873	3,912	R 47,245	NA
March	1,789	2,393	1,445	1,635	14,305	2,274	4,551	2,295	R 19,329	3,946	R 46,700	NA
April	1,747	2,258	1,461	1,621	13,946	2,135	3,994	2,011	R 18,650	3,849	R 44,584	NA
May	1,734	2,403	1,425	1,555	14,018	2,157	3,787	2,022	R 18,479	3,804	R 44,267	NA
June	1,786	2,270	1,510	1,687	14,414	2,221	3,943	2,112	R 19,253	3,944	R 45,886	NA
July	1,799	2,409	1,477	1,562	14,393	2,299	4,226	2,188	R 18,778	3,840	R 45,724	NA
August	1,804	2,638	1,400	1,617	14,709	2,362	4,425	2,212	R 19,415	3,891	R 47,013	NA
September	1,919	2,551	1,541	1,671	15,005	2,263	4,278	2,241	R 18,891	3,938	^R 46,615 ^R 45,804	NA NA
October November	1,777 1,730	2,508 2,447	1,465 1,405	1,578 1,595	14,357 14,168	2,250 2,274	4,394 4,602	2,216 2,252	^R 18,844 ^R 19,080	3,743 3,977	R 46,353	NA NA
December	1,737	2,262	1,423	1,535	13,756	2,274	5,429	2,232	R 18,803	3,953	R 46,692	NA
Average	1,792	2,400	1,454	1,608	14,284	2,259	4,464	2,230	R 18,949	R 3,864	R 46,050	R 88,112
2012 January	1,745	2,133	1,263	1,440	13,081	2,107	5,161	2,366	18,280	3,639	44,634 R 47,100	NA
February	1,950	2,483 2.219	1,306	1,565	R 14,409	^R 2,112 ^R 2,329	5,550	2,410	18,760	3,869 3,943	^R 47,109 ^R 45.447	NA NA
March	1,725 1,686	2,219	1,316 1,293	1,614 1,600	^R 13,651 ^R 13,487	R 2,329	5,156 4,390	2,153 2,099	18,213 18,330	3,943	R 44.354	NA NA
April	1,686	2,231	1,293	1,517	13,487	2,195	4,390 4,367	2,099	18,330	3,810	44,832	NA NA
May 5-Month Average	1,753	2,305 2,272	1,304 1,297	1,517 1,547	13,622	2,195 2,197	4,367 4,920	2,101 2,240	18,455	3,822	44,032 45,257	NA NA
-	,		•	,				,			•	
2011 5-Month Average 2010 5-Month Average	1,790 1,830	2,342 2,346	1,445 1,487	1,612 1,643	14,122 14,255	2,224 2,171	4,450 4,529	2,220 2,281	18,866 18,902	3,816 3,730	45,699 45,868	NA NA
2010 0 Month Average	1,030	2,340	1,407	1,043	17,233	£,171	7,323	2,201	10,302	3,730	70,000	

a Data are for unified Germany, i.e., the former East Germany and West

R=Revised. NA=Not available.

Totals may not equal sum of components due to independent

rounding. • U.S. geographic coverage is the 50 States and the District of

Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973.

Sources: • United States: Table 3.1. • Chile, East Germany, Former Czechoslovakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, U.S. Territories, and World: 1973-1979—U.S. Energy Information Administration (EIA), International Energy Database. • Countries Other Than United States: 1980-2008—EIA, International Energy Statistics (IES). • OECD Countries, and U.S. Territories: 2009 forward—EIA, IES. • World: 2009 forward—EIA. Short Term Energy Outlook Sentember 2012 Table 3a. • All forward—EIA, Short Term Energy Outlook, September 2012, Table 3a. • All Other Data:—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues.

Germany.

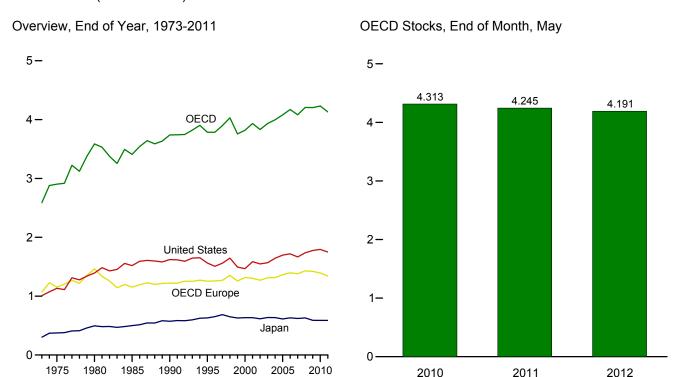
b "OECD Europe" consists of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland, Technological Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Switzerland, Technological Belgium, Czech Republic, Carbon, Switzerland, Technological Belgium, Czech Republic, Denmark, Indiana, Carbon, Carbo Turkey, and the United Kingdom.

^c "Other OECD" consists of Australia, Chile, Mexico, New Zealand, and the

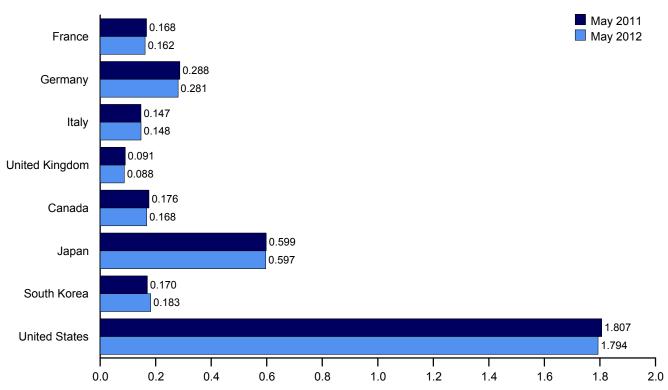
U.S. Territories.

^d The Organization for Economic Cooperation and Development (OECD) consists of "DECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD."

Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)



By Selected OECD Country, End of Month



Note: OECD is the Organization for Economic Cooperation and Development. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international.

Source: Table 11.3.

Table 11.3 Petroleum Stocks in OECD Countries

(Million Barrels)

	France	Germany ^a	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD
	1141100	Connany	- naiy	runguom	Luropo	Ounada	- Jupuii	Rorou	Otatos	0200	OLOD
973 Year	201	181	152	156	1,070	140	303	NA	1,008	67	2,588
75 Year	225	187	143	165	1,154	174	375	NA	1,133	67	2,903
980 Year	243	319	170	168	1,464	164	495	NA	1,392	72	3,587
985 Year	139	277	156	131	1.154	112	500	13	1,519	110	3,408
90 Year	143	280	R 171	103	R 1,221	143	572	64	1,621	117	R 3,739
95 Year	155	302	R 162	101	R 1,254	132	631	92	1,563	113	R 3,785
96 Year	154	303	R 152	103	R 1,258	127	651	123	1,507	118	R 3,785
997 Year	161	299	R 147	100	R 1,270	144	685	124	1,560	115	R 3,898
998 Year	169	323	R 153	104	R 1,354	139	649	129	1,647	111	R 4,029
999 Year	160	290	R 148	101	R 1,256	R 141	629	132	1,493	105	R 3,756
000 Year	170	272	R 157	100	R 1,317	R 143	634	140	1,468	117	R 3,819
001 Year	165	273	R 151	113	R 1,304	154	634	143	1,586	112	R 3,933
002 Year	170	253	R 155	104	R 1,270	155	615	140	1,548	103	R 3,832
003 Year	179	273 273	R 153	100	R 1,313	165	636	155		96	R 3,933
			R 153						1,568		
004 Year	177	267		101	R 1,315	154	635	149	1,645	99	R 3,997
005 Year	185	283	R 149	95	R 1,365	168	612	135	1,698	103	R 4,081
006 Year	182	283	R 151	103	R 1,397	169	631	152	1,720	103	R 4,171
007 Year	180	275	R 150	90	R 1,381	R 163	621	143	1,665	108	R 4,082
008 Year	179	279	^R 145	99	^R 1,430	R 162	630	135	1,737	114	R 4,207
009 Year	175	284	R 143	94	^R 1,421	^R 157	589	155	1,776	105	R 4,204
10 January	182	295	^R 144	95	R 1,462	^R 160	593	162	1,786	111	R 4,273
February	175	290	^R 151	99	R 1,447	^R 161	587	163	1,785	117	R 4,259
March	172	289	^R 147	93	R 1,427	^R 167	581	164	1,787	^R 115	R 4,241
April	172	284	^R 152	95	R 1,436	^R 168	590	166	1,810	111	R 4,282
May	173	286	^R 149	99	R 1,445	^R 164	599	166	1,830	R 109	R 4,313
June	170	280	^R 150	96	R 1,427	^R 166	597	167	1,842	120	R 4,318
July	168	282	^R 144	96	R 1,412	^R 173	598	170	1,855	116	R 4,324
August	171	289	R 151	93	R 1,428	R 182	597	169	1,862	115	R 4.353
September	163	286	R 144	95	R 1,388	R 180	582	174	1,861	R 112	R 4.296
October	161	285	R 147	94	R 1.397	R 183	599	170	1,847	R 113	R 4,308
November	170	287	R 143	92	R 1,390	R 184	604	171	1.827	108	R 4,284
December	168	287	R 151	89	R 1,393	R 184	588	165	1,794	106	R 4,231
011 January	173	291	^R 158	97	^R 1,434	^R 174	596	168	R 1.809	105	^R 4,287
	173	288	R 149	97 95	R 1,405	R 169	596 591	162	R 1,780	R 109	R 4,217
February	167		R 149	93	R 1,393	R 172	575	170	R 1,760	105	R 4,192
March	167 163	286 291	^R 149	93 93	^R 1,393	* 172 R 179	575 601	170 173	^N 1,776 ^R 1,779	105 R 110	R 4,221
April											
May	168	288	R 147	91	R 1,382	R 176	599	170	R 1,807	110	R 4,245
June	167	286	R 147	85	R 1,374	R 177	593	175	R 1,809	108	R 4,236
July	164	290	R 148	87	^R 1,365	R 176	599	173	^R 1,816	109	R 4,238
August	162	283	R 149	89	^R 1,369	^R 176	598	171	^R 1,796	ຼ 111	R 4,221
September	160	277	^R 148	85	^R 1,348	R 176	601	174	1,781	^R 106	R 4,186
October	165	278	R 147	86	R 1,337	^R 179	599	174	R 1,769	105	^R 4,164
November	164	277	^R 148	93	^R 1,352	^R 180	603	170	^R 1,770	105	R 4,180
December	165	279	^R 146	88	^R 1,343	^R 178	589	167	^R 1,750	105	^R 4,131
012 January	166	284	^R 150	90	R 1,363	^R 179	594	164	1,772	107	R 4,179
February	165	283	R 149	90	R 1,362	R 180	583	171	1,765	99	R 4,161
March	165	281	R 148	R 89	R 1.370	R 173	580	164	1,778	R 100	R 4,164
April	163	280	R 148	R 91	R 1,363	R 174	592	174	1,777	100	R 4,180
		200	140	31							

^a Through December 1983, the data for Germany are for the former West Germany only. Beginning with January 1984, the data for Germany are for the

R=Revised. NA=Not available.

Notes: • Stocks are at end of period. • Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined

products. • In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, thereby affecting subsequent stocks reported. New-basis end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973.
Sources: • United States: Table 3.4. • U.S. Territories: 1983 forward—U.S. Energy Information Administration, International Energy Database.
• All Other Data: 1973-1982—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances, various issues. 1983—IEA, Monthly Oil and Gas Statistics Database. 1984 forward—IEA, Monthly Oil Data Service, August 10, 2012

dermany only beginning with Sandary 1904, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom, and, for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia.

^c "Other OECD" consists of Australia, New Zealand, and the U.S. Territories,

and, for 1984 forward, Mexico.

^d The Organization for Economic Cooperation and Development (OECD) consists of "OECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD."

International Petroleum

Tables 11.1a and 11.1b Sources

United States

Table 3.1.

All Other Countries and World, Annual Data

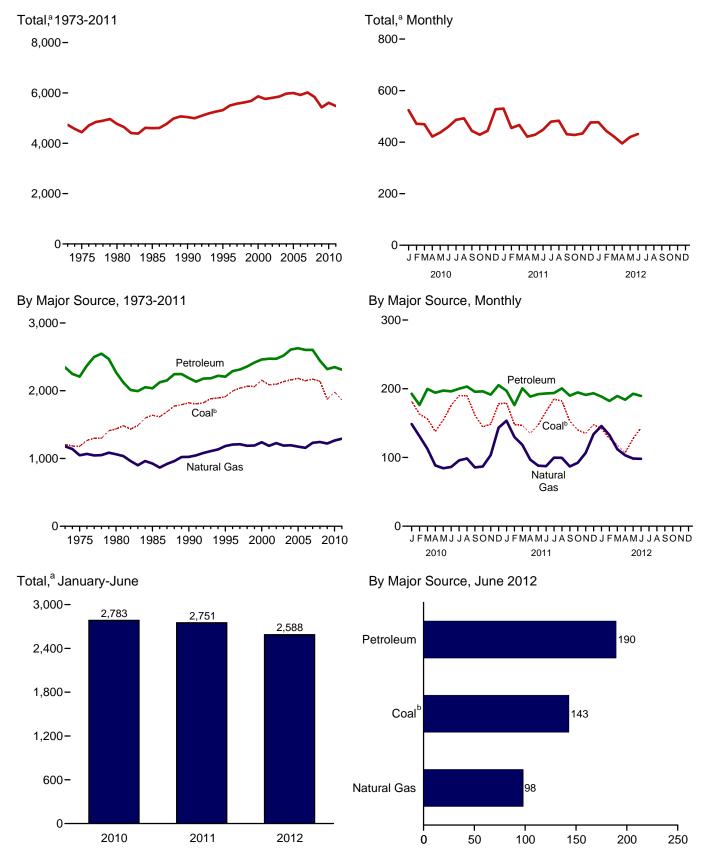
1973–1979: U.S. Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8. 1980 forward: EIA, International Energy Database, September 2012.

All Other Countries and World, Monthly Data

1973–1980: *Petroleum Intelligence Weekly (PIW)*, *Oil & Gas Journal (OGJ)*, and EIA adjustments. 1981–1993: *PIW*, *OGJ*, and other industry sources. 1994 forward: EIA, International Energy Database, September

12. Environment

Figure 12.1 Carbon Dioxide Emissions From Energy Consumption by Source (Million Metric Tons of Carbon Dioxide)



^a Excludes emissions from biomass energy consumption.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#environment. Source: Table 12.1.

b Includes coal coke net imports.

Carbon Dioxide Emissions From Energy Consumption by Source Table 12.1

								Petrole	eum					
	Coal ^b	Natural Gas ^c	Aviation Gasoline	Distillate Fuel Oil ^d	Jet Fuel	Kero- sene	LPG [⊕]	Lubri- cants	Motor Gasoline ^f	Petroleum Coke	Residual Fuel Oil	Other ^g	Total	Total ^{h,i}
1973 Total	1,207	1,181	6	480	155	32	91	13	911	51	508	100	2,346	4,733
1975 Total	1,181	1,047	5	443	146	24	82	11	911	48	443	97	2,209	4,437
1980 Total	1,436	1,063	4	446	156	24	87	13	900	46	453	142	2,272	4,770
1985 Total	1,638	926	3	445	178	17	86	12	930	55	216	93	2,035	4,600
1990 Total	1,821	1,025	3	470	223	6	69	13	988	67	220	127	2,187	5,039
1995 Total	1,913	1,184	3	498	222	8	78	13	1,044	75	152	114	2,207	5,314
1996 Total	1,995	1,205	3	524	232	9	84	12	1,063	78	152	132	2,290	5,501
1997 Total	2,040	1,211	3	534	234	10	85	13	1,075	79	142	138	2,313	5,575
1998 Total	2,064	1,189	2	538	238	12	75	14	1,107	89	158	125	2,358	5,622
1999 Total	2,062	1,192	3	555	245	11	91	14	1,127	93	148	130	2,417	5,682
2000 Total	2,155	1,241	3	580	254	10	102	14	1,135	84	163	117	2,461	5,867
2001 Total	2,088	1,187	2	598	243	11	92	13	1,151	88	145	132	2,473	5,759
2002 Total	2,095	1,227	2	587	237	6	98	12	1,183	94	125	127	2,472	5,806
2003 Total	2,136	1,191	2	610	231	8	95	11	1,188	94	138	140	2,518	5,857
2004 Total	2,160	1,195	2	632	240	10	98	12	1,214	105	155	142	2,609	5,975
2005 Total	2,182	1,175	2	640	246	10	94	12	1,214	105	164	141	2,628	5,997
2006 Total	2,147	1,158	2	648	240	8	93	11	1,224	104	122	150	2,603	5,919
2007 Total	2,172	1,233	2	652	238	5	94	12	1,227	98	129	148	2,603	6,020
2008 Total	2,139	1,243	2	615	226	2	89	11	1,166	92	111	130	2,444	5,838
2010 January	1,876	1,222	(s)	564	204 17	(s)	91	10	1,1 57	87	91	111	2,320	5,429 524
February	163 156 138 155	131 113 88 84	(s) (s) (s) (s)	46 51 48 48	15 18 17 18	(s) (s) (s)	9 8 7 7	1 1 1	84 95 96 99	5 7 6 6	7 8 9 8	9 11 11 10	176 200 194 197	471 470 422 437
June July August September	176 190 190 161	86 96 99 86	(s) (s) (s) (s)	48 47 50 50	19 19 19 18	(s) (s) (s) (s)	7 7 7 7	1 1 1	97 101 100 96	7 7 8 7	7 9 7 8	10 10 11 10	196 200 203 196	459 487 493 444
October	145	87	(s)	50	18	(s)	8	1	97	6	7	9	196	429
November	148	103	(s)	49	17	1	8	1	92	7	8	9	191	444
December	178	143	(s)	55	17	1	11	1	96	6	8	10	205	528
Total 2011 January February	1,982 179 148	1,265 R 153	(s) (s)	590 52 R 47	210 17 15	(s)	94 R 11 R 9	11 1 1	1,146 91 84	77 6 R 5	96 9 88	120 10 8 8	2,349 R 197 R 176	5,607 R 530 R 455
March	147	118	(s)	53	17	(s)	R 9	1	95	6	R 7	R 11	^R 201	R 467
April	135	97	(s)	R 48	^R 18	(s)	R 7	1	92	6	R 7	10	^R 189	421
May	148	88	(s)	R 49	18	(s)	7	1	95	7	7	R 8	192	R 429
June July August September	167 185 182 153	87 100 99 87	(s) (s) (s) (s)	50 R 47 R 53 50	19 18 19 17	(s) (s) (s)	R 7 7 R 8 7	1 1 1	^R 95 ^R 98 96 92	^R 6 6 8 6	7 5 5 7	R 9 11 10 R 10	193 R 194 R 201 R 190	R 480 R 483 R 431
October	140	R 92	(s)	^R 53	17	(s)	8	1	93	7	6	R 10	R 195	R 428
November	135	107	(s)	52	17	(s)	8	1	89	6	6	R 11	R 191	R 434
December	148	134	(s)	^R 51	17	(s)	^R 10	1	R 94	^R 4	8	10	193	476
Total	R 1,866	R 1,293	2	^R 603	209	2	^R 97	10	R 1,113	R 74	^R 82	R 118	R 2,311	R 5,482
2012 January	142	146	(s)	50	16	(s)	9	1	89	6	6	10	189	477
February	127	133	(s)	49	16	(s)	8	1	87	5	6	10	182	443
March	118	112	(s)	49	17	(s)	8	1	93	6	6	9	190	421
April May June 6-Month Total	R 107	103	(s)	47	16	(s)	7	1	92	6	6	9	184	R 395
	128	98	(s)	49	18	(s)	8	1	97	6	4	9	193	420
	143	98	(s)	47	19	(s)	7	1	94	6	5	10	190	432
	765	690	1	291	102	(s)	48	5	553	35	34	58	1,127	2,588
2011 6-Month Total 2010 6-Month Total	923 969	674 651	1 1	299 289	103 103	1	49 48	5 5	552 564	37 37	45 48	56 60	1,148 1,157	2,751 2,783

Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 Includes coal coke net imports.
 Natural gas, excluding supplemental gaseous fuels.
 Distillate fuel oil, excluding biodiesel.

R=Revised. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.

• See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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/totalenergv/data/monthlv/#environment for

Web Page: See http://www.eia. all available data beginning in 1973. Sources: See end of section. See http://www.eia.gov/totalenergy/data/monthly/#environment for

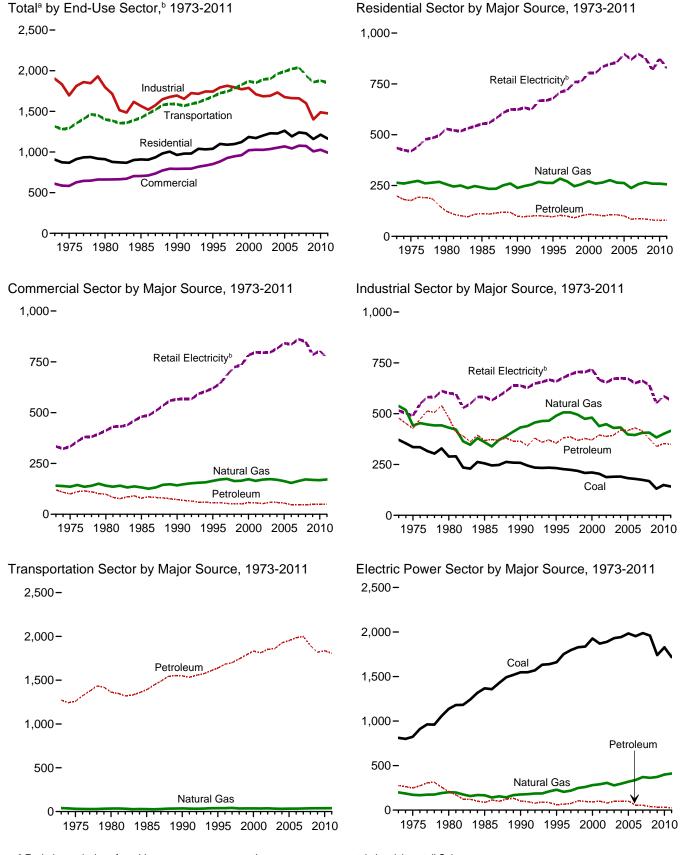
Eliquefied petroleum gases.
 Finished motor gasoline, excluding fuel ethanol.
 Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.

h Includes electric power sector use of geothermal energy and non-biomass

waste. See Table 12.6.

Excludes emissions from biomass energy consumption. See Table 12.7.

Figure 12.2 Carbon Dioxide Emissions From Energy Consumption by Sector (Million Metric Tons of Carbon Dioxide)



^a Excludes emissions from biomass energy consumption.

total electricity retail Sales.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#environment. Sources: Tables 12.2–12.6.

^b Emissions from energy consumption in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of

Table 12.2 Carbon Dioxide Emissions From Energy Consumption: Residential Sector

				Petrole	eum			
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Total	Retail Elec- tricity ^e	Total ^f
1973 Total	9	264	147	16	36	199	435	907
1975 Total	6	266	132	12	32	176	419	867
1980 Total	3	256	96	8	20	124	529	911
	3							
1985 Total	4	241	80	11	20	111	553	909
1990 Total	3	238	72	5	22	98	624	963
1995 Total	2	263	66	5	25	96	678	1,039
1996 Total	2	284	68	6	30	104	710	1,099
1997 Total	2	270	64	7	29	99	719	1,090
1998 Total	1	247	56	8	27	91	759	1.097
1999 Total	i i	257	61	š	33	102	762	1.122
2000 Total	4	271	66	7	35	108	805	1.185
2000 Total	- 1							
2001 Total	1	259	66	7	33	106	805	1,172
2002 Total	1	265	63	4	34	101	835	1,203
2003 Total	1	276	66	5	34	106	847	1,230
2004 Total	1	264	68	6	32	106	856	1,228
2005 Total	1	262	62	6	32	101	897	1,261
2006 Total	1	237	52	5	28	85	869	1,192
2007 Total	i i	257	53	3	31	87	897	1,241
2008 Total	4	266	49	2	35	85	878	1,229
2009 Total	i	259	44	2	35	81	819	1,159
2010 January	(s)	51	6	(s)	3	10	91	151
February	(s)	43	6	(s)	3	9	74	126
March	(s)	31	4	(s)	3	7	65	103
April	(s)	17	2	(s)	3 2	5	51	73
May	(s)	11	3	(s)	2	5	59	75 75
June	(s)	7	3	(s)	2	6	79	92
July	(s)	6	2	(s)	3	5	97	108
August	(s)	6	2	(s)	3	5	96	107
September	(s)	6	2	(s)	3	5	72	83
October	(s)	11	3	(s)	3	6	56	73
November	(s)	24	3	(s)	3	7	56	87
December	(s)	46	6	(s)	3	10	81	137
Total	1	259	43	2	33	78	875	1,212
2011 January	(s)	53	5	(s)	R 4	9	87	R 149
February	(s)	42	5	(s)	3	8	67	117
March	(s)	33	4	(s)	3	7	59	99
April	(s)	19	R3	(s)	R 3	5	53	77
May	(s)	11	1 2	(s)	3	4	58	74
June	(s)	7	2 3	(s)	R3	5	76	88
	(s)	6	2	(s)	3	5	96	107
July		6	3		3	6	92	107
August	(s)	0		(s)				
September	(s)	7	3	(s)	3	6	69	81
October	(s)	12	4	(s)	3	7	54	73
November	(s)	23	4	(s)	3	7	53	R 84
December	(s)	37	6	(s)	3	9	66	113
Total	`1	256	R 44	`1	R 35	R 80	827	R 1,164
2012 January	(s)	43	6	(s)	3	9	68	121
February	(s)	36	5	(s)	3	8	58	102
March	(s)	22	4	(s)	3	7	51	80
April	(s)	15	3	(s)	3	6	45	66
May	(s)	9	3	(s)	3	6	55	70
June	(s)	7	3	(s)	3	6	69	82
6-Month Total	(s)	133	24	(s)	17	42	347	521
2011 6-Month Total	(s)	165	21	1	18	39	399	604

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section.
• See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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/#environment for all available data beginning in 1973.

Sources: See end of section.

a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.
d Liquefied petroleum gases.
E missions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.
Excludes emissions from biomass energy consumption. See Table 12.7.
R=Revised. (s)=Less than 0.5 million metric tons.

Table 12.3 Carbon Dioxide Emissions From Energy Consumption: Commercial Sector

	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total ^g
1973 Total	15 14 11 13	141 136 141 132	47 43 38 46	5 4 3 2	9 8 6 6	6 6 8 7	NA NA NA	52 39 44 18	120 100 98 79	334 333 412 480	609 583 662 704
1990 Total 1995 Total 1996 Total 1997 Total	12 11 12 12	142 164 171 174	39 35 35 32	1 2 2 2	6 7 8 8	8 1 2 3	0 (s) (s) (s)	18 11 11 9	73 56 57 54	566 620 643 686	793 851 883 926
1998 Total 1999 Total 2000 Total 2001 Total	9 10 9 9	164 165 173 164	31 32 36 37	2 2 2 2	7 9 9 9	3 2 3 3	(s) (s) (s) (s)	7 6 7 6	51 51 58 57	724 735 783 797	947 960 1,022 1,027
2002 Total 2003 Total 2004 Total 2005 Total	9 8 10 9	170 173 170 163	32 35 34 33	1 1 1 2	9 10 10 8	3 4 3 3	(s) (s) (s) (s)	6 9 10 9	52 59 58 55	795 796 816 842	1,026 1,036 1,054 1,069
2006 Total 2007 Total 2008 Total 2009 Total	6 7 7 6	154 164 171 169	29 28 27 30	1 1 (s) (s)	8 8 10 9	3 4 3 4	(s) (s) (s) (s)	6 6 6	48 47 46 49	836 861 850 785	1,043 1,078 1,074 1,008
2010 January February March	1 1 1 (s)	27 24 18 12	4 4 3 2	(s) (s) (s)	1 1 1	(s) (s) (s) (s)	(s) (s) (s) (s)	1 1 1 (s)	6 6 4 3	66 60 59 57	101 91 82 73
MayJune JulyApril	(s) (s) (s) (s)	9 7 6 7	2 2 2 2 2	(s) (s) (s) (s)	1 1 1 1	(s) (s) (s) (s)	0 0 0 0 (s)	(s) (s) (s) (s)	3 4 3 3	66 74 80 81	78 85 90 91
September October November December	(s) (s) (s) (s)	7 10 16 25	1 2 2 4	(s) (s) (s) (s)	1 1 1 1	(s) (s) (s) (s)	(s) (s) (s) (s)	(s) (s) (s)	3 4 4 6	69 63 61 68	79 77 81 100
Total	6	168	30	(s)	9	4	(s)	6	49	805	1,027
February Fabruary March April May	1 1 (s) (s)	29 23 20 13 9	R 4 R 4 3 2	(s) (s) (s) (s)	1 1 1 1	(s) (s) (s) (s)	(s) (s) (s) 0	1 (s) (s) (s)	6 5 4 3 2	65 55 58 57 63	100 84 83 73 75
June July August September	(s) (s) (s) (s)	7 7 7 7 8	2 2 2 2 2	(s) (s) (s) (s)	1 1 1 1	(s) (s) (s) (s)	0 0 0 0	(s) (s) (s) (s)	3 3 4 4	70 79 77 66	81 89 R 89 77
October November December Total	(s) (s) (s) 5	12 15 22 171	3 3 4 R 31	(s) (s) (s) (s)	1 1 1 9	(s) (s) (s) 4	0 (s) (s)	R (s) 1 1 R 5	4 5 6 49	61 57 59 767	77 77 87 ^R 992
2012 January	(s) (s) (s) (s)	24 21 14 11 8	4 3 3 2 2	(s) (s) (s) (s) (s)	1 1 1 1	(s) (s) (s) (s) (s)	(s) (s) (s) (s)	1 1 (s) (s)	6 5 5 3 4	57 53 52 51 61	88 80 71 66 73
June 6-Month Total	(s) 2	7 86	1 7	(s) (s)	1 5	(s) 2	(s)	(s) 3	4 27	66 340	77 455
2011 6-Month Total 2010 6-Month Total	3 3	101 97	15 17	(s) (s)	5 4	2 2	(s) (s)	3 3	24 26	368 383	496 509

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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/#environment for all available data beginning in 1973.

all available data beginning in 1973. Sources: See end of section.

<sup>a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.
d Liquefied petroleum gases.
e Finished motor gasoline, excluding fuel ethanol.
f Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7 6 and 12 6</sup>

Tables 7.6 and 12.6.

§ Excludes emissions from biomass energy consumption. See Table 12.7.
R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons.

Table 12.4 Carbon Dioxide Emissions From Energy Consumption: Industrial Sector

		Coal						Petroleun	1					
	Coal	Coke Net Imports	Natural Gas ^b	Distillate Fuel Oil ^c	Kero- sene	LPG ^d	Lubri- cants	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Other ^f	Total	Retail Elec- tricity ⁹	Total ^h
1973 Total 1975 Total 1980 Total	371 336 289	-1 2 -4	538 442 431	106 97 96	11 9 13	43 39 61	7 6 7	18 16 11	49 48 45	144 117 105	100 97 142	478 427 480	515 490 601	1,902 1,696 1,797
1985 Total	256	-2	360	81	3	58	6	15	54	57	93	369	583	1,566
1990 Total	258 233	1 7	432 490	84 82	1	39 45	7 7	13 14	64 67	31 24	127 114	366 355	638 659	1,695 1.743
1995 Total	233	3	506	86	1	45 46	6	14	70	24	132	381	678	1,743
1997 Total	224	5	506	88	1	48	7	15	68	21	138	386	694	1,815
1998 Total	219 208	8 7	495 474	88 86	2 1	39 48	7 7	14 11	77 81	16 14	125 130	368 378	706 704	1,796 1.772
2000 Total	211	7	481	87	1	56	7	11	74	17	117	370	719	1,772
2001 Total	204	3	439	95	2	49	6	21	77	14	132	395	667	1,709
2002 Total	188	7	448	88	1 2	54	6	22	76	13	127	388 394	654	1,685
2003 Total 2004 Total	190 191	6 16	430 432	83 88	2	50 55	6 6	23 26	76 82	15 17	140 142	394 419	672 675	1,692 1,732
2005 Total	183	5	398	92	3	51	6	25	80	20	141	417	673	1,675
2006 Total	179	7	395	92	2	56	6	26	82	16	150	430	650	1,662
2007 Total 2008 Total	175 168	3 5	405 407	92 93	1 (s)	54 42	6 6	21 17	80 76	13 14	148 130	415 377	662 642	1,661 1,599
2009 Total	131	-3	383	80	(s)	46	5	17	73	7	111	339	551	1,401
2010 January	12	(s)	37	6	(s)	6	(s)	2	3	1	9	28	46	122
February March	12 13	(s) (s)	34 35	6 9	(s) (s)	5 4	(s) (s)	1 2	4 6	1	9 11	27 33	44 46	118 127
April	12	(s)	32	8	(s)	3	(s)	2	5	i	11	30	45	120
May	12	(s)	32	6	(s)	3	(s)	2	5	1	10	28	51	123
June July	12 12	(s) (s)	31 32	5 4	(s) (s)	3	1	2 2	5 5	1	10 10	27 26	52 54	122 124
August	13	(s)	32	7	(s)	4	(s)	2	6	i	11	31	55	130
September	13	(s)	32	9	(s)	4	(s)	2	6	1	10	31	48	124
October November	12 13	(s) -1	33 34	7 8	(s) (s)	4 4	(s) (s)	2 2	5 6	1	9	28 30	47 48	120 124
December	13	-i	37	9	(s)	6	(s)	2	5	i	10	33	50	133
Total	149	-1	401	86	`1	50	6	19	62	8	120	352	587	1,488
2011 January	12 12	(s) (s)	38 35	^R 9	(s) (s)	6 5	(s) (s)	1	5 3	1	10 ^R 8	33 26	47 42	R 131 R 114
March	13	(s)	36	10	(s)	R 5	1	2	5	i	R 11	R 34	45	128
April	11	(s)	34	7	(s)	R 4 R 4	(s)	2	5	1	10 ^R 8	28	45	118 ^R 121
May June	12 12	(s) (s)	34 32	7 7	(s) (s)	3	(s) (s)	2 2	6 5	1	8 R.g	28 ^R 27	48 50	R 121
July	11	(s)	33	R4	(s)	R 4	(s)	2	5	(s)	11	^R 26	53	123
August	12 12	(s)	33 33	7 7	(s)	4 4	(s)	2 2	7	(s)	10 R 10	^R 31 ^R 28	53	R 129
September October	12	(s) (s)	33	8	(s) (s)	4	(s) (s)	2	5 6	1	R 10	R 30	46 47	119 R 123
November	12	(s)	35	9	(s)	4	(s)	1	^R 6	1	R 11	R 32	45	R 124
December	12 142	(s) 1	38 R 416	6 R 89	(s)	5 R 51	(s) 5	2 18	R 3 R 61	1 R 7	10 R 118	R 27 R 350	45 567	R 122 R 1,476
Total					(s)					-				
2012 January February	11 11	(s) (s)	39 36	R7 9	(s) (s)	5 5	(s) (s)	1 1	5 4	1 (s)	10 10	R 30 R 30	43 42	123 120
March	12	(s)	36	7	(s)	4	(s)	2	5	1	9	28	41	117
April	R 11	1	34	R ₆	(s)	4	(s)	2	5	. 1	9	R 26	41	R 113
May June	R 11 11	(s) (s)	34 34	R 6	(s) (s)	4 4	(s) (s)	2 2	6 6	(s) (s)	9 10	28 26	47 47	120 117
6-Month Total	67	(S)	212	40	(s)	25	3	9	31	3	58	168	259	708
2011 6-Month Total 2010 6-Month Total	71 73	1 1	209 201	48 41	(s) (s)	26 26	3 3	9 9	29 29	4 4	56 60	176 173	277 284	734 732

a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.

R=Revised. (s)=Less than 0.5 million metric tons and greater than -0.5 million metric tons.

 Data are estimates for carbon dioxide emissions from energy including the nonfuel use of fossil fuels. See "Section 12" Notes: consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.

See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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/#environment for all available data beginning in 1973.

Sources: See end of section.

Liquefied petroleum gases.

Finished motor gasoline, excluding fuel ethanol.

Aviation gasoline blending components, crude oil, motor gasoline blending

Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.

⁹ Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.

^h Excludes emissions from biomass energy consumption. See Table 12.7.

Table 12.5 Carbon Dioxide Emissions From Energy Consumption: Transportation Sector (Million Metric Tons of Carbon Dioxidea)

			Petroleum									
						Petro	oleum				Retail Elec- tricity ^f	
	Coal	Natural Gas ^b	Aviation Gasoline	Distillate Fuel Oil ^c	Jet Fuel	LPG ^d	Lubri- cants	Motor Gasoline ^e	Residual Fuel Oil	Total		Total ^g
1973 Total	(s) (s) (h) (h)	39 32 34 28	6 5 4 3	163 155 204 232	152 145 155 178	3 3 1 2	6 6 6	886 889 881 908	57 56 110 62	1,273 1,258 1,363 1,391	2 2 2 3	1,315 1,292 1,400 1,421
1990 Total 1995 Total 1996 Total 1997 Total 1998 Total	(h) (h) (h) (h) (h)	36 38 39 41 35	3 3 3 3 2	268 307 327 342 352	223 222 232 234 238	1 1 1 1	7 6 6 6 7	967 1,029 1,047 1,057 1,090	80 72 67 56 53	1,548 1,639 1,683 1,699 1,743	3 3 3 3 3	1,588 1,681 1,725 1,744 1,782
1999 Total	(h) (h) (h) (h)	36 36 35 37 33	3 3 2 2 2	366 378 387 394 414	245 254 243 237 231	1 1 1 1	7 7 6 6 6	1,115 1,121 1,127 1,158 1,161	52 70 46 53 45	1,789 1,833 1,813 1,851 1,861	3 4 4 4 5	1,828 1,872 1,852 1,892 1,899
2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	(h) (h) (h) (h) (h)	32 33 33 35 37 38	2 2 2 2 2 2 2 2	434 444 469 472 440 404	240 246 240 238 226 204	1 2 2 1 3 2	6 6 5 6 5 5	1,185 1,186 1,194 1,201 1,146 1,137	58 66 71 78 72 64	1,926 1,953 1,984 1,999 1,895 1,818	5 5 5 5 5 5 5 5 5 5	1,962 1,991 2,022 2,040 1,937 1,860
2010 January	(h) (h)	4 4	(s) (s)	31 30	17 15	(s) (s)	(s) (s)	91 82	6 5	145 133	(s) (s)	150 137
March April May June	(h) (h) (h)	3 3 3 3	(s) (s) (s) (s)	35 35 37 36	18 17 18 19	(s) (s) (s)	(s) (s) (s)	94 94 97 95	6 7 6 5	154 154 159 156	(s) (s) (s) (s)	157 157 161 159
July August September	(h) (h) (h)	3 3 3	(s) (s) (s)	38 39 37	19 19 18	(s) (s) (s)	(s) (s) (s)	99 98 94	6 5 6	162 161 155	(s) (s) (s)	165 165 157
October November December Total	(h) (h) (h) (h)	3 3 4 38	(s) (s) (s) 2	37 35 35 425	18 17 17 210	(s) (s) (s)	(s) (s) (s) 5	95 90 94 1.124	6 6 5 69	157 149 153 1,836	(s) (s) (s) 5	160 152 158 1,879
2011 January	() (h) (h)	5 4	(s) (s)	33 R 31	17 15	(s) (s)	(s) (s)	89 R 82	R 6 R 6	R 146 135	(s) (s)	R 151 R 139
March April May	(h) (h) (h) (h)	4 3 3 3	(s) (s) (s)	36 R 36 38 38	17 R 18 18 19	(s) (s) (s)	(s) (s)	93 90 93 ^R 93	R 5 R 5 6 5	153 R 150 155 R 156	(s) (s) (s) (s)	157 R 153 R 159 R 159
June July August September	(h) (h) (h)	3 3 3	(s) (s) (s) (s)	R 38 R 40 R 37	18 19 17	(s) (s) (s)	(s) (s) (s) (s)	^R 96 94 90	3 R 4 R 6	^R 157 ^R 158 150	(s) (s) (s)	^R 160 ^R 161 153
October November December Total	(h) (h) (h) (h)	3 3 4 39	(s) (s) (s) 2	R 38 R 36 R 35 R 435	17 17 17 209	(s) (s) (s) 2	(s) (s) (s) 5	^R 92 87 92 ^R 1,091	5 R 5 6 R 62	R 152 145 R 150 R 1,807	(s) (s) (s) 4	R 155 R 149 R 154 R 1,850
2012 January February March	(h) (h) (h) (h)	4 4 3 3	(s) (s) (s) (s)	32 31 ^R 35 35	16 16 17 16	(s) (s) (s) (s)	(s) (s) (s) (s)	87 85 91 90	5 4 5 5	R 141 137 149 R 148	(s) (s) (s) (s)	145 R 142 152 151
May June 6-Month Total	(h) (h) (h)	3 3 21	(s) (s) 1	37 37 208	18 19 102	(s) (s) 1	(s) (s) 2	95 93 542	3 4 25	154 153 881	(s) (s) 2	157 156 904
2011 6-Month Total 2010 6-Month Total	(h)	20 20	1 1	212 204	103 103	1 1	3 3	541 553	34 35	895 900	2 2	917 922

R=Revised. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.

• See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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

<sup>a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.
d Liquefied petroleum gases.
e Finished motor gasoline, excluding fuel ethanol.
f Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7 6 and 12 6</sup>

Tables 7.6 and 12.6.

9 Excludes emissions from biomass energy consumption. See Table 12.7.

h Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.

and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#environment for all available data beginning in 1973. Sources: See end of section.

Table 12.6 Carbon Dioxide Emissions From Energy Consumption: Electric Power Sector (Million Metric Tons of Carbon Dioxide^a)

				Petro	eum				
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Petroleum Coke	Residual Fuel Oil	Total	Geo- thermal	Non- Biomass Waste ^d	Total ^e
1973 Total	812	199	20	2	254	276	NA.	NA	1.286
1975 Total	824	172	17	(s)	231	248	NA NA	NA NA	1,244
1980 Total	1,137	200	12	1	194	207	NA NA	NA	1,544
1985 Total	1,367	166	6	1	79	86	NA.	NA	1,619
1990 Total	1,548	176	7	3	92	102	(s)	6	1,831
1995 Total	1,661	228	8	8	45	61	(s)	10	1,960
1996 Total	1,752	205	8	8	50	66	(s)	10	2,033
1997 Total	1,797	219	8	10	56	75	(s)	10	2,101
1998 Total	1,828	248	10	13	82	105	(s)	10	2,192
1999 Total	1.836	260	10	11	76	97	(s)	10	2,204
2000 Total	1,927	281	13	10	69	91	(s)	10	2,310
2001 Total	1,870	290	12	11	79	102	(s)	11	2,273
2002 Total	1,890	306	9	18	52	79	(s)	13	2,288
2003 Total	1,931	278	12	18	69	98	(s)	11	2,319
2004 Total	1,943	297	8	23	69	100	(s)	11	2.352
2005 Total	1,984	319	8	25	69	102	(s)	11	2,417
2006 Total	1,954	338	5	22	28	56	(s)	12	2,359
							. ,		
2007 Total	1,987	372	7	17	31	55	(s)	11	2,426
2008 Total	1,959	362	5	16	19	40	(s)	12	2,374
2009 Total	1,741	373	5	14	14	34	(s)	11	2,159
2010 January	170	30	1	1	1	4	(s)	1	204
February	150	26	(s)	1	1	2	(s)	1	179
March	143	25	(s)	1	1	2	(s)	1	171
April	125	25	(s)	i	i	2	(s)	i	154
	142	30		1	1	3	\ /	1	176
May			(s)	•			(s)		
June	163	38	1	1	2	4	(s)	1	206
July	177	48	1	2	2	4	(s)	1	231
August	177	51	(s)	1	2	3	(s)	1	232
September	148	38	(s)	1	1	2	(s)	1	189
October	132	31	(s)	1	1	2	(s)	1	166
November	136	27	(s)	1	i	2	(s)	1	166
	165	31	1	1	1	3		1	200
December Total	1,828	399	6	15	12	33	(s) (s)	11	2,271
	•						. ,		•
2011 January	166	29	1	2	1	3	(s)	1	199
February	135	26	(s)	1	1	2	(s)	1	164
March	133	26	(s)	1	1	2	(s)	1	163
April	123	28	(s)	1	1	2	(s)	1	155
May	135	31	(s)	1	1	2	(s)	1	169
June	155	38	(s)	1	1	2	(s)	i	196
		51		-	1	3		1	228
July	173		(s)	1			(s)		
August	170	50	(s)	1	1	2	(s)	1	223
September	141	37	(s)	1	. 1	2	(s)	1	181
October	128	31	(s)	1	(s)	2	(s)	1	162
November	123	29	(s)	1	(s)	2	(s)	1	155
December	135	33	(s)	1	(s)	2	(s)	1	171
Total	1,718	411	5	14	7	25	(s)	11	2,166
2012 January	130	35	(s)	1	1	2	(s)	1	168
				-					
February	116	35	(s)	1	(s)	2	(s)	1	153
March	106	37	(s)	1	(s)	1	(s)	1	145
April	95	39	(s)	1	(s)	1	(s)	1	136
May	116	44	(s)	1	(s)	1	(s)	1	163
June	132	48	(s)	1	1	2	(s)	1	183
6-Month Total	695	238	2	4	3	9	(s)	5	948
2011 6-Month Total	848	179	2	7	4	13	(s)	5	1.046
2010 6-Month Total	892	174	3	8	6	16	(s) (s)	5	1,088

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Natural gas, excluding supplemental gaseous fuels.

Sources: See end of section.

^c Distillate fuel oil, excluding biodiesel.

d Municipal solid waste from non-biogenic sources, and tire-derived fuels.

^e Excludes emissions from biomass energy consumption. See Table 12.7. NA=Not available. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section.

[•] See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," 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/#environment for all available data beginning in 1973.

Table 12.7 Carbon Dioxide Emissions From Biomass Energy Consumption

	By Source						By Sector						
	Woodb	Biomass Waste ^c	Fuel Ethanol ^d	Bio- diesel	Total	Resi- dential	Com- mercial ^e	Indus- trial ^f	Trans- portation	Electric Power ^g	Total		
1973 Total	143	(s)	NA	NA	143	33	1	109	NA	(s)	143		
1975 Total	140	(s)	NA	NA	141	40	1	100	NA	(s)	141		
1980 Total	232	(s)	NA	NA	232	80	2	150	NA	(s)	232		
1985 Total	252	14	3	NA	270	95	2	168	3	1	270		
1990 Total	208	24	4	NA	237	54	8	147	4	23	237		
1995 Total	222	30	8	NA	260	49	9	166	8	28	260		
1996 Total	229	32	6	NA	266	51	10	170	6	30	266		
1997 Total	222	30	7	NA	259	40	10	172	7	30	259		
1998 Total	205	30	8	NA	242	36	9	160	8	30	242		
1999 Total	208	29	8	NA	245	37	9	161	8	30	245		
2000 Total	212	27	9	NA	248	39	9	161	9	29	248		
2001 Total	188	33	10	(s)	231	35	9	147	10	31	231		
2002 Total	187	36	12	(s)	235	36	9 9	144	12	35	235		
2003 Total	188 199	36 35	16 20	(s)	240 255	38 38	10	141 151	16 20	37 36	240 255		
2004 Total 2005 Total	200	35 37	23	(s)	255 261	40	10	150	23	36 37	255 261		
2006 Total	197	36	23 31	2	266	36	9	151	33	38	266		
2007 Total	194	37	39	3	274	38	9	146	41	39	274		
2008 Total	191	40	55	3	289	42	10	140	57	40	289		
2009 Total	177	41	62	3	284	40	10	128	64	41	284		
2010 January	16	4	6	(s)	25	3	1	12	6	4	25		
February	14	3	5	(s)	23	3	1	11	5	3	23		
March	16	4	6	(s)	25	3	1	12	6	4	25		
April	15	4	6	(s)	25	3	1	11	6	3	25		
May	15	4	6	(s)	25	3	1	11	6	3	25		
June	15	4	6	(s)	25	3	1	11	6	4	25		
July	16	4	6	(s)	26	3	1	12	6	4	26		
August	16	4	6	(s)	26	3	1	12	6	4	26		
September	16	3	6	(s)	25	3	1	12	6	3	25		
October	16	4	6	(s)	26	3	1	12	6	3	26		
November	15	4	6	(s)	25	3	1	12	6	4	25		
December Total	16 186	4 43	6 73	(s) 2	27 304	3 39	1 10	12 139	6 74	4 42	27 304		
2011 January	16	4	6	(s)	26	3	1	12	6	3	26		
February	15	3	6	(s)	24	3	i	11	6	3	24		
March	16	4	6	(s)	26	3	1	12	6	3	26		
April	15	3	6	`1	25	3	1	11	6	3	25		
May	15	4	6	1	26	3	1	11	7	3	26		
June	16	4	6	1	R 27	3	1	12	7	3	R 27		
July	16	4	6	1	^R 26	3	1	12	7	4	^R 26		
August	16	4	7	1	27	3	1	12	7	4	27		
September	15	4	6	1	26	3	1	12	7	3	26		
October	15	4	6	1	26	3	1	11	7	3	26		
November	15	4	6	1	26	3	1	12	7	3	26		
December Total	16 186	4 43	6 73	1 8	R 28 311	3 40	1 10	12 140	7 80	4 41	R 28 311		
2012 January	16	4	6	(s)	26	3	1	12	6	4	26		
February	15	3	6	(5)	25	3	1	11	6	3	25		
March	15	4	6	i	26	3	i	11	7	3	26		
April	14	4	6	i	25	3	i	11	7	3	25		
May	15	4	6	i	27	3	i	12	7	3	27		
June	15	4	6	<u>i</u>	26	3	i	11	7	3	26		
6-Month Total	91	21	36	4	153	20	5	68	40	20	153		
2011 6-Month Total	92	21	36	3	152	20	5	69	38	20	152		

Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 Wood and wood-derived fuels.

R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons. Notes: • Carbon dioxide emissions from biomass energy consumption are excluded from the energy-related carbon dioxide emissions reported in Tables 12.1–12.6. See Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," 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/#environment for all available data beginning in 1973.

Sources: See end of section.

Wood and wood-derived ruels.
 Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.
 Fuel ethanol minus denaturant.

d Fuel ethanol minus denaturant.

e Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

f Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

Industrial sector, including industrial combined-riear-and-power (Cri.) and industrial electricity-only plants.

§ 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.

Environment

Note 1. Emissions of Carbon Dioxide and Other Greenhouse Gases. Greenhouse gases are those gases—such as water vapor, carbon dioxide (CO₂), methane, nitrous oxide, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride—that are transparent to solar (shortwave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Energy-related carbon dioxide emissions account for about 98 percent of U.S. CO₂ emissions. The vast majority of CO₂ emissions come from fossil fuel combustion, with smaller amounts from the nonfuel use of fossil fuels, as well as from electricity generation using geothermal energy and non-biomass waste. Other sources of CO₂ emissions include industrial processes, such as cement and limestone production. Data in the U.S. Energy Information Administration's (EIA) *Monthly Energy Review (MER)* Tables 12.1–12.6 are estimates for U.S. CO₂ emissions from energy consumption, including the nonfuel use of fossil fuels (excluded are estimates for CO₂ emissions from biomass energy consumption, which appear in Table 12.7).

For annual U.S. estimates for emissions of CO₂ from all sources, as well as for emissions of other greenhouse gases, see EIA's *Emissions of Greenhouse Gases Report* at http://www.eia.gov/environment/emissions/ghg report/.

Note 2. Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion. Carbon dioxide (CO₂) emissions from the combustion of biomass to produce energy are excluded from the energy-related CO₂ emissions reported in MER Tables 12.1-12.6, but appear in Table 12.7. According to current international convention (see the Intergovernmental Panel on Climate Change's "2006 IPCC Guidelines for National Greenhouse Gas Inventories"), carbon released through biomass combustion is excluded from reported energy-related emissions. The release of carbon from biomass combustion is assumed to be balanced by the uptake of carbon when the feedstock is grown, resulting in zero net emissions over some period of time. (This is not to say that biomass energy is carbon-neutral. Energy inputs are required in order to grow, fertilize, and harvest the feedstock and to produce and process the biomass into fuels.)

However, analysts have debated whether increased use of biomass energy may result in a decline in terrestrial carbon stocks, leading to a net positive release of carbon rather than the zero net release assumed by its exclusion from reported energy-related emissions. For example, the clearing of forests for biofuel crops could result in an initial release of carbon that is not fully recaptured in subsequent use of the land for agriculture.

To reflect the potential net emissions, the international convention for greenhouse gas inventories is to report biomass emissions in the category "agriculture, forestry, and other land use," usually based on estimates of net changes in carbon stocks over time.

This indirect accounting of CO₂ emissions from biomass can potentially lead to confusion in accounting for and understanding the flow of CO₂ emissions within energy and nonenergy systems. In recognition of this issue, reporting of CO₂ emissions from biomass combustion alongside other energy-related CO₂ emissions offers an alternative accounting treatment. It is important, however, to avoid misinterpreting emissions from fossil energy and biomass energy sources as necessarily additive. Instead, the combined total of direct CO₂ emissions from biomass and energy-related CO₂ emissions implicitly assumes that none of the carbon emitted was previously or subsequently reabsorbed in terrestrial sinks or that other emissions sources offset any such sequestration.

Section 12 Methodology and Sources

To estimate carbon dioxide emissions from energy consumption for the *Monthly Energy Review (MER)*, Tables 12.1–12.7, the U.S. Energy Information Administration (EIA) uses the following methodology and sources:

Step 1. Determine Fuel Consumption

Coal—Coal sectoral (residential, commercial, coke plants, other industrial, transportation, electric power) consumption data in thousand short tons are from MER Table 6.2. Coal sectoral consumption data are converted to trillion Btu by multiplying by the coal heat content factors in MER Table A5

Coal Coke Net Imports—Coal coke net imports data in trillion Btu are derived from coal coke imports and exports data in MER Tables 1.4a and 1.4b.

Natural Gas (excluding supplemental gaseous fuels)—Natural gas sectoral consumption data in trillion Btu are from MER Tables 2.2–2.6.

Petroleum—Total and sectoral consumption (product supplied) data in thousand barrels per day for asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, liquefied petroleum gases (LPG), lubricants, motor gasoline, petroleum coke, and residual fuel oil are from MER Tables 3.5 and 3.7a-3.7c. For the component products of LPG (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene) and "other petroleum" (aviation gasoline blending components, crude oil, motor gasoline blending components, naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products), consumption (product supplied) data in thousand barrels per day are from EIA's Petroleum Supply Annual (PSA), Petroleum Supply Monthly (PSM), and earlier publications (see sources for MER Table 3.5). Petroleum consumption data by product are converted to trillion Btu by multiplying by the petroleum heat content factors in MER Table A1 (Table A3 for motor gasoline).

Biomass—Sectoral consumption data in trillion Btu for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are from MER Tables 10.2a–10.2c.

Step 2. Remove Biofuels From Petroleum

Distillate Fuel Oil—Beginning in 2009, the distillate fuel oil data (for total and transportation sector) in Step 1 include biodiesel, a non-fossil renewable fuel. To remove the biodiesel portion from distillate fuel oil, data in thousand barrels per day for refinery and blender net inputs of renewable diesel fuel (from the PSA/PSM) are converted to trillion Btu by multiplying by the biodiesel heat content factor in MER Table A3, and then subtracted from the distillate fuel oil consumption values.

Motor Gasoline—Beginning in 1993, the motor gasoline data (for total, commercial sector, industrial sector, and transportation sector) in Step 1 include fuel ethanol, a nonfossil renewable fuel. To remove the fuel ethanol portion from motor gasoline, data in trillion Btu for fuel ethanol consumption (from MER Tables 10.2a, 10.2b, and 10.3) are subtracted from the motor gasoline consumption values. (Note that about 2 percent of fuel ethanol is fossilbased petroleum denaturant, to make the fuel ethanol For 1993-2008, petroleum denaturant is undrinkable. double counted in the PSA product supplied statistics, in both the original product category—e.g., pentanes plus—and also in the finished motor gasoline category; for this time period for MER Section 12, petroleum denaturant is removed along with the fuel ethanol from motor gasoline, but left in the original product. Beginning in 2009, petroleum denaturant is counted only in the PSA/PSM product supplied statistics for motor gasoline; for this time period for MER Section 12, petroleum denaturant is left in motor gasoline.)

Step 3. Remove Carbon Sequestered by Nonfuel Use

The following fuels have industrial nonfuel uses as chemical feedstocks and other products: coal, natural gas, asphalt and road oil, distillate fuel oil, liquefied petroleum gases (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene), lubricants (which have industrial and transportation nonfuel uses), naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, petroleum coke, residual fuel oil, special naphthas, still gas, waxes, and miscellaneous petroleum products. In the nonfuel use of these fuels, some of the carbon is sequestered, and is thus subtracted from the fuel consumption values in Steps 1 and 2.

Estimates of annual nonfuel use and associated carbon sequestration are developed by EIA using the methodology

detailed in "Documentation for *Emissions of Greenhouse Gases in the United States* 2008" at http://www.eia.gov/oiaf/1605/ggrpt/documentation/pdf/0638(2006).pdf.

To obtain monthly estimates of nonfuel use and associated carbon sequestration, monthly patterns for industrial consumption and product supplied data series are used. For coal nonfuel use, the monthly pattern for coke plants coal consumption from MER Table 6.2 is used. For natural gas, the monthly pattern for other industrial non-CHP natural gas consumption from MER Table 4.3 is used. For distillate fuel oil, petroleum coke, and residual fuel oil, the monthly patterns for industrial consumption from MER Table 3.7b are used. For the other petroleum products, the monthly patterns for product supplied from the PSA and PSM are used.

Step 4. Determine Carbon Dioxide Emissions From Energy Consumption

Carbon dioxide (CO₂) emissions data in million metric tons are calculated by multiplying consumption values in trillion Btu from Steps 1 and 2 (minus the carbon sequestered in nonfuel use in Step 3) by the CO₂ emissions factors at http://www.eia.gov/oiaf/1605/ggrpt/excel/CO2_coeffs_09_v2.xls. Beginning in 2010, the 2009 factors are used.

Coal—CO₂ emissions for coal are calculated for each sector (residential, commercial, coke plants, other industrial, transportation, electric power). Total coal emissions are the sum of the sectoral coal emissions.

Coal Coke Net Imports—CO₂ emissions for coal coke net imports are calculated.

Natural Gas—CO₂ emissions for natural gas are calculated for each sector (residential, commercial, industrial, transportation, electric power). Total natural gas emissions are the sum of the sectoral natural gas emissions.

Petroleum—CO₂ emissions are calculated for each petroleum product. Total petroleum emissions are the sum of the product emissions. Total LPG emissions are the sum of the emissions for the component products (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene); residential, commercial, and transportation sector LPG emissions are estimated by multiplying consumption values in trillion Btu from MER Tables 3.8a and 3.8c by the propane emissions factor; industrial sector LPG emissions are estimated as total LPG emissions minus emissions by the other sectors.

Geothermal and Non-Biomass Waste—Annual CO₂ emissions data for geothermal and non-biomass waste are EIA estimates based on Form EIA-923, "Power Plant Operations Report" (and predecessor forms). Monthly estimates are created by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month. (Annual estimates for the current year are set equal to those of the previous year.)

Biomass—CO₂ emissions for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are calculated for each sector. Total emissions for each biomass fuel are the sum of the sectoral emissions. The following factors, in million metric tons CO₂ per quadrillion Btu, are used: wood—93.80; biomass waste—90.70; fuel ethanol—68.44; and biodiesel—73.84. For 1973–1988, the biomass portion

of waste in MER Tables 10.2a–10.2c is estimated as 67 percent; for 1989–2000, the biomass portion of waste is estimated as 67 percent in 1989 to 58 percent in 2000, based on the biogenic shares of total municipal solid waste shown in EIA's "Methodolology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy," Table 1 at http://www.eia.gov/cneaf/solar.renewables/page/mswaste/msw.pdf.

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Appendix A

British Thermal Unit Conversion Factors

The thermal conversion factors presented in the following tables can be used to estimate the heat content in British thermal units (Btu) of a given amount of energy measured in physical units, such as barrels or cubic feet. For example, 10 barrels of asphalt has a heat content of approximately 66.36 million Btu (10 barrels x 6.636 million Btu per barrel = 66.36 million Btu).

The heat content rates (i.e., thermal conversion factors) provided in this section represent the gross (or higher or upper) energy content of the fuels. Gross heat content rates are applied in all Btu calculations for the *Monthly Energy Review* and are commonly used in energy calculations in the United States; net (or lower) heat content rates are typically used in European energy calculations. The difference between the two rates is the amount of energy that is consumed to vaporize water that is created during the combustion process. Generally, the difference ranges from 2 percent to 10 percent, depending on the specific fuel and its hydrogen content. Some fuels, such as unseasoned wood, can be more than 40 percent different in their gross

and net heat content rates. See "Heat Content" and "British Thermal Unit (Btu)" in the Glossary for more information.

Thermal conversion factors for hydrocarbon mixes (Table A1) are weighted averages of the thermal conversion factors for each hydrocarbon included in the mix. For example, in calculating the thermal conversion factor for a 60-40 butane-propane mixture, the thermal conversion factor for butane is weighted 1.5 times the thermal conversion factor for propane.

In general, the annual thermal conversion factors presented in Tables A2 through A6 are computed from final annual data or from the best available data and labeled "preliminary." Often, the previous year's factor is used as a preliminary value until data become available to calculate the factor appropriate to the year. The source of each factor is described in the section entitled "Thermal Conversion Factor Source Documentation," which follows Table A6 in this appendix.

Table A1. Approximate Heat Content of Petroleum Products (Million Btu per Barrel)

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	6.636	Pentanes Plus	4.620
Aviation Gasoline	5.048	Petrochemical Feedstocks	
Butane	4.326	Naptha Less Than 401°F	5.248
Butane-Propane Mixture ^a	4.130	Other Oils Equal to or Greater Than 401°F	5.825
Distillate Fuel Oil ^b	5.825	Still Gas	6.000
Ethane	3.082	Petroleum Coke	6.024
Ethane-Propane Mixture ^c	3.308	Plant Condensate	5.418
Isobutane	3.974	Propane	3.836
Jet Fuel, Kerosene Type	5.670	Residual Fuel Oil	6.287
Jet Fuel, Naphtha Type	5.355	Road Oil	6.636
Kerosene	5.670	Special Naphthas	5.248
Lubricants	6.065	Still Gas	6.000
Motor Gasolined		Unfinished Oils	5.825
Conventional	5.253	Unfractionated Stream	5.418
Reformulated	5.150	Waxes	5.537
Oxygenated	5.150	Miscellaneous	5.796
Natural Gasoline and Isopentane	4.620		

^a 60 percent butane and 40 percent propane.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

^b Does not include biodiesel. See Table A3 for biodiesel heat contents.

^{° 70} percent ethane and 30 percent propane.

^d See Table A3 for motor gasoline weighted heat contents beginning in 1994, and for fuel ethanol heat contents.

Table A2. Approximate Heat Content of Petroleum Production, Imports, and Exports (Million Btu per Barrel)

	Pro	Production		Imports			Exports	
	Crude Oil ^a	Natural Gas Plant Liquids	Crude Oil ^a	Petroleum Products	Total	Crude Oil ^a	Petroleum Products	Total
1973	. 5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752
1974		4.011	5.827	5.959	5.884	5.800	5.773	5.774
		3.984	5.821	5.935	5.858	5.800	5.747	5.748
1975								
1976		3.964	5.808	5.980	5.856	5.800	5.743	5.745
1977		3.941	5.810	5.908	5.834	5.800	5.796	5.797
1978		3.925	5.802	5.955	5.839	5.800	5.814	5.808
1979		3.955	5.810	5.811	5.810	5.800	5.864	5.832
1980		3.914	5.812	5.748	5.796	5.800	5.841	5.820
1981		3.930	5.818	5.659	5.775	5.800	5.837	5.821
1982		3.872	5.826	5.664	5.775	5.800	5.829	5.820
1983		3.839	5.825	5.677	5.774	5.800	5.800	5.800
1984	. 5.800	3.812	5.823	5.613	5.745	5.800	5.867	5.850
1985	. 5.800	3.815	5.832	5.572	5.736	5.800	5.819	5.814
1986	. 5.800	3.797	5.903	5.624	5.808	5.800	5.839	5.832
1987	. 5.800	3.804	5.901	5.599	5.820	5.800	5.860	5.858
1988		3.800	5.900	5.618	5.820	5.800	5.842	5.840
1989		3.826	5.906	5.641	5.833	5.800	5.869	5.857
1990		3.822	5.934	5.614	5.849	5.800	5.838	5.833
1991		3.807	5.948	5.636	5.873	5.800	5.827	5.823
1992		3.804	5.953	5.623	5.877	5.800	5.774	5.777
1993		3.801	5.954	5.620	5.883	5.800	5.777	5.779
		3.794		5.534				
994			5.950		5.861	5.800	5.777	5.779
1995		3.796	5.938	5.483	5.855	5.800	5.740	5.746
1996		3.777	5.947	5.468	5.847	5.800	5.728	5.736
1997		3.762	5.954	5.469	5.862	5.800	5.726	5.734
1998		3.769	5.953	5.462	5.861	5.800	5.710	5.720
1999		3.744	5.942	5.421	5.840	5.800	5.684	5.699
2000	. 5.800	3.733	5.959	5.432	5.849	5.800	5.651	5.658
2001		3.735	5.976	5.443	5.862	5.800	5.751	5.752
2002	. 5.800	3.729	5.971	5.451	5.863	5.800	5.687	5.688
2003	. 5.800	3.739	5.970	5.438	5.857	5.800	5.739	5.740
2004	. 5.800	3.724	5.981	5.475	5.863	5.800	5.753	5.754
2005		3.724	5.977	5.474	5.845	5.800	5.741	5.743
2006		3.712	5.980	5.454	5.842	5.800	5.723	5.724
2007		3.701	5.985	5.503	5.862	5.800	5.749	5.750
2008		3.706	5.990	5.479	5.866	5.800	5.762	5.762
2009		3.692	5.988	5.525	5.882	5.800	5.737	5.738
2010		3.674	5.989	5.557	5.894	5.800	5.670	5.672
2011		R 3.672	R 6.008	R 5.507	R 5.896	5.800	R 5.596	R 5.599
2012 ^E	. 5.800	R 3.672	R 6.008	R 5.507	R 5.896	5.800	R 5.596	R 5.599
٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠٠	. 5.000	3.072	0.006	5.507	5.090	5.000	5.590	5.599

a Includes lease condensate.
 R=Revised. E=Estimate.
 Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.
 Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.
 Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A3. Approximate Heat Content of Petroleum Consumption and Biofuels Production (Million Btu per Barrel)

	Total Petroleum ^a Consumption by Sector					Liquefied Petroleum	Motor		Fuel Ethanol		Biodiesel	
	Resi- dential	Com- mercial ^b	Indus- trial ^b	Trans- portation ^{b,c}	Electric Power ^{d,e}	Total ^{b,c}	Gases Con- sumption ^f	Gasoline Con- sumption ^g	Fuel Ethanol ^h	Feed- stock Factor	Biodiesel	Feed- stock Factor
1973	5.258	5.689	5.557	5.396	6.245	5.515	3.746	5.253	NA NA	NA	NA	NA
1974	5.253	5.683	5.525	5.394	6.238	5.504	3.730	5.253	NA NA	NA	NA	NA
1975	5.253	5.649	5.513	5.392	6.250	5.494	3.715	5.253	NA	NA	NA	NA
1976	5.277	5.672	5.523	5.396	6.251	5.504	3.711	5.253	NA	NA	NA	NA
1977	5.285	5.682	5.539	5.401	6.249	5.518	3.677	5.253	NA	NA	NA	NA
1978	5.287	5.665	5.536	5.405	6.251	5.519	3.669	5.253	NA	NA	NA	NA
1979	5.365	5.717	5.409	5.429	6.258	5.494	3.680	5.253	NA	NA	NA	NA
1980	5.321	5.751	5.366	5.441	6.254	5.479	3.674	5.253	3.563	6.586	NA	NA
1981	5.283	5.693	5.299	5.433	6.258	5.448	3.643	5.253	3.563	6.562	NA	NA
1982	5.266	5.698	5.247	5.423	6.258	5.415	3.615	5.253	3.563	6.539	NA	NA
1983	5.140	5.591	5.254	5.416	6.255	5.406	3.614	5.253	3.563	6.515	NA	NA
1984	5.307	5.657	5.207	5.418	6.251	5.395	3.599	5.253	3.563	6.492	NA	NA
1985	5.263	5.598	5.199	5.423	6.247	5.387	3.603	5.253	3.563	6.469	NA	NA
1986	5.268	5.632	5.269	5.426	6.257	5.418	3.640	5.253	3.563	6.446	NA	NA
1987	5.239	5.594	5.233	5.429	6.249	5.403	3.659	5.253	3.563	6.423	NA	NA
1988	5.257	5.597	5.228	5.433	6.250	5.410	3.652	5.253	3.563	6.400	NA	NA
1989	5.194	5.549	5.219	5.438	^d 6.240	5.410	3.683	5.253	3.563	6.377	NA	NA
1990	5.145	5.553	5.253	5.442	6.244	5.411	3.625	5.253	3.563	6.355	NA	NA
1991	5.094	5.528	5.167	5.441	6.246	5.384	3.614	5.253	3.563	6.332	NA	NA
1992	5.124	5.513	5.168	5.443	6.238	5.378	3.624	5.253	3.563	6.309	NA	NA
1993	5.102	^b 5.505	^b 5.178	^b 5.436	6.230	^b 5.379	3.606	5.253	3.563	6.287	NA	NA
1994	5.098	5.515	5.150	5.424	6.213	5.361	3.635	5.230	3.563	6.264	NA	NA
1995	5.063	5.478	5.121	5.417	6.188	5.341	3.623	5.215	3.563	6.242	NA	NA
1996	4.998	5.433	5.114	5.420	6.195	5.336	3.613	5.216	3.563	6.220	NA	NA
1997	4.989	5.391	5.120	5.416	6.199	5.336	3.616	5.213	3.563	6.198	NA	NA
1998	4.975	5.365	5.137	5.413	6.210	5.349	3.614	5.212	3.563	6.176	NA	NA
1999	4.902	5.291	5.092	5.413	6.205	5.328	3.616	5.211	3.563	6.167	NA	NA
2000	4.908	5.316	5.057	5.422	6.189	5.326	3.607	5.210	3.563	6.159	NA	NA
2001	4.937	5.325	5.142	5.412	6.199	5.345	3.614	5.210	3.563	6.151	5.359	5.433
2002	4.886	5.293	5.093	5.411	6.173	5.324	3.613	5.208	3.563	6.143	5.359	<i>5.43</i> 3
2003	4.907	5.307	5.142	5.409	6.182	5.340	3.629	5.207	3.563	6.116	5.359	<i>5.43</i> 3
2004	4.953	5.328	5.144	5.421	6.192	5.350	3.618	5.215	3.563	6.089	5.359	<i>5.43</i> 3
2005	4.916	5.364	5.178	5.427	6.188	5.365	3.620	5.218	3.563	6.063	5.359	5.433
2006	4.894	5.310	5.160	5.431	6.143	5.353	3.605	5.218	3.563	6.036	5.359	<i>5.43</i> 3
2007	4.850	5.298	5.127	5.434	6.151	5.346	3.591	5.219	3.563	6.009	5.359	<i>5.43</i> 3
2008	4.732	5.175	5.149	5.426	6.123	5.339	3.600	5.218	3.563	5.983	5.359	<i>5.43</i> 3
2009	4.691	5.266	5.018	^c 5.414	6.105	^c 5.301	3.558	5.218	3.563	5.957	5.359	<i>5.43</i> 3
2010	4.692	5.263	4.988	5.421	6.084	5.297	3.557	5.218	3.561	5.931	5.359	<i>5.43</i> 3
2011	RE 4.676	RE 5.243	RE 4.953	RE 5.424	P 6.062	R 5.286	R 3.541	_5.218	_ 3.560	5.905	5.359	<i>5.43</i> 3
2012	RE 4.676	RE 5.243	RE 4.953	^{RE} 5.424	E 6.062	RE 5.286	RE 3.541	^E 5.218	E 3.560	5.880	5.359	<i>5.43</i> 3

a Petroleum products supplied, including natural gas plant liquids and crude oil burned directly as fuel. Quantity-weighted averages of the petroleum products included in each category are calculated by using heat content values shown in Table A1.

R=Revised. P=Preliminary. E=Estimate. NA=Not available.

Note: The heat content values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.
Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Beginning in 1993, includes fuel ethanol blended into motor gasoline.

Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

d 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.

^e Electric power sector factors are weighted average heat contents for distillate fuel oil, petroleum coke, and residual fuel oil; they exclude other liquids.

^f Quantity-weighted averages of the major components of liquefied petroleum gases are calculated by using heat content values shown in Table A1.

⁹ There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a quantity-weighted

factor—quantity-weighted averages of the major components of motor gasoline, including fuel ethanol, are calculated by using heat content values shown in Table A1.

h Includes denaturant (petroleum added to ethanol to make it undrinkable). Fuel ethanol factors are weighted average heat contents for undenatured ethanol (3.539 million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as denaturant (5.253 million Btu per barrel). The factor for 2009 is used as the estimated factor for 1980-2008.

Corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol), used as the factor to estimate total biomass inputs to the production of undenatured ethanol. Observed ethanol vields (gallons undenatured ethanol per bushel of corn) are 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; yields in other years are estimated. Corn is assumed to have a gross heat content of 0.392 million Btu per bushel. Undenatured ethanol is assumed to have a gross heat content of 3.539 million Btu per barrel.

J Soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel), used as the factor to estimate total biomass inputs to the production of biodiesel. It is assumed that 7.65 pounds of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. Soybean oil is assumed to have a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel. Biodiesel is assumed to have a gross heat content of 17,253 Btu per pound, or 5.359 million Btu per barrel.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Production			Consumption ^a			
	Marketed	Dry	End-Use Sectors ^b	Electric Power Sector ^c	Total	Imports	Exports
973	1,093	1,021	1,020	1,024	1,021	1,026	1,023
974	1,097	1,024	1,024	1,022	1,024	1,027	1,016
975	1,095	1,021	1,020	1,026	1,021	1,026	1,014
976	1.093	1.020	1.019	1.023	1.020	1.025	1.013
977	1,093	1,021	1,019	1,029	1,021	1,026	1,013
78	1,088	1,019	1,016	1,034	1,019	1.030	1,013
	1,092	1,019	1,018	1,034	1,019	1,037	1,013
979 980	1,098	1,021	1,016		1,021	,	1,013
	1,096	,	1,024	1,035	1,026	1,022	
981 982	1,103	1,027 1.028	1,025	1,035 1,036	1,027	1,014	1,011 1,011
						1,018	
983	1,115	1,031	1,031	1,030	1,031	1,024	1,010
984	1,109	1,031	1,030	1,035	1,031	1,005	1,010
985	1,112	1,032	1,031	1,038	1,032	1,002	1,011
986	1,110	1,030	1,029	1,034	1,030	997	1,008
987	1,112	1,031	1,031	1,032	1,031	999	1,011
988	1,109	1,029	1,029	1,028	1,029	1,002	1,018
89	1,107	1,031	1,031	^c 1,028	1,031	1,004	1,019
90	1,105	1,029	1,030	1,027	1,029	1,012	1,018
91	1,108	1,030	1,031	1,025	1,030	1,014	1,022
92	1,110	1,030	1,031	1,025	1,030	1,011	1,018
993	1,106	1,027	1,028	1,025	1,027	1,020	1,016
994	1,105	1.028	1.029	1.025	1,028	1.022	1,011
95	1,106	1,026	1,027	1,021	1,026	1,021	1,011
96	1,109	1,026	1,027	1,020	1,026	1,022	1,011
97	1,107	1.026	1.027	1,020	1,026	1.023	1,011
998	1,109	1,031	1,033	1,024	1,031	1,023	1,011
999	1,107	1,027	1,028	1,022	1,027	1,022	1,006
000	1,107	1,025	1,026	1,021	1,025	1,023	1,006
001	1,107	1,023	1.029	1.026	1.028	1.023	1,000
002	1,103	1,026	1,025	1,020	1,024	1,023	1,008
	1,103	1,024	1,025	1,025	1,024	1,022	1,008
003			1,029				
004	1,104	1,026		1,027	1,026	1,025	1,009
005	1,104	1,028	1,028	1,028	1,028	1,025	1,009
006	1,103	1,028	1,028	1,028	1,028	1,025	1,009
007	1,102	1,027	1,027	1,027	1,027	1,025	1,009
800	1,100	1,027	1,027	1,027	1,027	1,025	1,009
009	1,101	1,025	1,025	1,025	1,025	1,025	1,009
010	_ 1,097	_ 1,023	_ 1,023	_ 1,022	_ 1,023	_ 1,025	_ 1,009
)11	E 1,097	E 1,022	E 1,023	P 1,021	E 1,022	E 1,025	E 1,009
012	E 1,097	E 1,022	E 1.023	E 1,021	E 1.022	E 1.025	E 1.009

a Consumption factors are for natural gas, plus a small amount of supplemental gaseous fuels.
 b Residential, commercial, industrial, and transportation sectors.
 c 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. P=Preliminary. E=Estimate.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A5. Approximate Heat Content of Coal and Coal Coke

(Million Btu per Short Ton)

	Coal									
				С	onsumption					
		Waste	Residential and	Industrial	Sector	Electric				Imports
	Production ^a	Coal Supplied ^b	Commercial Sectors	Coke Plants	Other ^c	Power Sector ^{d,e}	Total	Imports	Exports	Imports and Exports
1973	. 23.376	NA	22.831	26.780	22.586	22.246	23.057	25.000	26.596	24.800
1974		NA	22,479	26.778	22,419	21.781	22.677	25.000	26.700	24.800
1975		NA	22.261	26.782	22.436	21.642	22.506	25.000	26.562	24.800
1976		NA	22.774	26.781	22.530	21.679	22.498	25.000	26.601	24.800
1977		NA	22.919	26.787	22.322	21.508	22.265	25.000	26.548	24.800
1978		NA	22.466	26.789	22.207	21.275	22.017	25.000	26.478	24.800
1979			22.242		22.452	21.364	22.100			
1980		NA NA	22.543	26.788 26.790	22.452	21.295	21.947	25.000 25.000	26.548 26.384	24.800 24.800
1981		NA	22.474	26.794	22.585	21.085	21.713	25.000	26.160	24.800
1982		NA	22.695	26.797	22.712	21.194	21.674	25.000	26.223	24.800
1983		NA	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800
1984		NA	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800
1985		NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
1986		NA	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800
1987	. 21.922	NA	23.404	26.799	22.381	21.136	21.517	25.000	26.291	24.800
1988		. NA	23.571	26.799	22.360	20.900	21.328	25.000	26.299	24.800
1989	. 21.765	^b 10.391	23.650	26.800	22.347	^d 20.898	21.307	25.000	26.160	24.800
1990	. 21.822	9.303	23.137	26.799	22.457	20.779	21.197	25.000	26.202	24.800
1991		10.758	23.114	26.799	22.460	20.730	21.120	25.000	26.188	24.800
1992	. 21.682	10.396	23.105	26.799	22.250	20.709	21.068	25.000	26.161	24.800
1993		10.638	22.994	26.800	22.123	20.677	21.010	25.000	26.335	24.800
1994		11.097	23.112	26.800	22.068	20.589	20.929	25.000	26.329	24.800
1995		11.722	23.118	26.800	21.950	20.543	20.880	25.000	26.180	24.800
1996		12.147	23.011	26.800	22.105	20.547	20.870	25.000	26.174	24.800
1997		12.158	22.494	26.800	22.172	20.518	20.830	25.000	26.251	24.800
1998		12.639	21.620	27.426	23.164	20.516	20.881	25.000	26.800	24.800
1999	. 21.070	12.552	23.880	27.426	22.489	20.490	20.818	25.000	26.081	24.800
2000		12.360	25.020	27.426	22.433	20.511	20.828	25.000	26.117	24.800
2001		12.169	24.909	27.426	22.622	20.337	20.671	25.000	25.998	24.800
		12.165	22.962	27.426	22.562	20.238	20.571	25.000	26.062	24.800
2002										
2003		12.360	22.242	27.425	22.468	20.082	20.387	25.000	25.972	24.800
2004		12.266	22.324	27.426	22.473	19.980	20.290	25.000	26.108	24.800
2005		12.093	22.342	26.279	22.178	19.988	20.246	25.000	25.494	24.800
2006		12.080	22.066	26.271	22.050	19.931	20.181	25.000	25.453	24.800
2007		12.090	22.069	26.329	22.371	19.909	20.168	25.000	25.466	24.800
2008	. 20.208	12.121	21.887	26.281	22.348	19.713	19.977	25.000	25.399	24.800
2009	. 19.963	12.076	22.059	26.334	21.893	19.521	19.742	25.000	25.633	24.800
2010	. 20.173	11.960	21.826	26.296	21.005	19.623	19.832	25.000	25.713	24.800
2011 ^P		11.604	20.724	26.300	20.588	19.370	19.583	25.000	25.645	24.800
2012 ^E	. 20.136	11.604	20.724	26.300	20.588	19.370	19.583	25.000	25.645	24.800

^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

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/lotalenergy/data/monthly/#appendices.
Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

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 by 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 by Waste coal included in "Consumption."

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 Includes transportation. Excludes coal synfuel plants.

d 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.

^e Electric power sector factors are for anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and, beginning in 1998, coal synfuel.

P=Preliminary. E=Estimate. NA=Not available.

Table A6. Approximate Heat Rates for Electricity, and Heat Content of Electricity

(Btu per Kilowatthour)

	Approximate Heat Rates ^a for Electricity Net Generation								
		Fossil	Fuels ^b		Nuclear ^h	Noncombustible			
	Coalc	Petroleum ^d	Natural Gas ^e	Total Fossil Fuels ^{f,g}		Renewable Energy ^{g,i}	Heat Content ^j of Electricity ^k		
1973	NA	NA	NA	10.389	10.903	10.389	3.412		
1974	NA NA	NA NA	NA NA	10,369	11,161	10,369	3,412		
1975	NA NA	NA NA	NA NA	10,442	11,013	10,442	3,412		
1976	NA	NA	NA	10,373	11,047	10,373	3,412		
1977	NA	NA	NA	10,435	10,769	10,435	3,412		
1978	NA	NA	NA	10,361	10,941	10,361	3,412		
1979	NA	NA	NA	10,353	10,879	10,353	3,412		
1980	NA	NA	NA	10,388	10,908	10,388	3,412		
1981	NA	NA	NA	10,453	11,030	10,453	3,412		
1982	NA	NA	NA	10,454	11,073	10,454	3,412		
1983	NA	NA	NA	10,520	10,905	10,520	3,412		
1984	NA	NA	NA	10,440	10,843	10,440	3,412		
1985	NA	NA	NA	10,447	10,622	10,447	3,412		
1986	NA	NA	NA	10,446	10,579	10,446	3,412		
1987	NA	NA	NA	10,419	10,442	10,419	3,412		
1988	NA	NA	NA	10.324	10.602	10.324	3,412		
1989	NA	NA	NA	10.432	10.583	10.432	3,412		
1990	NA	NA	NA	10.402	10.582	10.402	3,412		
1991	NA	NA	NA	10,436	10.484	10.436	3,412		
1992	NA	NA	NA	10,342	10,471	10,342	3,412		
1993	NA NA	NA	NA	10,309	10,504	10,309	3,412		
1994	NA NA	NA NA	NA NA	10,316	10,452	10,316	3,412		
1995	NA NA	NA NA	NA NA	10,312	10,507	10,312	3,412		
1996	NA NA	NA NA	NA NA	10,340	10,507	10,340	3,412		
1007	NA NA	NA NA	NA NA	10,340	10,303	10,340	3,412		
1997	NA NA	NA NA	NA NA						
1998				10,197	10,491	10,197	3,412		
1999	NA	NA	NA	10,226	10,450	10,226	3,412		
2000	NA	NA 12 T 12	NA	10,201	10,429	10,201	3,412		
2001	10,378	10,742	10,051	b10,333	10,443	10,333	3,412		
2002	10,314	10,641	9,533	10,173	10,442	10,173	3,412		
2003	10,297	10,610	9,207	10,241	10,421	10,241	3,412		
2004	10,331	10,571	8,647	10,022	10,427	10,022	3,412		
2005	10,373	10,631	8,551	9,999	10,436	9,999	3,412		
2006	10,351	10,809	8,471	9,919	10,436	9,919	3,412		
2007	10,375	10,794	8,403	9,884	10,485	9,884	3,412		
2008	10,378	11,015	8,305	9,854	10,453	9,854	3,412		
2009	10,414	10,923	8,160	9,760	10,460	9,760	3,412		
2010	10,415	10,984	8,185	9,756	10,452	9,756	3,412		
2011	E 10,415	E 10,984	E 8,185	E 9,756	E 10,452	E 9,756	3,412		
2012	E 10,415	E 10.984	E 8,185	E 9.756	E 10,452	E 9,756	3,412		
-	,	,	-,	-,		-,			

^a The values in columns 1-6 of this table are for net heat rates. See "Heat Rate" in Glossary.

Sources: See "Thermal Conversion Factor Source Documentation," which follows this table.

b Through 2000, heat rates are for fossil-fueled steam-electric plants at electric utilities. Beginning in 2001, heat rates are for all fossil-fueled plants at electric utilities and electricity-only independent power producers.

Includes anthracite, bituminous coal, subbituminous coal, lignite, and, beginning in 2002, waste coal and coal synfuel.
 Includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.
 Includes natural gas and supplemental gaseous fuels.

f Includes coal, petroleum, natural gas, and, beginning in 2001, other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil

fuels).

g The fossil-fuels heat rate is used as the thermal conversion factor for electricity net generation from noncombustible renewable energy (hydro, geothermal, solar thermal, photovoltaic, and wind) to approximate the quantity of fossil fuels replaced by these sources. Through 2000, also used as the thermal conversion factor for wood

and waste electricity net generation at electric utilities; beginning in 2001, Btu data for wood and waste at electric utilities are available from surveys.

h Used as the thermal conversion factor for nuclear electricity net generation.

i Technology-based geothermal heat rates are no longer used in Btu calculations in this report. For technology-based geothermal heat rates for 1960–2010, see the Annual Energy Review 2010, Table A6.

See "Heat Content" in Glossary.

k The value of 3,412 Btu per kilowatthour is a constant. It is used as the thermal conversion factor for electricity retail sales, and electricity imports and exports. E=Estimate. NA=Not Available.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The U.S. Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Aviation Gasoline. EIA adopted the thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication *Competition and Growth in American Energy Markets* 1947–1985, a 1968 release of historical and projected statistics.

Butane. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane-Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See **Butane** and **Propane**.

Crude Oil Exports. Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See **Crude Oil Production**.

Crude Oil Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil imported weighted by the quantities imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude oil imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content by using National Bureau of Standards, Miscellaneous Publication No. 97, *Thermal Properties of Petroleum Products*, 1933.

Crude Oil Production. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Distillate Fuel Oil. EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Ethane. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Ethane-Propane Mixture. EIA calculation of 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See **Ethane** and **Propane**.

Isobutane. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets* 1947–1985, a 1968 release of historical and projected statistics.

Kerosene. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Liquefied Petroleum Gases Consumption. Calculated annually by EIA as the average of the thermal conversion factors for all liquefied petroleum gases consumed (see Table A1) weighted by the quantities consumed. The component products of liquefied petroleum gases are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. For 1973–1980, quantities consumed are from EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1. For 1981 forward, quantities consumed are from EIA, Petroleum Supply Annual, Table 2.

Lubricants. EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Motor Gasoline Consumption. 1973–1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics. 1994 forward: EIA calculated national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (see Table A3). The factor for conventional motor gasoline is 5.253 million Btu per barrel, as used for

previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, "Fuel Economy Impact Analysis of Reformulated Gasoline." See Fuel Ethanol (Denatured).

Natural Gas Plant Liquids Production. Calculated annually by EIA as the average of the thermal conversion factors for each natural gas plant liquid produced weighted by the quantities produced.

Natural Gasoline. EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Pentanes Plus. EIA assumed the thermal conversion factor to be 4.620 million Btu or equal to that for natural gasoline. See **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha less than 401° F. Assumed by EIA to be 5.248 million Btu per barrel, equal to the thermal conversion factor for special naphthas. See **Special Naphthas**.

Petrochemical Feedstocks, Other Oils equal to or greater than 401° F. Assumed by EIA to be 5.825 million Btu per barrel, equal to the thermal conversion factor for distillate fuel oil. See Distillate Fuel Oil.

Petrochemical Feedstocks, Still Gas. Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See **Still Gas**.

Petroleum Coke. EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950." The Bureau of Mines calculated this factor by dividing 30.120 million Btu per short ton, as given in the referenced Bureau of Mines internal memorandum, by 5.0 barrels per short ton, as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Petroleum Consumption, Commercial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the commercial sector weighted by the estimated quantities consumed by the commercial sector. The quantities of petroleum products consumed by the commercial sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Electric Power Sector. Calculated annually by EIA as the average of the thermal

conversion factors for all petroleum products consumed by the electric power sector weighted by the quantities consumed by the electric power sector. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Petroleum Consumption, Industrial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the industrial sector weighted by the estimated quantities consumed by the industrial sector. The quantities of petroleum products consumed by the industrial sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Residential Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential sector weighted by the estimated quantities consumed by the residential sector. The quantities of petroleum products consumed by the residential sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Total. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed weighted by the quantities consumed.

Petroleum Consumption, Transportation Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the transportation sector weighted by the estimated quantities consumed by the transportation sector. The quantities of petroleum products consumed by the transportation sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.

Petroleum Products Exports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported weighted by the quantities exported.

Petroleum Products Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantities imported.

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the

Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of asphalt (see **Asphalt**) and was first published by the Bureau of Mines in the *Petroleum Statement, Annual, 1970*.

Special Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, which was assumed to be equal to that of the total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement*, *Annual*, 1970.

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel, first published in the *Petroleum Statement, Annual, 1970*.

Total Petroleum Exports. Calculated annually by EIA as the average of the thermal conversion factors for crude oil and each petroleum product exported weighted by the quantities exported. See **Crude Oil Exports** and **Petroleum Products Exports**.

Total Petroleum Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil and petroleum product imported weighted by the quantities imported. See **Crude Oil Imports** and **Petroleum Products Imports**.

Unfinished Oils. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see **Distillate Fuel Oil**) and first published it in EIA's *Annual Report to Congress, Volume* 3, 1977.

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for plant condensate (see **Plant Condensate**) and first published it in EIA's *Annual Report to Congress, Volume* 2, 1981.

Waxes. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Approximate Heat Content of Biofuels

Biodiesel. EIA estimated the thermal conversion factor for biodiesel to be 5.359 million Btu per barrel, or 17,253 Btu per pound.

Biodiesel Feedstock. EIA used soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel) as the factor to estimate total biomass inputs to the production of biodiesel. EIA assumed that 7.65 pounds

of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. EIA also assumed that soybean oil has a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel.

Ethanol (Undenatured). EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Fuel Ethanol (Denatured). 1981–2008: EIA used the 2009 factor. 2009 forward: Calculated by EIA as the annual quantity-weighted average of the thermal conversion factors for undenatured ethanol (3.539 million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as denaturant (5.253 million Btu per barrel). The quantity of ethanol consumed is from EIA's Petroleum Supply Annual (PSA) and Petroleum Supply Monthly (PSM), Table 1, data for renewable fuels and oxygenate plant net production of fuel ethanol. The quantity of pentanes plus used as denaturant is from PSA/PSM, Table 1, data for renewable fuels and oxygenate plant net production of pentanes plus, multiplied by -1. The quantity of conventional motor gasoline and motor gasoline blending components used as denaturant is from PSA/PSM, Table 1, data for renewable fuels and oxygenate plant net production of conventional motor gasoline and motor gasoline blending components, multiplied by -1.

Fuel Ethanol Feedstock. EIA used corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol) as the annual factor to estimate total biomass inputs to the production of undenatured ethanol. U.S. Department of Agriculture observed ethanol yields (gallons undenatured ethanol per bushel of corn) were 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; EIA estimated the ethanol yields in other years. EIA also assumed that corn has a gross heat content of 0.392 million Btu per bushel.

Approximate Heat Content of Natural Gas

Natural Gas Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of natural gas consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Natural Gas Consumption, End-Use Sectors. Calculated annually by EIA by dividing the heat content of natural gas consumed by the end-use sectors (residential, commercial,

industrial, and transportation) by the quantity consumed. Data are from Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Natural Gas Consumption, Total. 1973–1979: EIA adopted the thermal conversion factor calculated annually by the American Gas Association (AGA) and published in *Gas Facts*, an AGA annual publication. 1980 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed by the total quantity consumed.

Natural Gas Exports. Calculated annually by EIA by dividing the heat content of natural gas exported by the quantity exported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Imports. Calculated annually by EIA by dividing the heat content of natural gas imported by the quantity imported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Production, Dry. Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed. See **Natural Gas Consumption, Total**.

Natural Gas Production, Marketed. Calculated annually by EIA by dividing the heat content of dry natural gas produced (see Natural Gas Production, Dry) and natural gas plant liquids produced (see Natural Gas Plant Liquids Production) by the total quantity of marketed natural gas produced.

Approximate Heat Content of Coal and Coal Coke

Coal Coke Imports and Exports. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Coal Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of coal consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Industrial Sector, Coke Plants. Calculated annually by EIA by dividing the heat content of coal consumed by coke plants by the quantity consumed. Data are from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants."

Coal Consumption, Industrial Sector, Other. Calculated annually by EIA by dividing the heat content of coal

consumed by manufacturing plants by the quantity consumed. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

Coal Consumption, Residential and Commercial Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the residential and commercial sectors by the quantity consumed. Through 1999, data are from Form EIA-6, "Coal Distribution Report." Beginning in 2000, data are for commercial combined-heat-and-power (CHP) plants from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Total. Calculated annually by EIA by dividing the total heat content of coal consumed by all sectors by the total quantity consumed.

Coal Exports. Calculated annually by EIA by dividing the heat content of steam coal and metallurgical coal exported by the quantity exported. Data are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545."

Coal Imports. Assumed by EIA to be 25.000 million Btu per short ton.

Coal Production. Calculated annually by EIA to balance the heat content of coal supply (production and imports) and the heat content of coal disposition (exports, stock change, and consumption).

Waste Coal Supplied. Calculated annually by EIA by dividing the total heat content of waste coal supplied by the quantity supplied. For 1989–1997, data are from Form EIA-867, "Annual Nonutility Power Producer Report." For 1998–2000, data are from Form EIA-860B, "Annual Electric Generator Report—Nonutility." For 2001 forward, data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants"; Form EIA-923, "Power Plant Operations Report"; and predecessor forms.

Approximate Heat Rates for Electricity

Electricity Net Generation, Coal. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using anthracite, bituminous coal, subbituminous coal, lignite, and beginning in 2002, waste coal and coal synfuel.

Electricity Net Generation, Natural Gas. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using natural gas and supplemental gaseous fuels.

Electricity Net Generation, Noncombustible Renewable Energy. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydro, geothermal, solar thermal, photovoltaic, and wind energy sources. Therefore, EIA calculates a rate factor that is equal to the annual average heat rate factor for fossil-fueled power plants in the United States (see "Electricity Net Generation, Total Fossil Fuels"). By using that factor it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption, such as droughts.

Electricity Net Generation, Nuclear. 1973-1984: Calculated annually by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation were reported on Form FERC-1. "Annual Report of Major Electric Utilities, Licensees, and Others"; Form EIA-412, "Annual Report of Public Electric Utilities"; and predecessor forms. For 1982, the factors were published in EIA, Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215. For 1983 and 1984, the factors were published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 13. 1985 forward: Calculated annually by EIA by using the heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms).

Electricity Net Generation, Petroleum. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.

Electricity Net Generation, Total Fossil Fuels. 1973-1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 9. 1989–2000: Calculated annually by EIA by using the heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels. forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using coal, petroleum, natural gas, and other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels).

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Appendix B

Metric Conversion Factors, Metric Prefixes, and Other Physical Conversion Factors

Data presented in the *Monthly Energy Review* and in other U.S. Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. Customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels \times 42 gallons/barrel = 420 gallons).

Table B1. Metric Conversion Factors

Type of Unit	U.S. Unit		Equivalent in	Metric Units
Mass	1 short ton (2,000 lb)	=	0.907 184 7	metric tons (t)
	1 long ton	=	1.016 047	metric tons (t)
	1 pound (lb)	=	0.453 592 37ª	kilograms (kg)
	1 pound uranium oxide (lb U₃O ₈)	=	0.384 647 ^b	kilograms uranium (kgU)
	1 ounce, avoirdupois (avdp oz)	=	28.349 52	grams (g)
Volume	1 barrel of oil (bbl)	=	0.158 987 3	cubic meters (m³)
	1 cubic yard (yd³)	=	0.764 555	cubic meters (m³)
	1 cubic foot (ft³)	=	0.028 316 85	cubic meters (m³)
	1 U.S. gallon (gal)	=	3.785 412	liters (L)
	1 ounce, fluid (fl oz)	=	29.573 53	milliliters (mL)
	1 cubic inch (in³)	=	16.387 06	milliliters (mL)
Length	1 mile (mi)	=	1.609 344ª	kilometers (km)
	1 yard (yd)	=	0.914 4ª	meters (m)
	1 foot (ft)	=	0.304 8 ^a	meters (m)
	1 inch (in)	=	2.54ª	centimeters (cm)
Area	1 acre	=	0.404 69	hectares (ha)
	1 square mile (mi ²)	=	2.589 988	square kilometers (km²)
	1 square yard (yd²)	=	0.836 127 4	square meters (m²)
	1 square foot (ft²)	=	0.092 903 04°	square meters (m²)
	1 square inch (in²)	=	6.451 6ª	square centimeters (cm ²)
Energy	1 British thermal unit (Btu) ^c	=	1,055.055 852 62ª	joules (J)
	1 calorie (cal)	=	4.186 8ª	joules (J)
	1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)
Temperature ^d	32 degrees Fahrenheit (°F)	=	O ^a	degrees Celsius (°C)
	212 degrees Fahrenheit (°F)	=	100ª	degrees Celsius (°C)

^aExact conversion.

Sources: • General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 1993), pp. 9-11, 13, and 16. • U.S. Department of Commerce, National Institute of Standards and Technology, Special Publications 330, 811, and 814. • American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268-1992, pp. 28 and 29.

^bCalculated by the U.S. Energy Information Administration.

The Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. To convert degrees Fahrenheit (°F) to degrees Celsius (°C) exactly, subtract 32, then multiply by 5/9.

Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, see http://physics.nist.gov/cuu/Units/index.html.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.

Table B2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10 ¹	deka	da	10 ⁻¹	deci	d
10 ²	hecto	h	10-2	centi	С
10 ³	kilo	k	10 ⁻³	milli	m
10 ⁶	mega	M	10 ⁻⁶	micro	μ
10 ⁹	giga	G	10 ⁻⁹	nano	n
10 ¹²	tera	Т	10 ⁻¹²	pico	р
10 ¹⁵	peta	Р	10 ⁻¹⁵	femto	f
10 ¹⁸	exa	Е	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	z
10 ²⁴	yotta	Υ	10 ⁻²⁴	yocto	у

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices. Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p.10.

Table B3. Other Physical Conversion Factors

Energy Source	Original Unit		Equivalent in Final Units				
Petroleum	1 barrel (bbl)	=	42ª	U.S. gallons (gal)			
Coal	1 short ton	=	2,000ª	pounds (lb)			
	1 long ton	=	2,240 ^a	pounds (lb)			
	1 metric ton (t)	=	1,000 ^a	kilograms (kg)			
Wood	1 cord (cd)	=	1.25 ^b	shorts tons			
	1 cord (cd)	=	128ª	cubic feet (ft3)			

^aExact conversion.

Source: U.S. Department of Commerce, National Institute of Standards and Technology, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17 and C-21.

^bCalculated by the U.S. Energy Information Administration.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.

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Glossary

Alcohol: The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a **hydrocarbon** plus a hydroxyl group; CH(3)-(CH(2))_n-OH (e.g., **methanol**, **ethanol**, and tertiary butyl alcohol). See **Fuel Ethanol**.

Alternative Fuel: Alternative fuels, for transportation applications, include the following: methanol; denatured ethanol, and other alcohols; fuel mixtures containing 85 percent or more by volume of methanol, denatured ethanol, and other alcohols with motor gasoline or other fuels; natural gas; liquefied petroleum gas (propane); hydrogen; coal-derived liquid fuels; fuels (other than alcohol) derived from biological materials (biofuels such as soy diesel fuel); electricity (including electricity from solar energy); and "... any other fuel the Secretary determines, by rule, is substantially not petroleum and would yield substantial energy security benefits and substantial environmental benefits." The term "alternative fuel" does not include alcohol or other blended portions of primarily petroleum-based fuels used as oxygenates or extenders, i.e., MTBE, ETBE, other ethers, and the 10-percent ethanol portion of gasohol.

Alternative-Fuel Vehicle (AFV): A vehicle designed to operate on an alternative fuel (e.g., compressed natural gas, methane blend, or electricity). The vehicle could be either a dedicated vehicle designed to operate exclusively on alternative fuel or a nondedicated vehicle designed to operate on alternative fuel and/or a traditional fuel.

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). *Note:* Since the 1980's, anthracite refuse or mine waste has been used for steam-electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Anthropogenic: Made or generated by a human or caused by human activity. The term is used in the context of global **climate change** to refer to gaseous emissions that are the result of human activities, as well as other potentially climate-altering activities, such as deforestation.

Asphalt: A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

Barrel (Petroleum): A unit of volume equal to 42 U.S. Gallons.

Base Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

Biodiesel: A fuel typically made from soybean, canola, or other vegetable oils; animal fats; and recycled grease. It can serve as a substitute for **petroleum**-derived **diesel fuel** or **distillate fuel oil**. For U.S. Energy Information Administration reporting, it is a fuel composed of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, designated B100, and meeting the requirements of ASTM (American Society for Testing & Materials) D 6751.

Biofuels: Liquid fuels and blending components produced from **biomass** (plant) feedstocks, used primarily for transportation. See **Biodiesel** and **Fuel Ethanol**.

Biogenic: Produced by biological processes of living organisms. Note: EIA uses the term "biogenic" to refer only to organic nonfossil material of biological origin.

Biomass: Organic non-fossil material of biological origin constituting a renewable energy source. See **Biodiesel**,

Biofuels, Biomass Waste, Fuel Ethanol, and Wood and Wood-Derived Fuels.

Biomass Waste: Organic non-fossil material of biological origin that is a byproduct or a discarded product. "Biomass waste" includes municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other biomass solids, liquids, and gases; but excludes wood and wood-derived fuels (including black liquor), biofuels feedstock, biodiesel, and fuel ethanol. Note: EIA "biomass waste" data also include energy crops grown specifically for energy production, which would not normally constitute waste.

Bituminous Coal: A dense coal, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steamelectric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Black Liquor: A byproduct of the paper production process, alkaline spent liquor, that can be used as a source of energy. Alkaline spent liquor is removed from the digesters in the process of chemically pulping wood. After evaporation, the residual "black" liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit). See **Heat Content**.

Btu: See British Thermal Unit.

Btu Conversion Factor: A factor for converting energy data between one unit of measurement and British thermal units (Btu). Btu conversion factors are generally used to convert energy data from physical units of measure (such as barrels, cubic feet, or short tons) into the energy-equivalent measure of Btu. (See http://www.eia.gov/totalenergy/data/monthly/#appendices for further information on Btu conversion factors.)

Butane: A normally gaseous straight-chain or branched-chain hydrocarbon (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams.

Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C₄H₈) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

Carbon Dioxide (CO₂): A colorless, odorless, non-poisonous gas that is a normal part of Earth's atmosphere. Carbon dioxide is a product of **fossil-fuel** combustion as well as other processes. It is considered a **greenhouse gas** as it traps heat (infrared energy) radiated by the Earth into the atmosphere and thereby contributes to the potential for **global warming**. The **global warming potential** (GWP) of other greenhouse gases is measured in relation to that of carbon dioxide, which by international scientific convention is assigned a value of one (1).

Chained Dollars: A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Prior to 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period and is therefore subject to less distortion over time.

CIF: See Cost, Insurance, Freight.

Citygate: A point or measuring station at which a distribution gas utility receives gas from a natural gas pipeline company or transmission system.

Climate Change: A term used to refer to all forms of climatic inconsistency, but especially to significant change from one prevailing climatic condition to another. In some cases, "climate change" has been used synonymously with the term "global warming"; scientists, however, tend to use the term in a wider sense inclusive of natural changes in climate, including climatic cooling.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. See Anthracite, Bituminous Coal, Lignite, Subbituminous Coal, Waste Coal, and Coal Synfuel.

Coal Coke: See Coke, Coal.

Coal Stocks: Coal quantities that are held in storage for future use and disposition. Note: When coal data are collected for a particular reporting period (month, quarter, or year), coal stocks are commonly measured as of the last day of the period.

Coal Synfuel: Coal-based solid fuel that has been processed by a **coal synfuel plant**; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coal Synfuel Plant: A plant engaged in the chemical transformation of **coal** into **coal synfuel**.

Coke, Coal: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000° F so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke (coal) has a heating value of 24.8 million Btu per ton.

Coke, Petroleum: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (42 U.S. gallons each) per short ton. Coke (petroleum) has a heating value of 6.024 million Btu per barrel.

Coking Coal: Bituminous coal suitable for making coke. See **Coke**, **Coal**.

Combined-Heat-and-Power (CHP) Plant: A plant designed to produce both heat and electricity from a single heat source. Note: This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious,

social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the abovementioned commercial establishments. Various EIA programs differ in sectoral coverage-for more information see http://www.eia.gov/neic/datadefinitions/Guideforwebcom.htm. See End-Use Sectors and Energy-Use Sectors.

Completion: The installation of permanent equipment for the production of oil or gas. If a well is equipped to produce only oil or gas from one zone or reservoir, the definition of a well (classified as an oil well or gas well) and the definition of a completion are identical. However, if a well is equipped to produce oil and/or gas separately from more than one reservoir, a well is not synonymous with a completion.

Conventional Gasoline: Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. *Note*: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Conventional Hydroelectric Power: Hydroelectric power generated from flowing water that is not created by hydroelectric pumped storage.

Conversion Factor: A factor for converting data between one unit of measurement and another (such as between **short tons** and **British thermal units**, or between **barrels** and gallons). (See http://www.eia.gov/totalenergy/data/monthly/#appendices and http://www.eia.gov/totalenergy/data/monthly/#appendices for further information on conversion factors.) See **Btu Conversion Factor** and **Thermal Conversion Factor**.

Cost, Insurance, Freight (CIF): A sales transaction in which the seller pays for the transportation and insurance of the goods to the port of destination specified by the buyer.

Crude Oil: A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include: 1) small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2) small amounts of nonhydrocarbons produced with the oil, such as sulfur and

various metals; and 3) drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude Oil F.O.B. Price: The crude oil price actually charged at the oil-producing country's port of loading. Includes deductions for any rebates and discounts or additions of premiums, where applicable. It is the actual price paid with no adjustment for credit terms.

Crude Oil (Including Lease Condensate): A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Where identifiable, liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded.

Crude Oil Landed Cost: The price of crude oil at the port of discharge, including charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. The cost does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

Crude Oil Refinery Input: The total crude oil put into processing units at refineries.

Crude Oil Stocks: Stocks of crude oil and lease condensate held at refineries, in pipelines, at pipeline terminals, and on leases.

Crude Oil Used Directly: Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

Crude Oil Well: A well completed for the production of crude oil from one or more oil zones or reservoirs. Wells producing both crude oil and natural gas are classified as oil wells.

Cubic Foot (Natural Gas): A unit of volume equal to 1 cubic foot at a pressure base of 14.73 pounds standard per square inch absolute and a temperature base of 60° F.

Degree-Day Normals: Simple arithmetic averages of monthly or annual degree-days over a long period of time (usually the 30-year period 1961-1990). The averages may be simple degree-day normals or population-weighted degree-day normals.

Degree-Days, Cooling (CDD): A measure of how warm a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the base temperature (65 degrees) from the average of the day's high and low temperatures, with negative values set equal to zero. Each day's cooling degree-days are summed to create a cooling degree-day measure for a specified reference period. Cooling degree-days are used in energy analysis as an indicator of air conditioning energy requirements or use.

Degree-Days, Heating (HDD): A measure of how cold a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the average of the day's high and low temperatures from the base temperature (65 degrees), with negative values set equal to zero. Each day's heating degree-days are summed to create a heating degree-day measure for a specified reference period. Heating degree-days are used in energy analysis as an indicator of space heating energy requirements or use.

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degreeday readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

Denaturant: Petroleum, typically **pentanes plus** or **conventional motor gasoline**, added to **fuel ethanol** to make it unfit for human consumption. Fuel ethanol is denatured, usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent denaturant. See **Fuel Ethanol** and **Fuel Ethanol Minus Denaturant**.

Design Electrical Rating, Net: The nominal net electrical output of a nuclear unit as specified by the electric utility for the purpose of plant design.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Diesel Fuel: A fuel composed of **distillate fuel oils** obtained in petroleum refining operation or blends of such distillate fuel oils with **residual fuel oil** used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

Direct Use: Use of electricity that 1) is self-generated, 2) is produced by either the same entity that consumes the power or an affiliate, and 3) is used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of **station use**.

Distillate Fuel Oil: A general classification for one of the **petroleum** fractions produced in conventional distillation operations. It includes **diesel fuels** and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and **electricity generation**.

Dry Hole: An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Dry Natural Gas Production: See Natural Gas (Dry) Production.

E85: A fuel containing a mixture of 85 percent **ethanol** and 15 percent **motor gasoline**.

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Power Sector: An energy-consuming sector that consists of 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., North American Industry Classification System 22 plants. See also Combined-Heat-and-Power (CHP) Plant, Electricity-Only Plant, Electric Utility, and Independent Power Producer.

Electric Utility: Any entity that generates, transmits, or distributes electricity and recovers the cost of its generation, transmission or distribution assets and operations, either directly or indirectly, through cost-based rates set by a separate regulatory authority (e.g., State Public Service Commission), or is owned by a governmental unit or the consumers that the entity serves. Examples of these entities include: investor-owned entities, public power districts, public utility districts, municipalities, rural electric cooperatives, and State and Federal agencies. Electric utilities may have Federal Energy Regulatory Commission approval for interconnection agreements and wholesale trade tariffs covering either cost-of-service and/or market-based rates

under the authority of the Federal Power Act. See **Electric Power Sector**.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity Generation: The process of producing electric energy, or the amount of electric energy produced by transforming other forms of energy, commonly expressed in **kilowatthours** (kWh) or megawatthours (Mwh).

Electricity Generation, Gross: The total amount of electric energy produced by generating units and measured at the generating terminal in **kilowatthours** (kWh) or megawatthours (MWh).

Electricity Generation, Net: The amount of gross electricity generation less station use (the electric energy consumed at the generating station(s) for station service or auxiliaries). *Note*: Electricity required for pumping at hydroelectric pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Electricity-Only Plant: A plant designed to produce electricity only. See also Combined-Heat-and-Power (CHP) Plant.

Electricity Retail Sales: The amount of electricity sold to customers purchasing electricity for their own use and not for resale.

End-Use Sectors: The **residential**, **commercial**, **industrial**, and **transportation** sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power or as an input in the manufacturing process.

Energy Service Provider: An energy entity that provides service to a retail or end-use customer.

Energy-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and

analyze energy use. The sectors most commonly referred to in EIA are: residential, commercial, industrial, transportation, and electric power.

Ethane: A normally gaseous straight-chain hydrocarbon (C₂H₆). It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethanol (C_2H_5OH): A clear, colorless, flammable alcohol. Ethanol is typically produced biologically from biomass feedstocks such as agricultural crops and cellulosic residues from agricultural crops or wood. Ethanol can also be produced chemically from ethylene. See Biomass, Fuel Ethanol, and Fuel Ethanol Minus Denaturant.

Ethylene: An olefinic hydrocarbon (C2H4) recovered from refinery processes or petrochemical processes.

Exploratory Well: A well drilled to find and produce oil or gas in an area previously considered an unproductive area, to find a new reservoir in a known field (i.e., one previously found to be producing oil or gas in another reservoir), or to extend the limit of a known oil or gas reservoir.

Exports: Shipments of goods from within the 50 States and the District of Columbia to U.S. possessions and territories or to foreign countries.

Extraction Loss: The reduction in volume of natural gas due to the removal of natural gas liquid constituents, such as ethane, propane, and butane, at natural gas processing plants.

Federal Energy Administration (FEA): A predecessor of the U.S. Energy Information Administration.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the U.S. Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the U.S. Department of Energy was created. Its functions were divided between the U.S. Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

First Purchase Price: The price for domestic crude oil reported by the company that owns the crude oil the first time it is removed from the lease boundary.

Flared Natural Gas: Natural gas burned in flares on the base site or at gas processing plants.

F.O.B. (Free on Board): A sales transaction in which the seller makes the product available for pick up at a specified port or terminal at a specified price and the buyer pays for the subsequent transportation and insurance.

Footage Drilled: Total footage for wells in various categories, as reported for any specified period, includes (1) the deepest total depth (length of well bores) of all wells drilled from the surface, (2) the total of all bypassed footage drilled in connection with reported wells, and (3) all new footage drilled for directional sidetrack wells. Footage reported for directional sidetrack wells does not include footage in the common bore, which is reported as footage for the original well. In the case of old wells drilled deeper, the reported footage is that which was drilled below the total depth of the old well.

Former U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Fossil Fuel: An energy source formed in the Earth's crust from decayed organic material, such as petroleum, coal, and natural gas.

Fossil-Fueled Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Fuel Ethanol: Ethanol intended for fuel use. Fuel ethanol in the United States must be anhydrous (less than 1 percent water). Fuel ethanol is denatured (made unfit for human consumption), usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent petroleum, typically pentanes plus or conventional motor gasoline. Fuel ethanol is used principally for blending in low concentrations with motor gasoline as an oxygenate or octane enhancer. In high concentrations, it is used to fuel alternative-fuel vehicles specially designed for its use. See Alternative-Fuel Vehicle, Denaturant, E85, Ethanol, Fuel Ethanol Minus Denaturant, and Oxygenates.

Fuel Ethanol Minus Denaturant: An unobserved quantity of anhydrous, biomass-derived, undenatured ethanol for fuel use. The quantity is obtained by subtracting the estimated denaturant volume from fuel ethanol volume. Fuel ethanol minus denaturant is counted as renewable energy, while denaturant is counted as nonrenewable fuel. See Denaturant, Ethanol, Fuel Ethanol, Nonrenewable Fuels, Oxygenates, and Renewable Energy.

Full-Power Operation: Operation of a nuclear generating unit at 100 percent of its design capacity. Full-power operation precedes commercial operation.

Gasohol: A blend of finished motor gasoline containing alcohol (generally **ethanol** but sometimes methanol) at a concentration between 5.7 percent and 10 percent by volume. See **Motor Gasoline**, **Oxygenated**.

Gas Well: A well completed for the production of natural gas from one or more gas zones or reservoirs. (Wells producing both crude oil and natural gas are classified as oil wells.)

Geothermal Energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust and used for geothermal heat pumps, water heating, or electricity generation.

Global Warming: An increase in the near-surface temperature of the Earth. Global warming has occurred in the distant past as the result of natural influences, but the term is today most often used to refer to the warming some scientists predict will occur as a result of increased anthropogenic emissions of greenhouse gases. See Climate Change.

Global Warming Potential (GWP): An index used to compare the relative radiative forcing of different gases without directly calculating the changes in atmospheric concentrations. GWPs are calculated as the ratio of the radiative forcing that would result from the emission of one kilogram of a greenhouse gas to that from the emission of one kilogram of carbon dioxide over a fixed period of time, such as 100 years.

Greenhouse Gases: Those gases, such as water vapor, **carbon dioxide**, nitrous oxide, **methane**, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulfur hexafluoride, that are transparent to solar (short-wave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Gross Domestic Product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

GT/IC: Gas turbine and internal combustion plants.

Heat Content: The amount of heat energy available to be released by the transformation or use of a specified physical unit of an energy form (e.g., a ton of coal, a barrel of oil, a kilowatthour of electricity, a cubic foot of natural gas, or a pound of steam). The amount of heat energy is commonly expressed in British thermal units (Btu). *Note*: Heat content of combustible energy forms can be expressed in terms of either gross heat content (higher or upper heating value) or net heat content (lower heating value), depending upon whether or not the available heat energy includes or

excludes the energy used to vaporize water (contained in the original energy form or created during the combustion process). The U.S. Energy Information Administration typically uses gross heat content values.

Heat Rate: A measure of generating station thermal efficiency commonly stated as **Btu** per **kilowatthour**. *Note:* Heat rates can be expressed as either gross or net heat rates, depending whether the electricity output is gross or net generation. Heat rates are typically expressed as net heat rates.

Hydrocarbon: An organic chemical compound of hydrogen and carbon in the gaseous, liquid, or solid phase. The molecular structure of hydrocarbon compounds varies from the simplest (methane, the primary constituent of natural gas) to the very heavy and very complex.

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

Hydroelectric Pumped Storage: Hydroelectricity that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen (H): The lightest of all gases, hydrogen occurs chiefly in combination with oxygen in water. It also exists in acids, bases, **alcohols**, **petroleum**, and other **hydrocarbons**.

Imports: Receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an **electric utility**.

Industrial Sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the

above-mentioned industrial activities. Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebind.htm. See End-Use Sectors and Energy-Use Sectors.

Injections (Natural Gas): Natural gas injected into storage reservoirs.

Isobutane: A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams. See **Butane**.

Isobutylene: An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isopentane: A saturated branched-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Jet Fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Jet Fuel, Kerosene-Type: A kerosene-based product with a maximum distillation temperature of 400° F at the 10-percent recovery point and a final maximum boiling point of 572° F. Fuel specifications are provided in ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used primarily for commercial turbojet and turboprop aircraft engines.

Jet Fuel, Naphtha-Type: A fuel in the heavy naphtha boiling range, with an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290° to 470° F and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used by the military for turbojet and turboprop engines.

Kerosene: A petroleum distillate having a maximum distillation temperature of 401° F at the 10-percent recovery point, a final boiling point of 572° F, and a minimum flash point of 100° F. Included are the two grades designated in ASTM D3699 (No. 1-K and No. 2-K) and all grades of kerosene called range or stove oil. Kerosene is used in space heaters, cook stoves, and water heaters; it is suitable for use as an illuminant when burned in wick lamps.

Kilowatt: A unit of electrical power equal to 1,000 watts.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 **kilowatt** (1,000 **watts**) of power expended for 1 hour. One kilowatthour is equivalent to 3,412 Btu. See **Watthour**.

Landed Costs: The dollar-per-barrel price of crude oil at the port of discharge. Included are the charges associated

with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Not included are charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage charges).

Lease and Plant Fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and used as fuel in natural gas processing plants.

Lease Condensate: A mixture consisting primarily of pentanes and heavier hydrocarbons, which is recovered as a liquid from natural gas in lease or field separation facilities. Note: This category excludes natural gas liquids, such as butane and propane, which are recovered at natural gas processing plants or facilities.

Lignite: The lowest rank of **coal**, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Liquefied Natural Gas (LNG): Natural gas (primarily methane) that has been liquefied by reducing its temperature to -260° F at atmospheric pressure.

Liquefied Petroleum Gases (LPG): Ethane, ethylene, propane, propylene, normal butane, butylene, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate new natural gas plant liquids.

Low-Power Testing: The period of time between a nuclear generating unit's initial fuel loading date and the issuance of its operating (full-power) license. The maximum level of operation during that period is 5 percent of the unit's design thermal rating.

Lubricants: Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacturing of other products or as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Excluded are byproducts of lubricating oil refining, such as aromatic extracts derived from solvent extraction or tars derived from deasphalting. Included are all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. Lubricant categories are paraffinic and naphthenic.

Marketed Production (Natural Gas): Gross withdrawals less gas used for repressuring, quantities vented and

flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

Methane: A colorless, flammable, odorless, hydrocarbon gas (CH₄) that is the principal constituent of natural gas. It is also an important source of hydrogen in various industrial processes.

Methyl Tertiary Butyl Ether (MTBE): An ether, (CH₃)₃COCH₃, intended for motor gasoline blending. See **Oxygenates**.

Methanol: A light, volatile alcohol (CH₃OH) eligible for motor gasoline blending. See **Oxygenates**.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere-for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline Blending: Mechanical mixing of motor gasoline blending components and oxygenates as required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components: Naphtha (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. *Note*: oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Motor Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in sparkignition. Motor gasoline, as defined in ASTM Specification D-4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122°F to 158°F at the 10-percent recovery point to 365°F to 374°F at the 90-percent recovery point. "Motor gasoline" includes conventional gasoline, all types of oxygenated gasoline including gasohol, and reformulated gasoline, but excludes aviation gasoline. Note: Volumetric data on blending components, as well as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

Motor Gasoline Grades: The classification of gasoline by octane ratings. Each type of gasoline (conventional, oxygenated, and reformulated) is classified by three

grades: regular, midgrade, and premium. *Note*: Gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades may be 2 or more octane points lower.

Regular Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 85 and less than 88. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Midgrade Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 88 and less than or equal to 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Premium Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Motor Gasoline, Oxygenated: Finished motor gasoline, other than reformulated gasoline, having an oxygen content of 2.7 percent or higher by weight and required by the U.S. Environmental Protection Agency (EPA) to be sold in areas designated by EPA as carbon monoxide (CO) nonattainment areas. Note: Oxygenated gasoline excludes oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB). Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside CO nonattainment areas are included in data on oxygenated gasoline. Other data on gasohol are included in data on conventional gasoline.

Motor Gasoline, Reformulated: Finished motor gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Note: This category includes oxygenated fuels program reformulated gasoline (OPRG) but excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Motor Gasoline Retail Prices: Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). Those prices are collected in 85 urban areas selected to represent all urban consumers-about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-service.

Motor Gasoline (Total): For stock level data, a sum including finished motor gasoline stocks plus stocks of

motor gasoline blending components but excluding stocks of oxygenates.

MTBE: See Methyl Tertiary Butyl Ether.

NAICS (North American Industry Classification System): A coding system developed jointly by the United States, Canada, and Mexico to classify businesses and industries according to the type of economic activity in which they are engaged. NAICS replaces the Standard Industrial Classification (SIC) codes. For additional information on NAICS, go to

http://www.census.gov/eos/www/naics/.

Naphtha: A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400° F.

Natural Gas: A gaseous mixture of hydrocarbon compounds, primarily methane, used as a fuel for electricity generation and in a variety of ways in buildings, and as raw material input and fuel for industrial processes.

Natural Gas, Dry: Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. *Note:* Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Natural Gas (Dry) Production: The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at the production site include 1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and 2) gas vented and flared. Processing losses include 1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and 2) gas converted to liquid form, such as lease condensate and plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals marketed production less extraction loss.

Natural Gas Marketed Production: Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring; nonhydrocarbon gases removed in treating and processing operations; and quantities vented and flared.

Natural Gas Plant Liquids (NGPL): Natural gas liquids recovered from natural gas in processing plants and, in some situations, from natural gas field facilities, as well as those extracted by fractionators. Natural gas plant

liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Material as follows: ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e., products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gas Wellhead Price: The wellhead price of natural gas is calculated by dividing the total reported value at the wellhead by the total quantity produced as reported by the appropriate agencies of individual producing States and the U.S. Minerals Management Service. The price includes all costs prior to shipment from the lease, including gathering and compression costs, in addition to State production, severance, and similar charges.

Natural Gasoline: A mixture of hydrocarbons (mostly pentanes and heavier) extracted from natural gas that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane, which is a saturated branch-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Summer Capacity: The maximum output, commonly expressed in **kilowatts** (kW) or megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of June 1 through September 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Neutral Zone: A 6,200 square-mile area shared equally between Kuwait and Saudi Arabia under a 1992 agreement. The Neutral Zone contains an estimated 5 billion barrels of oil and 8 trillion cubic feet of natural gas.

Nominal Dollars: A measure used to express **nominal price**.

Nominal Price: The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

Non-Biomass Waste: Material of non-biological origin that is a byproduct or a discarded product. "Non-biomass waste" includes municipal solid waste from non-biogenic sources, such as plastics, and tire-derived fuels.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

Nonrenewable Fuels: Fuels that cannot be easily made or "renewed," such as **crude oil**, **natural gas**, and **coal**.

Nuclear Electric Power (Nuclear Power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

Nuclear Electric Power Plant: A single-unit or multiunit facility in which heat produced in one or more reactors by the fissioning of nuclear fuel is used to drive one or more steam turbines.

Nuclear Reactor: An apparatus in which a nuclear fission chain reaction can be initiated, controlled, and sustained at a specific rate. A reactor includes fuel (fissionable material), moderating material to control the rate of fission, a heavy-walled pressure vessel to house reactor components, shielding to protect personnel, a system to conduct heat away from the reactor, and instrumentation for monitoring and controlling the reactor's systems.

OECD: See Organization for Economic Cooperation and Development.

Offshore: That geographic area that lies seaward of the coastline. In general, the coastline is the line of ordinary low water along with that portion of the coast that is in direct contact with the open sea or the line marking the seaward limit of inland water.

Oil: See Crude Oil.

OPEC: See Organization of the Petroleum Exporting Countries.

Operable Unit (Nuclear): In the United States, a nuclear generating unit that has completed low-power testing and been issued a full-power operating license by the Nuclear Regulatory Commission, or equivalent permission to operate.

Organization for Economic Cooperation and Development (OECD): An international organization helping governments tackle the economic, social and governance challenges of a globalized economy. Its membership comprises about 30 member countries. With active relationships with some 70 other countries, non-governmental organizations (NGOs) and civil society, it has a global reach. For details about the organization, see http://www.oecd.org.

Organization of the Petroleum Exporting Countries (OPEC): An intergovernmental organization whose stated objective is to "coordinate and unify the petroleum policies of member countries." It was created at the Baghdad Conference on September 10–14, 1960. Current members (with years of membership) include Algeria (1969–present), Angola (2007–present), Ecuador (1973–1992 and 2007–present), Iran (1960–present), Iraq (1960–present), Kuwait (1960–present), Libya (1962–present), Nigeria

(1971–present), Qatar (1961–present), Saudi Arabia (1960–present), United Arab Emirates (1967–present), and Venezuela (1960–present). Countries no longer members of OPEC include Gabon (1975–1994) and Indonesia (1962–2008).

Oxygenates: Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum Coke: See Coke, Petroleum.

Petroleum Consumption: See **Products Supplied** (Petroleum).

Petroleum Imports: Imports of petroleum into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. territories and possessions. Included are imports for the Strategic Petroleum Reserve and withdrawals from bonded warehouses for onshore consumption, offshore bunker use, and military use. Excluded are receipts of foreign petroleum into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas,

lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Stocks, Primary: For individual products, quantities that are held at refineries, in pipelines, and at bulk terminals that have a capacity of 50,000 barrels or more, or that are in transit thereto. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but are included in other oils estimates and total.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquid at gas inlet separators or scrubbers in processing plants.

Primary Energy: Energy in the form that it is first accounted for in a statistical energy balance, before any transformation to secondary or tertiary forms of energy. For example, **coal** can be converted to synthetic gas, which can be converted to **electricity**; in this example, coal is primary energy, synthetic gas is secondary energy, and electricity is tertiary energy. See **Primary Energy Production** and **Primary Energy Consumption**.

Primary Energy Consumption: Consumption of primary energy. (Energy sources that are produced from other energy sources-e.g., coal coke from coal-are included in primary energy consumption only if their energy content has not already been included as part of the original energy source. Thus, U.S. primary energy consumption does include net imports of coal coke, but not the coal coke produced from domestic coal.) The U.S. Energy Information Administration includes the following in U.S. primary energy consumption: coal consumption; coal coke net imports; petroleum consumption (petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel); dry natural gas—excluding supplemental gaseous fuels—consumption; nuclear electricity net generation (converted to **Btu** using the nuclear plants **heat rate**); hydroelectricity conventional net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using

the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste consumption; fuel ethanol and biodiesel consumption; losses and co-products from the production of fuel ethanol and biodiesel; and electricity net imports (converted to Btu using the electricity heat content of 3,412 Btu per kilowatthour). See Total Energy Consumption.

Primary Energy Production: Production of primary The U.S. Energy Information Administration includes the following in U.S. primary energy production: coal production, waste coal supplied, and coal refuse recovery; crude oil and lease condensate production; natural gas plant liquids production; dry natural gas-excluding supplemental gaseous fuels-production; nuclear electricity net generation (converted to Btu using the nuclear plants heat rate); conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste consumption; and biofuels feedstock.

Prime Mover: The engine, turbine, water wheel, or similar machine that drives an electric generator; or, for reporting purposes, a device that converts energy to electricity directly.

Products Supplied (Petroleum): Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

Propane: A normally gaseous straight-chain hydrocarbon (C_3H_8). It is a colorless paraffinic gas that boils at a temperature of -43.67° F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene: An olefinic hydrocarbon (C₃H₆) recovered from refinery or petrochemical processes.

Real Dollars: These are dollars that have been adjusted for inflation. See **Real Price**.

Real Price: A price that has been adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices, which are expressed in constant dollars, usually reflect buying power relative to a base year.

Refiner Acquisition Cost of Crude Oil: The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Refinery and Blender Net Inputs: Raw materials, unfinished oils, and blending components processed at refineries, or blended at refineries or petroleum storage terminals to produce finished petroleum products. Included are gross inputs of crude oil, natural gas plant liquids, other hydrocarbon raw materials, hydrogen, oxygenates (excluding fuel ethanol), and renewable fuels (including fuel ethanol). Also included are net inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components. Net inputs are calculated as gross inputs minus gross production. Negative net inputs indicate gross inputs are less than gross production. Examples of negative net inputs include reformulated gasoline blendstock for oxygenate blending (RBOB) produced at refineries for shipment to blending terminals, and unfinished oils produced and added to inventory in advance of scheduled maintenance of a refinery crude oil distillation unit.

Refinery and Blender Net Production: Liquefied refinery gases, and finished petroleum products produced at a refinery or petroleum storage terminal blending facility. Net production equals gross production minus gross inputs. Negative net production indicates gross production is less than gross inputs for a finished petroleum product. Examples of negative net production include reclassification of one finished product to another finished product, or reclassification of a finished product to unfinished oils or blending components.

Refinery (Petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Refuse Mine: A surface site where **coal** is recovered from previously mined coal. It may also be known as a silt bank, culm bank, refuse bank, slurry dam, or dredge operation.

Refuse Recovery: The recapture of **coal** from a **refuse mine** or the coal recaptured by that process. The resulting product has been cleaned to reduce the concentration of noncombustible materials.

Renewable Energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, the fossil fuels, of which there is a finite supply). Renewable sources of energy include conventional hydrolectric power, biomass, geothermal, solar, and wind.

Repressuring: The injection of a pressurized fluid (such as air, gas, or water) into oil and gas reservoir formations to effect greater ultimate recovery.

Residential Sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. *Note:* Various EIA programs differ in sectoral coverage for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebres.htm. See **End-Use Sectors** and **Energy-Use Sectors**.

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC (Standard Industrial Classification): A set of codes developed by the U.S. Office of Management and Budget which categorizes industries into groups with similar economic activities. Replaced by NAICS (North American Industry Classification System).

Solar Energy: See **Solar Thermal Energy** and **Photovoltaic Energy**.

Solar Thermal Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or **electricity**.

Special Naphthas: All finished products within the naphtha boiling ranges that are used as paint thinner, cleaners or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Station Use: Energy that is used to operate an **electric power plant**. It includes energy consumed for plant lighting, power, and auxiliary facilities, regardless of whether the energy is produced at the plant or comes from another source.

Steam Coal: All nonmetallurgical coal.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas (Refinery Gas): Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and, petrochemical feedstock.

Stocks: See Coal Stocks, Crude Oil Stocks, or Petroleum Stocks, Primary.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Subbituminous Coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Supplemental Gaseous Fuels: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): (Also referred to as substitute natural gas) A manufactured product, chemically similar in most respects to **natural gas**, resulting from the conversion or reforming of **hydrocarbons** that may easily be substituted for or interchanged with pipeline-quality natural gas.

Thermal Conversion Factor: A factor for converting data between physical units of measure (such as barrels, cubic feet, or short tons) and thermal units of measure (such as British thermal units, calories, or joules); or for converting data between different thermal units of measure. See Btu Conversion Factor.

Total Energy Consumption: Primary energy consumption in the end-use sectors, plus electricity retail sales and electrical system energy losses.

Transportation Sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. Note: Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebtrans.htm See End-Use Sectors and Energy-Use Sectors.

Underground Storage: The storage of natural gas in underground reservoirs at a different location from which it was produced.

Unfinished Oils: All oils requiring further refinery processing except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Stream: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

Union of Soviet Socialist Republics (U.S.S.R.): A political entity that consisted of 15 constituent republics: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. The U.S.S.R. ceased to exist as of December 31, 1991.

United States: The 50 States and the District of Columbia. Note: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 States and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term "United States."

Useful Thermal Output: The thermal energy made available in a combined-heat-and-power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Vented Natural Gas: Gas released into the air on the production site or at processing plants.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Coal: Usable material that is a byproduct of previous coal processing operations. Waste coal is usually composed of mixed coal, soil, and rock (mine waste). Most waste coal is burned as-is in unconventional fluidized-bed combustors. For some uses, waste coal may be partially cleaned by removing some extraneous noncombustible constituents. Examples of waste coal include fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste.

Waste: See Biomass Waste and Non-Biomass Waste.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Waxes: Solid or semisolid material derived from petroleum distillates or residues. Waxes are light-colored, more or less translucent crystalline masses, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Included are all marketable waxes, whether crude scale or fully refined. Waxes are used primarily as industrial coating for surface protection.

Wellhead Price: The value of crude oil or natural gas at the mouth of the well.

Wind Energy: Kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.

Wood and Wood-Derived Fuels: Wood and products derived from wood that are used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, paper pellets, railroad ties, utility poles, black liquor, red liquor, sludge wood, spent sulfite liquor, and other wood-based solids and liquids.

Working Gas: The volume of gas in a reservoir that is in addition to the base gas. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.