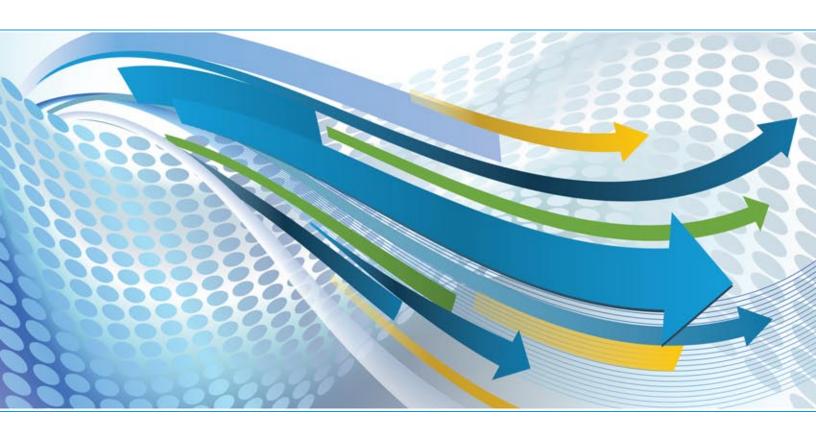
June 2012 Monthly Energy Review





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.

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Monthly Energy Review June 2012

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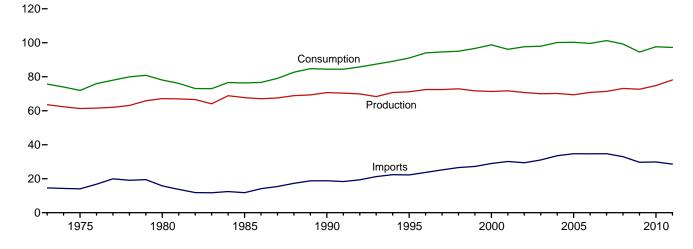
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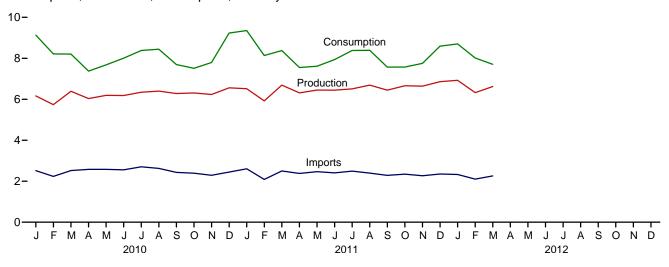
1. Energy Overview

Figure 1.1 Primary Energy Overview (Quadrillion Btu)

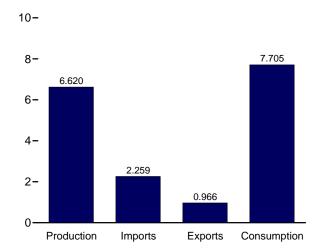
Consumption, Production, and Imports, 1973-2011



Consumption, Production, and Imports, Monthly



Overview, March 2012



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

Net Imports, January-March

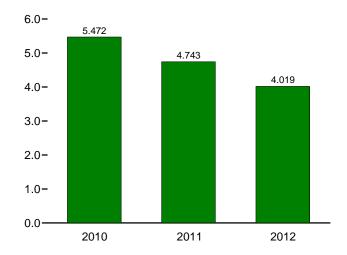


Table 1.1 Primary Energy Overview

		Produ	uction			Trade		C4==1.	Consumption			
	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	57.539	4.076	6.084	67.698	11.781	4.196	7.584	1.110	66.093	4.076	6.084	76.392
1990 Total	58.560	6.104	6.041	70.705	18.817	4.752	14.065	284	72.332	6.104	6.041	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	7.862	6.104	71.332	28.973	4.006	24.967	2.515	84.731	7.862	6.106	98.814
2001 Total	58.541	8.029	5.164	71.735	30.157	3.771	26.386	-1.953	82.902	8.029	5.163	96.168
2002 Total	56.837	8.145	5.734	70.716	29.408	3.669	25.739	1.190	83.699	8.145	5.729	97.645
2003 Total	56.099	7.959	5.982	70.040	31.061	4.054	27.007	.931	84.014	7.959	5.983	97.978
2004 Total	55.895	8.222	6.070	70.188	33.544	4.434	29.110	.864	85.819	8.222	6.082	100.162
2005 Total	55.038	8.161	6.229	69.428	34.709	4.560	30.149	.705	85.794	8.161	6.242	100.282
2006 Total	55.968	8.215	6.599	70.782	34.679	4.872	29.806	959	84.702	8.215	6.649	99.629
2007 Total	56.409	8.455	6.509	71.373	34.703	5.482	29.221	.702	86.211	8.455	6.523	101.296
2008 Total	57.482	8.427	7.202	73.111	32.992	7.060	25.932	.231	83.549	8.427	7.186	99.275
2009 Total	56.685	8.356	7.616	72.657	29.706	6.965	22.741	839	78.488	8.356	7.600	94.559
2010 January	R 4.733	.758	.672	R 6.164	2.516	.590	1.926	R 1.042	R 7.697	.758	.662	R 9.132
February	^R 4.445	.682	.610	^R 5.738	2.237	.556	1.681	.794	^R 6.915	.682	.605	^R 8.213
March	R 5.032	.676	.682	R 6.389	2.519	.654	1.865	R049	^R 6.846	.676	.673	R 8.205
April	R 4.774	.602	.661	R 6.037	2.580	.686	1.894	R558	^R 6.104	.602	.657	R 7.372
May	R 4.778	.697	.717	R 6.192	2.578	.704	1.874	R388	R 6.261	.697	.715	^R 7.678
June	^R 4.716	.714	.753	^R 6.183	2.556	.684	1.872	R048	^R 6.530	.714	.755	R 8.008
July	R 4.889	.752	.701	R 6.342	2.705	.716	1.989	R .052	^R 6.920	.752	.701	R 8.383
August	R 4.987	.748	.662	R 6.397	2.627	.698	1.929	R.118	R 7.030	.748	.660	R 8.445
September	R 4.931	.725	.626	^R 6.281	2.431	.675	1.757	R344	^R 6.345	.725	.622	^R 7.694
October	R 5.006	.656	.646	R 6.308	2.390	.714	1.676	R474	R 6.209	.656	.643	R 7.509
November	R 4.898	.655	.682	6.235	2.289	.760	1.529	R .033	R 6.464	.655	.676	R 7.797
December	R 5.061	.770	.726	R 6.557	2.447	.797	1.650	R 1.025	R 7.732	.770	.720	R 9.231
Total	R 58.250	8.434	8.136	R 74.821	29.877	8.234	21.643	R 1.202	R 81.054	8.434	8.090	R 97.667
2011 January	5.000	.760	.754	6.514	2.607	.832	1.776	R _{1.065}	R 7.847	.760	.739	R 9.355
February	R 4.527	.677	.717	^R 5.921	2.087	.751	1.336	R .878	R 6.740	.677	.710	R 8.135
March	^R 5.181	.686	.822	R 6.689	2.501	.869	1.631	R .056	R 6.870	.686	.811	R 8.376
April	R 4.920	.570	.821	R 6.311	2.378	.852	1.526	R288	R 6.160	.570	.812	R 7.549
May	R 5.011	.596	.840	R 6.448	2.466	.832	1.634	R467	R 6.171	.596	.835	R 7.614
June	R 4.934	.682	.828	R 6.445	2.407	.802	1.605	R113	R 6.417	.682	.827	R 7.937
July	R 4.953	.756	.797	R 6.506	2.493	.833	1.660	R .214	R 6.820	.756	.787	R 8.380
August	R 5.200	.746	.746	R 6.691	2.395	.893	1.502	R .196	R 6.884	.746	.744	R 8.389
September	R 5.065	.699	.680	R 6.443	2.288	.891	R 1.397	R272	R 6.185	.699	.673	R 7.567
October	R 5.286	.662	.711	R 6.658	2.345	.892	1.453	R538	R 6.200	.662	.702	R 7.573
November	^R 5.222 ^R 5.330	.674 .751	.742 .779	^R 6.639 ^R 6.859	2.269 R 2.354	.900 1.008	1.369 R 1.347	R256 R .386	^R 6.339 ^R 7.064	.674 .751	.730 .766	^R 7.751 ^R 8.592
December Total	R 60.628	8.259	9.236	R 78.123	R 28.590	1.008 10.356	R 18.234	R .862	R 79.697	8.259	9.135	R 97.219
2012 January	R 5.377	.757	.792	R 6.926	R 2.330	.866	R 1.464	R .311	R 7.160	.757	.773	R 8.701
February	R 4.949	.667	.705	R 6.322	R 2.102	.839	R 1.263	R .429	R 6.642	.667	.695	^R 8.014
March	5.178	.645	.797	6.620	2.259	.966	1.293	208	6.261	.645	.789	7.705
3-Month Total	15.505	2.069	2.294	19.868	6.691	2.671	4.019	.532	20.064	2.069	2.256	24.420
2011 3-Month Total 2010 3-Month Total	14.708 14.210	2.124 2.116	2.293 1.964	19.124 18.291	7.195 7.272	2.452 1.800	4.743 5.472	2.000 1.787	21.457 21.458	2.124 2.116	2.261 1.940	25.867 25.550

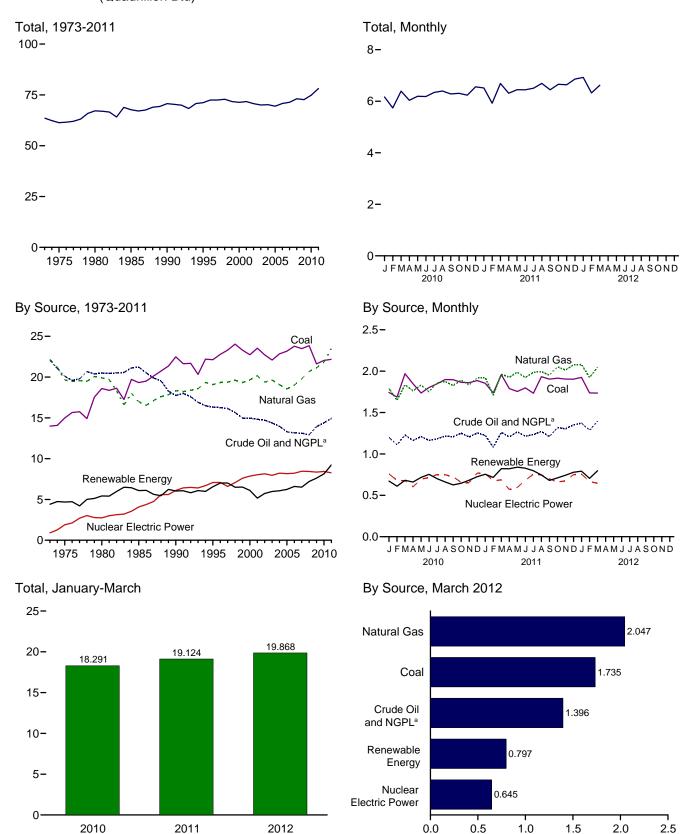
Notes: • See "Primary Energy," "Primary Energy Production," and "Primary Energy Consumption," in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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.

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

		F	ossil Fuels					ı	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 1975 Total 1980 Total 1980 Total 1995 Total 1995 Total 1996 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total	13.992 14.989 18.598 19.325 22.488 22.130 22.790 23.310 24.045 23.295 22.735 23.547 22.732 22.094 22.852 23.185 23.790 23.493 23.851	22.187 19.640 19.908 16.980 18.326 19.082 19.344 19.613 19.341 19.662 20.166 19.382 19.633 19.074 18.556 20.703 21.139	19.493 17.729 18.249 18.992 15.571 13.887 13.658 13.235 12.451 12.358 12.282 12.163 12.026 11.503 10.963 10.801 10.721 10.509 11.348	2.569 2.374 2.254 2.241 2.175 2.495 2.495 2.420 2.528 2.611 2.547 2.559 2.346 2.346 2.334 2.356 2.409 2.419 2.574	58.241 54.733 59.089 57.539 58.560 57.540 58.387 58.887 59.314 57.364 57.364 58.585 55.938 55.938 55.968 55.968	0.910 1.900 2.739 4.076 6.104 7.075 7.087 6.597 7.068 7.610 7.862 8.029 8.145 7.959 8.222 8.161 8.215 8.455 8.455 8.457	2.861 3.155 2.970 3.046 3.295 3.590 3.640 3.297 3.268 2.811 2.242 2.689 2.825 2.690 2.703 2.846 2.446 2.511 2.669	0.020 .034 .053 .097 .171 .152 .163 .167 .168 .171 .164 .171 .175 .178 .181 .181 .186 .192	NA NA (s) .059 .070 .070 .068 .066 .064 .063 .063 .063 .063 .063 .063	NA NA (s) .029 .033 .034 .031 .046 .057 .070 .105 .115 .264 .341 .546 .721	1.529 1.499 2.475 3.016 2.735 3.099 3.155 3.108 2.929 2.965 3.004 2.705 2.805 2.805 3.104 3.246 3.461 3.864 3.928	4.411 4.687 5.428 6.084 6.084 6.558 7.012 7.018 6.517 6.104 5.164 5.734 5.982 6.070 6.299 6.509 7.202	63.563 61.320 67.175 67.698 70.705 71.174 72.486 72.472 71.332 71.735 70.716 70.018 69.428 70.782 71.373 73.111 72.657
2010 January	1.743 1.687 1.969 1.848 1.736 1.802 1.847 1.898 1.897 1.864	1.790 1.648 1.835 1.763 1.832 1.751 1.859 1.874 1.826 1.892 1.833 1.920 21.823	R 970 R 990 R 991 R 936 R 972 R 937 R 956 R 980 R 977 R 1.008 R 969 1.012	.230 .210 .236 .227 .238 .226 .227 .236 .232 .242 .242 .235 .242 2.781	R 4.733 R 4.445 R 5.032 R 4.774 R 4.778 R 4.716 R 4.889 R 4.987 R 4.931 R 5.006 R 4.898 R 5.061 R 58.250	.758 .682 .676 .602 .697 .714 .752 .748 .725 .656 .655 .770	.218 .201 .204 .186 .245 .291 .239 .196 .168 .173 .191 .226 2.539	.018 .016 .018 .017 .018 .017 .018 .017 .017 .017 .017	.010 .009 .010 .011 .011 .011 .011 .011	.067 .053 .084 .095 .085 .079 .066 .065 .069 .077 .095 .088	.359 .332 .366 .351 .358 .355 .367 .371 .360 .369 .369 .383	.672 .610 .682 .661 .717 .753 .701 .662 .626 .646 .682 .726 8.136	R 6.164 R 5.738 R 6.389 R 6.037 R 6.192 R 6.183 R 6.342 R 6.397 R 6.281 R 6.308 G 6.235 R 6.557 R 74.821
2011 January February March April May June July August September October November December Total	1.854 1.736 1.958 1.789 1.755 1.798 1.733 1.933 1.903 1.905 1.904 1.903 22.181	E1.922 E1.711 E1.963 E1.925 E1.988 E1.923 E1.987 E1.994 E1.952 E2.052 E2.014 E2.075 E2.506	RE .994 RE .883 RE 1.013 E .967 E 1.015 RE .974 RE .983 RE 1.021 RE .973 RE 1.059 RE 1.046 RE 1.084 RE 12.013	.230 .198 .247 .238 .253 .240 .250 .251 .237 .259 .258 .268 2.928	5.000 R 4.527 R 5.181 R 4.920 R 5.011 R 4.934 R 4.953 R 5.200 R 5.065 R 5.286 R 5.222 R 5.330 R 60.628	.760 .677 .686 .570 .596 .682 .756 .746 .699 .662 .674 .751	.255 .241 .310 .309 .323 .315 .308 .257 .210 .195 .209 .241	.020 .018 .020 .018 .019 .019 .019 .019 .019 .019 .019	.012 .013 .013 .014 .014 .014 .013 .014 .013 .014 .013 .013	.084 .103 .103 .121 .114 .106 .072 .072 .067 .104 .121 .102	.383 .344 .377 .359 .371 .375 .384 .384 .371 .379 .382 .403	.754 .717 .822 .821 .840 .828 .797 .746 .680 .711 .742 .779	6.514 R 5.921 R 6.689 R 6.311 R 6.448 R 6.445 R 6.506 R 6.691 R 6.443 R 6.658 R 6.658 R 6.639 R 6.859
2012 January	R 1.924 R 1.737 1.735 5.397 5.548 5.399	RE 2.081 RE 1.925 E 2.047 E 6.053 E 5.595 5.273	RE 1.101 E 1.033 E 1.126 E 3.259 E 2.890 2.862	.271 .255 .271 .796 . 675	R 5.377 R 4.949 5.178 15.505 14.708 14.210	.757 .667 .645 2.069 2.124 2.116	.233 .203 .256 .693	.019 .018 .019 .057	.015 .015 .016 .046	.135 .108 .132 .375	.389 R.362 .372 1.123 1.103 1.057	.792 .705 .797 2.294 2.293 1.964	R 6.926 R 6.322 6.620 19.868 19.124 18.291

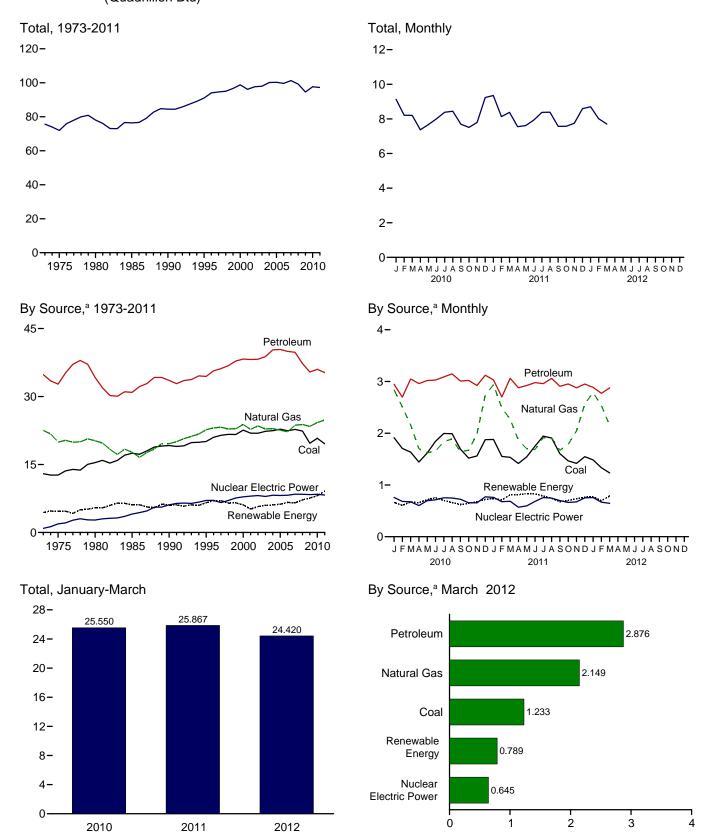
 ^a Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
 ^b Beginning in 1989, includes waste coal supplied. Beginning in 2001, also includes a small amount of refuse recovery. 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

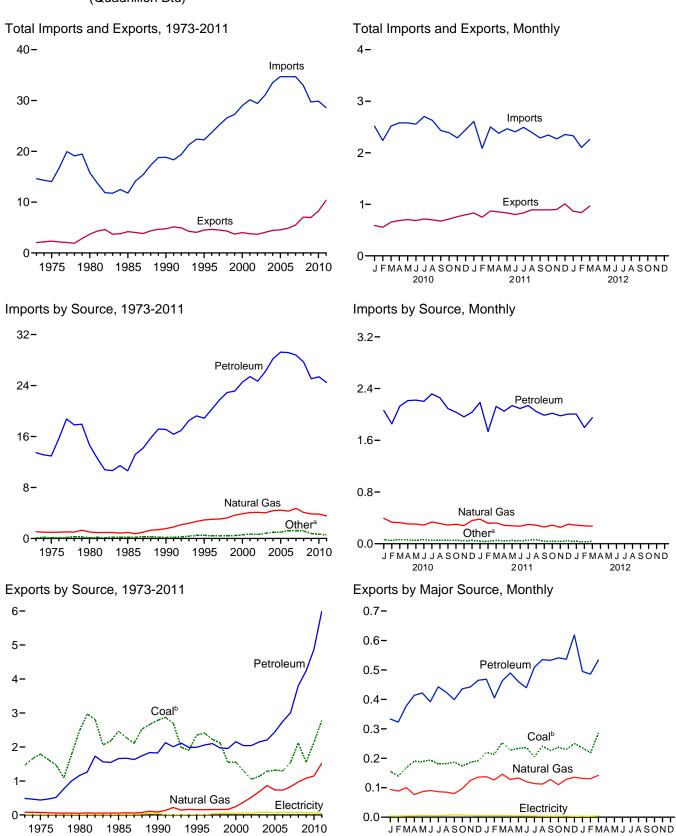
		Fossil	Fuels					Renewable	e Energy ^a				
	Coal	Natural Gas ^b	Petro- leum ^c	Totald	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total ^f	
1973 Total	12.971	22.512	34.837	70.314	0.910	2.861	0.020	NA	NA	1.529	4.411	75.684	
1975 Total	12.663	19.948	32.732	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 NA	NA NA	2.475	5.428	78.067	
1985 Total	17.478	17.703	30.925	66.093	4.076	2.970	.033			3.016	6.084	76.392	
1990 Total	19.173	19.603	33.552	72.332	6.104	3.046	.171	(s) .059	(s) .029	2.735	6.041	84.485	
1995 Total	20.089	22.671	34.438	77.259	7.075	3.205	.152	.069	.029	3.101	6.560	91.029	
1996 Total	21.002	23.085	35.675	79.785	7.087	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	7.014	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	21.914	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	22.239	39.955	84.702	8.215	2.869	.181	.068	.264	3.267	6.649	99.629	
2007 Total	22.749	23.663	39.774	86.211	8.455	2.446	.186	.076	.341	3.474	6.523	101.296	
2008 Total	22.385	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	R 1.914	2.841	2.947	R 7.697	.758	.218	.018	.010	.067	.349	.662	R 9.132	
February	R 1.706	2.507	2.698	^R 6.915	.682	.201	.016	.009	.053	.326	.605	R 8.213	
March	^R 1.635	2.160	3.048	^R 6.846	.676	.204	.018	.010	.084	.357	.673	^R 8.205	
April	R 1.444	1.700	2.960	^R 6.104	.602	.186	.017	.010	.095	.348	.657	R 7.372	
May	R 1.618	1.622	3.020	R 6.261	.697	.245	.018	.011	.085	.356	.715	R 7.678	
June	R 1.844	1.656	3.029	^R 6.530	.714	.291	.017	.011	.079	.357	.755	R 8.008	
July	R 1.995	1.836	3.089	R 6.920	.752	.239	.017	.011	.066	.368	.701	R 8.383	
August	R 1.991	1.890	3.148	R 7.030	.748	.196	.018	.011	.065	.370	.660	R 8.445	
September	R 1.693	1.644	3.008	R 6.345	.725	.168	.017	.011	.069	.357	.622	R 7.694	
October	R 1.519	1.671	3.020	R 6.209	.656	.173	.017	.010	.077	.366	.643	R 7.509	
November	R 1.561	1.986	2.923	R 6.464	.655	.191	.017	.010	.095	.363	.676	R 7.797	
December	R 1.876	2.741	3.120	R 7.732	.770	.226	.018	.010	.088	.377	.720	R 9.231	
Total	R 20.794	24.256	36.010	^R 81.054	8.434	2.539	.208	.126	.923	4.294	8.090	^R 97.667	
2011 January	R 1.879	^R 2.937 ^R 2.486	3.030	^R 7.847 ^R 6.740	.760	.255 .241	.020	.012	.084	.367	.739	^R 9.355 ^R 8.135	
February	^R 1.552 ^R 1.534	R 2.272	2.701 3.062	R 6.870	.677 .686	.310	.018 .020	.012 .013	.103 .103	.337 .366	.710 .811	R 8.376	
March	R 1.416	1.865	2.878	R 6.160	.570	.309	.020	.013			.812	R 7.549	
April	R 1.545	1.702	2.076	^R 6.171	.570	.323	.018	.013	.121 .114	.351 .365	.835	R 7.614	
May	R 1.752	1.685	2.923	R 6.417	.682	.315	.019	.014	.106	.374	.827	R 7.937	
June	R 1.732	1.916	2.959	R 6.820	.756	.308	.019	.014	.072	.374	.787	R 8.380	
July August	R 1.908	1.916	3.059	R 6.884	.746	.257	.019	.014	.072	.374	.744	R 8.389	
September	R 1.604	1.672	2.908	R 6.185	.699	.210	.018	.014	.067	.365	.673	R 7.567	
October	R 1.467	1.780	2.953	R 6.200	.662	.195	.018	.013	.104	.370	.702	R 7.573	
November	R 1.417	2.045	2.879	R 6.339	.674	.209	.019	.014	.121	.370	.730	R 7.751	
December	R 1.547	2.564	2.951	R 7.064	.751	.241	.019	.012	.102	.390	.766	R 8.592	
Total	R 19.565	R 24.838	35.283	R 79.697	8.259	3.171	.226	.158	1.168	4.411	9.135	R 97.219	
2012 January	R 1.486	R 2.786	2.887	R 7.160	.757	.233	.019	.015	.135	.370	.773	R 8.701	
February	R 1.333	R 2.537	2.772	R 6.642	.667	.203	.018	.015	.108	.351	.695	R 8.014	
March	1.233	2.149	2.876	6.261	.645	.256	.019	.016	.132	.364	.789	7.705	
3-Month Total	4.052	7.472	8.535	20.064	2.069	.693	.057	.046	.375	1.085	2.256	24.420	
2011 3-Month Total 2010 3-Month Total	4.965 5.254	7.696 7.509	8.793 8.693	21.457 21.458	2.124 2.116	.806 .623	.057 .052	.037 .029	.290 .204	1.071 1.032	2.261 1.940	25.867 25.550	

 ^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 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)



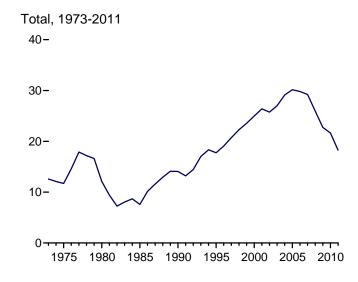
Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Sources: Tables 1.4a and 1.4b.

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

^b Includes coal coke.

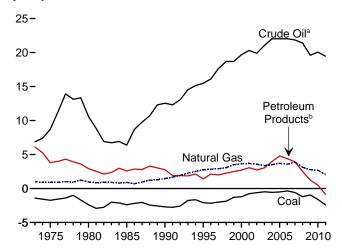
Figure 1.4b Primary Energy Net Imports

(Quadrillion Btu, Except as noted)



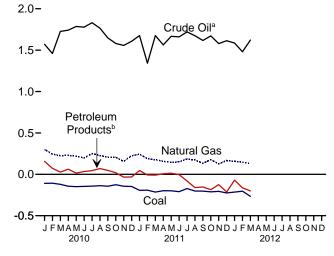






By Major Source, Monthly

2010

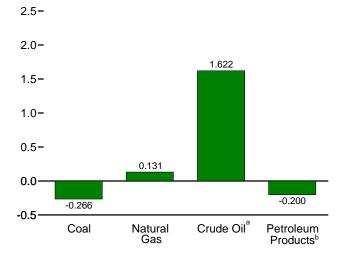


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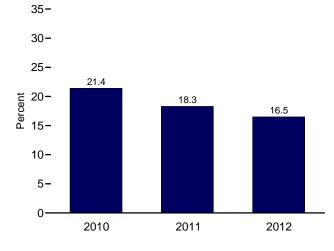
2011

2012

By Major Source, March 2012



As Share of Consumption, January-March



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

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

					Imports				
					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Total	Biofuels ^c	Electricity	Total
1973 Total	0.003	0.027	1.060	6.887	6.578	13.466	NA	0.057	14.613
1975 Total	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032
1980 Total	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796
1985 Total	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781
1990 Total	.067	.019	1.551	12.766	4.351	17.117	NA .	.063	18.817
1995 Total	.237	.095	2.901	15.669	3.211	18.881	.001	.146	22.260
1996 Total	.203	.063	3.002	16.341	3.943	20.284	.001	.148	23.702
1997 Total	.187	.078	3.063	17.876	3.864	21.740	(s)	.147	25.215
1998 Total 1999 Total	.218 .227	.095 .080	3.225 3.664	18.916 18.935	3.992 4.198	22.908 23.133	(s)	.135 .147	26.581 27.252
2000 Total	.313	.094	3.869	19.783	4.749	24.531	(s) (s)	.166	28.973
2000 Total	.495	.063	4.068	20.348	5.051	25.398	.002	.131	30.157
2002 Total	.422	.080	4.104	19.920	4.754	24.674	.002	.125	29.408
2003 Total	.626	.068	4.042	21.060	5.159	26.219	.002	.104	31.061
2004 Total	.682	.170	4.365	22.082	6.114	28.197	.013	.117	33.544
2005 Total	.762	.088	4.450	22.091	7.157	29.248	.012	.150	34.709
2006 Total	.906	.101	4.291	22.085	7.084	29.169	.066	.146	34.679
2007 Total	.909	.061	4.723	21.914	6.868	28.781	.054	.175	34.703
2008 Total	.855	.089	4.084	21.448	6.237	27.685	.084	.195	32.992
2009 Total	.566	.009	3.845	19.699	5.383	25.082	.026	.178	29.706
2010 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 .044	.002 .001	.289	1.658	.432	2.090	(s)	.010 .009	2.431
October	.044		.302 .280	1.585	.448 .400	2.034 1.963	(s)	.009	2.390 2.289
November December	.037	(s) (s)	.280 .361	1.563 1.614	.400 .420	2.034	(s) (s)	.009	2.289 2.447
Total	.484	.030	3.834	20.140	5.231	25.371	.004	.154	29.877
10tai							.004		
2011 January	.025	.001	.380	1.689	.497	2.186	(s)	.015	2.607
February	.021	.002	.316	1.348	.387	1.735	(s)	.013	2.087
March	.038	.004	.322	1.682	.441	2.123	(s)	.014	2.501
April	.028	.001	.285	1.570	.479	2.050	(s)	.013	2.378
May	.033 .024	.004 .004	.277 .272	1.674 1.666	.462 .424	2.135 2.090	(s) .001	.017 .015	2.466 2.407
June	.030	.004	.300	1.734	.424	2.090	.001	.015	2.497
July August	.039	.005	.286	1.680	.364	2.044	.001	.019	2.395
September	.021	.003	.260	1.623	.365	1.988	.002	.014	2.288
October	.023	.002	.288	1.681	.337	2.018	.002	.013	2.345
November	.020	.002	.254	1.591	.388	1.979	.002	.012	2.269
December	.024	.004	R .303	1.623	.383	2.006	.004	.015	R 2.354
Total	.327	.035	R 3.542	19.561	4.930	24.491	.016	.178	R 28.590
2012 January	.020	.003	R .288	1.596	.408	2.005	(s)	.014	R 2.330
February	.013	.002	R .277	1.491	.307	1.798	(s)	.012	R 2.102
March	.017	.004	.273	1.633	.316	1.949	.002	.014	2.259
3-Month Total	.051	.009	.837	4.720	1.031	5.751	.002	.041	6.691
2011 3-Month Total 2010 3-Month Total	.085 .120	.007 .009	1.018 1.053	4.719 4.780	1.325 1.260	6.044 6.040	.001 .001	.041 .048	7.195 7.272

^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.

Crude oil and lease condensate. Includes imports into the Strategic Fetroleum 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

					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	2.772	.014	.087	.230	1.594	1.824	NA	.055	4.752	14.065
1995 Total	2.318	.034	.156	.200	1.791	1.991	NA	.012	4.511	17.750
1996 Total	2.368	.040	.155	.233	1.825	2.059	NA	.011	4.633	19.069
1997 Total	2.193	.031	.159	.228	1.872	2.100	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	1.273	.043	.735	.067	2.374	2.442	.001	.065	4.560	30.149
2006 Total	1.264	.040	.730	.052	2.699	2.751	.004	.083	4.872	29.806
2007 Total	1.507	.036	.830	.058	2.949	3.007	.035	.069	5.482	29.221
2008 Total 2009 Total	2.071 1.515	.049 .032	.972 1.082	.061 .093	3.739 4.147	3.800 4.240	.086 .034	.083 .062	7.060 6.965	25.932 22.741
2010 January	.151	.006	.094	.006	.327	.332	.003	.004	.590	1.926
	.138	.001	.089	.009	.312	.321	.003	.003	.556	1.681
February March	.169	.001 (s)	.100	.008	.366	.374	.003	.003	.654	1.865
April	.189	.001	.077	.008	.404	.411	.005	.004	.686	1.894
May	.186	.003	.086	.007	.414	.420	.003	.006	.704	1.874
June	.190	.003	.091	.005	.385	.391	.003	.005	.684	1.872
July	.178	.003	.087	.012	.428	.440	.003	.005	.716	1.989
August	.180	.002	.085	.006	.415	.421	.004	.006	.698	1.929
September	.184	.002	.080	.011	.385	.396	.004	.008	.675	1.757
October	.170	.003	.097	.004	.429	.433	.004	.007	.714	1.676
November	.180	.006	.125	.004	.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	.451	.464	.006	.005	.832	1.776
February	.212	.002	.126	.005	.395	.400	.005	.005	.751	1.336
March	.252	.001	.146	.007	.450	.457	.008	.005	.869	1.631
April	.227	.001	.128	.007	.473	.480	.011	.005	.852	1.526
May	.232	.002	.133	.007	.448	.454	.007	.004	.832	1.634
June	.233	.003	.121	.006	.428	.434	.006	.004	.802	1.605
July	.202	.003	.114	.013	.485	.498	.011	.004	.833	1.660
August	.241	.001	.112	.006	.525	.531	.005	.003	.893	1.502
September	.224	.003	.128	.006	.518	.524	.010	.003	.891	R 1.397
October	.235	.002	.110	.009	.522	.531	.011	.003	.892	1.453
November	.226	.004	.129	.011	.513	.524	.013	.004	.900	1.369
December	.249	.001	.136	.010	.595	.604	.014	.003	1.008	R 1.347
Total	2.751	.024	1.521	.100	5.801	5.901	.108	.051	10.356	R 18.234
2012 January	.234	.001	.132	.010	.478	.489	.008	.003	.866	R 1.464
February	.217	.002	.131	.010	.470	.480	.007	.003	.839	R 1.263
March	.284	.002	.142	.011	.516	.527	.008	.004	.966	1.293
3-Month Total	.735	.004	.405	.031	1.465	1.495	.022	.010	2.671	4.019
2011 3-Month Total 2010 3-Month Total	.683 .458	.004 .007	.410 .283	.024 .023	1.296 1.004	1.321 1.028	.019 .012	.016 .012	2.452 1.800	4.743 5.472

^a Net imports equal imports minus exports.

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

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

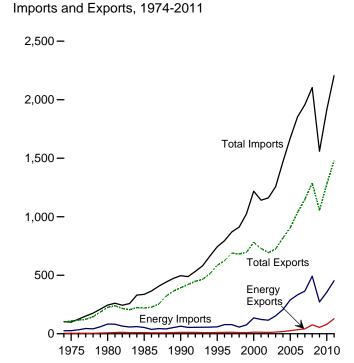
Sources: • Coal: Tables 6.1 and A5. • Coal Coke: 1973-1975—U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook*, "Coke and Coal Chemicals" chapter. 1976-1980—U.S. Energy Information Administration (EIA), *Energy Data Report*, "Coke and Coal Chemicals," annual reports. 1981 forward—EIA, *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.

a Net imports equal imports minus experts.
b Crude oil and lease condensate.
c Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.
d Through 2010, data are for biodiesel only. Beginning in 2011, data are for

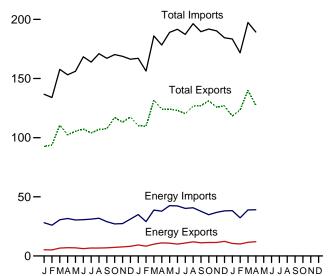
fuel ethanol (minus denaturant) and biodiesel.
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.
Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Figure 1.5 Merchandise Trade Value (Billion Dollars^a)



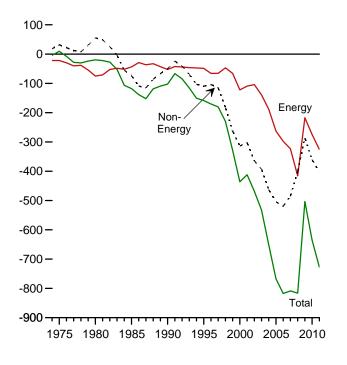
Imports and Exports, Monthly

250 -



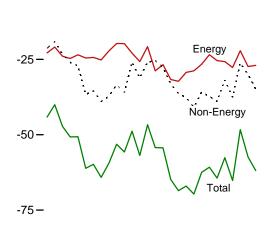
2011

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)

		Petroleum)		Energy		Non-		Total Merchandi	se
	Exports	Imports	Balance	Exports	Imports	Balance	Energy 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 1,036,635	1,673,455	-767,477
2006 Total	28,171 33,293	299,714	-271,543	34,711	332,500	-297,789 -323,262	-519,515	1,148,199	1,853,938	-817,304
2007 Total 2008 Total	33,293 61,695	327,620 449,847	-294,327 -388,152	41,725 76,075	364,987 491,885	-323,262 -415,810	-485,501 -400,389	1,146,199	1,956,962 2,103,641	-808,763 -816,199
2009 Total	44,509	251,833	-300,132	54,536	271,739	-415,610	-400,369 -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	5,230	26,018	-20,903	-21,265 -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	-268,687	80,460	354,968	-274,508	-360,389	1,278,263	1,913,160	-634,897
2011 January	^R 7,446	R 33,050	R -25,604	R 9,275	R 35,010	R -25,735	R -31,134	R 110,179	R 167,048	R -56,869
February	R 6,604	R 27,551	R -20,947	R 8,291	R 29,062	R -20,771	R -25,897	R 109,647	R 156,315	R -46,668
March	^R 7,841	R 37,096	R -29,255	R 9,958	R 38,763	R -28,805	R -25,442	R 131,728	R 185,975	R -54,247
April	^R 9,016	R 36,457	R -27,441	R 11,059	R 37,803	R -26,744	R -27,589	R 123,959	R 178,293	R -54,333
May	^R 8,767	R 41,002	R -32,235	^R 10,795	^R 42,470	^R -31,675	^R -33,171	^R 124,107	^R 188,953	^R -64,846
June	R 8,032	R 40,872	R -32,840	R 10,039	R 42,305	R -32,266	R -36,274	R 123,039	^R 191,579	^R -68,540
July	R 9,069	R 38,622	R -29,553	R 10,902	R 40,224	R -29,322	R -37,702	R 120,239	R 187,263	R -67,024
August	^R 9,912	R 39,063	R -29,151	R 11,940	R 40,732	R -28,792	R -40,896	R 126,633	R 196,321	R -69,688
September	R 9,202	R 36,467	^R -27,265	^R 11,141	^R 37,741	^R -26,600	R -35,855	^R 127,107	^R 189,562	^R -62,455
October	R 9,573	R 33,467	R -23,894	R 11,410	R 34,857	R -23,447	R -37,306	R 131,058	R 191,811	R -60,753
November	R 9,533	R 35,665	R -26,132	R 11,401	R 36,821	R -25,420	R -38,944	R 125,899	R 190,263	R -64,364
December	R 10,501	^R 36,831	R -26,330	R 12,353	R 38,083	R -25,730	R -31,876	R 126,837	R 184,443	R -57,606
Total	R 105,499	R 436,145	R -330,646	R 128,564	R 453,872	R -325,308	R -402,084	R 1,480,432	R 2,207,824	R -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	R -29,974	R 139,965	R 197,324	R -57,359
April	10,152	38,129	-27,977	12,057	39,043	-26,986	-34,879	127,415	189,280	-61,865
4-Month Total	37,196	144,277	-107,081	44,339	148,520	-104,181	-128,553	509,016	741,751	-232,735
2011 4-Month Total 2010 4-Month Total	30,907 19,114	134,154 107,465	-103,247 -88,351	38,584 23,988	140,638 116,363	-102,055 -92,375	-110,062 -89,731	475,513 399,408	687,630 581,514	-212,117 -182,106

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

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.

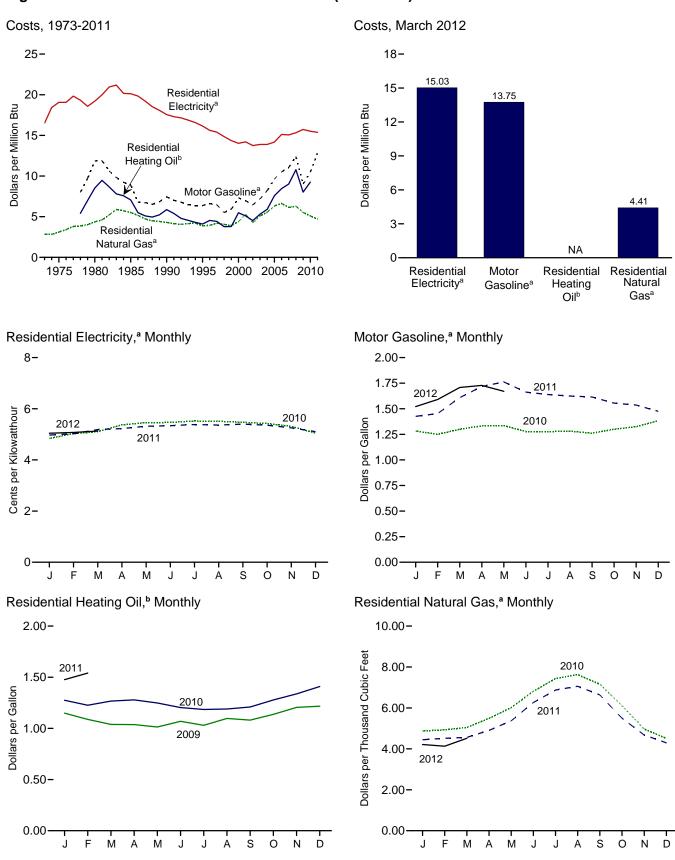
b Crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels.

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



^b Excludes taxes. NA=Not available.

^a Includes taxes.

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 Il Gas ^b	Resid Electi	ential ricity ^b
	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
995 Average	152.4	0.791	6.37	0.569	4.10	3.98	3.87	5.51	16.15
996 Average	156.9	0.821	6.61	0.630	4.54	4.04	3.94	5.33	15.62
997 Average	160.5	0.804	6.48	0.613	4.42	4.32	4.21	5.25	15.39
998 Average	163.0	0.684	5.51	0.523	3.77	4.18	4.05	5.07	14.85
999 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
002 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
010 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
011 January	220.223	1.425	11.47	1.476	10.64	4.45	4.35	4.97	14.57
February	221.309	1.453	11.69	1.540	11.11	4.52	4.42	5.02	14.73
March	223.467	1.608	12.95	NA	NA	4.56	4.46	5.19	15.20
April	224.906	1.718	13.83	NA	NA	4.90	4.79	5.22	15.31
May	225.964	1.762	14.18	NA	NA	5.37	5.25	5.32	15.58
June	225.722	1.663	13.38	NA	NA	6.26	6.12	5.34	15.65
July	225.922	1.639	13.19	NA	NA	6.87	6.72	5.38	15.77
August	226.545	1.624	13.07	NA	NA	7.06	6.90	5.36	15.72
September	226.889	1.615	13.00	NA	NA	6.64	6.49	5.40	15.82
October	226.421	1.555	12.52	NA	NA	5.50	5.37	5.36	15.70
November	226.230	1.536	12.36	NA	NA	4.68	4.57	5.25	15.39
December	225.672	1.475	11.87	NA	NA	4.29	4.20	5.10	14.96
Average	224.939	1.590	12.80	NA	NA	4.80	4.69	5.25	15.37
012 January	226.665	1.521	12.24	NA	NA	4.21	4.12	5.04	14.78
February	227.663	1.591	12.81	NA	NA	4.13	4.04	5.07	14.87
March	229.392	1.708	13.75	NA	NA	R 4.52	R 4.41	^R 5.13	R 15.03
April	230.085	1.728	13.91	NA	NA	NA	NA	NA	NA
May	229.815	1.670	13.45	NA	NA	NA	NA	NA	NA

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

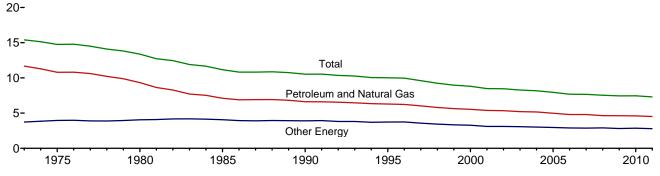
Columbia.

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

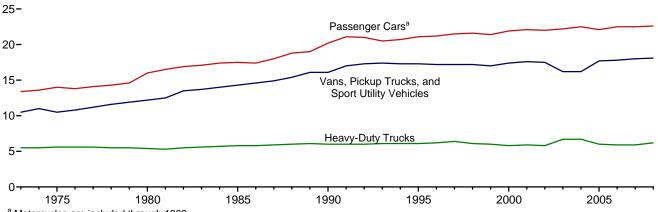
	Ene	rgy Consumptior	1	Gross	Energy Consumption per Real Dollar of GDP				
	Petroleum and Natural Gas	Other Energy ^a	Total	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total		
		Quadrillion Btu		Billion Chained (2005) Dollars	Thousand Btu per Chained (2005) Dollar				
973 Year	57.350	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		
975 Year	52.680	19.284	71.965	4,875.4	10.81	3.96	14.76		
976 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		
986 Year	48.790	27.764	76.647	7.080.5	6.89	3.93	10.83		
100 Teal	50.504	28.551	79.054		6.91				
987 Year				7,307.0		3.91	10.82		
988 Year	52.671	30.038	82.709	7,607.4	6.92	3.95	10.87		
989 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		
991 Year	52.879	31.559	84.438	8,008.3	6.60	3.94	10.54		
992 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		
996 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		
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		
001 Tear	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		
	63.215	36.947	100.162	12,246.9	5.16				
04 Year						3.02	8.18		
005 Year	62.953	37.328	100.282	12,623.0	4.99	2.96	7.94		
006 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	12,703.1	4.63	2.81	7.44		
)10 Year	60.266	^R 37.401	^R 97.667	13,088.0	4.60	2.86	R 7.46		
011 Year	R 60.120	R 37.099	R 97.219	13,315.1	4.52	2.79	R 7.30		

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

R=Revised. 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

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 (May 31, 2012), Table 1.1.6.

Figure 1.8 Motor Vehicle Fuel Economy, 1973-2008 (Miles per Gallon)



^a Motorcycles are included through 1989.

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

		Passenger Cars	a		ns, Pickup Truc Sport Utility Veh		Н	eavy-Duty Truck	(S ^C	A	II Motor Vehicle	s d
	Mileage	Fuel	Fuel	Mileage	Fuel	Fuel	Mileage	Fuel	Fuel	Mileage	Fuel	Fuel
	(miles	Consumption	Economy	(miles	Consumption	Economy	(miles	Consumption	Economy	(miles	Consumption	Economy
	per	(gallons	(miles per	per	(gallons	(miles per	per	(gallons	(miles per	per	(gallons	(miles per
	vehicle)	per vehicle)	gallon)	vehicle)	per vehicle)	gallon)	vehicle)	per vehicle)	gallon)	vehicle)	per vehicle)	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	a10,157	^a 533	^a 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	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721	16.9
1999	11,848	553	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206	732	16.7
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1
2002	12,202	555	22.0	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9
2003	12,325	556	22.2	11,287	697	16.2	28,093	4,215	6.7	12,208	718	17.0
2004	12,460	553	22.5	11,184	690	16.2	27,023	4,057	6.7	12,200	714	17.1
2005	12,510	567	22.1	10,920	617	17.7	26,235	4,385	6.0	12,082	706	17.1
2006	12,485	554	22.5	10,920	612	17.8	25,231	4,304	5.9	12,017	698	17.2
2007	12,304	547	22.5	10,962	609	18.0	25,152	4,275	5.9	11,920	693	17.2
2008 ^P	11,788	522	22.6	10,951	605	18.1	25,254	4,075	6.2	11,619	667	17.4

a Through 1989, includes motorcycles.

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

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

Sources: • Passenger Cars, 1990-1994: U.S. Department of Transportation, Bureau of Transportation Statistics, National 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.

b Includes a small number of trucks with 2 axles and 4 tires, such as step vans.

c Single-unit trucks with 2 axles and 6 or more tires, and combination trucks.

d Includes buses and motorcycles, which are not shown separately.

Table 1.9 Heating Degree-Days by Census Division

			May					Cumulative y through N		
				Percent	Change				Percent	Change
Census Divisions	Normala	2011	2012	Normal to 2012	2011 to 2012	Normala	2011	2012	Normal to 2012	2011 to 2012
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	281	243	196	-30	-19	6,579	6,478	5,319	-19	-18
Middle Atlantic New Jersey, New York, Pennsylvania	217	158	108	-50	-32	5,904	5,756	4,699	-20	-18
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	238	230	120	-50	-48	6,481	6,510	5,178	-20	-20
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	208	250	123	-41	-51	6,735	6,834	5,386	-20	-21
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	61	49	18	NM	NM	2,861	2,930	2,220	-22	-24
East South Central Alabama, Kentucky, Mississippi, Tennessee	76	98	23	NM	NM	3,616	3,618	2,787	-23	-23
West South Central Arkansas, Louisiana, Oklahoma, Texas	17	43	8	NM	NM	2,298	2,212	1,791	-22	-19
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	233	281	171	-27	-39	5,150	4,869	4,588	-11	-6
Pacific ^b California, Oregon, Washington	182	249	132	-27	-47	3,167	3,269	3,051	-4	-7
U.S. Average ^b	159	166	90	-43	-46	4,508	4,494	3,690	-18	-18

^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

			Мау					Cumulative ary through			
				Percent	Change				Percent	Change	
Census Divisions	Normal ^a	2011	2012	Normal 2011 to 2012 to 2012		Normala	2011	2012	Normal to 2012	2011 to 2012	
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	6	37	29	NM	NM	6	42	33	NM	NM	
Middle Atlantic New Jersey, New York, Pennsylvania	23	57	64	NM	NM	23	76	69	NM	NM	
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	49	64	89	NM	NM	51	73	107	NM	NM	
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	65	65	112	NM	NM	74	75	137	NM	NM	
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	177	241	261	47	8	361	492	510	41	4	
East South Central Alabama, Kentucky, Mississippi, Tennessee	136	185	240	76	30	193	280	341	77	22	
West South Central Arkansas, Louisiana, Oklahoma, Texas	252	308	340	35	10	427	640	663	55	4	
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	96	62	125	NM	NM	145	112	182	26	63	
Pacific ^b California, Oregon, Washington	36	8	30	NM	NM	56	11	39	NM	NM	
U.S. Average ^b	97	120	146	NM	NM	163	219	246	51	12	

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

 $\mbox{NM=Not}$ 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. 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).

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 5-2 (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. 1993–2011: "U.S. International Trade in Goods and Services," Annual Revision.

2012: "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.

1994–2011: "U.S. International Trade in Goods and Services," Annual Revision.

2012: "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.

1993–2011: "U.S. International Trade in Goods and Services," Annual Revision.

2012: "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.

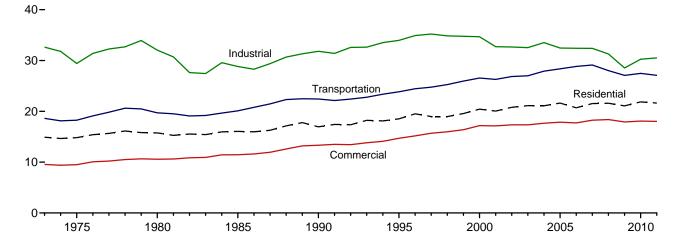
1992–2011: "U.S. International Trade in Goods and Services," Annual Revision.

2012: "U.S. International Trade in Goods and Services," FT-900, monthly.

2. Energy Consumption by Sector

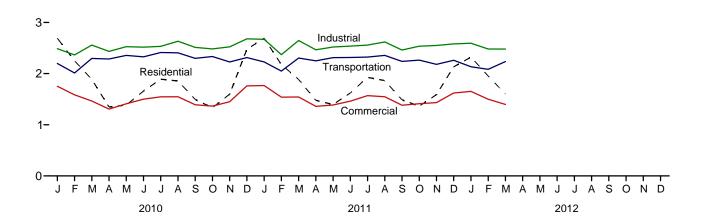
Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1973-2011

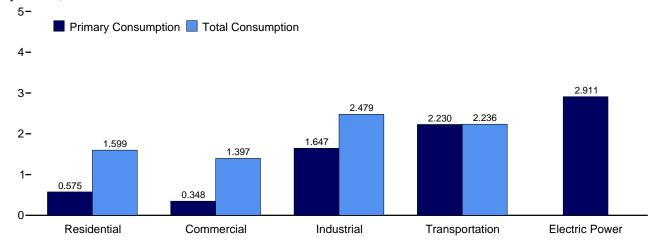


Total Consumption by End-Use Sector, Monthly

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	Comme	ercial ^a	Indus	trial ^b	Transpo	rtation	Power Sector ^{c,d}	Balancing	Primary
	Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primary ^e	Total ^f	Primarye	Item ^g	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	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
1995 Total 1996 Total	6,936 7.467	19,504	4,101	15,172	23,410	34,904	24,383	24,437	33,479 34,485	3 4	91,029
1997 Total	7,467	18,965	4,273	15,172	23,686	35,200	24,695	24,750	34,886	6	94,602
1998 Total	6.413	18.955	4,295	15,968	23,000	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	25,230	36,976	-3 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	21,093	4,232	17,659	22,412	33,520	27,817	27,895	38,713	-6	100,162
2005 Total	6.909	21,626	4,051	17,857	21,411	32,446	28,272	28,353	39,638	(s)	100,282
2006 Total	6,168	20,688	3,747	17,711	21,536	32,401	28,751	28,830	39,428	(s)	99,629
2007 Total	6,598	21,531	3,922	18,255	21,370	32,394	29,029	29,117	40,377	`-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	R 1,695	R 2,487	2,190	2,198	3,484	4	R 9,132
February	985	2,250	548	1,585	R 1,601	R 2,365	2,004	2,012	3,073	1	R 8,213
March	737	1,887	419	1,465	R 1,752	R 2,557	2,290	2,297	3,008	₂ -1	R 8,205
April	439	1,347	277	1,307	R 1,624	R 2,435	2,280	2,286	2,755	R-2	R 7,372
May	328	1,386	226	1,410	R 1,612	R 2,527	2,349	2,356	3,163	R (s)	R 7,678
June	268	1,659	198	1,501	R 1,608	R 2,517	2,320	2,328	3,611	2	R 8,008
July	240	1,889	182	1,546	R 1,618	R 2,532	2,404	2,411	3,934	4 R 4	R 8,383
August	232	1,855	186	1,547	R 1,707	R 2,633	2,399	2,406	3,917	P (-)	R 8,445
September	237 343	1,494	189 256	1,390	^R 1,671 ^R 1,644	R 2,512 R 2,482	2,291	2,298	3,306	R(s)	^R 7,694 ^R 7,509
October November	543 599	1,331 1,597	256 364	1,364 1,451	R 1,644	R 2,482	2,327 2,221	2,333 2,228	2,942 2,944	-1 R -1	^R 7,509
December	1,054	2.476	579	1,451	R 1,802	R 2,679	2,307	2,226	3.488	-1 1	R 9,231
Total	6,603	21,862	4,039	18,078	R 20,003	R 30,250	27,384	27,466	39,626	R 11	R 97,667
2011 January	R 1,173	R 2,691	R 636	R 1,766	R 1,843	R 2,671	2,220	2,227	3,483	1	R 9,355
February	R 952	R 2,178	^R 531	R 1,540	R 1,605	R 2,369	R 2,042	2,049	3,006	R -1	R 8,135
March	^R 773	^R 1,885	448	R 1,543	^R 1,791	^R 2,646	2,297	2,304	3,070	-3	^R 8,376
April	480	1,477	298	1,359	R 1,626	R 2,465	2,243	2,249	2,905	-2	R 7,549
May	329	1,396	221	1,387	^R 1,638	R 2,520	2,306	2,313	3,121	-2	^R 7,614
June	261	1,622	193	1,462	R 1,643	R 2,537	2,308	2,315	3,530	_ 1	^R 7,937
July	239	1,925	185	1,569	R 1,623	R 2,558	2,316	2,323	4,012	^R 5	^R 8,380
August	250	1,863	202	1,548	R 1,700	R 2,619	2,350	2,356	3,885	3	R 8,389
September	264	1,488	212	1,382	R 1,629	R 2,460	2,232	2,238	3,232	-1	^R 7,567
October	382	1,364	293	1,411	R 1,676	R 2,536	2,257	2,264	2,967	-2	R 7,573
November	594	1,589	367	1,434	R 1,699	R 2,550	2,175	2,181	2,919	-3	R 7,751
December	885	2,132	504	1,621	R 1,736	R 2,581	2,253	2,260	3,215	-3 R -5	R 8,592
Total	^R 6,582	R 21,615	R 4,089	R 18,020	R 20,209	^R 30,510	26,999	27,079	39,346		R 97,219
2012 January	1,008	2,323	^R 560	R 1,652	R 1,776	R 2,594	R 2,126	2,133	3,232	R -2	R 8,701
February	848	1,954	^R 484	^R 1,499	^R 1,684	^R 2,481	2,077	2,083	2,924	R -3	^R 8,014
March	575	1,599	348	1,397	1,647	2,479	2,230	2,236	2,911	-5	7,705
3-Month Total	2,431	5,876	1,392	4,548	5,107	7,553	6,433	6,453	9,067	-10	24,420
2011 3-Month Total 2010 3-Month Total	2,898 2,865	6,754 6,828	1,614 1,583	4,849 4,802	5,238 5,048	7,686 7,410	6,560 6,485	6,580 6,506	9,559 9,566	-3 5	25,867 25,550

^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.

⁹ 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, 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.

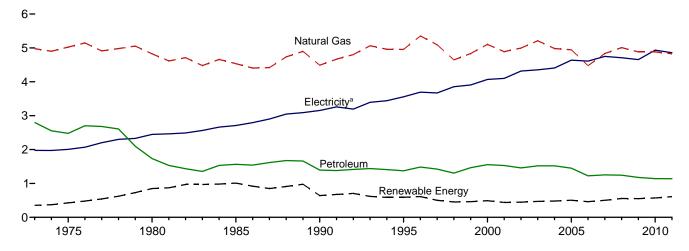
Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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.

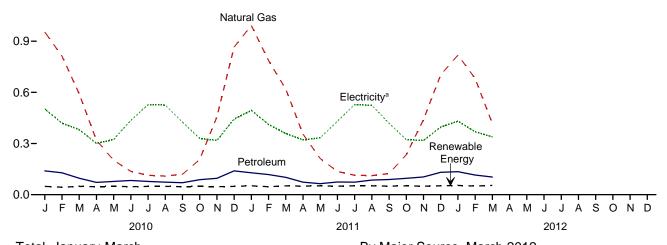
Figure 2.2 Residential Sector Energy Consumption (Quadrillion Btu)

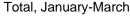


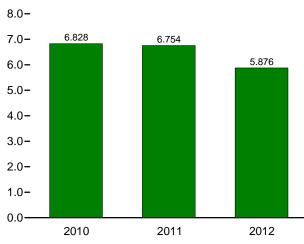


By Major Source, Monthly

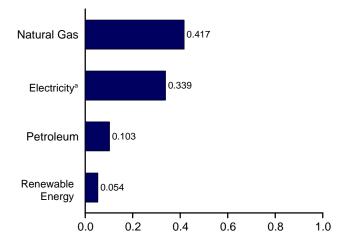








By Major Source, March 2012



^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)

				Primar	y Consum	otiona						
		Fossil	Fuels			Renewal	ole Energy ^b			Electricity	Electrical System	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Retail Sales ^d	Energy Losses ^e	Total
1973 Total	94	4,977	2,800	7,871	NA	NA	354	354	8,225	1,976	4,696	14,897
1975 Total	63	5,023	2,479	7,564	NA	NA	425	425	7,990	2,007	4,817	14,813
1980 Total	31	4,825	1,734	6,589	NA	NA	850	850	7,439	2,448	5,866	15,753
1985 Total	39 31	4,534 4,491	1,565 1,394	6,138	NA 6	NA 56	1,010 580	1,010 641	7,148 6,557	2,709	6,184 7,235	16,041 16,945
1990 Total 1995 Total	17	4,491	1,354	5,916 6.345	7	64	520	591	6,936	3,153 3.557	8.026	18,519
1996 Total	17	5.354	1,484	6.854	7	65	540	612	7,467	3,694	8,344	19,504
1997 Total	16	5,093	1,422	6,531	8	64	430	502	7.033	3,671	8,261	18,965
1998 Total	12	4,646	1,304	5.962	8	64	380	452	6,413	3.856	8,686	18.955
1999 Total	14	4,835	1,465	6,314	9	63	390	461	6,775	3,906	8,875	19,557
2000 Total	11	5,105	1,554	6,670	9	61	420	489	7,159	4,069	9,197	20,425
2001 Total	12	4,889	1,529	6,430	9	59	370	438	6,868	4,100	9,074	20,042
2002 Total	12	4,995	1,457	6,464	10	57	380	448	6,912	4,317	9,562	20,791
2003 Total	12	5,209	1,519	6,741	13	57	400	470	7,211	4,353	9,546	21,110
2004 Total	11	4,981	1,520	6,513	14	57	410	481	6,993	4,408	9,691	21,093
2005 Total	8	4,946	1,451	6,406	16	58	430	504	6,909	4,638	10,079	21,626
2006 Total	6	4,476	1,224	5,706	18	63	380	462	6,168	4,611	9,909	20,688
2007 Total	8 8	4,835	1,254	6,097	22 26	70 80	410	502	6,598	4,750	10,182	21,531
2008 Total 2009 Total	8	5,010 4,883	1,243 1,176	6,261 6,067	33	80 89	450 430	557 552	6,817 6,619	4,708 4,656	10,071 9,789	21,596 21,064
2009 Total	0	4,003	1,176	0,007	33	09	430	332	0,019	4,030	9,709	21,004
2010 January	1	953	140	1.094	3	10	36	48	1.142	503	1.045	2.691
February	i	812	128	941	3	9	32	44	985	419	846	2,250
March	1	592	96	689	3	10	36	48	737	381	768	1,887
April	(s)	320	72	392	3	9	35	47	439	300	608	1,347
May	(s)	201	78	280	3	10	36	48	328	324	734	1,386
June	1	137	83	221	3	9	35	47	268	435	956	1,659
July	1	114	78	192	3	10	36	48	240	528	1,121	1,889
August	. 1	109	74	183	3	10	36	48	232	526	1,098	1,855
September	(s)	120	70	190	3	9	35	47	237	425	832	1,494
October	1	206	88 96	294 552	3 3	10 9	36 35	48 47	343 599	330 318	658	1,331 1.597
November December	1	456 865	140	1.006	3	10	36	47	1.054	444	680 978	2.476
Total	7	4,883	1,142	6,032	3 7	114	420	571	6,603	4,933	10,326	21,862
10tai	,	4,003	1,142	0,032	31	114	420	3/1	0,003	4,933	10,320	21,002
2011 January	1	R 992	129	R 1,121	3	12	37	52	R 1,173	494	1,023	R 2,691
February	1	^R 787	118	^R 905	3	11	33	47	R 952	412	814	R 2,178
March	1	^R 619	102	^R 721	3	12	37	52	R 773	358	754	R 1,885
April	(s)	355	73	429	3	12	35	50	480	321	677	1,477
May	(s)	212	64	277	3	12	37	52	329	334	733	1,396
June	(s)	136	74	211	3	12	35	50	261	430	931	1,622
July	(s)	114	73 86	188	3	12	37	52	239	528	1,158	1,925
August	(s) (s)	112 124	86 89	198 214	3 3	12 12	37 35	52 50	250 264	524 419	1,089 806	1,863 1,488
September October	(s)	234	96	330	3	12	37	52	382	323	659	1,364
November	(s)	439	104	544	3	12	35	50	594	318	678	1,589
December	(s)	702	131	834	3	12	37	52	885	396	851	2.132
Total	6	R 4,826	1,139	R 5,972	40	140	430	610	R 6,582	4,858	10,176	R 21,615
					_							
2012 January	1	818	135	954	3	14	36	54	1,008	432	884	2,323
February	1	682	115	798	3	13	34	51	848	369	737	1,954
March 3-Month Total	(s) 2	417 1,917	103 354	521 2,272	3 10	14 42	36 107	54 159	575 2,431	339 1,139	685 2,305	1,599 5,876
3-WORTH TOTAL	2	1,917	334	2,212	10	42	107	159	2,431	1,139	2,303	3,010
2011 3-Month Total	2	2,398	348	2,748	10	35	106	150	2,898	1,265	2,591	6,754
2010 3-Month Total	2	2,357	364	2,724	9	28	104	141	2,865	1,304	2,660	6,828

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

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

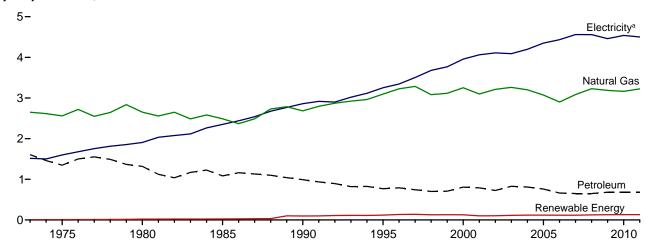
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973.

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

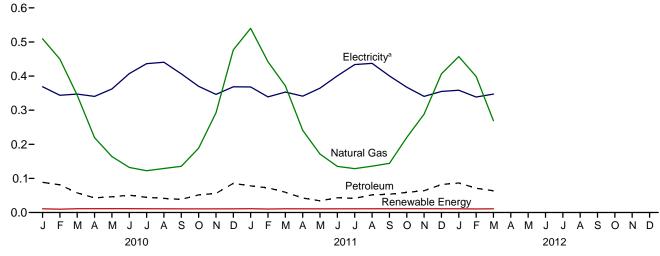
a See "Primary Energy Consumption" in Glossary.
 b Data are estimates. See Table 10.2a for notes on series components.
 c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 d Electricity retail sales to ultimate 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

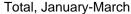
Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)

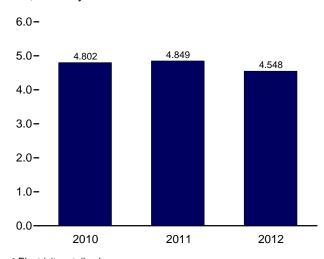




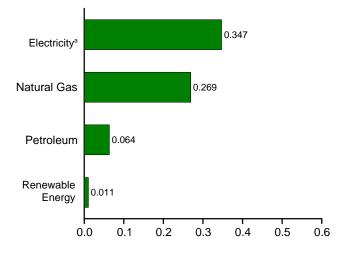
By Major Source, Monthly







By Major Source, March 2012



^a Electricity retail sales. Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.3.

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Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

	1111101112	,			Primary	Consump	tiona							
		Fossi	I Fuels			R	enewabl	e Energ	y b			El	Electrical	
	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 ^g	Total
1973 Total	160	2,649	1,607	4,416	NA	NA	NA	NA	7	7	4,423	1,517	3,604	9,543
1975 Total	147	2,558	1,346	4,051	NA	NA	NA	NA	8	8	4,059	1,598	3,835	9,492
1980 Total	115	2,651	1,318	4,084	NA	NA	NA	NA	21	21	4,105	1,906	4,567	10,578
1985 Total	137	2,488	1,083	3,708	NA	NA	NA	NA	24	24	3,732	2,351	5,368	11,451
1990 Total	124	2,682	991	3,798	1	3	_	_	94	98	3,896	2,860	6,564	13,320
1995 Total	117	3,096	769	3,982	1	5	-	_	113	118	4,101	3,252	7,338	14,690
1996 Total	122	3,226	790	4,138	1	5	-	_	129	135	4,273	3,344	7,555	15,172
1997 Total	129	3,285	743	4,157	1	6	_	_	131	138	4,295	3,503	7,883	15,681
1998 Total	93	3,083	702	3,878	1	7	_	_	118	127	4,005	3,678	8,285	15,968
1999 Total	103	3,115	707	3,925	1	7	_	_	121	129	4,053	3,766	8,557	16,376
2000 Total	92	3,252	807	4,150	1	8	_	_	119	128	4,278	3,956	8,942	17,175
2001 Total	97	3,097	790	3,984	1	8	_	_	92	101	4,084	4,062	8,990	17,137
2002 Total	90	3,212	726	4,028	(s)	9	_	_	95	104	4,132	4,110	9,104	17,345
2003 Total	82	3,261	827	4,170	` 1	11	_	_	101	113	4,283	4,090	8,969	17,343
2004 Total	103	3,201	809	4,113	1	12	_	_	105	118	4,232	4,198	9,229	17,659
2005 Total	97	3,073	761	3,932	1	14	_	_	105	120	4,051	4,351	9,455	17,857
2006 Total	65	2.902	663	3.629	1	14	_	_	103	118	3,747	4.435	9.529	17,711
2007 Total	70	3,085	649	3,805	1	14	_	_	103	118	3,922	4,560	9,773	18,255
2008 Total	69	3,228	651	3,948	1	15	(s)	_	109	125	4,073	4,558	9,749	18,381
2009 Total	63	3,187	682	3,932	1	17	(s)	(s)	112	129	4,061	4,460	9,378	17,899
2010 January	8	509	89	606	(s)	2	(s)	(s)	9	11	617	369	766	1,752
February	7	450	81	538	(s)	1	(s)	(s)	8	10	548	344	694	1,585
March	6	344	58	407	(s)	2	(s)	(s)	9	11	419	347	699	1,465
April	4	220	43	266	(s)	2	(s)	(s)	9	11	277	340	689	1,307
May	4	164	46	214	(s)	2	(s)	(s)	10	12	226	362	822	1,410
June	4	132	51	187	(s)	2	(s)	(s)	9	11	198	407	896	1,501
July	4	123	44	171	(s)	2	(s)	(s)	9	11	182	436	927	1,546
August	4	129	41	175	(s)	2	(s)	(s)	10	11	186	441	920	1,547
September	4	135	39	178	(s)	2	(s)	(s)	9	11	189	406	795	1,390
October	5	189	52	245	(s)	2	(s)	(s)	9	11	256	370	738	1,364
November	5	292	56	353	(s)	2	(s)	(s)	9	10	364	346	741	1,451
December	6	477	85	568	(s)	2	(s)	(s)	9	11	579	369	813	1,761
Total	60	3,164	685	3,908	1	19	(s)	(s)	111	130	4,039	4,539	9,501	18,078
2011 January	7	R 540	78	R 625	(s)	2	(s)	(s)	9	11	R 636	368	762	R 1,766
February	6	R 442	72	R 521	(s)	2	(s)	(s)	9	10	R 531	339	670	R 1,540
March	6	372	60	R 437	(s)	2	(s)	(s)	9	11	448	353	742	R 1,543
April	4	241	43	287	(s)	2	(s)	(s)	9	10	298	341	720	1,359
May	4	171	34	210	(s)	2	(s)	(s)	9	11	221	365	802	1,387
June	4	135	43	182	(s)	2	(s)	(s)	9	11	193	401	868	1,462
July	3	129	42	174	(s)	2	(s)	(s)	9	11	185	434	950	1,569
August	3	136	52	191	(s)	2	(s)	(s)	9	11	202	437	908	1,548
September	3	144	54	201	(s)	2	(s)	(s)	9	11	212	401	770	1,382
October	3	220	59	282	(s)	2	(s)	(s)	9	11	293	367	751	1,411
November	4	288	64	356	(s)	2	(s)	(s)	9	11	367	340	726	1,434
December	_4	406	82	493	(s)	2	(s)	(s)	10	.11	504	355	762	1,621
Total	51	R 3,224	683	R 3,958	1	20	(s)	(s)	110	131	^R 4,089	4,501	9,429	R 18,020
2012 January	5 R 4	^R 457 399	87 71	^R 549 ^R 474	(s)	2	(s)	(s)	9 9	11 10	^R 560 ^R 484	359 339	734 676	R 1,652 R 1,499
February	4				(s)		(s)	(s)						
March 3-Month Total	13	269 1,125	64 222	337 1,359	(s) (s)	2 5	(s) (s)	(s) (s)	9 27	11 32	348 1,392	347 1,045	702 2,112	1,397 4,548
2011 3-Month Total 2010 3-Month Total	19 20	1,354 1,303	210 227	1,582 1,551	(s) (s)	5 5	(s) (s)	(s) (s)	27 27	32 32	1,614 1,583	1,060 1,060	2,175 2,159	4,849 4,802

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

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

Btu.

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

Most data are estimates. See Table 10.2a for moles on school 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 hydroal

are included in "Biomass."

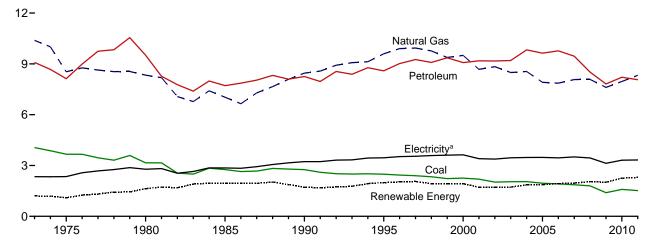
Conventional hydroelectric power.

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

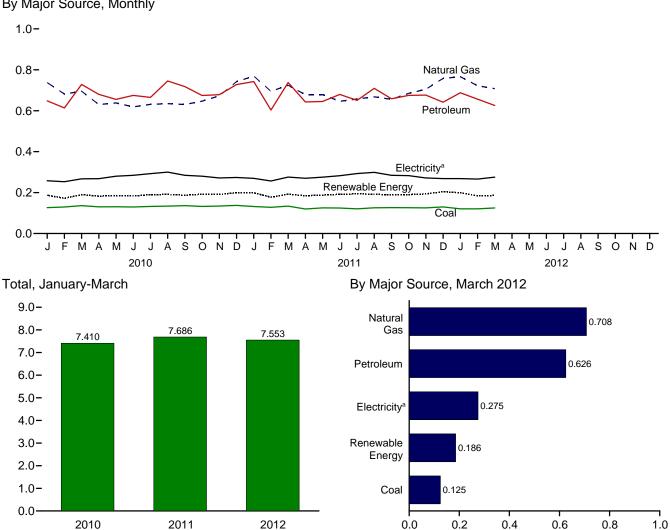
Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

By Major Source, 1973-2011



By Major Source, Monthly



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

Table 2.4 Industrial Sector Energy Consumption

(Trillion Btu)

		Fossi	l Fuels			F	Renewabl	e Energy	b				Flooristant	
	Coal	Natural Gas ^c	Petro- leum ^d	Totale	Hydro- electric Power ^f	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	Elec- tricity Retail Sales ⁹	Electrical 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	2	-	-	1,684	1,717	21,180	3,226	7,404	31,810
1995 Total	2,488	9,592	8,586	20,727	55	3	-	-	1,934	1,992	22,719	3,455	7,796	33,971
996 Total	2,434	9,901	9,019	21,377	61	3	-	-	1,969	2,033	23,410	3,527	7,968	34,904
997 Total	2,395	9,933	9,255	21,629	58	3	-	-	1,996	2,057	23,686	3,542	7,972	35,200
998 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 2,192	9,500 8,676	9,075 9,178	20,896 20,075	42 33	4 5	_	_	1,881 1,681	1,928 1,719	22,824 21,794	3,631 3,400	8,208 7,526	34,664 32,720
2001 Total 2002 Total	2,192	8.832	9,178	20,075	33 39	5 5	_	_	1,681	1,719	21,794	3,400	7,526 7,484	32,720
2002 Total	2,019	8,488	9,100	19,777	43	3	_	_	1,679	1,726	21,799	3,454	7,464	32,532
2003 Total	2,041	8.550	9,825	20.559	33	4	_	_	1,817	1,853	22,412	3,473	7,635	33,520
2005 Total	1,954	7,907	9,633	19,538	32	4	_	_	1,837	1,873	21,411	3,477	7,557	32,446
2006 Total	1,914	7.861	9,770	19,606	29	4	_	_	1.897	1,930	21,536	3,451	7,415	32,401
2007 Total	1,865	8,074	9,451	19,414	16	5	_	_	1,936	1,956	21,370	3,507	7,517	32,394
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	^R 126	737	648	R 1,508	2	(s)	(s)	_	185	187	R 1,695	258	535	R 2,487
February	R 130	681	614	R 1,429	2	(s)	(s)	-	170	172	R 1,601	253	511	R 2,365
March	R 136	695	728	R 1,562	2	(s)	(s)	-	188	190	R 1,752	267	538	R 2,557
April	R 130	630	680	R 1,441	2	(s)	(s)	-	181	183	R 1,624	268	543	R 2,435
May	R 131	638	655	R 1,427	2	(s)	(s)	-	183	185	R 1,612	280	635	R 2,527
June	R 130	619	675	R 1,424	1	(s)	(s)	-	182	183	R 1,608	284	625	R 2,517
July	R 132 R 134	631	665	R 1,429	1	(s)	(s)	-	188	190	R 1,618	292	621	R 2,532
August	R 136	635 630	745 718	R 1,515 R 1,484	1	(s)	(s)	_	190 185	191 187	R 1,707 R 1,671	300 284	626 557	R 2,633 R 2,512
September October	R 132	647	675	R 1,464	1	(s) (s)	(s) (s)	_	190	192	R 1,644	280	557 559	R 2,482
November	R 134	672	679	R 1,452	1	(S) (S)	(s) (s)	_	190	192	R 1,671	272	581	R 2,523
December	R 138	742	728	R 1,602	1	(s)	(s)	_	198	199	R 1.802	274	604	R 2.679
Total	R 1,590	7,959	8,210	R 17,753	16	4	(s)	_	2,230	2,250	R 20,003	3,313	6,934	R 30,250
2011 January	R 132	769	742	R 1,644	1	(s)	(s)	(s)	197	199	R 1,843	270	558	R 2,671
February	R 128	695	604	R 1,427	2	(s)	(s)	(s)	176	178	R 1,605	257	508	R 2,369
March	R 134	725	738	R 1,599	2	(s)	(s)	(s)	190	192	R 1,791	276	580	R 2,646
April	R 120	678	643	R 1,442	2	(s)	(s)	(s)	182	185	R 1,626	270	569	R 2,465
May	R 125	679	645	R 1,451	2	(s)	(s)	(s)	185	187	R 1,638	275	606	R 2,520
June	R 124	646	680	R 1,451	1	(s)	(s)	(s)	190	192	R 1,643	282	611	R 2,537
July	R 121	657	651	R 1,429	1	(s)	(s)	(s)	192	194	R 1,623	293	642	R 2,558
August	R 126	668	709	R 1,507	1	(s)	(s)	(s)	191	192	R 1,700	299	620	R 2,619
September	R 126	656	658	R 1,441	1	(s)	(s)	(s)	187	188	R 1,629	284	546	R 2,460
October	R 126 R 125	685 705	675 677	R 1,486 R 1,505	1 1	(s)	(s)	(s)	189 192	190 194	R 1,676	283 271	578 579	R 2,536 R 2,550
November December	R 130	705 758	677 642	R 1,505	2	(s)	(s) (s)	(s) (s)	202	204	R 1,699 R 1,736	268	579 576	R 2,581
Total	R 1,518	8,321	8,064	R 17,914	18	(s) 4	(S) (S)	(S) (S)	2,273	2, 295	R 20,209	3, 329	6,973	R 30,510
2012 January	R 121	767	688	R 1,577	2	(s)	(s)	(s)	197	199	R 1,776	268	549	R 2,594
February	R 121	R 722	656	R 1,499	2	(s)	(s)	(s)	183	185	R 1,684	266	531	R 2,481
March	125	708	626	1,461	2	(s)	(s)	(s)	184	186	1,647	275	556	2,479
3-Month Total	366	2,197	1,970	4,538	5	`1	(s)	(s)	563	570	5,107	810	1,636	7,553
2011 3-Month Total	394	2.189	2.084	4,670	5	1	(s)	(s)	563	569	5.238	802	1.645	7,686

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

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

 $[\]begin{array}{l} a \\ \text{ See "Primary Energy Consumption" in Glossary.} \\ \\ b \\ \text{ Most data are estimates.} \end{array}$ See Table 10.2b for notes on series components

whost data are estimates. See Table 10.20 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.

Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."

Pincludes coal coke net imports, which are not separately displayed. See

Tables 1.4a and 1.4b.

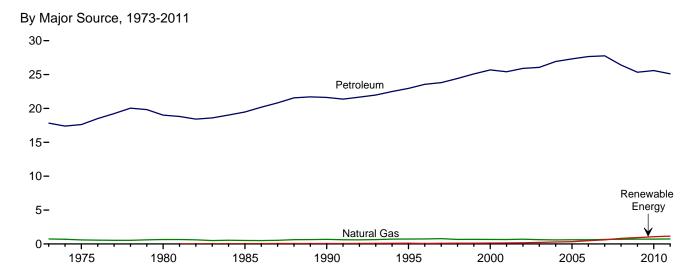
Conventional hydroelectric power.

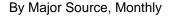
g Electricity retail sales to ultimate customers reported by electric utilities and,

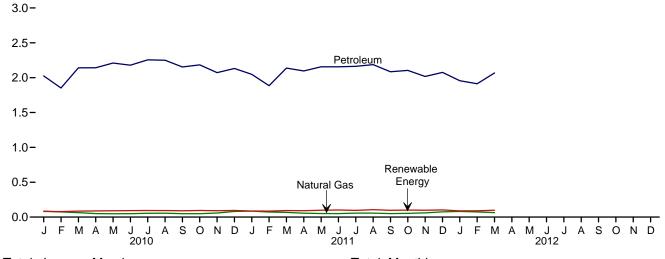
beginning in 1996, other energy service providers.

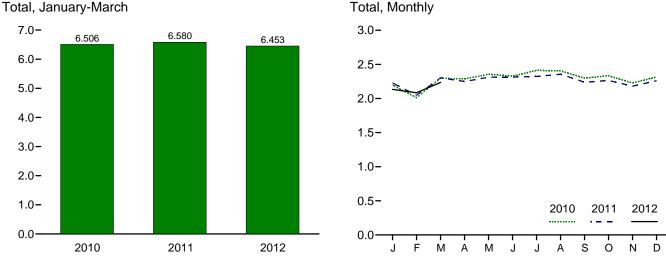
ⁿ Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are

Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)









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

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Table 2.5 Transportation Sector Energy Consumption

(Trillion Btu)

			Primary Cor	nsumptiona					
		Fossi	l Fuels		Renewable Energy ^b	Total	Electricity Retail	Electrical System Energy	
-	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Primary	Sales	Lossesf	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	(9)	724	22,955	23,679	112	23,791	17	38 38	23,846
1996 Total	(g)	737 780	23,565 23,813	24,302 24,593	81 102	24,383 24.695	17 17	38 38	24,437
1997 Total	(9)	666	24,422	24,593 25,088	113	24,695 25,201	17	36 38	24,750 25,256
1998 Total	(9)	675	24,422 25,098	25,066 25.774	118	25,201 25,891	17	30 40	25,256 25.949
2000 Total	(g)	672	25,682	26,354	135	26,489	18	40 42	26,548
2001 Total	(g)	658	25,412	26,070	142	26,213	20	43	26,275
2002 Total	(g)	699	25,913	26,612	170	26,781	19	43 42	26,842
2002 Total	(g)	627	26,063	26,690	230	26,761	23	42 51	26,994
2004 Total	\g'\	602	26,925	27,527	290	27,817	25	54	27,895
2005 Total	\g'\	624	27,309	27,933	339	28,272	26	56	28,353
2006 Total	(9)	625	27,651	28,276	475	28,751	25	54	28,830
2007 Total	(g)	663	27,763	28,427	602	29.029	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
2010 January	(g)	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	(9)	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	(9)	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	2,048	R 2,134	86	2,220	2	5	2,227
February	(g)	73	1,884	1,957	85	R 2,042	2	4	2,049
March	(g)	67	2,137	2,204	93	2,297	2	5	2,304
April	(g)	55	2,096	2,152	91	2,243	2	4	2,249
May	(g)	51	2,156	2,207	99	2,306	2	5	2,313
June	(g)	50	2,156	2,207	102	2,308	2	5	2,315
July	(g) (g)	57 57	2,163	2,220	96 106	2,316	2 2	5 4	2,323
August	(9)		2,187	2,244	106	2,350	2	4	2,356
September	(9)	50 53	2,085 2.104	2,135 2.157	97 100	2,232 2.257	2	4	2,238 2,264
October November	(9)	53 61	2,104	2,157	98	2,257 2.175	2	4	2,264 2.181
December	(9)	75	2,017	2,077	102	2,175	2	5	2,161
Total	(g)	73 5	25,110	25,845	1,154	2,253 26,999	2 6	54	27,079
2012 January	(g)	^R 81	1.956	2.038	89	R 2.126	2	5	2,133
February	(9)	74	1,912	1,986	90	2,077	2	4	2,083
March	(9)	64	2.068	2.132	98	2.230	2	4	2.236
3-Month Total	(g)	219	5,936	6,156	277	6,433	7	13	6,453
2011 3-Month Total 2010 3-Month Total	(g) (g)	226 222	6,070 6,017	6,295 6,239	265 245	6,560 6,485	7 7	14 14	6,580 6,506

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

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

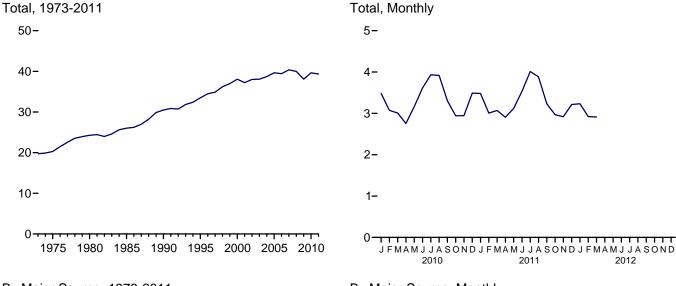
Sources: Tables 2.6, 3.8c, 4.3, 6.2, 7.6, 10.2b, A4, A5, and A6.

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.
f 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

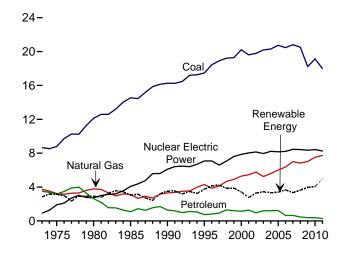
section.

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

Figure 2.6 Electric Power Sector Energy Consumption (Quadrillion Btu)

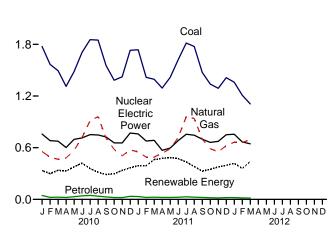


By Major Source, 1973-2011

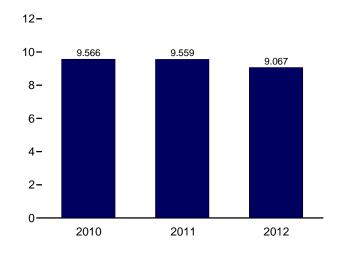


By Major Source, Monthly

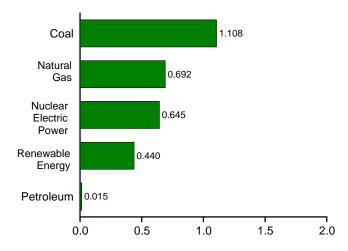
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Total, January-March



By Major Source, March 2012



Web Page: $\label{lem:http://www.eia.gov/totalenergy/data/monthly/\#consumption.} \\ \text{Source: Table 2.6.}$

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Electric Power Sector Energy Consumption Table 2.6

(Trillion Btu)

						Prima	ry Consum	ptiona					
		Fossil	Fuels					Renewabl	e Energy ^b			Floo	
	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	8,658	3,748	3,515	15,921	910	2,827	20	NA	NA	3	2,851	49	19,731
1975 Total	8,786	3,240	3,166	15,191	1,900	3,122	34	NA	NA	2	3,158	21	20,270
1980 Total		3,778	2,634	18,534	2,739	2,867	53	NA .	NA .	4	2,925	71	24,269
1985 Total		3,135	1,090	18,767	4,076 6,104	2,937	97 161	(s) 4	<u>(s)</u> 29	<u>14</u> 317	3,049	140 8	26,032 30,495
1990 Total ^e 1995 Total	16,261 17,466	3,309 4,302	1,289 755	20,859 22,523	7,075	3,014 3,149	138	5	33	422	3,524 3,747	134	33,479
1996 Total	18,429	3,862	817	23,109	7,087	3,528	148	5	33	438	4,153	137	34,485
1997 Total	18,905	4,126	927	23,957	6,597	3,581	150	5	34	446	4,216	116	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	4,902	1,211	25,393	7,610	3,218	152	5	46	453	3,874	99	36,976
2000 Total	20,220	5,293	1,144	26,658	7,862	2,768	144	5	57	453	3,427	115	38,062
2001 Total	19,614	5,458	1,277	26,348	8,029	2,209	142	6	70	337	2,763	75 70	37,215
2002 Total 2003 Total	19,783 20,185	5,767 5,246	961 1,205	26,511 26,636	8,145 7,959	2,650 2,781	147 148	6 5	105 115	380 397	3,288 3,445	72 22	38,016 38,062
2004 Total	20,105	5,595	1,212	27,112	8.222	2,761	148	6	142	388	3,340	39	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	20,808	7,005	657	28,470	8,455	2,430	145	6	341	423	3,345	107	40,377
2008 Total	20,513	6,829	468	27,810	8,427	2,494	146	9	546	435	3,630	112	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	489	23	2,080	682	199	11	(s)	53	36	300	12	3,073
March	1,494	466	25	1,984	676	202	13	` 1	84	39	338	10	3,008
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	1,708	719	41	2,468	714	290 238	12 12	2	79 66	39 40	421 358	9	3,611
July August	1,855 1,849	914 961	46 37	2,815 2,847	752 748	236 195	13	2	65	40	315	10 6	3,934 3,917
September	1,554	709	28	2.291	725	168	12	1	69	38	288	2	3.306
October	1,383	581	22	1,986	656	171	12	i	77	37	298	1	2,942
November	1,423	506	21	1,950	655	190	12	1	95	39	337	3	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	552	33	2.323	760	254	14	(s)	84	38	391	9	3.483
February	1,417	491	23	1,931	677	239	13	1	103	35	390	8	3,006
March	1,395	491	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	1,416	589	22	2,027	596	321	14	2	113	35	486	12	3,121
June	1,621	718 959	25 31	2,364	682 756	313 307	13	2	106 72	38 40	473 434	11	3,530
July August	1,816 1,776	959 940	25	2,805 2,741	756 746	307 256	13 13	2	72 72	40 39	434 383	16 16	4,012 3,885
September	1,475	699	22	2,196	699	209	13	2	67	37	327	10	3,232
October	1,339	589	19	1,946	662	194	14	2	104	36	349	10	2,967
November	1,289	553	17	1,860	674	207	13	1	120	36	377	8	2,919
December	1,413	624	20	2,057	751	239	14	1	102	39	396	12	3,215
Total	17,986	7,740	288	26,014	8,259	3,153	163	18	1,168	444	4,945	127	39,346
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
3-Month Total	3,678	2,017	54	5,749	2,069	688	41	4	375	111	1,218	31	9,067
2011 3-Month Total 2010 3-Month Total	4,549 4,836	1,535 1,511	82 93	6,166 6,441	2,124 2,116	801 618	42 37	2 1	290 204	110 114	1,245 973	25 36	9,559 9,566

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

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, 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.

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 beginning in 1973.

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

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

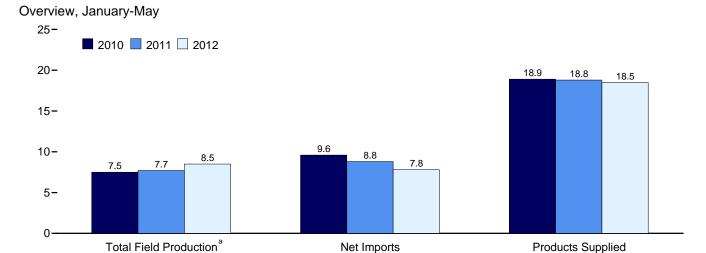
those differences, see Energy Consumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys, DOE/EIA-0533, U.S. Energy Information Administration, Washington, DC, April 6, 1990.

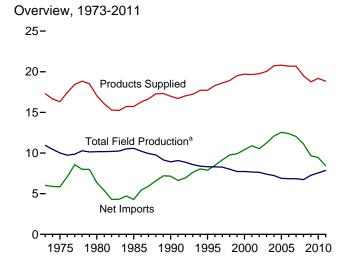
Note 2. Electrical System Energy Losses. Electrical system energy losses are calculated as the difference between total primary consumption by the electric power sector (see Table 2.6) and the total energy content of electricity retail sales (see Tables 7.6 and A6). Most of these losses occur at steam-electric 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.

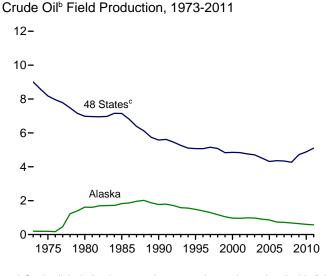
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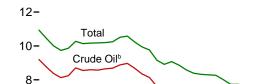
Figure 3.1 Petroleum Overview (Million Barrels per Day)



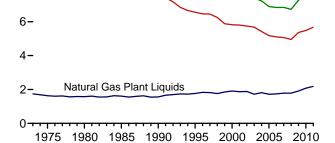


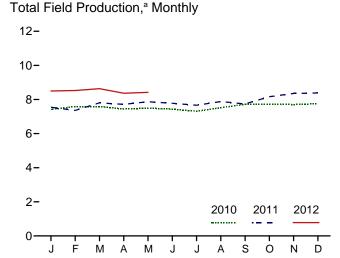


^a Crude oil, including lease condensate, and natural gas plant liquids field production.



Total Field Production, 1973-2011





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

^b Includes lease condensate.

Table 3.1 **Petroleum Overview**

		Fie	eld Produc	tiona					Trade				
	48 States ^d	Crude Oil ^b Alaska	Total	NGPL ^{e,f}	Total ^c	Renew- able Fuels and Oxy- genates ⁹	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 1980 Average 1980 Average 1990 Average 1996 Average 1997 Average 1998 Average 1999 Average 2001 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2005 Average 2006 Average 2007 Average 2007 Average 2007 Average 2008 Average 2008 Average 2008 Average 2008 Average 2008 Average 2008 Average	9,010 8,183 6,980 7,146 5,582 5,071 5,156 5,077 4,832 4,761 4,314 4,314 4,342 4,342 4,715	198 191 1,617 1,825 1,773 1,484 1,393 1,296 1,175 1,050 970 963 984 974 974 986 864 741 722 683 645	9,208 8,375 8,597 7,355 6,565 6,465 6,452 5,821 5,821 5,821 5,419 5,102 5,064 4,950 5,361	1,738 1,633 1,573 1,609 1,559 1,759 1,830 1,817 1,759 1,850 1,919 1,809 1,717 1,739 1,783 1,783 1,783	10,946 10,007 10,170 10,581 8,914 8,322 8,295 8,269 7,670 7,626 7,400 7,228 6,895 6,841 6,847 6,847 6,270	NA NA NA NA NA NA NA NA NA NA NA NA NA N	453 460 597 557 683 774 850 886 886 948 903 957 974 1,051 989 994 994 996 993	6,256 6,056 6,909 5,067 8,018 8,835 9,478 10,162 11,459 11,871 11,530 12,264 13,145 13,714 13,707 13,468 12,915 11,691	231 209 544 781 857 949 981 1,045 940 1,040 1,048 1,165 1,317 1,433 1,802 2,024	6,025 5,846 6,365 4,286 7,161 7,886 8,498 9,764 9,912 10,419 10,900 10,548 12,097 12,549 12,390 12,036 11,114 9,667	135 32 140 -103 107 -246 -151 143 239 -422 -69 325 -105 209 145 60 -148 195 109	18 41 64 200 338 496 528 487 495 567 532 501 527 478 563 522 653 852 218	17,308 16,322 17,056 15,726 16,988 17,725 18,309 18,620 18,917 19,519 19,701 19,649 19,761 20,034 20,731 20,802 20,687 20,688 19,498 18,771
2010 January February March April May June July August September October November December Average	R 4,908 R 4,866 R 4,740 R 4,832 R 4,853 R 4,773 R 4,910 R 4,999 R 4,986 R 4,962 R 4,998	640 635 646 640 571 534 545 538 614 618 606 632 601	R 5,397 R 5,543 R 5,512 R 5,379 R 5,404 R 5,318 R 5,448 R 5,613 R 5,605 R 5,630 R 5,483	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 7,414 R 7,586 R 7,588 R 7,440 R 7,494 R 7,433 R 7,312 R 7,519 R 7,717 R 7,730 R 7,704 R 7,754	846 874 895 878 893 905 906 911 915 924 967	961 1,060 1,064 1,028 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 49	R 336 R 87 R 157 R 366 R 329 R 347 R 274 R 376 R 244 R 194 R 90 R 264 R 257	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 February March April May June July August September October November December Average	RE 4,825 RE 5,003 RE 4,953 RE 5,045 RE 5,044 RE 5,007 RE 5,136 RE 5,007 RE 5,308 RE 5,419 RE 5,417	E 479 E 611 E 631 E 606 E 601 E 553 E 468 E 544 E 585 E 585 E 593 E 611 E 572	RE 5,526 RE 5,635 RE 5,635 RE 5,647 RE 5,598 RE 5,468 RE 5,680 RE 5,592 RE 5,892 RE 6,012 RE 6,028 RE 5,675	2,022 1,920 2,168 2,157 2,222 2,176 2,193 2,201 2,145 2,274 2,342 2,351 2,183	RE 7,548 RE 7,356 RE 7,802 RE 7,716 RE 7,869 RE 7,774 RE 7,662 RE 7,737 RE 8,167 RE 8,354 RE 8,379 RE 7,857	957 941 956 941 934 945 936 958 937 944 992 1,003	1,067 980 1,027 1,001 1,083 1,101 1,125 1,132 1,132 1,136 1,117 1,135 1,085	11,954 10,503 11,593 11,592 11,669 11,794 11,667 11,145 11,209 10,994 11,166 10,957 11,360	2,687 2,575 2,660 2,903 2,642 2,607 2,919 3,071 3,158 3,104 3,182 3,549 2,924	9,266 7,929 8,933 8,689 9,028 9,187 8,748 8,074 8,051 7,985 7,407 8,436	318 -1,069 -126 218 926 96 399 -623 -659 -359 -654 -115	R 601 R 594 R 403 R 484 R 375 R 367 R 485 R 486 R 280 R 97 R 352 R 160 R 389	19,121 18,869 19,248 18,613 18,363 19,277 18,555 19,153 18,795 18,563 18,734 18,738 18,738
2012 January February March April May 5-Month Average	RE 5,557 RE 5,693 E 5,535 E 5,664	E 612 E 582 RE 567 E 554 E 543 E 572	RE 6,124 RE 6,139 RE 6,260 E 6,089 E 6,207 E 6,165	2,376 2,388 R 2,375 E 2,276 E 2,211 E 2,325	RE 8,500 RE 8,528 RE 8,635 E 8,365 E 8,418 E 8,489	966 949 R 924 E 953 E 977 E 954	1,053 1,068 R 1,023 E 1,062 E 1,107 E 1,062	10,944 10,464 R 10,610 E 10,524 E 10,849 E 10,682	2,839 2,980 R 3,064 E 2,727 E 2,875 E 2,897	8,104 7,484 R 7,547 E 7,797 E 7,974 E 7,785	635 -234 R 407 E -76 E 544 E 264	R 280 R 472 R 452 E 501 E 634 E 467	18,268 18,734 R 18,174 E 18,753 E 18,565 E 18,494
2011 5-Month Average 2010 5-Month Average		^E 585 626	^E 5,563 5,445	2,101 2,058	E 7,664 7,503	946 877	1,033 1,036	11,480 11,769	2,694 2,184	8,786 9,586	74 358	489 258	18,844 18,902

^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.]

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

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

I An adjustment for crude oil, hydrogen, oxygenates, renewable fuels, other hydrocarbons, motor gasoline blending components, finished motor gasoline, and distillate fuel oil. See EIA, Petroleum Supply Monthly, Appendix B, "PSM Explanatory Notes," for further information.

R=Revised. E=Estimate. 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 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/opetroleum/.

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. • 2010: EIA, Petroleum Supply Annual (PSA), annual reports.

• 2010: EIA, PSA, annual report, and revisions to crude oil production, total field production, and adjustments at EIA's Petroleum Navigator—see http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm. • 2011 and 2012: EIA, Petroleum Supply Monthly, monthly reports; revisions to crude oil production, total field production, and adjustments at EIA's Petroleum Navigator—see http://www.eia.gov/dnav/pet/pet_sum_crdsnd_k_m.htm; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations.

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 das plant liquids.

<sup>Onlited States excluding Alaska and Hawaii.

Natural gas plant liquids.

See Note 6, "Petroleum Data Discrepancies," at end of section.

Renewable fuels and oxygenate plant net production.

Refinery and blender net production minus refinery and blender net inputs.

See Table 3.2.

Includes Strategic Petroleum Reserve imports. See Table 3.3b.</sup>

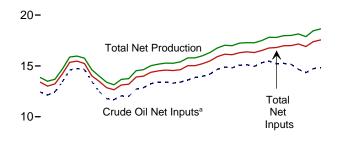
Includes strategic Petroleum Reserve imports. See Table 3.30.

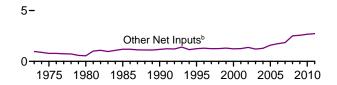
J Net imports equal imports minus exports.

k A negative value indicates a decrease in stocks and a positive value indicates an increase. The current month stock change estimate is based on the change from the previous month's estimate, rather than the stocks values shown in Table 3.4. Includes crude oil stocks in the Strategic Petroleum Reserve, but excludes distillate fuel oil stocks in the Northeast Heating Oil Reserve. See Table 3.4. Also

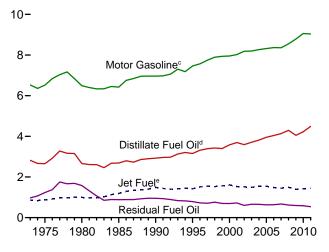
Figure 3.2 Refinery and Blender Net Inputs and Net Production (Million Barrels per Day)

Net Inputs and Net Production, 1973-2011



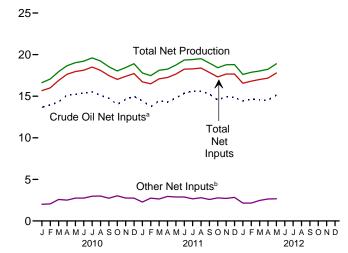


Net Production, Selected Products, 1973-2011

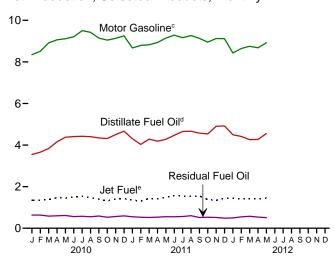


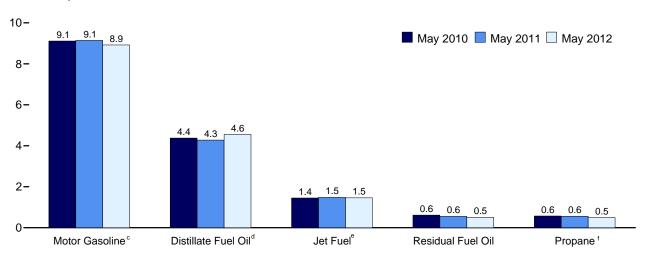
Net Production, Selected Products





Net Production, Selected Products, Monthly





^a Includes lease condensate.

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

-	Refine	ery and Ble	nder Net II	nputs ^a			Refinery	and Blen	der Net Pro	ductionb		
							LPC	3°				
	Crude Oil ^d	NGPLe	Other Liquids ^f	Total	Distillate Fuel Oil	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 13,973	467 471	713 775	14,589 15,220	2,925 3,155	1,488 1.416	404 503	499 654	6,959 7,459	950 788	2,452 2.522	15,272 15,994
1995 Average 1996 Average	14,195	450	843	15,220	3,316	1,515	520	662	7,459	726	2,522	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	584 540	645	8,265	655	2,887	17,814
2005 Average	15,220 15,242	441 501	1,149 1,238	16,811 16,981	3,954 4,040	1,546 1,481	540 543	573 627	8,318 8,364	628 635	2,782 2,827	17,800 17,975
2006 Average 2007 Average	15,156	505	1,337	16,999	4,133	1,448	562	655	8,358	673	2,728	17,975
2008 Average	14,648	485	2.019	17,153	4.294	1,443	519	630	8.548	620	2,720	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	399 397	2,348 2,349	17,963	4,375	1,449 1,495	571 572	857 870	9,113	615 559	2,622 2,670	19,031 19,212
June	15,382 15,519	397 384	2,549	18,127 18,498	4,408 4,425	1,542	572 574	860	9,211 9,500	576	2,670	19,607
July 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	563	2,185	17,724	4,670	1,417	572	430	9,252	595	2,547	18,911
Average	14,724	442	2,219	17,385	4,223	1,418	560	659	9,059	585	2,509	18,452
2011 January	14,446	543	1,732	16,721	4,305	1,362	560	439	8,671	552	2,459	17,788
February	13,745	517 454	2,229 2,183	16,491	4,032 4,284	1,298 1,435	513 525	490 632	8,793 8.824	529 519	2,329 2.424	17,471 18.117
March April	14,453 14,302	454 452	2,103	17,090 17,248	4,204	1,433	540	773	8,931	535	2,424	18,249
May	14,776	427	2,457	17,240	4,277	1,483	561	805	9,142	557	2,402	18,742
June	15,365	443	2,440	18,248	4,469	1,568	566	840	9,286	553	2,632	19,349
July	15,617	417	2,247	18,281	4,655	1,550	557	814	9,165	562	2,659	19,405
August	15,592	437	2,353	18,382	4,667	1,543	550	784	9,265	604	2,652	19,514
September	15,269	494	2,092	17,855	4,574	1,553	569	608	9,132	516	2,604	18,987
October	14,543	524	2,252	17,318	4,534	1,375	541	494	8,953	529	2,540	18,425
November	14,958	597	2,110	17,665	4,903	1,341	564	384	9,125	516	2,512	18,781
December	14,841	566	2,263	17,670	4,919	1,449	566	372	9,118	482	2,464	18,805
Average	14,833	489	2,237	17,559	4,487	1,449	551	620	9,035	538	2,514	18,643
2012 January	14,415	513	1,633	16,561	4,498	1,437	518	414	8,427	495	2,343	17,613
February	14,659	531	1,618	16,809	4,416	1,401	532	492	8,645	547	2,375	17,876
March		R 445	R 2,022	R 17,012	R 4,262	R 1,412	R 545	R 685	R 8,753	^R 577	R 2,347	R 18,035
April	E 14,540	F 429	RE 2,209	RF 17,178	E 4,270	E 1,411	RE 550	F 766	E 8,678	E 536	RE 2,580	RE 18,240
May 5-Month Average	E 15,126 E 14,658	^F 430 E 469	E 2,235 E 1,946	F 17,791 E 17,073	E 4,555 E 4,401	E 1,458	E 499 E 529	F 803 E 633	E 8,921 E 8,685	E 510 E 533	E 2,650 E 2,459	E 18,898 E 18,135
2011 5-Month Average	14,357	478 419	2,217	17,052	4,221	1,402	540 565	630	8,873 8 703	539 611	2,420	18,084
2010 5-Month Average	14,461	419	1,966	16,845	3,919	1,396	565	692	8,793	611	2,470	17,881

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

Liquefied petroleum gases.

Includes lease condensate.

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

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).

⁹ 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

¹ Inrough 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 Products."

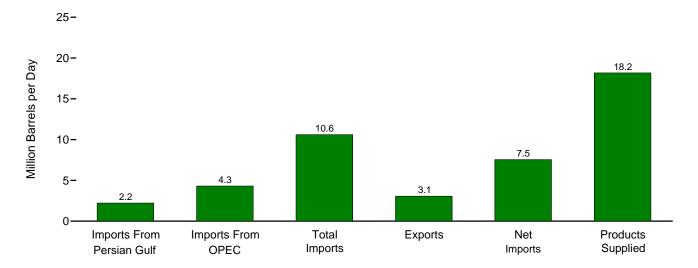
i Includes propylene. j Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline

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: • 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/lotalenergy/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. • 1981-2010: EIA, Petroleum Supply Annual, annual reports. • 2011 and 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. Forecasting System, and Monthly Energy Review data system calculations

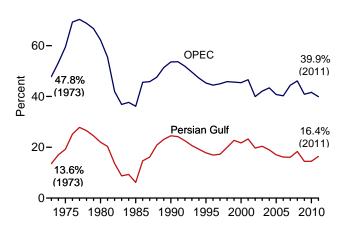
Figure 3.3a Petroleum Trade: Overview

Overview, March 2012

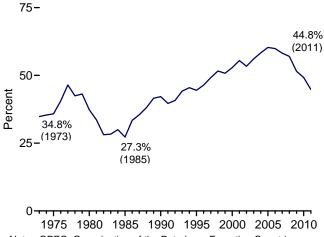


Imports From OPEC and Persian Gulf as Share of Total Imports, 1973-2011

80-

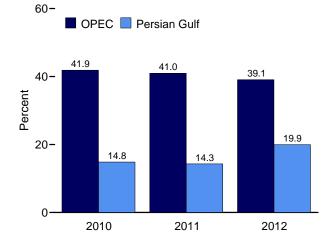


Net Imports as Share of Products Supplied, 1973-2011



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-March



Net Imports as Share of Products Supplied, January-May

75-

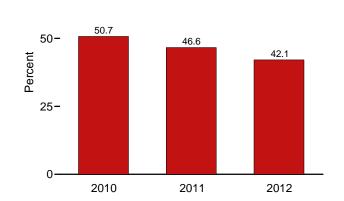


Table 3.3a Petroleum Trade: Overview

									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	Import From OPEC
			Thousand Ba	arrels per Day	/				Per	rcent		
3 Average	848	2,993	6,256	231	6,025	17,308	4.9	17.3	36.1	34.8	13.6	47.8
5 Average	1,165	3,601	6,056	209	5,846	16,322	7.1	22.1	37.1	35.8	19.2	59.5
0 Average	1,519	4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	22.0	62.2
5 Average	311	1,830	5,067	781	4,286	15,726	2.0	11.6	32.2	27.3	6.1	36.1
0 Average	1,966	4,296	8,018	857	7,161	16,988	11.6	25.3	47.2	42.2	24.5	53.6
5 Average	1,573	4,002	8,835	949	7.886	17,725	8.9	22.6	49.8	44.5	17.8	45.3
6 Average	1,604	4,211	9,478	981	8,498	18,309	8.8	23.0	51.8	46.4	16.9	44.4
7 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
8 Average	2,136	4,905	10,708	945	9,764	18,917	11.3	25.9	56.6	51.6	19.9	45.8
9 Average	2,464	4.953	10,852	940	9.912	19,519	12.6	25.4	55.6	50.8	22.7	45.6
0 Average	2,488	5,203	11,459	1,040	10,419	19,701	12.6	26.4	58.2	52.9	21.7	45.4
1 Average	2,761	5,528	11,871	971	10,900	19,649	14.1	28.1	60.4	55.5	23.3	46.6
2 Average	2,269	4.605	11,530	984	10,546	19,761	11.5	23.3	58.3	53.4	19.7	39.9
3 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
4 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
	2,334	5,587	13,714	1,165	12,549	20,802	11.2	26.9	65.9	60.3	17.0	40.7
5 Average	2,334	5,517	13,707	1,317	12,349	20,687	10.7	26.7	66.3	59.9	16.1	40.2
6 Average		5,980						28.9		58.2		
7 Average	2,163 2.370	5,960	13,468 12,915	1,433 1.802	12,036 11,114	20,680 19.498	10.5 12.2	30.5	65.1 66.2	57.0	16.1 18.4	44.4 46.1
8 Average 9 Average	1,689	4,776	11,691	2,024	9,667	18,771	9.0	25.4	62.3	51.5	14.4	40.1
0 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
February	1,666	4,659	11,230	2,034	9,197	18,850	8.8	24.7	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	1,663	5,117	12,356	2,410	9,946	19,662	8.5	26.0	62.8	50.6	13.5	41.4
September	1,698	5,111	11,823	2,345	9,478	19,438	8.7	26.3	60.8	48.8	14.4	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	1,490	4,525	11,142	2,598	8,498	18,977	8.8	23.8	58.5	44.8	15.4	40.8
	1,564	4,614	11,132	2,596	8,488	19,722	7.9	23.4	56.4	43.0	14.0	41.4
December 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
1 January	1,719	4,872	11,954	2,687	9,266	19,121	9.0	25.5	62.5	48.5	14.4	40.8
February	1,495	4,504	10,503	2,575	7,929	18,869	7.9	23.9	55.7	42.0	14.2	42.9
March	1,651	4,588	11,593	2,660	8,933	19,248	8.6	23.8	60.2	46.4	14.2	39.6
April	1,704	4,509	11,592	2,903	8,689	18,613	9.2	24.2	62.3	46.7	14.7	38.9
May	1,829	4,572	11,669	2,642	9,028	18,363	10.0	24.9	63.5	49.2	15.7	39.2
June	2.033	4,883	11,794	2,607	9,187	19,277	10.5	25.3	61.2	47.7	17.2	41.4
July	2,167	4,928	11,667	2,919	8,748	18,555	11.7	26.6	62.9	47.1	18.6	42.2
August	1.910	4,648	11,145	3.071	8,074	19,153	10.0	24.3	58.2	42.2	17.1	41.7
September	2,039	4,326	11,209	3,158	8,051	18,795	10.8	23.0	59.6	42.8	18.2	38.6
October	1,904	4,267	10,994	3,104	7,890	18,563	10.3	23.0	59.2	42.5	17.3	38.8
November	1,944	4,219	11,166	3,182	7,985	18,734	10.4	22.5	59.6	42.6	17.4	37.8
December	1.921	4.085	10.957	3.549	7.407	18,738	10.3	21.8	58.5	39.5	17.5	37.3
Average	1,862	4,534	11,360	2,924	8,436	18,835	9.9	24.1	60.3	44.8	16.4	39.9
2 January	2,208	4,203	10,944	2,839	8,104	18,268	12.1	23.0	59.9	44.4	20.2	38.4
February	1,948	3,986	10,464	2,980	7,484	18,734	10.4	21.3	55.9	39.9	18.6	38.1
March	R 2,222	R 4,314	R 10,610	R 3,064	R 7,547	R 18,174	R 12.2	R 23.7	^R 58.4	^R 41.5	R 20.9	R 40.7
April	NA	NA	E 10,524	E 2,727	E 7,797	E 18,753	NA	NA	E 56.1	E 41.6	NA	NA
May	NA	NA	E 10,849	E 2,875	E 7,974	E 18,565	NA	NA	E 58.4	E 43.0	NA	NA
5-Month Average	NA	NA	E 10,682	E 2,897	^E 7,785	E 18,494	NA	NA	^E 57.8	E 42.1	NA	NA
1 5-Month Average 0 5-Month Average	1,683 1,764	4,612 4,948	11,480 11,769	2,694 2,184	8,786 9,586	18,844 18,902	8.9 9.3	24.5 26.2	60.9 62.3	46.6 50.7	14.7 15.0	40.2 42.0

 ^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.

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

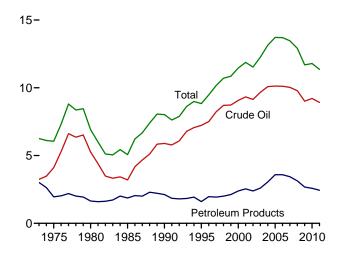
District of Columbia. U.S. exports include shipments to U.S. territories, and imports include receipts from U.S. territories.

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. • 1981-2010: EIA, Petroleum Supply Annual, annual reports. • 2011 and 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. Review data system calculations.

D 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 Review. 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)

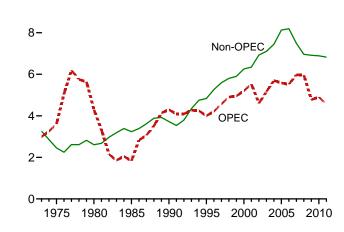
Overview, 1973-2011



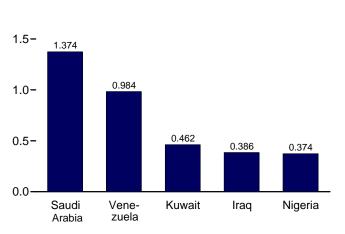
OPEC and Non-OPEC, 1973-2011

10-

2.0-

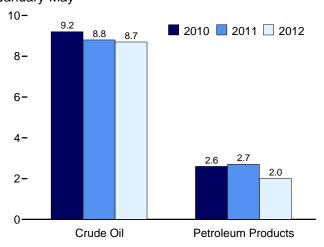


From Selected OPEC Countries, March 2012

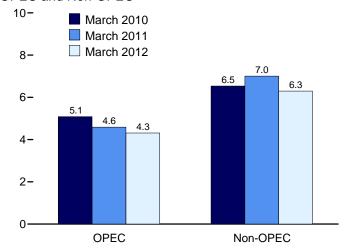


Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.3b–3.3d.

Crude Oil and Petroleum Products, January-May



OPEC and Non-OPEC



From Selected Non-OPEC Countries, March 2012

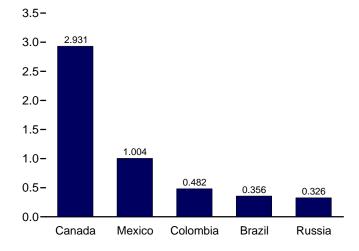


Table 3.3b Petroleum Trade: Imports and Exports by Type

			•	• •								F	_
			T			ports						Exports	5
	SPR ^{c,d}	de Oila Total	Distillate Fuel Oil	Jet Fuel ^e	LPG Propane ^f	Total	Motor Gasoline ⁹	Residual Fuel Oil	Other ^h	Total	Crude Oila	Petroleum Products	Total
	OI IX				Тторанс								
1973 Average 1975 Average		3,244 4,105	392 155	212 133	71 60	132 112	134 184	1,853 1,223	290 144	6,256 6,056	2 6	229 204	231 209
1980 Average	44	5,263	142	80	69	216	140	939	130	6,909	287	258	544
1985 Average	118	3,201	200	39	67	187	381	510	550	5,067	204	577	781
1990 Average	27	5,894	278	108	115	188	342	504	705	8,018	109	748	857
1995 Average 1996 Average	_	7,230 7,508	193 230	106 111	102 119	146 166	265 336	187 248	708 879	8,835 9,478	95 110	855 871	949 981
1997 Average	_	8,225	228	91	113	169	309	194	945	10,162	108	896	1.003
1998 Average	-	8,706	210	124	137	194	311	275	888	10,708	110	835	945
1999 Average	8	8,731	250	128	122	182	382	237	943	10,852	118	822	940
2000 Average 2001 Average	8 11	9,071 9,328	295 344	162 148	161 145	215 206	427 454	352 295	938 1,095	11,459 11,871	50 20	990 951	1,040 971
2002 Average	16	9.140	267	107	145	183	498	249	1,085	11,530	9	975	984
2003 Average	_ `	9,665	333	109	168	225	518	327	1,087	12,264	12	1,014	1,027
2004 Average	77	10,088	325	127	209	263	496	426	1,419	13,145	27	1,021	1,048
2005 Average	52 8	10,126 10,118	329 365	190 186	233 228	328 332	603 475	530 350	1,609 1,881	13,714 13,707	32 25	1,133 1,292	1,165 1,317
2006 Average 2007 Average	7	10,031	304	217	182	247	413	372	1,885	13,468	27	1,405	1,433
2008 Average	19	9,783	213	103	185	253	302	349	1,913	12,915	29	1,773	1,802
2009 Average	56	9,013	225	81	147	182	223	331	1,635	11,691	44	1,980	2,024
2010 January	-	8,492	462 293	131	192 217	225 242	179 196	376	1,435	11,300	33	1,864	1,897
February March	_	8,761 9,341	293 179	75 79	137	155	120	382 376	1,282 1,370	11,230 11,621	58 45	1,976 2,104	2,034 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 August	_	9,932 9,543	170 246	113 103	56 62	104 107	114 129	400 330	1,841 1,899	12,675 12,356	69 36	2,447 2,374	2,516 2,410
September	_	9,229	189	122	85	124	130	367	1,662	11,823	61	2,283	2,345
October	_	8,540	163	94	131	165	86	337	1,758	11,142	23	2,457	2,480
November	-	8,699	178	101	132	165	117	345	1,491	11,096	32	2,567	2,598
December	_	8,695 9,213	219 228	73 98	214 121	231 153	99 134	315 366	1,501 1,600	11,132 11,793	40 42	2,604	2,644
Average		,							,	,		2,311	2,353
2011 January	_	9,069	326	65	172	204	103	456	1,733	11,954	72 30	2,616	2,687
February March	_	8,013 9.033	206 190	68 65	172 136	199 165	119 135	428 468	1,471 1.538	10,503 11,593	36	2,544 2.623	2,575 2.660
April	_	8,715	186	80	94	113	138	519	1,842	11,592	41	2,862	2,903
May	-	8,988	167	91	73	100	137	299	1,887	11,669	37	2,605	2,642
June	-	9,247	126	82	58	85	130	371	1,753	11,794	36	2,571	2,607
July August	_	9,310 9,021	153 148	95 66	61 72	84 100	92 106	246 229	1,686 1,474	11,667 11,145	73 34	2,846 3,037	2,919 3,071
September	_	9,006	177	58	107	130	99	276	1,463	11,209	35	3,123	3,158
October	_	9,029	127	61	93	116	66	282	1,314	10,994	51	3,054	3,104
November	_	8,826	133	72	107	127	74	340	1,594	11,166	64	3,118	3,182
December Average	_	8,716 8,921	174 176	21 69	149 108	174 133	60 105	333 353	1,478 1,603	10,957 11,360	53 47	3,496 2,877	3,549 2,924
2012 January	_	8,572	156	6	145	168	99	305	1,637	10,944	56	2,783	2,839
February	-	8,558	142	41	125	155	46	226	1,296	10,464	59	2,921	2,980
March	-	R 8,767	R 136	R 5	R 108	R 136	R 91	R 271	R 1,205	R 10,610	R 60	R 3,004	R 3,064
April	_	E 8,754 E 8,879	E 91 E 89	E 30 E 43	E 70 E 95	NA NA	E 59 E 69	E 200 E 214	NA NA	E 10,524 E 10,849	E 39	E 2,689 E 2,836	E 2,727 E 2.875
May 5-Month Average	_	E 8,708	E 123	E 25	E 109	NA NA	E 73	E 244	NA NA	E 10,682	E 51	E 2,836	E 2,875
2011 5-Month Average	-	8,779	215	74	129	155	126	433	1,697	11,480	44	2,651	2,694
2010 5-Month Average	-	9,200	268	91	140	165	155	404	1,486	11,769	41	2,142	2,184

Includes lease condensate.

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

reported.

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.

1981-2010:

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.

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.
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."
Includes propylene.
Finished motor gasoline. Through 1980, also includes motor gasoline blending components.

blending components.

blending components.

A sphalt 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	Ecuador ^b	Iraq	Kuwait ^c	Libya	Nigeria	Saudi Arabia ^c	Vene- zuela	Otherd	Total OPEC
								I			
1973 Average	136	(a)	48	4	47	164	459	486	1,135	514	2,993
1975 Average	282	(a)	57	2	16	232	762	715	702	832	3,601
1980 Average	488	(a)	27	28	27	554	857	1,261	481	577	4,300
1985 Average	187	(a)	67	46	21	4	293	168	605	439	1,830
1990 Average	280	(a)	49	518	86	0	800	1,339	1,025	199	4,296
1995 Average	234	(a)	(b)	0	218	0	627	1,344	1,480	98	4,002
1996 Average	256	(a)	(b)	1	236	0	617	1,363	1,676	62	4,211
1997 Average	285	(a)	(b)	89	253	0	698	1,407	1,773	64	4,569
1998 Average	290	(aí	(b)	336	301	0	696	1,491	1,719	73	4,905
1999 Average	259	(a)	(b)	725	248	0	657	1,478	1,493	93	4,953
2000 Average	225	(a)	(b)	620	272	Ö	896	1,572	1,546	72	5,203
2001 Average	278	ìaí	ÌÞί	795	250	Ō	885	1,662	1.553	105	5,528
2002 Average	264	}a∫	}b∫	459	228	Ŏ	621	1,552	1,398	83	4,605
2003 Average	382	(a)	}b Ś	481	220	ŏ	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	`508	\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
_	400	000	045	500		40	4.040	,			4.554
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
November	572	276	194	340	170	23	856	1,152	942	-	4,525
December	484	319	192	336	125	66	1,070	1,093	917	9	4,614
Average	510	393	212	415	197	70	1,023	1,096	988	3	4,906
2011 January	565	316	178	470	147	57	1,007	1,102	1,030	_	4,872
February	394	370	242	263	118	35	978	1,114	989	_	4,504
March	500	280	146	382	161	31	913	1,108	1,067	_	4,588
April	466	277	142	519	78	(s)	922	1,107	997	_	4,509
May	400	356	134	407	200	(s)	854	1,203	999	19	4,572
June	293	373	219	559	238	35	853	1,169	1,077	68	4,883
July	354	407	172	596	228	_	884	1,326	943	18	4,928
August	298	331	309	637	165	1	892	1,075	906	32	4,648
September	291	304	305	404	145	2	580	1,479	806	11	4,326
October	173	424	178	490	278	2	690	1,120	894	17	4,267
November	260	355	181	395	302	10	703	1,222	764	26	4.219
December	297	357	106	380	231	9	534	1,310	860	_	4,085
Average	358	346	192	460	191	15	817	1,195	944	16	4,534
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
3-Month Average	284	259	171	351	358	31	412	1,405	887	14	4,172
2011 3-Month Average	489	320	187	375	143	41	966	1,108	1,030	_	4,660
2010 3-Month Average	489 484	320 381	184	375 512	173	41 54	966 982	1,108	993	_	4,660

^a Angola joined OPEC in January 2007. For 1973-2006, Angola is included in

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 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

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. • 1981-2010: EIA, Petroleum Supply Annual, annual reports. • 2011 and 2012: EIA, Petroleum Supply Monthly, monthly reports.

[&]quot;Total Non-OPEC" on Table 3.3d.

b 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

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.

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

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

	Brazil	Canada	Colombia	Mexico	Nether- lands	Norway	Russiaa	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	295 272	2,736	231 365	1,365	71 108	26 89	514 612	236 256	191 253	855	6,518
Average		2,535		1,284			012			1,112	6,887
2011 January	274 177	2,826 2,831	332 211	1,366 1,104	101 129	85 69	531 437	155 110	276 182	1,136 749	7,082 5,999
February March	161	2,666	399	1,319	91	156	690	197	149	1,177	7,005
April	227	2,625	516	1,077	133	167	704	187	179	1,177	7,003
May	282	2,481	433	1,286	128	107	677	233	194	1,283	7,003
June	285	2.524	309	1,222	175	93	689	146	151	1.319	6,911
July	329	2,626	415	1,197	80	58	562	175	192	1,105	6,739
August	228	2,637	395	1,185	81	87	585	125	185	988	6,497
September	188	2,829	529	1,192	64	97	592	124	189	1,079	6,883
October	187	2,692	578	1,177	23	180	687	150	151	903	6,727
November	234	2,032	424	1,177	96	174	737	125	177	910	6,948
December	404	2,932	508	1,064	101	88	552	162	214	846	6,872
Average	249	2,706	422	1,205	100	113	621	158	187	1,065	6,825
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
3-Month Average	322	2,995	461	1,066	113	97	398	161	42	851	6,505
2011 3-Month Average 2010 3-Month Average	205 298	2,773 2,532	318 318	1,269 1,194	106 126	104 94	556 461	155 318	203 245	1,030 1,035	6,719 6,620

 ^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.
 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

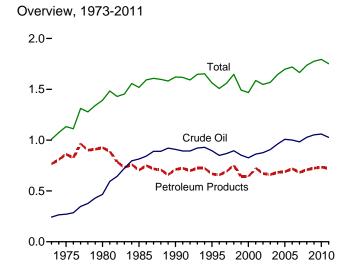
coverage is the 50 States and the District of Columbia.

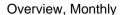
Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/.

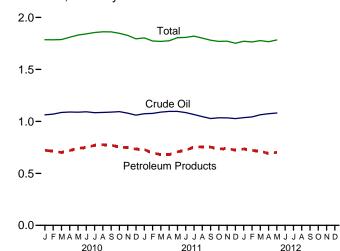
Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2010: EIA, Petroleum Supply Annual, annual reports. • 2011 and 2012: EIA, Petroleum Supply Monthly, monthly reports.

Figure 3.4 Petroleum Stocks

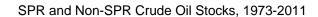
(Billion Barrels, Except as Noted)

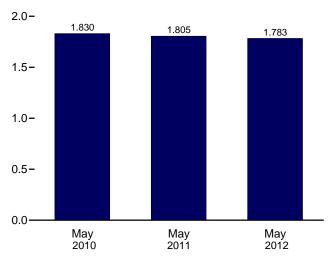


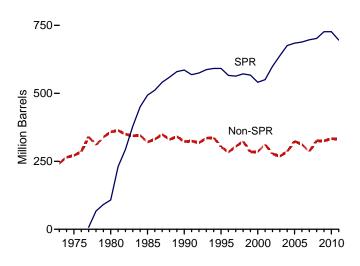




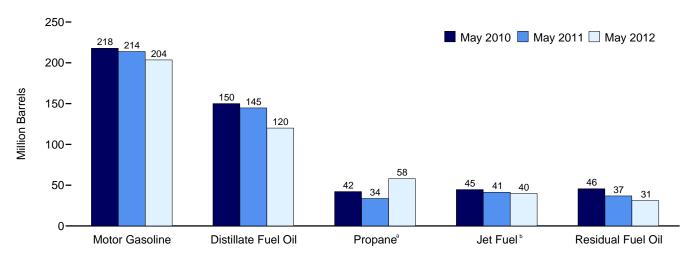
Total Stocks (Crude Oil and Petroleum Products)







Selected Products



^a Includes propylene.

46

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		B: (111-4-	1.4	LPC	3 b		B		
	SPRC	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	132	52	49	98	220	49	162	1,621
1995 Year	592	303	895	130	40	43	93	202	37	165	1,563
1996 Year	566	284	850	127	40	43	86	195	46	164	1,507
1997 Year	563	305	868	138	44	44	89	210	40	169	1,560
1998 Year	571	324	895	156	45	65	115	216	45	176	1,647
	567	284	852	125	41	43	89	193	36	157	1,493
1999 Year		286	826	118	41	43 41	83	196	36		1,493
2000 Year	541									164	
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	39	62	113	212	42	169	1,720
2007 Year	697	286	983	134	39	52	96	218	39	156	1,665
2008 Year	702	326	1,028	146	38	55	113	214	36	162	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	105	218	46	178	1,830
June	727	365	1,092	158	45	49	120	216	43	169	1,842
July	727	358	1,084	167	47	55	130	220	41	166	1,855
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	347	1,074	162	41	35	85	235	39	166	1,803
February	727	350	1,074	154	39	26	71	229	35	168	1,773
March	727	363	1,077	149	40	24	69	215	37	171	1,773
April	727	369	1,009	143	39	28	80	205	39	175	1,776
	727	370	1,096	145	41	34	92	214	37	180	1,776
May				145							
June	727	358	1,085		42	40	105	215	37	179	1,808
July	718	348	1,066	158	44	47	119	217	37	178	1,820
August	696	349	1,046	157	43	52	130	212	39	173	1,801
September	696	332	1,028	154	46	57	132	216	35	170	1,781
October	696	339	1,035	143	46	60	133	208	37	169	1,770
November December	696 696	338 331	1,034 1,027	144 150	42 42	59 55	125 111	221 224	39 34	167 164	1,772 1,751
			•								•
2012 January	696	340	1,036	149 139	42 41	48	101	235	34	174	1,771
February	696	347 R 269	1,043		R 39	43	96 R 102	231 R 219	36 R 36	179 R 492	1,764
March	696	R 368	R 1,064	R 134		45	R 102		R 36	R 183	R 1,777
April	E 696	E 378	E 1,074	E 122	E 40	E 50	RF 115	E 208	E 32	RE 175	E 1,766
May	E 696	E 385	E 1,081	E 120	E 40	^E 58	^F 132	E 204	E 31	E 176	E 1,783

Includes lease condensate. Liquefied petroleum gases.

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: 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. • 1981-2010: EIA, *Petroleum Supply Annual,* annual reports. • 2011 and 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.

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,

[&]quot;Stocks of Alaskan Crude Oil," at end of section.

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

g Excludes stocks in the Northeast Heating Oil Reserve. Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

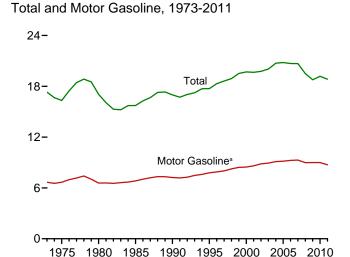
h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Othor".

i Includes propylene.

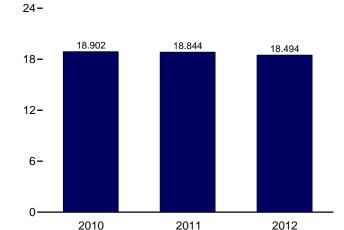
I Includes finished motor gasoline and motor gasoline blending components; excludes oxygenates.

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

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



Total, January-May



Selected Products, 1973-2011

12-

Selected Products, Monthly 12-



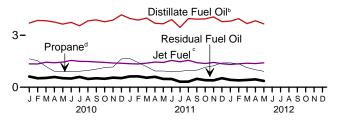


1975 1980 1985 1990 1995 2000 2005 2010

Propane^d

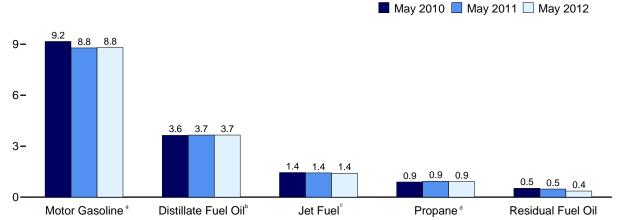






Selected Products

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

		arreis p	,,			LDC	·a			Datas			
	Asphalt and	Aviation	Distillate	Jet	Kero-	LPG		Lubri-	Motor	Petro- leum	Residual		
	Road Oil	Gasoline	Fuel Oil ^b	Fuelc	sene	Propane ^d	Total	cants	Gasolinee	Coke	Fuel Oil	Other [†]	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	1,522	43	917	1,556	164	7,235	339	1,229	1,373	16,988
1995 Average	486 484	21	3,207	1,514	54	1,096	1,899	156	7,789	365	852	1,381	17,725
1996 Average	505	20 22	3,365 3,435	1,578 1,599	62 66	1,136	2,012 2,038	151 160	7,891 8,017	379 377	848 797	1,518 1,605	18,309
1997 Average 1998 Average	503 521	19	3,433	1,622	78	1,170 1.120	1.952	168	8,253	447	887	1,503	18,620 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	15	3,945	1,539	14	1,154	1,954	131	8,989	464	622	1,408	19,498
2009 Average	360	14	3,631	1,393	18	1,160	2,051	118	8,997	427	511	1,251	18,771
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	15	3,639	1,446	11	891	1,878	128	9,162	339	519	1,351	18,866
June	517 470	18 20	3,743 3,544	1,543 1,494	16 19	901 915	1,938 1,978	155 141	9,311 9,301	411 385	500 595	1,386 1,373	19,537 19,319
July	537	14	3,830	1,494	9	973	2.025	129	9,301	434	476	1,373	19,662
August September	463	20	3,886	1,457	8	1.040	2,023	136	9,233	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	224	14	3,968	1,355	17	1,652	2,660	136	8,412	363	623	1,349	19,121
February	248	13	3,871	1,343	47	1,423	2,406	121	8,648	282	627	1,264	18,869
March	280	19	3,993	1,389	25	1,189	2,291	148	8,750	339	547	1,468	19,248
April	314	.7	3,689	1,451	9	933	1,916	131	8,762	352	600	1,381	18,613
May	354	18	3,657	1,429	(s)	934	1,994	120	8,784	415	478	1,114	18,363
June	455	17	3,903	1,545	4	889	1,938	119	9,046	386	471	1,394	19,277
July	463 543	18 18	3,452 3,959	1,466 1,555	9 5	918 974	1,929 1,987	112 134	8,960 8,907	361 452	316 319	1,470 1,274	18,555
August						974 979							19,153
September October	462 424	13 16	3,929 3.944	1,417 1.370	13 -4	1.147	2,035 2.140	126 107	8,753 8.623	360 410	482 402	1,207 1,132	18,795 18,563
November	298	12	4,055	1,427	10	1,147	2,140	124	8,527	361	395	1,132	18,734
December	191	10	3,782	1,354	12	1,400	2,525	112	8,659	313	519	1,261	18,738
Average	355	15	3,849	1,425	12	1,138	2,171	124	8,736	367	480	1,300	18,835
2012 January	216	12	3,811	1,313	2	1,406	2,463	129	8,187	367	420	1,349	18,268
February	218	11	3,954	1,350	23	1,343	2,421	139	8,622	297	394	1,306	18,734
March	R ₂₃₆	^R 14	R 3,668	R 1,382	R 2	R 1,134	R 2,226	R 111	R 8,633	R 323	^R 416	R 1,163	R 18,174
April	F 304	^F 15	E 3,834	E 1,363	RF 4	E 1,007	^F 2,036	RF 136	E 8,687	RF 365	E 451	RE 1,557	E 18,753
May	F 364	F 15	E 3,656	E 1,405	F 9 E 8	E 918	F 2,004	^F 129	E 8,802	[⊦] 399	E 362	^L 1,420	E 18,565
5-Month Average	E 268	E 14	^E 3,782	E 1,363	_	E 1,160	E 2,229	E 129	^E 8,585	^E 351	^E 408	E 1,359	E 18,494
2011 5-Month Average 2010 5-Month Average	284 285	14 13	3,836 3,755	1,394 1,398	19 15	1,224 1,229	2,253 2,221	131 130	8,671 8,836	352 350	574 554	1,316 1,344	18,844 18,902

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.

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

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. • 1981-2010: EIA, Petroleum Supply Annual, annual reports. • 2011 and 2012: EIA, Petroleum Supply Monthly, monthly reports; and, for the current the months Wooldh Petroleum State Petroleum Supply Monthly. 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.

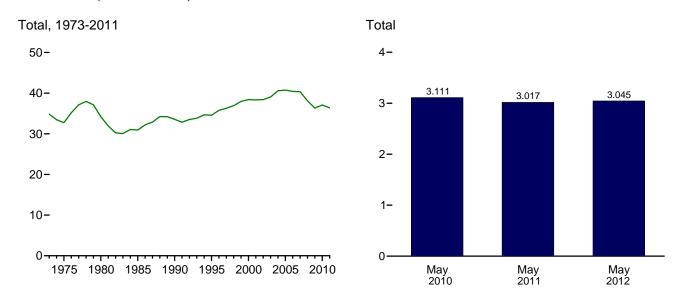
Includes propylene.

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

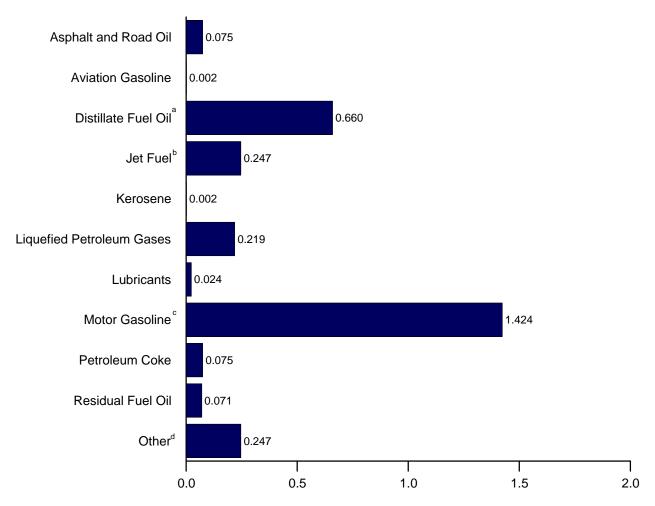
† Pentanes plus petrochemical feedstocks special paphthas still gas (refinery

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

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



By Product, May 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	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	30,92
1990 Total		45	6,422	3,129	88	1,284	2,059	362	13,872	745	2,820	2,839	33,55
995 Total	1,178	40	6,818	3,132	112	1,534	2,512	346	14,825	802	1,955	2,837	34,55
996 Total	1,176	37	7,175	3,274	128	1,594	2,660	335	15,064	837	1,952	3,121	35,75
997 Total		40	7.304	3.308	136	1,638	2,690	354	15,254	829	1,828	3,298	36,26
998 Total	1,263	35	7,359	3,357	162	1,568	2,575	371	15,701	982	2,036	3,093	36,93
999 Total	1,324	39	7.595	3,462	151	1,745	2.897	375	16.036	1.048	1,905	3,129	37.96
000 Total		36	7,935	3,580	140	1,734	2,945	369	16,155	895	2,091	2,979	38,40
		35	8,179	3,426	150	1,754	2,697	338	16,373	961	1,861	3,056	38,33
001 Total	1,237	34	8.028	3,420	90	1,747	2,852	334		1,018	1,605	3,040	38,40
002 Total									16,819				
003 Total	1,220	30	8,349	3,265	113	1,701	2,748	309	16,981	1,000	1,772	3,264	39,05
004 Total	1,304	31	8,652	3,383	133	1,791	2,824	313	17,379	1,156	1,990	3,428	40,59
005 Total	1,323	35	8,755	3,475	144	1,721	2,682	312	17,444	1,133	2,111	3,318	40,73
006 Total	1,261	33	8,864	3,379	111	1,701	2,700	303	17,622	1,148	1,581	3,416	40,42
007 Total		32	8,921	3,358	67	1,729	2,733	313	17,689	1,077	1,659	3,313	40,35
008 Total		28	8,411	3,193	30	1,620	2,574	291	17,168	1,022	1,432	2,941	38,10
009 Total	873	27	7,720	2,883	36	1,624	2,664	262	17,135	938	1,173	2,611	36,32
010 January	42	2	668	236	3	195	294	22	1,378	50	120	215	3,02
February	46	1	629	213	5	164	255	23	1,253	56	91	202	2,77
March	54	2	692	254	2	142	246	26	1,422	79	103	252	3,13
April	66	3	657	240	1	105	198	24	1,426	70	111	251	3,04
May	78	2	657	254	2	106	207	24	1,482	63	101	240	3,11
June	103	3	654	263	3	104	206	28	1,458	74	94	237	3,12
July	97	3	640	263	3	109	217	27	1,504	72	116	242	3,18
August	110	2	692	261	2	116	220	24	1,497	81	93	259	3,24
September	92	3	679	248	1	120	219	25	1,426	78	97	227	3,09
October		2	681	251	3	135	233	24	1,458	63	95	215	3,11
November		2	677	238	8	134	228	23	1,380	70	104	227	3,01
December	42	2	754	243	9	194	298	21	1,441	69	102	233	3.21
Total	878	27	8,080	2,963	41	1,624	2,821	291	17,127	826	1,228	2,800	37,08
011 January	46	2	717	238	3	196	295	26	1,361	68	121	239	3,11
February	46	2	631	213	7	153	241	20	1,263	48	110	202	2,78
March	58	3	721	244	4	141	251	28	1,415	63	107	259	3.15
April	63	1	645	247	1	107	201	24	1,372	64	113	234	2,96
May	73	3	660	251	(s)	111	216	23	1,421	78	93	199	3,01
June	91	3	682	263	1	102	204	22	1.416	70	89	236	3,07
July	95	3	623	258	2	109	209	21	1,449	67	62	260	3,04
August	112	3	715	273	1	116	217	25	1,441	84	62	227	3,16
September	92	2	687	241	2	113	215	23	1,370	65	91	208	2,99
October		3	712	241	-1	136	234	20	1,376	77	78	201	3.04
November	59	2	709	243	2	142	235	23	1,335	65	76 74	222	2.96
December	39	2	683	243	2	167	278	23	1,401	58	101	224	3,04
Total	860	27	8,184	2,950	25	1,594	2,796	275	16,639	807	1,102	2,712	36,37
012 January	44	2	688	231	(s)	167	270	24	1,324	69	82	238	2,97
February		2	668	222	(5)	149	250	24	1,324	52	72	219	2,85
		2	R 662	R 243	R (s)	R 135	R 245	R 21	R 1,305	R 60	R 81	R 209	R 2,96
March	F 61	F2	E 670	E 232	"(S) F1	E 116	F 216	RF 25	E 1,360	RF 66	E 85	RE 260	E 2,97
April	F 75	· 2		E 247	F 2		- 216 F040	'`` ∠5		" 00	E 71	E 247	- 2,91
May 5-Month Total	E 270	F2 E 10	E 660 E 3,349	E 1,174	E 7	E 109 E 677	F219 E 1,200	F 24 E 118	E 1,424 E 6,809	^F 75 ^E 321	E 390	E 1,173	E 3,04 E 14,82
011 5-Month Total	285	11	3,374	1,194	16	709	1,204	120	6,832	320	545	1,133	15,03
010 5-Month Total		10	3,374	1,194	13	709 712	1,204	119	6,962	319	545 526	1,161	15,03

^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.

Includes propylene.

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

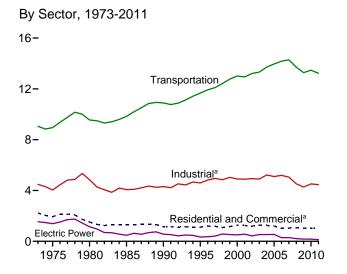
as fuel. Beginning in 2005, also includes naphtha-type jet fuel. R=Revised. E=Estimate. F=Forecast. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

than -0.5 trillion Btu.

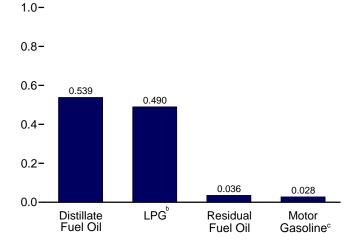
Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent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

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

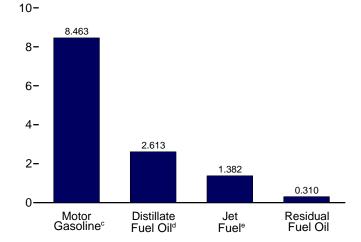
Figure 3.7 Petroleum Consumption by Sector (Million Barrels per Day)



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



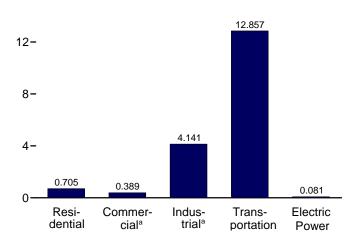
Transportation Sector, Selected Products, March 2012



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

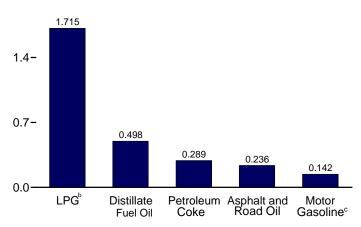
By Sector, March 2012

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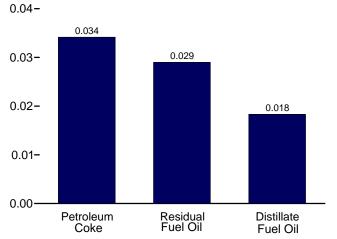


Industrial Sector,^a Selected Products, March 2012

2.1-



Electric Power Sector, March 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

1975 Average 8 1980 Average 6 1980 Average 5 1990 Average 4 1995 Average 4 1995 Average 4 1996 Average 4 1997 Average 3 1999 Average 3 2000 Average 4 2001 Average 4 2001 Average 4 2002 Average 4 2003 Average 4 2004 Average 3 2006 Average 3 2007 Average 3 2008 Average 3 2009 Average 3 2010 January 4 February 4 March 2 April 1 August 1 September 1 October 2 December 4 Average 2 2011 January 3 February 4 February 4 August 1 September 1 October 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 3 February 4 March 2 April 1 March 3 Average 2 2011 January 3 February 4 March 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1		Kero-sene 110 78 51 77 31 36 43 45 52 54 46 29 34 41 40 32 21 10 13 10 24 8 5	Liquefied Petroleum Gases 407 365 222 224 252 282 334 325 303 376 395 375 384 389 364 366 318 345 394 391 461 441 388	Total 1,459 1,293 890 815 742 743 811 781 718 819 865 849 817 848 839 809 685 708 718 687	Distillate Fuel Oil 303 276 243 297 252 225 227 209 202 206 230 239 209 226 221 210 189 181 174 194 324 332 190	Kero-sene 31 24 20 16 6 11 10 12 15 13 14 15 8 9 10 10 7 4 2 2	Liquefied Petroleum Gases 105 92 63 68 73 78 87 86 84 100 107 102 101 1112 108 94 88 87 113 99	Motor Gasolineb 45 46 56 50 58 10 14 22 20 15 23 20 24 32 24 32 24 26 32 24 28	Petro-leum Coke NA NA NA (S)	Residual Fuel Oil 290 214 245 99 100 62 60 48 37 32 40 30 35 48 53 50 33 33 32 33	7744 653 626 530 489 385 397 378 358 366 415 406 389 343 337 345 357
1975 Average 8 1980 Average 6 1980 Average 5 1990 Average 4 1995 Average 4 1996 Average 4 1997 Average 4 1997 Average 3 1999 Average 3 2000 Average 4 2001 Average 4 2001 Average 4 2002 Average 4 2003 Average 4 2005 Average 3 2006 Average 4 2006 Average 2 2007 Average 3 2008 Average 3 2008 Average 3 2009 Average 3 2009 Average 3 2009 Average 3 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 September 1 October 2 December 4 Average 2 2011 January 3 February 4 February 4 August 1 September 1 October 2 December 4 Average 2 2011 January 3 February 4 February 4 February 4 August 1 September 1 Cotober 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 3 June 1 July 1 June 1 July 1 June 1 July 1	350 517 517 518 519 510 511 511 511 511 511 511 511	78 51 77 31 36 43 45 52 54 46 29 34 41 40 32 21 10 13	365 222 224 252 282 334 325 303 376 395 375 384 364 366 318 345 394 391	1,293 890 815 742 743 811 718 865 849 817 848 839 809 685 708 718 687	276 243 297 252 225 227 209 202 206 230 239 209 226 221 210 189 181 174 194	24 20 16 6 11 10 12 15 13 14 15 8 9 10 10 7 4 2 2	92 63 68 73 78 87 86 84 100 107 102 101 112 108 94 88 87 113 99	46 56 50 58 10 14 22 20 15 23 20 24 23 24 32 24 26 32 24 28	NA NA O (S)	214 245 99 100 62 60 48 37 32 40 30 35 48 53 50 33 33 32 33	653 626 530 489 385 397 378 358 368 415 406 376 428 416 389 343 343 347 345
1975 Average 8 1980 Average 6 1980 Average 5 1990 Average 4 1995 Average 4 1996 Average 4 1997 Average 4 1997 Average 3 1999 Average 3 2000 Average 4 2001 Average 4 2001 Average 4 2002 Average 4 2003 Average 4 2005 Average 3 2006 Average 4 2006 Average 2 2007 Average 3 2008 Average 3 2008 Average 3 2009 Average 3 2009 Average 3 2009 Average 3 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 September 1 October 2 December 4 Average 2 2011 January 3 February 4 February 4 August 1 September 1 October 2 December 4 Average 2 2011 January 3 February 4 February 4 February 4 August 1 September 1 Cotober 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 3 June 1 July 1 June 1 July 1 June 1 July 1	350 517 517 518 519 510 511 511 511 511 511 511 511	78 51 77 31 36 43 45 52 54 46 29 34 41 40 32 21 10 13	365 222 224 252 282 334 325 303 376 395 375 384 364 366 318 345 394 391	1,293 890 815 742 743 811 718 865 849 817 848 839 809 685 708 718 687	276 243 297 252 225 227 209 202 206 230 239 209 226 221 210 189 181 174 194	24 20 16 6 11 10 12 15 13 14 15 8 9 10 10 7 4 2 2	92 63 68 73 78 87 86 84 100 107 102 101 112 108 94 88 87 113 99	46 56 50 58 10 14 22 20 15 23 20 24 23 24 32 24 26 32 24 28	NA NA O (S)	214 245 99 100 62 60 48 37 32 40 30 35 48 53 50 33 33 32 33	653 626 530 489 385 397 378 358 368 415 406 376 428 416 389 343 343 347 345
1980 Average	517 517 518 519 5114 5106 5106 5106 5114	51 77 31 36 43 45 52 54 46 29 34 41 40 32 21 10 13	222 224 252 282 334 325 303 376 395 375 384 389 364 366 318 345 394 391	890 815 742 743 811 718 819 865 849 817 848 839 809 685 708 718 687	243 297 252 225 227 209 202 206 230 239 209 226 221 210 189 181 174 194	20 16 6 11 10 12 15 13 14 15 8 9 10 7 4 2 2	63 68 73 78 87 86 84 100 107 102 101 112 108 94 88 87 113 99	56 50 58 10 14 22 20 15 23 20 24 32 23 24 26 32 24 28	NA NA (S)	245 99 100 62 60 48 37 32 40 30 35 48 53 50 33 33 32 33	626 530 489 385 397 378 358 366 415 406 376 428 416 389 343 337 345 357
1985 Average	514 600 6160 6160 617 6180 618	77 31 36 43 45 52 54 46 46 29 34 41 40 32 21 10 13	224 252 282 334 325 303 376 395 375 384 389 364 366 318 345 394 391	815 742 743 811 781 718 865 849 817 848 839 809 685 708 718 687	297 252 225 227 209 202 206 230 239 209 226 221 210 189 181 174 194	16 6 11 10 12 15 13 14 15 8 9 10 7 4 2 2	68 73 78 87 86 84 100 107 102 101 112 108 94 88 87 113 99	50 58 10 14 22 20 15 23 20 24 32 23 24 32 24 26 32 24 28	NA 0 (s)	99 100 62 60 48 37 32 40 30 35 48 53 50 33 33 33 32	530 489 385 397 378 358 406 475 406 376 428 416 389 343 337 345 357
1990 Average 4 1995 Average 4 1996 Average 4 1997 Average 4 1998 Average 3 2000 Average 4 2001 Average 4 2002 Average 4 2003 Average 4 2004 Average 3 2005 Average 3 2006 Average 3 2007 Average 3 2008 Average 2 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 Average 2 2011 January 3 February 4 Average 2	126 134 111 1663 1889 124 127 1004 125 133 1002 1335 1342 114 1883	36 43 45 52 54 46 29 34 41 40 32 21 10 13	282 334 325 303 376 395 375 384 389 364 366 318 345 394 391	743 811 781 718 819 865 849 817 848 839 809 685 708 718 687	225 227 209 202 206 230 239 209 226 221 210 189 181 174 194	11 10 12 15 13 14 15 8 9 10 10 7 4 2 2	78 87 86 84 100 107 102 101 112 108 94 88 87 113 99	10 14 22 20 15 23 20 24 32 23 24 26 32 24 28	0 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	62 60 48 37 32 40 30 35 48 53 50 33 33 32 33	385 397 378 358 366 415 406 428 416 389 343 337 345 357
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1997 Average 4 1998 Average 3 1999 Average 3 2000 Average 4 2001 Average 4 2002 Average 4 2003 Average 4 2005 Average 3 2006 Average 3 2007 Average 3 2008 Average 2 2010 January 4 February 4 March 2 April 1 May 2 June 2 June 2 June 2 November 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 Average 2 2011 January 3 February 4 Average 2 2011 January 3 February 4 April 1 March	863 889 124 127 1004 125 133 102 2335 342 1114 283	52 54 46 46 29 34 41 40 32 21 10 13	303 376 395 375 384 389 364 366 318 345 394 391	718 819 865 849 817 848 839 809 685 708 718 687	202 206 230 239 209 226 221 210 189 181 174 194	15 13 14 15 8 9 10 10 7 4 2 2	84 100 107 102 101 112 108 94 88 87 113 99	20 15 23 20 24 32 23 24 26 32 24 28	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	37 32 40 30 35 48 53 50 33 33 32 33	358 366 415 406 376 428 416 389 343 337 345 357
1998 Average 3 1999 Average 3 2000 Average 4 2001 Average 4 2002 Average 4 2003 Average 4 2005 Average 3 2006 Average 3 2007 Average 3 2008 Average 3 2009 Average 2 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 Average 2 2011 January 3 February 4 Average 2 2011 January 3 February 4 Average 2	889 124 127 104 125 133 102 2335 342 2114 283	54 46 46 29 34 41 40 32 21 10 13	376 395 375 384 389 364 366 318 345 391 461 461 481 388	819 865 849 817 848 839 809 685 708 718 687	206 230 239 209 226 221 210 189 181 174 194	13 14 15 8 9 10 10 7 4 2 2	100 107 102 101 112 108 94 88 87 113 99	15 23 20 24 32 23 24 26 32 24 28	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	32 40 30 35 48 53 50 33 33 32 33	366 415 406 376 428 416 389 343 337 345 357
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2001 Average 4 2002 Average 4 2003 Average 4 2004 Average 4 2005 Average 4 2006 Average 3 2007 Average 3 2008 Average 2 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 March 2 April 1 May 1 June 1 June 1	127 104 125 133 102 335 342 314 283 460 471 270	46 29 34 41 40 32 21 10 13	375 384 389 364 366 318 345 394 391 461 441 388	849 817 848 839 685 708 718 687	239 209 226 221 210 189 181 174 194	15 8 9 10 10 7 4 2 2	102 101 112 108 94 88 87 113 99	20 24 32 23 24 26 32 24 28	(s) (s) (s) (s) (s) (s) (s) (s)	30 35 48 53 50 33 33 32 33	406 376 428 416 389 343 337 345 357
2002 Average 4 2003 Average 4 2004 Average 4 2005 Average 4 2006 Average 3 2007 Average 3 2008 Average 2 2010 January 4 February 4 March 2 April 1 May 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 June 1	104 125 133 102 335 342 314 283 460 471 270	29 34 41 40 32 21 10 13	384 389 364 366 318 345 394 391 461 441 388	817 848 839 809 685 708 718 687	209 226 221 210 189 181 174 194	8 9 10 10 7 4 2 2	101 112 108 94 88 87 113 99	24 32 23 24 26 32 24 28	(s) (s) (s) (s) (s) (s) (s)	35 48 53 50 33 33 32 33	376 428 416 389 343 337 345 357
2003 Average 4 2004 Average 4 2005 Average 4 2006 Average 3 2007 Average 3 2008 Average 2 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 June 1 June 1	125 133 102 335 342 314 283 460 471 270	34 41 40 32 21 10 13	389 364 366 318 345 394 391 461 441 388	848 839 809 685 708 718 687	226 221 210 189 181 174 194	9 10 10 7 4 2 2	112 108 94 88 87 113 99	32 23 24 26 32 24 28	(s) (s) (s) (s) (s) (s)	48 53 50 33 33 32 33	428 416 389 343 337 345 357
2004 Average 4 2005 Average 4 2006 Average 3 2007 Average 3 2008 Average 2 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 June 1	133 102 135 1342 1314 1283 1460 171 1270	41 40 32 21 10 13	364 366 318 345 394 391 461 441 388	839 809 685 708 718 687 931 936 666	221 210 189 181 174 194 324 332	10 10 7 4 2 2	108 94 88 87 113 99	23 24 26 32 24 28	(s) (s) (s) (s) (s)	53 50 33 33 32 33	416 389 343 337 345 357
2005 Average 4 2006 Average 3 2007 Average 3 2008 Average 2 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1	102 335 342 314 283 460 471 270	40 32 21 10 13 10 24 8 5	366 318 345 394 391 461 441 388	809 685 708 718 687 931 936 666	210 189 181 174 194 324 332	10 7 4 2 2	94 88 87 113 99	24 26 32 24 28	(s) (s) (s) (s) (s)	50 33 33 32 33	389 343 337 345 357
2006 Average 3 2007 Average 3 2008 Average 2 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1	335 342 314 283 460 471 270	32 21 10 13 10 24 8 5	318 345 394 391 461 441 388	685 708 718 687 931 936 666	189 181 174 194 324 332	7 4 2 2	88 87 113 99	26 32 24 28	(s) (s) (s) (s)	33 33 32 33	343 337 345 357
2007 Average 3 2008 Average 3 2009 Average 2 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 June 1 July 1	342 314 283 460 471 270	21 10 13 10 24 8 5	345 394 391 461 441 388	708 718 687 931 936 666	181 174 194 324 332	4 2 2	87 113 99	32 24 28	(s) (s) (s)	33 32 33	337 345 357
2008 Average 3 2009 Average 2 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 June 1 July 1	314 283 460 471 270	10 13 10 24 8 5	394 391 461 441 388	718 687 931 936 666	174 194 324 332	2 2 2	113 99	24 28	(s) (s)	32 33	345 357
2009 Average 2 2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1	2 83 460 471 270 196	13 10 24 8 5	391 461 441 388	931 936 666	194 324 332	2 2	99 122	28	(s)	33	357
2010 January 4 February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 June 1 June 1 Juny 1	160 171 270 196	10 24 8 5	461 441 388	931 936 666	324 332	2	122				
February 4 March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 June 1 July 1	171 270 196	24 8 5	441 388	936 666	332			28	(-)	57	532
March 2 April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1	270 196	8 5	388	666		4			(s)	01	
April 1 May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 June 1 July 1	196	5			190		116	28	(s)	58	538
May 2 June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 June 1 July 1			224			1	102	28	(s)	33	356
June 2 July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1	207		321	521	138	1	85	29	(s)	24	277
July 1 August 1 September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1		8	327	542	146	1	86	30	0	25	289
August 1 September 1 October 2 November 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1	244	11	338	593	172	2	89	30	0	30	323
September 1 October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1	189	13	345	547	133	2	91	30	0	23	280
October 2 November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1	169	7	353	528	119	1	93	30	(s)	21	264
November 2 December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1	157	6	363	526	111	1	96	29	(s)	19	256
December 4 Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1	233	10	370	614	164	2	98	29	(s)	29	322
Average 2 2011 January 3 February 4 March 2 April 1 May 1 June 1 July 1	271	32	373	676	190	5	99	29	(s)	33	356
2011 January 3 February 3 March 2 April 1 May 1 June 1 July 1	132	35	466	934	304	6	123	29	(s)	53	516
February 4 March 2 April 1 May 1 June 1 July 1	274	14	379	667	193	2	100	29	(s)	34	358
March 2 April 1 May 1 June 1 July 1	395	12	464	870	278	2	122	27	(s)	45	475
April	114	33	419	866	291	5	111	28	(s)	47	483
May	282	18	399	699	199	3	105	28	(s)	32	368
June 1 July 1	195	6	334	534	137	1	88	28	0	22	277
July 1	128	(s)	347	476	90	(s)	92	28	0	15	225
	199	3	338	540	140	1	89	29	0	23	282
August 2	178	6	336	520	125	1	89	29	0	20	264
	243	4	346	593	171	1	91	29	0	28	320
	266	9	355	630	187	. 1	94	28	0	30	341
	289	-3	373	659	203	(s)	99	28	0	33	362
	331	7	389	728	233	1	103	28	(s)	38	403
	128	8	440	876	301	1	116	28	(s)	49	496
Average 2	278	9	378	665	196	1	100	28	(s)	32	357
	163	.1	429	893	326	(s)	113	26	(s)	53	519
		16	422	827	274	3	111	28	(s)	44	460
	389		388	705	222	(s)	102	28	(s)	36	389
3-Month Average 3	316	1		808	274	1	109	27	(s)	44	456
2011 3-Month Average 3 2010 3-Month Average 3		1 6	413								

 ^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

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 hociping in 1973.

blended into motor gasoline.

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

available data beginning in 1973. Sources: See end of section.

Table 3.7b Petroleum Consumption: Industrial Sector

					Industria	I Sectora				
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Otherc	Total
1070 4		004			•	400	054		4 005	4 470
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
985 Average	425	526	21	1,285	75	114	261	326	1,032	4,065
990 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
010 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	1,419	66	150	274	51	1,351	4,430
June	517	427	3	1,492	80	153	333	43	1,386	4,433
	470	331	3	1,523	73	153	303	53	1,373	4,282
July	537	544	2	1,523	66	152	370	42	1,373	4,202
August	463	701	1	1,604	70	150	371	51	1,326	4,738
September	434	548	3		66	148	279	51		
October	434 295			1,637					1,215	4,380
November		664	8	1,648	64	145	339	57	1,333	4,553
December	204	700	9 4	2,061	58	146	307	51	1,301	4,838
Average	362	559	4	1,673	68	148	310	52	1,343	4,519
011 January	224	749	3	2,049	70	138	283	64	1,349	4,928
February	248	585	8	1,853	62	142	215	65	1,264	4,442
March	280	755	5	1,764	76	144	266	57	1,468	4,814
April	314	544	2	1,475	68	144	304	63	1,381	4,295
May	354	553	(s)	1,536	62	144	366	50	1,114	4,177
June	455	568	1	1,492	61	148	324	48	1,394	4,492
July	463	257	2	1,486	57	147	286	30	1,470	4,197
August	543	523	1	1,530	69	146	388	30	1,274	4,505
September	462	578	2	1,567	65	144	297	49	1,207	4,371
October	424	575	-1	1,648	55	141	362	42	1,132	4,378
November	298	696	2	1,721	64	140	320	39	1,291	4,571
December	191	434	2	1,945	58	142	261	52	1,261	4,346
Average	355	568	2	1,672	64	143	307	49	1,300	4,460
2012 January	216	571	(s)	1,896	66	134	311	40	1,349	4,585
February	218	731	4	1.864	71	141	250	38	1,306	4.624
March	236	498	(s)	1,715	57	142	289	41	1,163	4,141
3-Month Average	223	597	1	1,824	65	139	284	40	1,272	4,446
2011 3-Month Average	250	700	5	1,890	70	141	256	62	1,363	4.737
2010 3-Month Average	238	568	3	1,898	67	142	274	56	1,302	4,548

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 negative barries per day of distillate and residual ruler of 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.

(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 beginning in 1973.

Sources: See end of section.

Table 3.7c Petroleum Consumption: Transportation and Electric Power Sectors

				Transportat	ion Secto	r			E	Electric 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 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	9,838	40	3	435	478
1990 Average	24	1,722	1,522	16	80	7,080	443	10,888	45	14	507	566
1995 Average	21	1,973	1,514	13	76	7,674	397	11,668	51	37	247	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	2,489	1,655	10	74	8,435	255	12,938	80	47	437	564
2002 Average	18	2,536	1,614	10	73	8,662	295	13,208	60	80	287	427
2003 Average	16 17	2,665 2.783	1,578 1.630	12 14	68 69	8,733 8.887	249 321	13,321 13,720	76 52	79 101	379 382	534 535
2004 Average	17	2,763 2,858	1,679	20	68	8,948	365	13,720	54	111	382	547
2005 Average2006 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	14,176	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	67	8,620	403	13,231	24	69	41	134
April	17	2,779	1,410	18	64	8,929	465	13,682	23	62	40	125
May	15	2.781	1,446	18	62	8.983	377	13,681	33	64	66	164
June	18	2,858	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	12	2,679	1,383	26	55	8,736	355	13,245	60	63	67	189
Average	15	2,737	1,432	21	64	8,816	382	13,466	38	65	67	170
2011 January	14	2,507	1,355	26	66	8,247	457	12,672	40	81	57	177
February	13	2,550	1,343	23	59	8,478	478	12,944	31	67	36	134
March	19	2,730	1,389	22	72	8,578	420	13,230	27	73	38	137
April	7	2,782	1,451	19	64	8,590	468	13,381	31	49	46	126
May	18	2,857	1,429	19	58	8,612	372	13,365	29	49	41	119
June	17	2,964	1,545	19	58	8,868	356	13,826	32	62	44	138
July	18 18	2,855	1,466	19 19	54 65	8,784	214 215	13,410	37 26	75 65	52 45	163 135
August	13	2,995 2,871	1,555 1,417	20	61	8,732 8,581	369	13,600 13,331	25	65 63	45 34	123
September	16	2,871	1,417	20 21	52	8,453	295	13,331	25	48	34 32	102
October	12		1,370	22	52 60		295 286		22 23	48 40	32 32	96
November December	10	2,771 2,593	1,427	22 24	55	8,359 8,489	286 387	12,937 12,912	23	51	32 31	109
Average	15	2,593 2,779	1,354 1,425	21	60	8,565	359	13,223	29	60	41	130
2012 January	12	2,426	1,313	24	62	8,026	293	12,157	24	55	34	114
February	11	2,538	1,350	23	67	8,452	284	12,726	22	47	27	96
March	14	2,613	1,382	22	54	8.463	310	12,720	18	34	29	81
3-Month Average	12	2,525	1,348	23	61	8,311	296	12,577	22	46	30	97
2011 3-Month Average	16	2,597	1,363	24	66	8,433	451	12,949	32	74	44	150
2010 3-Month Average	11	2,503	1,378	24	63	8,463	392	12,833	45	68	58	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 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.

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

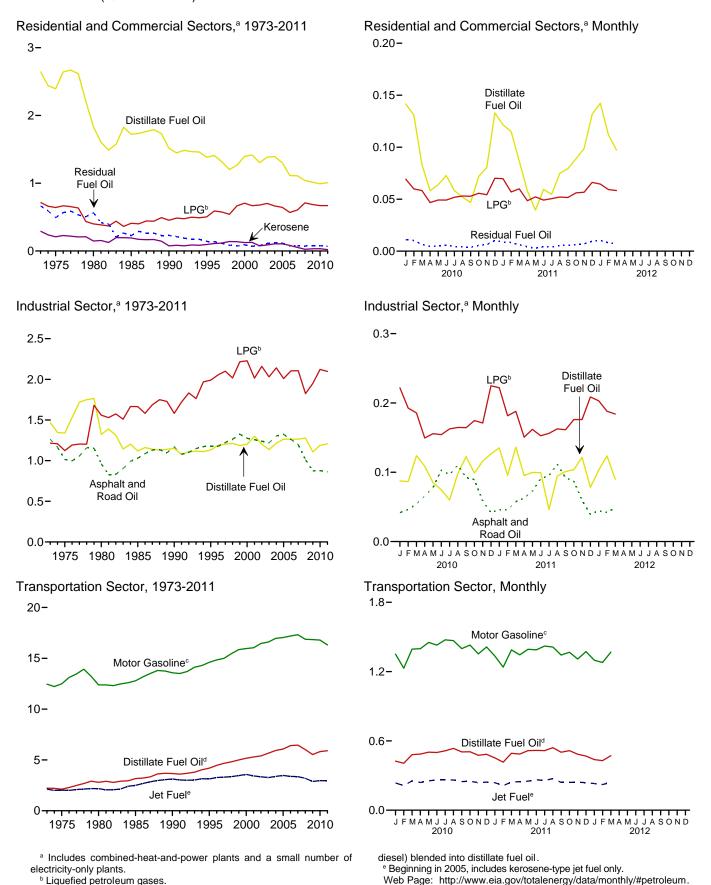
Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4.
Notes: • Transportation sector data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5.
Petroleum products supplied is an approximation 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.
*Congraphic converge is the 5. 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/#petroleum for all available data beginning in 1973.

Sources: See end of section.

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



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

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

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	74	395	1,374	479	22	109	18	(s)	141	769
1996 Total	926	89	469	1,484	483	21	122	27	(s)	137	790
1997 Total	874	93	455	1,422	444	25	120	43	(s)	111	743
1998 Total	772	108	424	1,304	429	31	118	39	(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	712 726	66 44	446 484	1,224	401 384	15 9	123 121	49 61	(s)	75 75	664 651
2007 Total 2008 Total	669	21	553	1,254 1,243	372	4	158	46	(s) (s)	73 73	653
2009 Total	602	28	547	1,176	413	4	139	53	(s)	75 76	685
2009 10tai	002	20	347	1,170	413	-	133	33	(5)	70	003
2010 January	83	2	55	140	58	(s)	14	4	(s)	11	89
February	77	4	47	128	54	1	13	4	(s)	10	82
March	49	i	46	96	34	(s)	12	5	(s)	6	58
April	34	i	37	72	24	(s)	10	5	(s)	5	43
May	37	1	39	78	26	(s)	10	5	(-)	5	47
June	43	2	39	83	30	(s)	10	5	Ö	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	71	2	55	129	50	(s)	15	4	(s)	9	78
February	68	5	45	118	48	`1	12	4	(s)	8	73
March	51	3	47	102	36	1	13	5	(s)	6	60
April	34	1	38	73	24	(s)	10	4	Ô	4	43
May	23	(s)	41	64	16	(s)	11	5	0	3	35
June	35	1	39	74	24	(s)	10	5	0	4	44
July	32	1	40	73	23	(s)	11	5	0	4	42
August	44	1	41	86	31	(s)	11	5	0	5	52
September	47	2	41	89	33	(s)	11	4	0	6	54
October	52	(s)	44	96	37	(s)	12	5	0	6	59
November	58	1	45	104	41	(s)	12	4	(s)	7	64
December	77	.1	52	131	54	(s)	14	5	(s)	9	82
Total	592	18	530	1,139	417	3	140	54	(s)	73	686
2012 January	84	(s)	51	135	59	(s)	13	4	(s)	10	87
February	66	3	47	115	46	(s)	12	4	(s)	8	71
March	57	(s)	46	103	40	(s)	12	5	(s)	7	64
3-Month Total	206	3	144	354	145	1	38	13	(s)	25	222
2011 3-Month Total 2010 3-Month Total	190 209	11 7	148 148	348 364	134 147	2 1	39 39	13 13	(s)	23 28	211 228

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

^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.

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)

					Industri	al 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 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	1,150	12	1,582	186	185	714	411	2,839	8,251
1995 Total	1,178	1,131	15	1,990	178	200	721	337	2,837	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	1,187	13	2,217	193	152	936	207	3,129	9,357
2000 Total	1,276	1,200	16	2,228	190	150	796	241	2,979	9,076
2001 Total	1,257	1,300	23	2,014	174	295	858 843	203	3,056	9,181
2002 Total 2003 Total	1,240 1,220	1,204 1,136	14 24	2,160 2,030	172 159	309 324	842 825	190 220	3,040 3,264	9,171 9,202
2004 Total	1,304	1,130	28	2,030 2,141	161	372	934	249	3,428	9,831
2005 Total	1,323	1.264	39	2.009	160	356	889	281	3,318	9,640
2006 Total	1,261	1,263	30	2,104	156	376	934	239	3,416	9,780
2007 Total	1.197	1,265	13	2.106	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	87	`1	193	12	21	45	10	202	615
March	54	124	(s)	186	13	23	67	11	252	730
April	66	109	(s)	149	12	23	58	11	251	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	110	98	(s)	165	12	25	69	8	259	747
September	92	123	(s)	164	13	23	67	10	227	719
October	89	99	(s)	175	12	24	52	10	215	676
November	59	116	1	171	12	23	61	11	227	680
December Total	42 878	126 1,188	2 7	225 2,121	11 149	24 281	57 682	10 120	233 2,800	729 8,227
2011 January	46	135	1	222	13	22	53	13	239	744
February	46	95	i	182	11	21	36	11	202	605
March	58	136	1	188	14	23	50	11	259	740
April	63	95	(s)	151	12	23	55	12	234	644
May	73	100	(s)	162	12	23	68	10	199	647
June	91	99	(s)	153	11	23	59	9	236	681
July	95	46	(s)	156	11	24	53	6	260	652
August	112	94	(s)	163	13	24	72	6	227	711
September	92	101	(s)	161	12	22	54	9	208	660
October	87	104	(s)	176	10	23	68	8	201	676
November	59	122	(s)	176	12	22	58	7	222	678
December	39	78	(s)	209	11	23	49	10	224	643
Total	860	1,207	4	2,097	141	273	674	113	2,712	8,081
2012 January	44	103	(s)	203	12	22	58 44	8 7	238	689
February	42 49	124 90	1	188 184	13 11	21 23	44 54	, 8	219 209	658 627
March 3-Month Total	1 35	31 7	(s) 1	575	36	23 66	1 56	23	209 666	1,974
2011 3-Month Total 2010 3-Month Total	150 142	367 298	3 2	591 600	38 37	66 67	139 149	35 32	700 669	2,088 1.994

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 negative barries per day of distillate and residual ruler of 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.

(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)

					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 Total	83	2,222	2,131	49	163	12,455	727	17,832	273	15	3,226	3,515
1975 Total	71	2,121	2,029	43	155	12,485	711	17,615	226	2	2,937	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	3,170	2,497	30	156	12,784	786	19,472	85	7	998	1,090
1990 Total	45	3,661	3,129	23	176	13,575	1,016	21,626	97	30	1,163	1,289
1995 Total	40	4,195	3,132	18	168	14,607	911	23,070	108	81	566	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 18	172	14,999	712	23,918	111	102	715	927
1998 Total	35 39	4,812 5.001	3,357 3,462	18	180 182	15,463 15,855	674 665	24,538	136 140	124 112	1,047 959	1,306 1,211
1999 Total 2000 Total	39 36	5,165	3,462	12	179	15,960	888	25,219 25,820	175	99	959 871	1,211
2001 Total	35	5,105	3,426	14	164	16,041	586	25,557	171	103	1,003	1,144
2002 Total	34	5,392	3,340	14	162	16,465	677	26,085	127	175	659	961
2003 Total	30	5,666	3,265	17	150	16,597	571	26,297	161	175	869	1,205
2004 Total	31	5,932	3,383	19	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	6,414	3,379	27	147	17,197	906	28,105	74	214	361	648
2007 Total	32	6.457	3.358	22	152	17.321	994	28,335	89	171	397	657
2008 Total	28	6,020	3,193	40	141	16,872	920	27,214	73	154	240	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	2	481	254	3	13	1,394	79	2,225	4	13	8	25
April	3	486	240	2	12	1,398	88	2,227	4	11	8	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	3	514	263	2	13	1,475	78	2,348	8	15	23	46
August	2	535	261	2	12	1,468	61	2,342	6	12	19	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	2	475	238	2	11	1,353	80	2,161	5	9	7	21
December	2 27	484 5,818	243	3 29	10 141	1,413	69 877	2,224	11 80	12 144	13 154	36 378
Total		,	2,963			16,791	0//	26,646		144		3/0
2011 January	2 2	453 416	238 213	3 2	12 10	1,334 1,239	89 84	2,132 1,966	7 5	15 11	11 6	33 23
March	3	493	244	3	14	1,239	82	2,226	5	14	7	26 26
April	1	486	247	2	12	1,345	88	2,181	5	9	9	23
May	3	516	251	2	11	1,393	73	2,249	5	9	8	22
June	3	518	263	2	10	1,388	67	2,251	6	11	8	25
July	3	516	258	2	10	1,421	42	2,251	7	14	10	31
August	3	541	273	2	12	1,412	42	2,286	5	12	9	25
September	2	502	241	2	11	1,343	70	2,171	4	11	6	22
October	3	515	241	2	10	1,367	58	2.196	4	9	6	19
November	2	484	243	2	11	1,309	54	2,105	4	7	6	17
December	2	468	238	3	10	1,373	75	2,170	5	10	6	20
Total	27	5,908	2,950	29	133	16,312	823	26,182	62	132	94	288
2012 January	2	438	231	3	12	1,298	57	2,041	4	10	7	21
February	2	429	222	3	12	1,279	52	1,998	4	8	5	17
March	2	472	243	3	10	1,369	60	2,159	3	6	.6	15
3-Month Total	6	1,339	696	8	34	3,946	169	6,197	11	25	17	54
2011 3-Month Total 2010 3-Month Total	7 5	1,362 1,312	696 703	8 8	36 34	3,960 3,974	255 222	6,324 6,259	17 24	40 37	25 33	82 93

 ^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 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

Sources: See end of section.

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 3.8b.

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 amount of fuel oil no. 4.

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

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

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 3.6 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 "Other" petroleum products sources for Table 3.5). 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."

1981–2010: EIA, *Petroleum Supply Annual*. 2011 and 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.

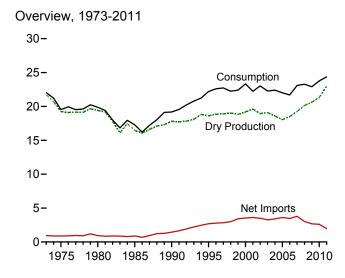
Total Petroleum

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.

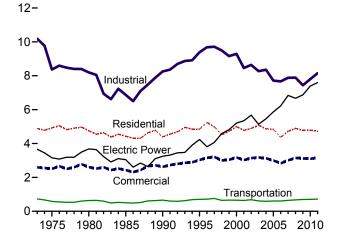
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4. Natural Gas

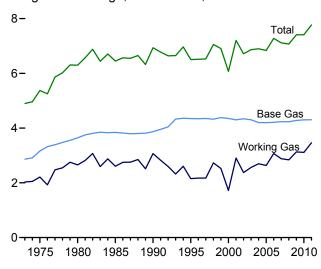
Figure 4.1 Natural Gas (Trillion Cubic Feet)



Consumption by Sector, 1973-2011

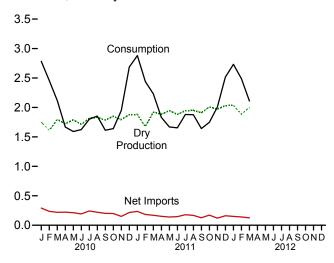


Underground Storage, End of Year, 1973-2011



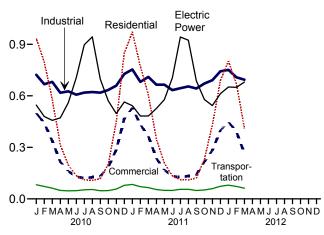
Web Page: http://www.eia.gov/totalenergy/data/monthly/#naturalgas. Sources: Tables 4.1, 4.3, and 4.4.

Overview, Monthly



Consumption by Sector, Monthly





Underground Storage, End of Month

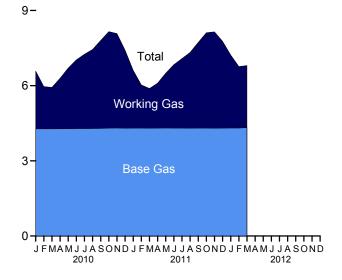


Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

					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	^j 21,731	NA	1,033	77	956	-442	-196	22,049
1975 Total	21,104	20,109	872	¹ 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 2009 Total	25,636 26,057	21,112 21,648	953 1,024	20,159 20,624	61 65	3,984 3,751	963 1,072	3,021 2,679	34 -355	-103	23,277 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 -40	R 2,880
February	2,109	E 1,752	79	E 1,674	5	308	125	183	584	R -8 R -12	R 2,438
March	2,423	E 2,020 E 1,979	99 95	E 1,921 E 1,884	6	314	145	170	145		R 2,229
April	2,363 2,420	E 2.046	95 101	E 1,945	5 3	278 271	127 132	152 139	-212 -398	2 -21	1,830 1,668
May June	2,420	E 1,977	95	E 1,881	5 5	265	120	146	-340	-38	1,653
July	2,344	E 2,044	99	E 1,944	5	293	113	179	-244	-36 -5	1,880
August	2,344	E 2.051	99	E 1.951	5	279	111	168	-244 -244	-3	1,8877
September	2,371	E 2,005	95	E 1,910	5	253	127	R 127	-398	-3 -2	1,641
October	2.496	E 2,112	104	E 2,008	5	281	110	171	-385	-53	1,747
November	2,483	E 2,074	104	E 1,971	R 5	R 247	128	120	-37	-52	2.007
December	2,557	E 2,138	107	E 2,031	6	R 295	134	R 161	384	R -66	2,515
Total	28,576	E 24,170	1,169	E 23,000	61	R 3,456	1,507	R 1,949	-348	R -297	R 24,365
2012 January	2,575	E 2,145	R 109	RE 2,037	6	R 281	130	R 150	545	R-6	R 2,732
February	R 2,380	E 1,986	R 102	RE 1,884	5	R 270	130	R 140	459	R (s)	R 2,488
March 3-Month Total	2,534 7,489	E 2,115 E 6,246	113 324	E 2,003 E 5,923	6 17	266 817	141 401	125 416	-39 965	14 8	2,109 7,328
2011 3-Month Total 2010 3-Month Total	6,841 6,576	^E 5,744 5,413	269 258	^E 5,475 5,155	17 16	993 1,027	406 281	587 747	1,528 1,485	-60 -45	7,548 7,356

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

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. (s)=Less than 0.5 billion cubic feet and greater than -0.5 billion cubic feet. NA=Not available.

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 published data beginning in 10.72.

Gas willidawi Iroin hatural gas and clude 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.

^d Marketed production (wet) minus extraction loss.

d Marketed production (wet) minus extraction loss.
 e See Note 3, "Supplemental Gaseous Fuels," at end of section.
 f 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

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, May 2012, Table 1.

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

	1	100	<u>, </u>											
					Imports	1				ļ .		Exports		
							Trinidad and							
	Algeria	Canadab	Egypta	Mexicob	Nigeriaa	Qatara	Tobagoa	Other ^{a,c}	Total	Canadab	Japan ^a	Mexicob	Other ^{a,d}	Total
1973 Total	3	1,028	0	2	0	0	0	0	1,033	15	48	14	0	77
1975 Total	5	948	0	0	0	0	0	0	953	10	53	9	0	73
1980 Total	86	797	0	102	0	0	0	0	985 950	0	45 53	4 2	0	49 55
1985 Total	24 84	926 1.448	0	0 0	0	0	0 0	0	1,532	0 17	53 53	16	0	33 86
1995 Total	18	2,816	ŏ	7	ŏ	ŏ	Ö	ŏ	2,841	28	65	61	Ö	154
1996 Total	35	2,883	Ō	14	Ö	Ö	Ö	5	2,937	52	68	34	Ö	153
1997 Total	66	2,899	0	17	0	0	0	12	2,994	56	62	38	0	157
1998 Total	69	3,052	0	15	0	0	0	17	3,152	40	66	53	0	159
1999 Total	76	3,368	0	55 12	0 13	20 46	51 99	17	3,586	39 73	64 66	61 106	0	163 244
2000 Total 2001 Total	47 65	3,544 3,729	0	10	38	23	99 98	21 14	3,782 3,977	167	66	141	0	244 373
2002 Total	27	3,785	ŏ	2	8	35	151	8	4.015	189	63	263	Ö	516
2003 Total	53	3,437	ŏ	ō	50	14	378	11	3,944	271	66	343	ŏ	680
2004 Total	120	3,607	0	0	12	12	462	46	4,259	395	62	397	0	854
2005 Total	97	3,700	73	9	_8	3	439	11	4,341	358	65	305	0	729
2006 Total	17 77	3,590 3,783	120 115	13 54	57 95	0 18	389 448	0 18	4,186 4,608	341 482	61 47	322 292	0 2	724 822
2007 Total 2008 Total	77 0	3,763 3,589	55	43	12	3	267	15	3,984	559	39	365	0	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	0	276	9	5	3	1	16	9	319	77	2	21	0	100
April	0	252	6	5	9	9	15	3	298	50	4	22	0	76
May June	0	257 248	9 6	4 2	9 11	0	16 11	3 5	298 282	55 51	2	29 34	0 3	86 90
July	0	291	6	1	5	0	17	8	329	50	4	32	0	86
August	Ō	282	Ō	1	Ö	Ö	17	5	305	49	2	33	Ö	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	0	242 322	0	(s)	0	9 4	14	9 9	273	84	2	30 38	8	124
December Total	0 0	3,280	73	1 30	42	4 46	15 190	81	352 3,741	82 739	33	333	12 32	135 1,137
2011 January	0	331	3	(s)	0	13	16	9	371	85	2	37	13	136
February	0	276	6	(s)	Ő	0	11	15	308	84	2	37	3	125
March	0	275	6	(s)	0	14	10	9	314	98	2	41	3	145
April	0	245	6	(s)	0	4	11	13	278	76	2	43	6	127
May	0	235	3	(s)	0	24	8	0	271	80	3	44	6	132
June	0	238 272	6 0	(s)	0	5 5	11 13	6 3	265 293	71 64	2	47 47	0 3	120 113
July August	0	249	0	(s) (s)	2	8	11	9	279	67	2	42	0	111
September	0	233	0	(s)	0	4	8	9	253	77	2	39	8	127
October	0	250	3	`1	0	8	8	12	281	64	0	43	3	110
November	0	232	0	(s)	0	3	12	0	R 247	84	2	39	3	128
December	0	R 269	3	(s)	0	4	10	9	R 295	87	0	42	5	134
Total	0	R 3,104	35	3	2	91	129	92	R 3,456	937	18	500	52	1,507
2012 January	0	R 265	0	(s)	0	4	9	3	R 281	84	3	40	3	130
February	0	R 250	3	(s)	0	0	11	6	R 270	86	2	42	0	130
March 3-Month Total	0 0	247 762	0 3	(s) (s)	0 0	4 7	13 34	3 12	266 817	93 263	0 5	46 128	3 6	141 401
2011 3-Month Total 2010 3-Month Total	0	882 880	15 37	1 8	0	27 19	37 54	32 27	993 1,027	267 206	6	114 67	19 3	406 281

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

 ^a As liquefied natural gas.
 ^b 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.
 ^c 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 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 Kinordom in 2011 and 2011

Kingdom in 2010 and 2011.

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.

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."
• 1988-2008: EIA, Natural Gas Annual, annual reports. • 2009 forward: EIA, Natural Gas Monthly, May 2012, Tables 4 and 5; and U.S. Department of Energy, Office of Epseli Eporer, "Natural Gas Imports and Exports." Office of Fossil Energy, "Natural Gas Imports and Exports."

Table 4.3 Natural Gas Consumption by Sector

(Billion Cubic Feet)

					End-Us	se Sectors						
					Industrial			Tr	ansportatio	n	1	
	.	0			Other Industr	ial		Pipelinesd	W-1-1-1-		Electric	
	Resi- dential	Com- mercial ^a	Lease and Plant Fuel	CHPb	Non-CHP ^c	Total	Total	and Dis- tribution ^e	Vehicle Fuel	Total	Power Sector ^{f,g}	Total
1973 Total		2,597	1,496	(h)	8,689	8,689	10,185	728	NA	728	3,660	22,049
1975 Total		2,508	1,396	(h)	6,968	6,968	8,365	583	NA	583	3,158	19,538
1980 Total	4,752	2,611	1,026	(h)	7,172	7,172	8,198	635	NA	635	3,682	19,877
1985 Total	4,433	2,432	966	(h)	5,901	5,901	6,867	504	NA.	504	3,044	17,281
1990 Total		2,623	1,236	1,055	¹ 5,963	¹ 7,018	8,255	660	(s <u>)</u>	660	i 3,245	¹ 19,174
1995 Total		3,031	1,220	1,258	6,906	8,164	9,384	700	5	705	4,237	22,207
1996 Total	5,241	3,158	1,250	1,289	7,146	8,435 8,511	9,685	711	6 8	718	3,807	22,609
1997 Total 1998 Total	4,984 4.520	3,215 2.999	1,203 1,173	1,282 1.355	7,229 6.965	8.320	9,714 9.493	751 635	9	760 645	4,065 4.588	22,737 22,246
1999 Total		3,045	1,079	1,401	6,678	8,079	9,158	645	12	657	4,820	22,240
2000 Total	4.996	3,182	1,151	1.386	6.757	8.142	9,293	642	13	655	5.206	23,333
2001 Total	4,771	3,023	1,119	1,310	6,035	7,344	8,463	625	15	640	5,342	22,239
2002 Total		3,144	1,113	1,240	6.287	7.527	8,640	667	15	682	5.672	23.027
2003 Total		3,179	1,122	1,144	6,007	7,150	8,273	591	18	610	5,135	22,277
2004 Total	4.869	3,129	1,098	1,191	6.066	7,256	8,354	566	21	587	5,464	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	4,368	2,832	1,142	1,115	5,412	6,527	7,669	584	24	608	6,222	21,699
2007 Total		3,013	1,226	1,050	5,604	6,655	7,881	621	25	646	6,841	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	570 572	681	60	3	62	457	2,430
April	313	215	109	79	435	514	618	46	3	49	471	1,667
May	198	161	107	82	437	519	626	44	3	47	560	1,591
June	134	130	102	84	420	504	607	45	3	48	706	1,624
July	111	120	107	91	420	512	619	50	3	53	897	1,800
August	107	127	108	95	419	514	622	52	3	55	943	1,853
September	117	133	107	87	424	511	618	45	3	47	697	1,612
October	202	185	112	84	438	522	634	45	3	48	570	1,639
November	447	287	108	82	469	551	659	55	3	57	497	1,947
December	848	467	114	92	521	613	727	76	3	79	564	2,685
Total	4,787	3,102	1,282	1,029	5,488	6,517	7,800	669	31	700	7,387	23,775
2011 January February	^R 972 ^R 771	529 R 433	E 113 E 100	89 79	551 501	640 581	753 681	E 81 E 69	E 3	E 84 E 71	542 482	R 2,880 R 2.438
March	R 607	R 364	E 116	81	513	594	710	€ 63	E3	^E 66	483	R 2,229
April	348	236	E 113	82	469	552	665	€ 51	E3	E 54	526	1,830
May	208	168	E 117	87	461	548	665	E 47	E3	E 50	578	1.668
June	133	133	E 113	83	437	520	633	E 47	E 3	E 49	705	1.653
July	112	126	E 117	88	439	527	644	€ 53	E 3	E 56	942	1,880
August	110	133	E 117	89	448	537	655	E 53	E 3	E 56	923	1,877
September	122	141	<u> </u>	84	444	528	643	<u> </u>	E 3	E 49	686	1,641
October	229	216	E 121	81	469	550	671	<u> </u>	E 3	E 52	578	1,747
November	431	283	E 119	86	487	572	691	E 56	E 3	E 59	543	2,007
December	688	398	E 122	. 94	_ 527	620	742	E 71	E 3	E 74	_ 612	2,515
Total	⁻ 4,731	R 3,161	^E 1,383	1,024	5,746	6,769	8,153	RE 685	^E 33	^E 718	7,602	R 24,365
2012 January February	802 668	^R 448 391	E 123 E 114	94 87	534 ^R 507	628 ^R 594	751 ^R 707	E 77 E 70	E 3 E 3	E 80 E 73	651 649	R 2,732 R 2,488
March	409	264	E 121	89	484	573	694	E 59	E3	E 62	680	2,109
3-Month Total	1,879	1,103	E 358	270	1,524	1,794	2,152	E 206	E 8	E 214	1,981	7,328
2011 3-Month Total 2010 3-Month Total		1,326 1,277	E 329 313	250 253	1,566 1,504	1,815 1,758	2,144 2,070	^E 212 209	E 8 8	E 220 217	1,507 1,482	7,548 7,356

^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

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

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), May 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. 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 A3) and dividing by the natural gas end-use sectors conversion factor (see Table A4). 1999-2006—EIA, NGA, annual reports. 2007 forward—EIA, NGM, May 2012, Table 2. • Electric Power Sector: Table 7.4b.

electricity-only plants.

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

Natural gas consumed in the operation of pipelines, primarily in compressors.

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.

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

973 Total 975 Total	Base Gas	Working Gas			us Year	1	Storage Activity	
975 Total	2 864		Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,c}
	4,004	2,034	4,898	305	17.6	1,533	1,974	-442
	3,162	2,212	5,374	162	7.9	1,760	2,104	-344
980 Total	3,642	2,655	6,297	-99	-3.6	1,910	1,896	14
985 Total	3,842	2,607	6,448	-270	-9.4	2,359	2,128	231
990 Total	3,868	3,068	6,936	555	22.1	1,934	2,433	-499
995 Total	4,349	2,153	6,503	-453	-17.4	2,974	2,566	408
996 Total	4,341	2,173	6,513	19	.9	2,911	2,906	6
997 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24
998 Total	4,326	2,730	7,056	554	25.5	2,379	2,905	-526
999 Total	4,383	2,523	6,906	-207	-7.6	2,772	2,598	174
000 Total	4,352	1,719	6,071	-806	-31.9	3,498	2,684	814
001 Total	4,301	2,904	7,204	1,185	68.9	2,309	3,464	-1,156
002 Total	4,340	2,375	6,715	-528	-18.2	3,138	2,670	468
003 Total	4,303	2,563	6,866	187	7.9	3,099	3,292	-193
004 Total	4,201	2,696	6,897	133	5.2	3,037	3,150	-113
005 Total	4,200	2,635	6,835	-61	-2.3	3,057	3,002	55
006 Total	4,211	3,070	7,281	435	16.5	2,493	2,924	-431
007 Total	4,234	2,879	7,113	-191	-6.2	3,325	3,133	192
008 Total	4,232	2,840	7,073	-39	-1.4	3,374	3,340	34
009 Total	4,277	3,130	7,407	290	10.2	2,966	3,315	-349
110 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
July	4,287	2,966	7,253	-125	-4.0	112	339	-227
August	4,290	3,153	7,443	-206	-6.1	137	323	-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
111 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 -74	-1.2	62	448	-385
November	4,302	3,843	8,145	74	2.0	198	235	-37
December	4,305	3,462	7,767	351 351	11.3	488 2 175	105	384 -348
Total	4,305	3,462	7,767	331	11.3	3,175	3,523	-348
012 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
3-Month Total						1,376	411	965
011 3-Month Total 010 3-Month Total					==	1,838 1,768	310 307	1,528 1,461

^a For total underground storage capacity at the end of each calendar year, see

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, May 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." 1996-2006—EIA, NGM, monthly issues. 2007
forward—EIA, NGM, May 2012, Table 8. 1976-1979-EIA, Natural Gas Production and Consumption 1979, Table 1.

Note 4, "Natural Gas Storage," at end of section.

b For 1980-2010, data differ from those shown on Table 4.1, which includes 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 stocks. See Note 4, "Natural Gas Storage," at end of section.

Notes:

Totals may not equal sum of components due to independent

Notes: • Iotals may not equal sum or 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).

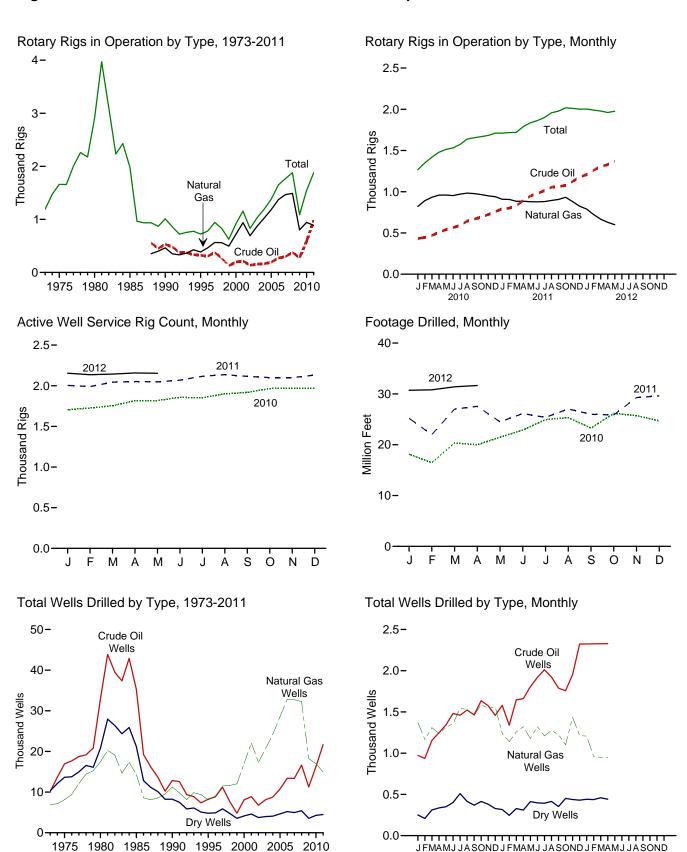
Note 9. Natural Gas Imports and Exports. The United States imports natural gas via pipeline from Canada and Mexico; and imports liquefied natural gas (LNG) via tanker from Algeria, Australia, Brunei, Egypt, Equatorial Guinea, Indonesia, Malaysia, Nigeria, Norway, Oman, Peru, Qatar, Trinidad and Tobago, 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.

2011

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements

(Number of Rigs)

1973 Average	8y Onshore 1,110 1,554 2,678 1,774 902 622 671 821 703 519 778 1,003 717 924 1,095 1,287 1,559 1,695 1,814	Site 84 106 231 206 108 101 108 122 123 106 140 153 113 108 97 94	NA N	NA NA NA NA 464 385 464 564 560 496 720 939	Total ^b 1,194 1,660 2,909 1,980 1,010 723 779 943 827 625 918 1,156	Active Well Service Rig Count [©] 2,008 2,486 4,089 4,716 3,658 3,041 3,445 3,499 3,014 2,232 2,692
1975 Average 1980 Average 1985 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average	1,110 1,554 2,678 1,774 902 622 671 821 703 519 778 1,003 717 924 1,095 1,287 1,559	84 106 231 206 108 101 108 122 123 106 140 153 113 108 97	NA NA NA NA 532 323 306 376 264 128 197 217 137	NA NA NA NA 464 385 464 564 560 496 720 939	1,194 1,660 2,909 1,980 1,010 723 779 943 827 625 918	Rig Count ^c 2,008 2,486 4,089 4,716 3,658 3,041 3,445 3,499 3,014 2,232
1975 Average 1980 Average 1985 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average	1,554 2,678 1,774 902 622 671 821 703 519 778 1,003 717 924 1,095 1,287 1,559 1,695	106 231 206 108 101 108 122 123 106 140 153 113 108 97	NA NA S32 323 306 376 264 128 197 217 137	NA NA 464 385 464 560 496 720 939	1,660 2,909 1,980 1,010 723 779 943 827 625 918	2,486 4,089 4,716 3,658 3,041 3,445 3,499 3,014 2,232
1980 Average 1985 Average 1990 Average 1991 Average 1996 Average 1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2006 Average 2007 Average	2,678 1,774 902 622 671 821 703 519 778 1,003 7717 924 1,095 1,287 1,559 1,695	231 206 108 101 108 122 123 106 140 153 113 108 97	NA NA 532 323 306 376 264 1197 217 137	NA NA 464 385 464 564 560 496 720 939	2,909 1,980 1,010 723 779 943 827 625 918	4,089 4,716 3,658 3,041 3,445 3,499 3,014 2,232
1985 Average 1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2006 Average	1,774 902 622 671 821 703 519 778 1,003 717 924 1,095 1,287 1,559 1,695	206 108 101 108 122 123 106 140 153 113 108 97	NA 532 323 306 376 264 128 197 217 137	NA 464 385 464 564 560 496 720 939	1,980 1,010 723 779 943 827 625 918	4,716 3,658 3,041 3,445 3,499 3,014 2,232
1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2006 Average 2007 Average	902 622 671 821 703 519 778 1,003 717 924 1,095 1,287 1,559 1,695	108 101 108 122 123 106 140 153 113 108 97	532 323 306 376 264 128 197 217 137 157	464 385 464 564 560 496 720 939	1,010 723 779 943 827 625 918	3,658 3,041 3,445 3,499 3,014 2,232
1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 2001 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2005 Average 2006 Average 2007 Average	622 671 821 703 519 778 1,003 717 924 1,095 1,287 1,559 1,695	101 108 122 123 106 140 153 113 108 97	323 306 376 264 128 197 217 137 157	385 464 564 560 496 720 939	723 779 943 827 625 918	3,041 3,445 3,499 3,014 2,232
1996 Average 1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2006 Average	671 821 703 519 778 1,003 717 924 1,095 1,287 1,559 1,695	108 122 123 106 140 153 113 108 97	306 376 264 128 197 217 137 157	464 564 560 496 720 939	779 943 827 625 918	3,445 3,499 3,014 2,232
1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2006 Average	821 703 519 778 1,003 717 924 1,095 1,287 1,559 1,695	122 123 106 140 153 113 108 97 94	376 264 128 197 217 137 157	564 560 496 720 939	943 827 625 918	3,499 3,014 2,232
1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average	703 519 778 1,003 717 924 1,095 1,287 1,559 1,695	123 106 140 153 113 108 97 94	264 128 197 217 137 157	560 496 720 939	827 625 918	3,014 2,232
1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average	519 778 1,003 717 924 1,095 1,287 1,559 1,695	106 140 153 113 108 97 94	128 197 217 137 157	496 720 939	625 918	2,232
2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2005 Average 2007 Average	778 1,003 717 924 1,095 1,287 1,559 1,695	140 153 113 108 97 94	197 217 137 157	720 939	918	
2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2007 Average	1,003 717 924 1,095 1,287 1,559 1,695	153 113 108 97 94	217 137 157	939		2.692
2002 Average 2003 Average 2004 Average 2005 Average 2007 Average	717 924 1,095 1,287 1,559 1,695	113 108 97 94	137 157		1 156	-,00-
2003 Average 2004 Average 2005 Average 2006 Average	924 1,095 1,287 1,559 1,695	108 97 94	157			2,267
2003 Average 2004 Average 2005 Average 2006 Average	1,095 1,287 1,559 1,695	97 94		691	830	1,830
2005 Average 2006 Average 2007 Average	1,287 1,559 1,695	94	165	872	1,032	1,967
2005 Average 2006 Average 2007 Average	1,559 1,695			1,025	1,192	2,064
2006 Average 2007 Average	1,695	an	194	1,184	1,381	2,222
			274	1,372	1,649	2,364
2008 Average	1 21/	72	297	1,466	1,768	2,388
		65	379	1,491	1,879	2,515
2009 Average	1,046	44	278	801	1,089	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	1,687	24	759	940	1,711	1,968
Average	1,514	31	591	943	1,546	1,854
2011 January	1,686	26	793	909	1,711	2,004
February	1,692	26	801	907	1,718	1,990
March	1,694	26	830	884	1,720	2,044
April	1,762	28	896	885	1,790	2,052
May	1,804	32	948	878	1,836	2,047
June	1,829	34	979	877	1,863	2,069
July	1,865	35	1,014	880	1,900	2,116
August	1,923	35	1,055	894	1,957	2,136
September	1,946	32	1,063	907	1,978	2,115
October	1,982	35	1,077	933	2,017	2,100
November	1,974	37	1,125	880	2,011	2,100
December	1,961	42	1,177	824	2,002	2,131
Average	1,846	32	984	887	1,879	2,075
2012 January	1,961	42	1,208	790	2,003	2,154
February	1,949	42	1,261	723	1,990	2,135
March	1,935	43	1,307	667	1,979	2,143
April	1,917	44	1,329	629	1,961	2,157
May 5-Month Average	1,931 1,938	46 43	1,373 1,296	600 681	1,977 1,982	2,153 2,149
-	*		•		•	,
2011 5-Month Average 2010 5-Month Average	1,729 1.361	27 48	856 481	892 915	1,757 1,409	2,027 1.764

a Rotary rigs in operation are reported weekly. Monthly data are averages of 4or 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-fdcda6Adaad6 fdeda6d4aad6.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

						Wells I	Drilled						
		Explor	atory			Develo	pment			То	tal		T-4-1
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Total Footage Drilled
						Num	nber						Thousand Feet
1973 Total	642	1,067	5,952	7,661	9,525	5,866	4,368	19,759	10,167	6,933	10,320	27,420	138,223
1975 Total	982	1,248	7,129	9,359	15,966	6,879	6,517	29,362	16,948	8,127	13,646	38,721	180,494
1980 Total	1,777	2,099	9,081	12,957	31,182	15,362	11,704	58,248	32,959	17,461	20,785	71,205	316,943
1985 Total	1,680	1,200	8,954	11,834	33,581	13,124	12,257	58,962	35,261	14,324	21,211	70,796	314,409
1990 Total	778	811	3,652	5,241	12,061	10,435	4,593	27,089	12,839	11,246	8,245	32,330	156,052
1995 Total	570	558	2,024	3,152	7,678	7,524	2,790	17,992	8,248	8,082	4,814	21,144	117,171
1996 Total	489	576	1,956	3,021	8,347	8,451	2,934	19,732	8,836	9,027	4,890	22,753	126,365
1997 Total	491	562	2,113	3,166	10,715	10,936	3,761	25,412	11,206	11,498	5,874	28,578	161,281
1998 Total	327	566	1,590	2,483	7,355	11,073	3,171	21,599	7,682	11,639	4,761	24,082	137,218
1999 Total	197	570	1,157	1,924	4,608	11,457	2,393	18,458	4,805	12,027	3,550	20,382	102,849
2000 Total	288	657	1,341	2,286	7,802	16,394	2,805	27,001	8,090	17,051	4,146	29,287	144,439
2001 Total	357	1,052	1,733	3,142	8,531	21,020	2,865	32,416	8,888	22,072	4,598	35,558	180,127
2002 Total	258	844	1,282	2,384	6,517	16,498	2,472	25,487	6,775	17,342	3,754	27,871	145,165
2003 Total	350	997	1,297	2,644	7,779	19,725	2,685	30,189	8,129	20,722	3,982	32,833	177,248
2004 Total	383	1,671	1,350	3,404	8,406	22,515	2,732	33,653	8,789	24,186	4,082	37,057	204,272
2005 Total	539	2,141	1,462	4,142	10,240	26,449	3,191	39,880	10,779	28,590	4,653	44,022	240,313
	646	2,456	1,547	4,649	12,758	30,382	3,659	46,799	13,404	32,838	5,206	51,448	282,764
	806	2,794	1,582	5,182	12,555	29,925	3,396	45,876	13,361	32,719	4,978	51,058	301,453
	892	2,345	1,715	4,952	15,753	29,929	3,713	49,395	16,645	32,274	5,428	54,347	334,442
	612	1,196	1,052	2,860	10,649	17,038	2,500	30,187	11,261	18,234	3,552	33,047	239,491
2010 January	55	88	82	225	918	1,284	169	2,371	973	1,372	251	2,596	18,120
February March April	45 59 49 47	68 79 73 101	66 91 78 87	179 229 200 235	892 1,095 1,198 1,296	1,097 1,231 1,164 1,212	142 220 258 264	2,131 2,546 2,620	937 1,154 1,247 1,343	1,165 1,310 1,237 1,313	208 311 336 351	2,310 2,775 2,820 3,007	16,452 20,344 19,986 21,482
May June July August	61 46 56	97 99 97	92 110 95	250 255 248	1,420 1,415 1,467	1,260 1,443 1,434	309 400 321	2,772 2,989 3,258 3,222	1,481 1,461 1,523	1,357 1,542 1,531	401 510 416	3,239 3,513 3,470	22,883 24,939 25,336
September	56	67	90	213	1,409	1,387	279	3,075	1,465	1,454	369	3,288	23,260
October	72	87	123	282	1,564	1,503	292	3,359	1,636	1,590	415	3,641	26,154
November	65	103	109	277	1,510	1,439	272	3,221	1,575	1,542	381	3,498	25,723
December Total	57	85	70	212	1,402	1,475	258	3,135	1,459	1,560	328	3,347	24,695
	668	1,044	1,093	2,805	15,586	15,929	3,184	34,699	16,254	16,973	4,277	37,504	269,374
2011 January	66	67	82	215	1,514	1,174	235	2,923	1,580	1,241	317	3,138	25,190
February	60	57	57	174	1,279	1,081	189	2,549	1,339	1,138	246	2,723	21,980
March	66	65	65	196	1,581	1,192	263	3,036	1,647	1,257	328	3,232	27,003
April	68	68	62	198	1,593	1,253	248	3,094	1,661	1,321	310	3,292	27,561
May	87	83	90	260	1,720	1,095	323	3,138	1,807	1,178	413	3,398	24,509
June	80	90	73	243	1,839	1,232	324	3,395	1,919	1,322	397	3,638	26,130
July	94	70	116	280	1,918	1,138	277	3,333	2,012	1,208	393	3,613	25,376
August	72	76	81	229	1,851	1,201	334	3,386	1,923	1,277	415	3,615	27,034
September	82	61	83	226	1,706	1,163	270	3,139	1,788	1,224	353	3,365	25,978
October	86	57	110	253	1,670	1,046	342	3,058	1,756	1,103	452	3,311	25,851
November	109	81	100	290	1,844	1,354	338	3,536	1,953	1,435	438	3,826	29,267
December	109	68	92	269	2,215	1,145	338	3,698	2,324	1,213	430	3,967	29,623
Total 2012 January	979 109	843 56	1,011 103	2,833 268	20,730 2,215	14,074 1,151	3,481 338	38,285 3,704	21,709 2,324	14,917 1,207	4,492 441	41,118 3,972	315,502 30,714
February	110 110 111 440	38 29 28 151	98 120 102 423	246 259 241 1,014	2,216 2,217 2,218 8,866	922 919 920 3,912	339 339 340 1,356	3,477 3,475 3,478 14,134	2,324 2,326 2,327 2,329 9,306	960 948 948 4,063	437 459 442 1,779	3,723 3,734 3,719 15,148	30,794 31,394 31,655 124,557
2011 4-Month Total	260	257	266	783	5,967	4,700	935	11,602	6,227	4,957	1,201	12,385	101,734
2010 4-Month Total	208	308	317	833	4,103	4,776	789	9,668	4,311	5,084	1,106	10,501	74,902

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.

Table 5.2 is not updated this month.

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.

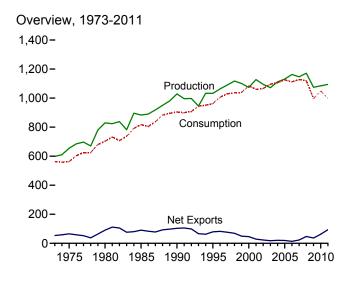
Prior to the March 1985 MER, drilling statistics consisted of

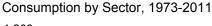
completion data for the above types and classes of wells as reported to the American Petroleum Institute (API) during a given month. Due to time lags between the date of well completion and the date of completion reporting to the API, as-reported well completions proved to be an inaccurate indicator 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.

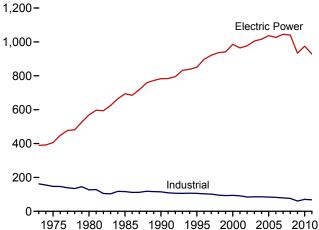
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6. Coal

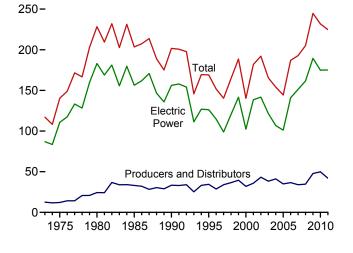
Figure 6.1 Coal (Million Short Tons)



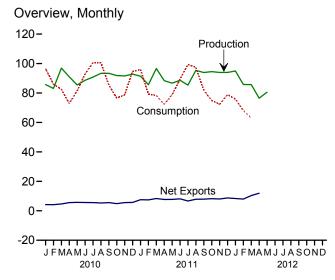




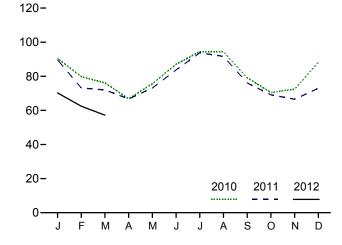
Stocks, End of Year, 1973-2011



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



Electric Power Sector Consumption, Monthly



Electric Power Sector Stocks, End of Month 240-

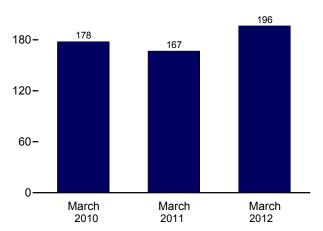


Table 6.1 Coal Overview

(Thousand Short Tons)

Production* Supplied* Imports Exports Net Imports* Changed** for		Losses and	C4I-		Trade		Waste		
9975 Total 654,641 NA 940 66,309 -65,369 32,154 -5,522 9800 Total 829,700 NA 1,194 91,742 -09,548 25,595 10,827 985 Total 883,638 NA 1,952 92,680 -90,727 -27,934 2,796 1990 Total 1,022,076 3,339 2,669 106,804 -103,104 -275 632 995 Total 1,032,974 8,561 9,473 88,547 -79,074 -275 632 995 Total 1,032,974 8,561 9,473 88,547 -79,074 -275 632 996 Total 1,038,955 8,768 8,115 99,473 82,547 -79,074 -275 632 996 Total 1,039,955 Total 1,030,95 8,000 Total 1,073,612 9,089 12,513 58,489 -45,976 -48,309 938 999 Total 1,073,612 9,089 12,513 58,489 -45,976 -48,309 938 1001 Total 1,172,689 10,085 19,787 48,666 -28,879 44,630 938 1000 Total 1,172,689 10,085 19,787 48,666 -28,879 44,630 938 1000 Total 1,174,689 10,165 5,044 43,014 -17,970 -26,659 -4,403 10,001 Total 1,171,099 11,299 27,280 47,998 -20,718 -11,462 6,887 10005 Total 1,113,488 13,352 30,460 49,942 -19,482 -9,702 9,092 1005 Total 1,131,488 13,352 30,460 49,942 -19,482 -9,702 9,092 9,092 1005 Total 1,114,663 14,409 36,246 49,647 -13,401 42,642 8,824 1000 Total 1,174,809 14,466 34,209 81,519 -47,311 12,534 5,748 1000 Total 1,174,809 14,466 34,209 81,519 -47,311 12,534 5,748 1000 Total 1,174,809 14,476 33,247 10,494 11,494	Consumptio	Unaccounted for ^f	Stock Change ^{d,e}	Net Imports ^c	Exports	Imports	Coal Supplied ^b	Production ^a	
975 Total 654,641 NA 940 66,309 -65,369 32,154 -5,522 980 Total 82,700 NA 1,194 91,742 -90,548 25,595 10,827 985 Total 883,638 NA 1,952 92,680 -90,727 -27,934 2,796 990 Total 1,022,076 3,339 2,699 106,804 -103,104 2,756 632 995 Total 1,032,974 8,561 9,473 88,547 -73,074 -275 632 995 Total 1,032,974 8,661 9,473 88,547 -73,074 -275 632 996 Total 1,036,956 8,78 8,115 99,473 82,547 -73,074 -275 632 997 Total 1,099,936 8,689 7,724 83,648 -76,032 -11,123 3,413 997 Total 1,099,936 8,689 7,724 83,648 -76,032 -11,123 3,413 997 Total 1,099,356 8,689 7,724 83,648 -76,032 -11,123 3,413 997 Total 1,073,612 9,889 12,513 58,489 -45,976 48,309 938 000 Total 1,073,612 9,889 12,513 58,489 -45,976 48,309 938 000 Total 1,177,689 10,085 19,787 48,666 -28,879 6 44,030 938 000 Total 1,127,689 10,085 19,787 48,666 -28,879 6 44,630 9,303 000 Total 1,171,783 10,016 25,044 43,014 -17,970 -26,659 4,403 000 Total 1,112,099 11,299 27,280 47,998 -20,718 -11,462 6,887 0005 Total 1,113,488 13,352 30,460 49,942 -19,482 -9,702 9,092 006 Total 1,162,750 14,409 36,246 49,547 -13,401 42,642 8,824 006 Total 1,177,482 11,665 2,644 49,647 -13,401 42,642 8,824 006 Total 1,177,482 11,666 2,688 91,639 -47,313 12,356 5,748 008 Total 1,177,482 11,666 2,688 91,639 -47,313 12,356 5,748 008 Total 1,177,482 11,666 2,688 91,639 -47,313 12,356 5,748 008 Total 1,177,482 11,666 2,688 91,639 -47,315 12,356 5,748 008 Total 1,177,899 10,909 1	562,584	R -17.878	R 402	-53.460	53.587	127	NA	598.568	973 Total
980 Total	562,640								
985 Total	702,730								
990 Total 1,029,076 3,339 2,699 105,8004 -103,1004 26,542 -1,730 995 Total 1,03,2974 8,561 9,473 88,547 -79,074 -275 632 996 Total 1,063,856 8,778 8,115 90,473 82,357 -17,456 1,411 999 Total 1,089,932 8,096 7,487 83,545 -76,058 1-1,253 3,678 998 Total 1,107,3515 8,690 8,724 78,048 69,324 24,228 -4,430 998 Total 1,107,3612 9,089 12,513 58,489 -45,976 -48,309 938 100 Total 1,107,3612 9,089 12,513 58,489 -45,976 -48,309 938 100 Total 1,172,589 10,085 19,787 48,666 -28,877 48,009 938 100 Total 1,172,589 10,085 19,787 48,666 -28,877 48,009 938 10,011 total 1,127,689 10,085 19,787 48,666 -28,877 48,009 938 10,011 total 1,127,698 10,085 19,787 48,666 -28,877 41,630 938 10,011 total 1,127,698 10,085 19,787 48,666 12,887 41,630 938 10,011 total 1,172,698 10,085 10,085 10,074 10	818,049								
995 Total 1,032,974 8,561 9,473 88,547 7-90,74 2-75 632 996 Total 1,063,856 8,778 8,115 90,473 82,357 -17,456 1,411 997 Total 1,089,932 8,096 7,487 83,545 -76,058 -11,253 3,678 997 Total 1,108,932 8,096 7,487 83,545 -76,058 -11,253 3,678 998 Total 1,117,535 8,690 8,724 78,048 69,324 24,228 -4,430 999 Total 1,100,431 8,683 9,089 55,476 49,387 23,988 2,906 900 Total 1,175,612 9,089 10,855 19,787 48,666 -28,879 41,630 7,120 902 Total 1,127,689 10,085 19,787 48,666 -28,879 41,630 7,120 902 Total 1,194,283 9,052 16,875 39,601 -22,726 10,215 4,040 903 Total 1,071,753 10,016 25,044 43,014 -17,970 -26,659 -4,403 903 Total 1,071,753 10,016 25,044 43,014 -17,970 -26,659 -4,403 903 Total 1,114,999 11,289 27,280 44,984 -19,482 -19,482 6,887 905 105 Total 1,131,489 11,350 30,466 49,427 -19,482 6,887 905 101 Total 1,114,6635 14,076 36,547 89,163 -22,216 40,72 9,092 905 101 Total 1,171,809 14,146 35 44,076 34,084 81,519 -47,311 12,354 5,740 905 Total 1,171,809 14,146 34,08 81,519 -47,311 12,354 5,740 905 Total 1,174,923 13,666 22,639 59,097 89,000 100 10 1,074,923 13,666 22,639 59,097 89,000 1,071 1,812 7,358 -4,655 8,812 7 8,2870 908 1,239 5,386 41,46 87,306 81,154 90,960 1,071 1,812 7,358 -5,545 11,519 82,176 March 90,960 1,071 1,812 7,366 -5,866 8,298 8,8766 8,231 9,389 1,087 8,389 1,087 8,389	904,498								
998 Total 1,063,856 8,778 8,115 90,473 8-2,257 1-74,56 1,411 9997 Total 1,089,932 8,096 7,487 83,545 -76,058 1-12,53 3,678 998 Total 1,117,535 8,690 8,724 78,048 6-89,324 24,228 4,430 999 Total 1,110,431 8,683 9,089 55,476 49,387 23,988 2-2,906 100 Total 1,073,612 9,089 12,513 554,889 45,976 48,309 938 100 Total 1,127,689 10,085 19,787 48,666 -28,879 41,630 7,120 100 Total 1,127,689 10,085 19,787 48,666 -28,879 41,630 7,120 100 Total 1,094,283 9,052 16,675 39,601 22,726 10,215 4,040 103 Total 1,094,283 9,052 16,675 39,601 22,726 10,215 4,040 103 Total 1,171,099 11,299 27,280 47,998 20,718 11,462 6,887 100 Total 1,112,099 11,299 27,280 47,998 20,718 11,462 6,887 100 Total 1,112,099 11,299 27,280 47,998 20,718 11,462 6,887 100 Total 1,162,750 14,409 36,246 49,647 13,401 42,642 8,824 100 Total 1,146,635 14,409 36,246 49,647 13,401 42,642 8,824 100 Total 1,171,809 14,146 34,206 815,519 47,311 12,354 5,740 100 Total 1,171,809 14,146 34,206 815,519 47,311 12,354 5,740 100 Total 1,171,809 14,146 34,206 815,519 47,311 12,354 5,740 100 Total 1,174,923 13,666 22,639 59,097 36,455 8,8127 8,230 14,985 110 January 85,711 1,187 1,665 5,866 4,202 8,106,955 8,310 8,681 14,985 110 January 85,711 1,187 1,665 5,866 4,202 8,106,955 8,310 8,681 14,985 110 January 85,711 1,187 1,655 5,866 4,202 8,106,955 8,310 3,686 11,985 11,999 6,564 4,655 8,127 8,2370 4,949 1,192 1,899 6,564 4,655 8,127 8,2370 4,949 1,192 1,899 6,564 4,655 8,127 8,2370 4,2	962,104								
197 Total	1,006,321								
1989 Total	1,029,544								
1999 Total 1,100,431 8,683 9,089 58,476 49,387 23,988 2-9,066 100 Total 1,073,612 9,089 12,513 58,489 445,976 48,309 938 101 Total 1,127,689 10,085 19,787 48,666 28,879 41,630 7,120 102 Total 1,094,283 9,052 16,875 39,601 22,726 10,215 4,040 103 Total 1,071,753 10,016 25,044 43,014 17,970 2-26,659 4,403 104 Total 1,112,099 11,299 27,280 47,998 2-02,718 1-14,62 6,887 105 Total 1,131,498 13,352 30,460 49,942 19,482 9,702 9,092 105 Total 1,162,750 14,409 36,246 49,647 1-13,401 42,642 8,824 107 Total 1,146,635 14,076 36,347 59,163 2-2,816 5,812 4,085 108 Total 1,171,809 14,146 34,208 81,519 4-7,311 12,354 5,740 109 Total 1,174,803 13,666 22,639 59,097 36,458 39,668 14,985 109 Total 1,074,923 13,666 22,639 59,097 36,458 39,668 14,985 109 Total 1,074,923 13,666 22,639 59,097 36,458 39,668 14,985 109 January 85,711 1,187 1,665 5,866 4,202 8-10,695 8-3,103 84,009 Total 1,074,923 13,666 22,639 59,097 36,458 39,668 14,985 109 January 85,711 1,187 1,665 5,866 4,202 8-10,695 8-3,103 84,009 Total 1,074,923 13,666 12,39 5,386 4,146 8-7,306 8-1,154 March 96,904 1,192 1,899 6,554 4,655 8-1,277 8-2,870 March 99,960 1,071 1,812 7,358 5,565 11,519 8-2,776 May 85,401 1,138 1,475 7,220 5,745 2,723 8-3,500 June 88,621 1,219 1,771 7,387 5,616 9,407 8-647 July 90,795 1,273 1,390 6,928 5,539 8-8,766 8-2,316 September 93,360 1,102 1,588 7,145 5,555 8-8,117 8-1,591 8-2,176 May 83,350 1,261 1,702 7,001 5,299 8-8,766 8-2,316 September 93,360 1,102 1,588 7,145 5,555 8-8,117 8-1,591 8-2,316 September 93,360 1,102 1,588 7,145 5,555 8-8,117 8-1,591 7 1,503 7,232 5,569 8-9,117 8-1,591 7 1,503 7,232 5,569 8-9,117 8-1,591 7 1,503 7,232 5,569 8-9,117 8-1,591 7 1,503 7,232 5,569 8-9,117 8-1,591 7 1,503 7,232 5,569 8-9,117 8-1,591 7 1,503 7,232 5,569 8-9,117 8-1,591 7 1,503 7,232 5,569 8-9,117 8-1,591 7 1,503 7,232 5,569 8-9,117 8-1,591 7 1,503 7,232 5,569 8-9,117 8-1,591 7 1,503 7,232 5,569 8-9,117 8-1,591 7 1,503 7 1,503 7 1,503 8-1,503 8-1,503 8-1,503 8-1,503 8-1,503 8-1,503 8-1,503 8-1,503 8-1,503 8-1,503 8-1,503 8-1,503 8-1,503 8-1,503 8-1,503	1,037,103								
100 Total	1,038,647								
100 Total	1,036,047								
1002 Total									
103 Total	1,060,146								
1004 Total	1,066,355								JU2 Total
1005 Total	1,094,861								
106 Total	1,107,255								
107 Total	1,125,978								
108 Total	1,112,292								
109 Total	1,127,998				59,163			1,146,635	
10 January	1,120,548	5,740	12,354	-47,311	81,519	34,208	14,146	1,171,809	008 Total
February	997,478	14,985	39,668	-36,458	59,097	22,639	13,666	1,074,923	009 Total
March 96,904 1,192 1,899 6,554 -4,655 R 8,127 R 2,870 April 90,960 1,071 1,812 7,358 -5,545 11,519 R 2,176 May 85,401 1,138 1,475 7,220 -5,745 2,723 R -3,500 July 90,795 1,273 1,390 6,928 -5,539 R -15,499 R 1,446 August 93,350 1,261 1,702 7,001 -5,299 R -8,766 R -2,316 September 93,360 1,102 1,588 7,145 -5,556 R 5,111 R -1,591 October 91,831 982 1,775 6,623 -4,849 R 11,463 R -90 November 91,558 1,121 1,473 7,015 -5,542 R 8,878 R -437 December 92,791 1,197 1,563 7,232 -5,669 R -9,187 R 2,925 Total 1,084,368 13,651 19,353 81,716 -62,363 <td>R 96,494</td> <td></td> <td>R -10,695</td> <td>-4,202</td> <td>5,866</td> <td>1,665</td> <td>1,187</td> <td>85,711</td> <td>10 January</td>	R 96,494		R -10,695	-4,202	5,866	1,665	1,187	85,711	10 January
April 90,960 1,071 1,812 7,358 -5,545 11,519 R 2,176 May 85,401 1,138 1,475 7,220 -5,745 2,723 R -3,500 June 88,621 1,219 1,771 7,387 -5,616 -9,407 R 647 July 90,795 1,273 1,390 6,928 -5,539 R -15,499 R 1,446 August 93,350 1,261 1,702 7,001 -5,299 R -8,766 R -2,316 September 93,360 1,102 1,588 7,145 -5,556 R 5,111 R -1,591 October 91,838 1,121 1,473 7,015 -5,542 R 8,878 R -437 November 91,558 1,127 1,563 7,232 -5,669 R -9,187 R 2,925 Total 1,084,368 13,651 19,353 81,716 -62,363 R -1,1828 R 949 February 95,618 1,030 843 8,275 -7,432	R 86,001	^R 1,154	^R -7,306	-4,146	5,386	1,239	908	83,087	February
April 90,960 1,071 1,812 7,358 -5,545 11,519 R 2,176 May 85,401 1,138 1,475 7,220 -5,745 2,723 R -3,500 June 88,621 1,219 1,771 7,387 -5,616 -9,407 R 647 July 90,795 1,273 1,390 6,928 -5,539 R -15,499 R 1,446 August 93,350 1,261 1,702 7,001 -5,299 R -8,766 R -2,316 September 93,360 1,102 1,588 7,145 -5,556 R 5,111 R -1,591 October 91,831 982 1,775 6,623 4,849 R 11,463 R -90 November 91,558 1,121 1,473 7,015 -5,542 R 8,878 R -437 December 92,791 1,197 1,563 7,232 -5,669 R -9,187 R 2,925 Total 1,084,368 13,651 19,353 81,716 -62,363	R 82,444	R 2,870	R 8,127	-4,655	6,554	1,899	1,192	96,904	March
May 85,401 1,138 1,475 7,220 -5,745 2,723 R-3,500 June 88,621 1,219 1,771 7,387 -5,616 -9,407 R-647 July 90,795 1,273 1,390 6,928 -5,539 R-15,499 R1,446 August 93,350 1,161 1,702 7,001 -5,299 R-8,766 R-2,316 September 93,350 1,102 1,588 7,145 -5,556 R-5,111 R-1,591 October 91,831 982 1,775 6,623 -4,849 R1,463 R-90 November 91,558 1,121 1,473 7,015 -5,542 R-8,878 R-437 December 92,791 1,197 1,563 7,232 -5,669 R-9,187 R2,925 Total 1,084,368 13,651 19,353 81,716 -62,363 R-13,039 R 182 11 January 91,398 1,187 1,014 8,509 -7,496	R 72,790	R 2,176	11,519	-5,545	7,358	1,812	1,071	90,960	April
June 88,621 1,219 1,771 7,387 -5,616 -9,407 R 647 July 90,795 1,273 1,390 6,928 -5,539 R-15,499 R 1,446 August 93,350 1,261 1,702 7,001 -5,299 R-8,766 R-2,316 September 93,360 1,102 1,588 7,145 -5,556 R 5,111 R-1,591 October 91,831 982 1,775 6,623 -4,849 R11,463 R-90 November 91,558 1,121 1,473 7,015 -5,542 R 8,878 R-437 December 92,791 1,197 1,563 7,232 -5,669 R-9,187 R 2,925 Total 1,084,368 13,651 19,353 81,716 -62,363 R-13,039 R 182 #11 January 91,398 1,187 1,014 8,509 -7,496 R-11,828 R 949 February 85,618 1,030 843 8,275 -7,432	R 81,570	R -3.500	2.723	-5.745	7.220	1,475	1,138	85.401	
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April 76,449 NA R 623 R 12,529 R - 11,905 NA NA NA May 80,542 NA NA NA NA NA NA NA 5-Month Total 423,395 NA NA NA NA NA NA NA	R 62,971	R 2,613	R 10,595				R 837	R 85,698	
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5-Month Total 423,395 NA NA NA NA NA NA	NA								
	NA								
J11 5-Month Total 448,611 5,046 5,830 44,502 -38,672 -3.807 14.041	404,752	14,041	-3,807	-38,672	44,502	5,830	5,046	448,611	011 5-Month Total

^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 days et coal (including line coal, coal obtained from a feitise bailt of sturry 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."
 Net imports equal imports minus exports. A minus sign indicates exports are expected then imports.

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

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. 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 returnalize. • Coorphile courses in 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 available data beginning in 1973.

Sources: See end of section.

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

					End-l	Jse Sector	s					
			Commerci	al			Industrial					
	Resi-				Coke	O	ther Industri	al		Trans-	Electric Power	
	dential	CHPa	Otherb	Total	Plants	CHPC	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1973 Total	4,113	(⁹)	7,004	7,004	94,101	(h)	68,038	68,038	162,139	116	389,212	562,584
975 Total	2,823	Ìβĺ	6,587	6,587	83,598	(h)	63,646	63,646	147,244	24	405,962	562,640
980 Total	1,355	(g)	5,097	5,097	66,657	(h)	60,347	60,347	127,004	(h)	569,274	702,730
985 Total	1,711	(g)	6,068	6,068	41,056	(h)	75,372	75,372	116,429	(h)	693,841	818,049
990 Total	1,345	1,191	4,189	5,379	38,877	27,781	48,549	76,330	115,207	(h)	782,567	904,498
995 Total	755	1,419	3,633	5,052	33,011	29,363	43,693	73,055	106,067	(h)	850,230	962,104
996 Total	721	1,660	3,625	5,285	31,706	29,434	42,254	71,689	103,395	(")	896,921	1,006,321
997 Total	711	1,738	4,015	5,752	30,203	29,853	41,661	71,515	101,718	(")	921,364	1,029,544
998 Total	534 585	1,443 1,490	2,879 2,803	4,322 4,293	28,189 28,108	28,553	38,887	67,439 64,738	95,628 92,846	{ ' ' }	936,619	1,037,103
999 Total	454	1,490	2,003	3,673	28,939	27,763 28,031	36,975 37,177	65,208	94,147	\ h \	940,922 985,821	1,038,647 1,084,095
001 Total	481	1,448	2,120	3,888	26,939	25,755	39,514	65,268	91,344	}h {	964,433	1,060,146
2002 Total	533	1,405	2,506	3,912	23,656	26,232	34,515	60,747	84,403	}h {	977,507	1,066,355
2003 Total	551	1,816	1,869	3,685	24,248	24,846	36,415	61,261	85,509	}h{	1,005,116	1,094,861
2004 Total	512	1,917	2,693	4,610	23,670	26,613	35,582	62,195	85,865	}h {	1,016,268	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)	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
010 January	43	193	156	349	1,472	2,094	R 2,084	R 4,178	R 5,650	(h) (h)	90,452	R 96,494
February	37	167	136	303	1,584	1,978	R 2,215	R 4,193	R 5,777	('') (h)	79,884	R 86,001
March	33	149	121	271	1,801	2,124	R 2,106	R 4,230	R 6,030	('') (h)	76,110	R 82,444
April	21	117	54	171	1,786	2,220	R 1,749	R 3,969	R 5,755	(ii)	66,842	R 72,790
May	21 24	118 135	55 62	173 197	1,794 1,772	2,010 1,898	^R 1,975 ^R 2,061	^R 3,985 ^R 3,959	^R 5,779 ^R 5,732	(n)	75,597 87,030	^R 81,570 ^R 92,983
June July	24	142	48	190	1,772	2,122	R 1,944	R 4,066	R 5,849	(h)	94,519	R 100,582
August	25	152	52	203	1,703	2,122	R 1.909	R 4,103	R 5.917	} h {	94,247	R 100,393
September	22	133	45	178	1,894	1,941	R 2,174	R 4,115	R 6,010	} h ⟨	79,176	R 85,386
October	26	121	86	207	1,731	1.958	R 2,178	R 4,136	R 5.866	}h {	70,492	R 76,591
November	27	128	90	218	1,787	1,854	R 2,297	R 4,151	R 5,938	}h {	72,514	R 78,697
December	35	165	116	281	1,874	2,246	R 1,957	R 4,203	R 6,077	λh Ś	88.189	R 94,582
Total	339	1,720	1,022	2,742	21,092	24,638	R 24,650	R 49,289	R 70,381	(h)	975,052	R 1,048,514
2011 January	40	178	144	322	1,746	2,320	R 1,859	R 4,178	R 5,924	(h)	89,682	R 95,968
February	37	165	133	298	1,623	2,044	R 2,108	R 4,152	R 5,775	(h) (h)	73,156	R 79,266
March	35	158	127	285	1,819	2,088	R 2,091	R 4,179	R 5,998	(n) (h)	72,009	R 78,327
April	23	124	63	187	1,668	1,767	R 1,930	R 3,697	R 5,365	(") (h)	66,741	R 72,316
May	24	128	65	193	1,878	2,126	R 1,554	R 3,680	R 5,558	(h)	73,100	R 78,874
June	23 20	124 134	63 30	187 165	1,846 1.670	2,056	^R 1,628 ^R 1,518	^R 3,684 ^R 3,726	^R 5,530 ^R 5.396	('')	83,700 93.736	^R 89,440 ^R 99,317
July	19	134 124	28	165 152	1,670	2,208 2,182	** 1,518 R 1,541	R 3,726	R 5,587	(h)	93,736	R 97,425
August September	18	124	26 27	149	1,874	2,102	R 1,644	R 3,743	R 5,618	(n)	76,131	R 81,916
October	20	116	48	164	1,784	2,100	R 1,765	R 3,845	R 5,629	} h {	69,109	R 74,923
November	22	123	51	174	1,772	1,835	R 1.995	R 3,831	R 5.603	} h {	66,557	R 72,355
December	24	138	57	195	1,891	1,927	R 1,967	R 3,894	R 5,784	}h {	72,971	R 78,975
Total	305	1,633	838	2,471	21,434	24,733	R 21,601	R 46,334	R 67,768	(h)	928,558	R 999,103
012 January	R 27	154	R 68	R 222	R 1,701	2,102	R 1,587	R 3,690	R 5,390	(h)	70,231	R 75,871
February	R 24	137	R 60	R 197	R 1,687	1,890	R 1,811	R 3,701	R 5,388	(h (62,450	R 68,060
March	23	131	57	188	1,895	1,921	1,732	3,653	5,548	(h)	57,211	62,971
3-Month Total	75	422	185	607	5,283	5,914	5,130	11,044	16,327	(h)	189,893	206,902
011 3-Month Total 010 3-Month Total	112 114	500 509	404 413	905 923	5,188 4,857	6,451 6,195	6,058 6,405	12,510 12,600	17,697 17,457	(234,847 246,445	253,561 264,939

a Commercial combined-heat-and-power (CHP) and a small number of 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 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 CHP."

CHP."

^e The electric power sector comprises electricity-only and combined-heat-

and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

f Through 1988, data are for 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."

h 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 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 6.3 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
973 Year	12.530	290	6.998	10.370	17.368	17.658	86.967	117.15
975 Year	12,108	233	8,797	8,529	17,326	17,559	110,724	140,39
980 Year	24,379	NA	9.067	11.951	21,018	21,018	183,010	228.40
985 Year	33,133	NA	3,420	10,438	13.857	13,857	156,376	203.36
990 Year	33,418	NA	3,329	8,716	12,044	12,044	156,166	201,62
95 Year	34,444	NA	2,632	5,702	8,334	8,334	126,304	169.08
96 Year	28,648	NA	2,667	5,688	8,355	8,355	114,623	151,62
997 Year	33,973	NA	1,978	5,597	7,576	7,576	98,826	140,37
998 Year	36,530	NA	2,026	5,545	7,571	7,571	120,501	164,60
999 Year	39,475	NA	1,943	5,569	7,511	7,511	c 141,604	188,59
000 Year	31,905	NA	1,494	4,587	6,081	6,081	102,296	140,28
001 Year	35,900	NA	1,510	6,006	7,516	7,516	138,496	181,91
002 Year	43,257	NA	1,364	5,792	7,156	7,156	141,714	192,12
003 Year	38,277	NA	905	4,718	5,623	5,623	121,567	165,46
004 Year	41,151	NA	1,344	4,842	6.186	6,186	106,669	154,00
005 Year	34,971	NA	2,615	5,582	8,196	8,196	101,137	144,30
006 Year	36,548	NA	2,928	6,506	9.434	9,434	140,964	186,94
007 Year	33,977	NA	1,936	5,624	7,560	7,560	151,221	192,75
008 Year	34,688	498	2,331	6,007	8,338	8,836	161,589	205,11
09 Year	47,718	529	1,957	5,109	7,066	7,595	189,467	244,78
010 January	48,854	510	1,832	^R 4,798	^R 6,630	^R 7,140	178,091	R 234,08
February	49,069	490	1,708	^R 4,486	^R 6,194	^R 6,684	171,026	R 226,77
March	50,936	471	1,583	R 4,175	^R 5,758	R 6,229	177,742	R 234,90
April	50,761	482	1,715	R 4,207	R 5,922	R 6,404	189,260	R 246,42
May	50,900	494	1,846	R 4,239	R 6,086	R 6,579	191,669	R 249,14
June	51,497	505	1,978	R 4,272	R 6,250	R 6,755	181,490	R 239,74
July	47,935	509	1,948	R 4,345	R 6,294	R 6,803	169,504	R 224,24
August	48,638	513	1,918	R 4,419	R 6.337	^R 6,851	159,987	R 215,47
September	49,913	517	1,889	R 4.492	R 6.381	R 6.899	163,776	R 220.58
October	49,430	529	1,901	R 4.503	R 6.404	R 6,933	175.686	R 232.05
November	50,571	541	1,913	R 4,514	R 6,428	^R 6,968	183,389	R 240,92
December	49,820	552	1,925	R 4,525	R 6,451	R 7,003	174,917	R 231,74
011 January	48,295	536	1,937	R 4,305	^R 6,241	R 6,777	164,840	R 219,91
February	45,750	520	1,948	^R 4,084	R 6,032	^R 6,552	161,439	R 213,74
March	44,336	503	1,959	R 3,864	R 5,823	R 6,326	166,737	R 217,39
April	45,585	500	1,958	R 3,975	^R 5,933	^R 6,433	173,999	R 226,01
May	46,775	497	1,957	R 4,086	R 6,042	R 6,539	174,619	R 227,93
June	45,398	494	1,956	R 4,196	R 6,152	R 6,646	165,707	R 217,75
July	46,926	498	2,082	R 4,217	R 6,300	R 6,798	147,967	R 201,69
August	44,445	502	2,221	R 4,238	R 6,459	^R 6,961	139,225	R 190,63
September	43,763	506	2,405	R 4,259	R 6,664	R 7,170	144,438	R 195,37
October	44,415	533	2,473	R 4,330	R 6,803	^R 7,336	156,906	R 208,65
November	42,971	560	2,541	R 4,400	^R 6,941	R 7,502	168,354	R 218,82
December	41,917	588	2,610	R 4,471	R 7,080	^R 7,668	175,100	R 224,68
012 January	F 38,444	^R 571	R 2,507	R 4,249	^R 6,756	R 7,327	181,621	R 227,39
February	F 39,975	^R 554	R 2,403	R 4,028	R 6,432	R 6,986	186,958	R 233,91
March	F 41,478	537	2,300	3,807	6,108	6,645	196,391	244,51

^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 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 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 sounding and coarsonable sources in the 50 States and the District of Columbia of Coarsonable sources.

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.

plants only.

b 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.

^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/emeu/steo/pub/contents.html.

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, Short-Term Integrated Forecasting System (STIFS).

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."

1998–2007: 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.

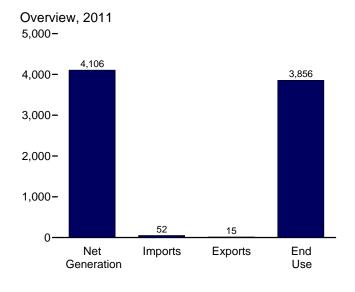
Electric Power

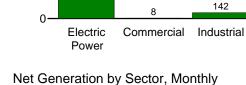
Table 7.5.

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7. Electricity

Figure 7.1 Electricity Overview (Billion Kilowatthours)





Net Generation, 2011

3,955

5,000-

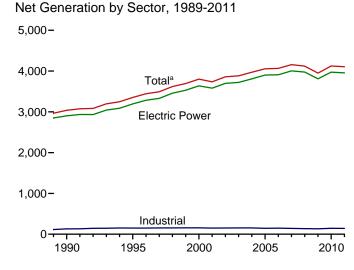
4,000-

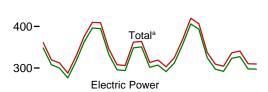
3,000-

2,000-

1,000-

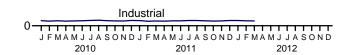
500-





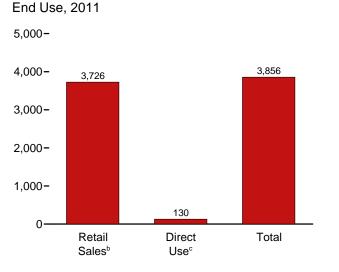
100-

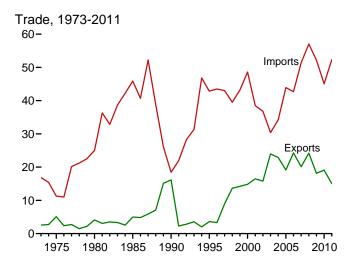
200-



4,106

Total





a Includes commercial sector.
 b Electricity retail sales to ultimate customers reported by electric utili-

ties and other energy service providers.

^c See "Direct Use" in Glossary. Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Source: Table 7.1.

Table 7.1 Electricity Overview

(Billion Kilowatthours)

1973 Total	Electric Power Sector ^a	Com- mercial	Indus-					T&D Lossese			
		Sectorb	trial Sector ^c	Total	Importsd	Exports ^d	Net Imports ^d	and Unaccounted for ^f	Retail Sales	Direct Use ^h	Total
	1,861	NA	3	1,864	17	3	14	165	1,713	NA	1,713
1975 Total	1,918	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	20	31	298	3,765	126	3,890
2008 Total	3.974	8	137	4,119	57	24	33	287	3,733	132	3.865
2009 Total	3,810	8	132	3,950	52	18	34	261	3,597	127	3,724
2003 TOtal	3,010	·	132	3,330	32	10	34	201	3,337	.27	3,124
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	277
May	316	1	12	328	3	2	1	35	284	E 11	294
June	363	1	12	376	4	2	2	36	331	E 11	342
July	396	1	13	410	4	1	3	32	369	E 12	381
August	395	1	13	409	4	2	2	27	372	E 12	384
September	333	1	12	346	3	2	1	8	328	E 11	339
October	296	1	12	308	3	2	(s)	10	288	E 11	298
November	294	1	11	306	3	2	`1	21	275	E 11	285
December	349	1	13	362	4	1	3	34	319	E 12	331
Total	3,972	9	144	4,125	45	19	26	265	3,754	132	3,886
						_				E	
2011 January	351	1	12	364	4	2	3	23	333	E 11	344
February	302	1	11	313	4	2	2	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	1	12	325	5	1	4	32	286	E 11	297
June	356	1	12	368	4	1	3	34	327	E 11	338
July	406	1	13	419	6	1	5	44	369	E 12	380
August	393	1	13	406	6	1	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	i	12	310	4	i	3	16	286	E 11	297
March	297	i	12	310	4	1	3	20	282	E 11	293
3-Month Total	923	ź	36	961	12	3	9	57	879	E 33	912
2011 3-Month Total 2010 3-Month Total	959 956	2 2	35 35	996 993	12 14	5 4	7 11	53 49	919 923	E 32 E 32	950 955

^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

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.

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

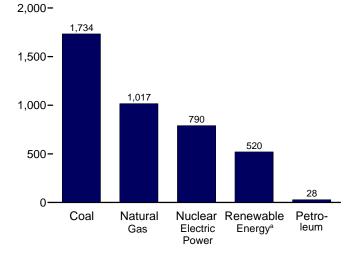
Sources: See end of section.

Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

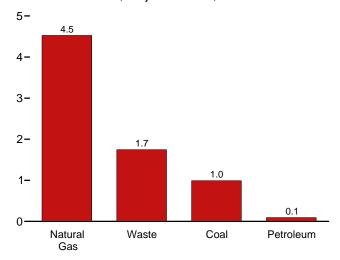
Total (All Sectors), Major Sources, 1989-2011

2,500-Coal 2,000-1,500 -Natural Gas 1,000-**Nuclear Electric Power** 500 Renewable Energy^a Petroleum 1990 1995 2000 2005 2010

Total (All Sectors), Major Sources, 2011

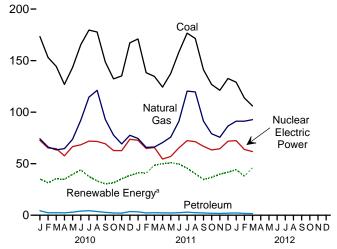


Commercial Sector, Major Sources, 2011

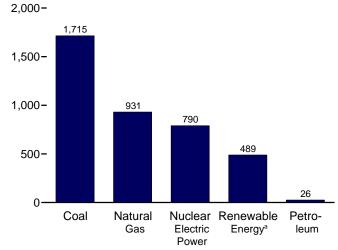


 $[\]ensuremath{^{\mathrm{a}}}$ Conventional hydroelectric power, wood, waste, geothermal, solar/PV, and wind.

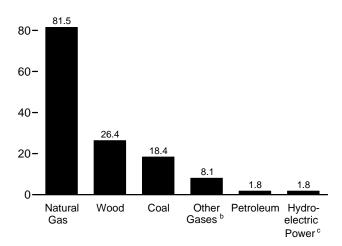
Total (All Sectors), Major Sources, Monthly



Electric Power Sector, Major Sources, 2011



Industrial Sector, Major Sources, 2011



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

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	-uels						Renewabl	e Energy			
							Conven-	Bio	mass				
					Nuclear	Hydro- electric	tional Hvdro-						
	Coala	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Electric Power	Pumped Storage ^e	electric Power ^f	Wood ^g	Wasteh	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total	847,651	314,343	340,858	NA	83,479	(f)	275,431	130	198	1,966	NA	NA	1,864,057
1975 Total	852,786	289,095	299,778	NA	172,505	\f\	303,153	18	174	3,246	NA	NA	1,920,755
1980 Total		245,994	346,240	NA	251,116	{ f }	279,182	275	158	5,073	NA	NA	2,289,600
1985 Total 1990 Total ^k		100,202 126,460	291,946 372,765	NA 10,383	383,691 576,862	-3,508	284,311 292,866	743 32,522	13,260	9,325 15,434	11 367	2,789	2,473,002 3,037,827
1995 Total		74,554	496,058	13,870	673,402	-2,725	310,833	36,521	20,405	13,378	497	3.164	3,353,487
1996 Total	1,795,196	81,411	455,056	14,356	674,729	-3,088	347,162	36,800	20,911	14,329	521	3,234	3,444,188
1997 Total		92,555	479,399	13,351	628,644	-4,040	356,453	36,948	21,709	14,726	511	3,288	3,492,172
1998 Total 1999 Total	1,873,516 1.881.087	128,800 118.061	531,257 556,396	13,492 14,126	673,702 728,254	-4,467 -6.097	323,336 319,536	36,338 37.041	22,448 22,572	14,774 14,827	502 495	3,026 4,488	3,620,295 3,694,810
2000 Total		111,221	601,038	13,955	753,893	-5,539	275,573	37,595	23,131	14,093	493	5,593	3,802,105
2001 Total	1,903,956	124,880	639,129	9,039	768,826	-8,823	216,961	35,200	14,548	13,741	543	6,737	3,736,644
2002 Total		94,567 119,406	691,006 649,908	11,463 15,600	780,064 763,733	-8,743 -8,535	264,329 275,806	38,665 37,529	15,044 15,812	14,491 14,424	555 534	10,354 11,187	3,858,452
2003 Total 2004 Total		121,145	710,100	15,600	763,733 788,528	-8,333 -8,488	268,417	37,529	15,812	14,424	575	11,187	3,883,185 3,970,555
2005 Total	2,012,873	122,225	760,960	13,464	781,986	-6,558	270,321	38,856	15,420	14,692	550	17,811	4,055,423
2006 Total		64,166	816,441	14,177	787,219	-6,558	289,246	38,762	16,099	14,568	508	26,589	4,064,702
2007 Total 2008 Total		65,739 46,243	896,590 882,981	13,453 11,707	806,425 806,208	-6,896 -6,288	247,510 254.831	39,014 37,300	16,525 17,734	14,637 14,840	612 864	34,450 55,363	4,156,745 4,119,388
2009 Total		38,937	920,979	10,632	798,855	-4,627	273,445	36,050	18,443	15,009	891	73,886	3,950,331
2010 January	173,320	4,348	74,173	909	72,569	-565	22,383	3,126	1,503	1,312	10	6,854	360,957
February	153,044	2,373	66,198	825	65,245	-351	20,590	2,895	1,382	1,159	33	5,432	319,735
March April	144,406 126,952	2,470 2,286	63,431 64,644	1,010 943	64,635 57,611	-325 -335	20,886 19,097	3,090 2,932	1,592 1,558	1,307 1,240	76 112	8,589 9,764	312,168 287,800
May	143,272	2,994	73,665	1,017	66,658	-441	25,079	2,893	1,577	1,311	153	8,698	327,936
June	165,491	3,989	92,268	964	68,301	-472	29,854	3,094	1,627	1,264	176	8,049	375,759
July	179,600 177,745	4,411 3,575	114,624 121,151	963 1,061	71,913 71,574	-557 -600	24,517 20,119	3,308 3,319	1,640 1,642	1,274 1,297	161 156	6,724 6,686	409,725 408,884
August September	148.746	2,783	93.004	954	69.371	-421	17.265	3,319	1,575	1,257	138	7.106	346.045
October	132,270	2,228	77,738	808	62,751	-438	17,683	3,003	1,547	1,222	75	7,944	307,921
November	135,185	2,079	69,227	907	62,655	-467	19,562	3,080	1,625	1,252	77	9,748	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	170,983	3,268	74,458	910	72,743	-426	26,148	3,258	1,503	1,478	31	8,659	363,855
February March	138,295 134,717	2,201 2,454	65,852 66,169	770 955	64,789 65,662	-247 -350	24,687 31,737	2,896 3,041	1,393 1,655	1,326 1,465	80 113	10,528 10,537	313,351 319,092
April	124,293	2,434	70,529	913	54,547	-467	31,629	2,788	1,619	1,337	161	12,447	302,994
May	137,493	2,198	75,769	848	57,017	-419	33,105	2,802	1,702	1,438	201	11,635	324,757
June	158,308 176,709	2,439 3,011	91,096 120,377	980 1,059	65,270 72,345	-568 -709	32,253 31,570	3,243 3,348	1,685 1,767	1,363 1,372	257 226	10,887 7,382	368,184 419,480
July August	176,709	2,407	119,646	999	71,339	-663	26,320	3,346	1,707	1,372	236	7,362	406,450
September	141,220	2,247	91,377	958	66,849	-554	21,500	3,113	1,621	1,334	183	6,883	337,606
October	126,872	1,934	79,078	949	63,354	-572	20,036	2,876	1,669	1,393	169	10,623	309,279
November December	121,197 132,706	1,723 2,000	75,637 86,606	923 1.005	64,474 71,837	-441 -496	21,374 24,715	2,980 3,311	1,689 1,765	1,377 1,439	78 79	12,354 10,469	304,268 336,419
Total	1,734,265			11,269	790,225	-5, 912	325,074	36,946	19,786	16,700	1,814	119,747	4,105,734
2012 January	129,064	2,232	91,213	1,096	72,382	-330	23,933	3,293	1,621	1,438	70	13,823	340,743
February March	113,831 106,032	1,718 1,576	91,260 92,739	1,146 1.023	63,850 61,730	-226 -268	20,813 26,287	3,029 2,832	1,523 1,637	1,361 1,438	119 218	11,047 13,553	310,298 309,709
3-Month Total	348,927	5,525	275,213	3,264	197,962	-824	71,033	9,1 53	4,781	4,237	407	38,423	960,749
2011 3-Month Total 2010 3-Month Total	443,996 470,770	7,923 9,192	206,478 203,801	2,635 2,744	203,193 202,449	-1,023 -1,240	82,572 63,859	9,195 9,111	4,552 4,477	4,268 3,777	224 119	29,724 20,875	996,299 992,860

^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

Solar thermal and photovoltaic (PV) energy.

commercial plants, 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.

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

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.

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

		Fossil I	uels										
	Coala	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power ^f	Bior Wood ^g	nass Waste ^h	Geo- thermal	Solar/ PV	Wind	Total ^j
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total ^k 1995 Total 1996 Total 1997 Total 1998 Total	852,786 1,161,562 1,402,128 1,572,109 1,686,056 1,771,973 1,820,762 1,850,193	314,343 289,095 245,994 100,202 118,864 68,146 74,783 86,479 122,211	340,858 299,778 346,240 291,946 309,486 419,179 378,757 399,596 449,293	NA NA NA NA 621 1,927 1,341 1,533 2,315	83,479 172,505 251,116 383,691 576,862 673,402 674,729 628,644 673,702	(f) (f) (f) (f) -3,508 -2,725 -3,088 -4,040 -4,467	272,083 300,047 276,021 281,149 289,753 305,410 341,159 350,648 317,867	130 18 275 743 7,032 7,597 8,386 8,680 8,608	198 174 158 640 11,500 17,986 17,816 18,485 19,233	1,966 3,246 5,073 9,325 15,434 13,378 14,329 14,726	NA NA NA 11 367 497 521 511 502	NA NA NA 6 2,789 3,164 3,234 3,288 3,026	1,860,710 1,917,649 2,286,439 2,469,841 2,901,322 3,194,230 3,284,141 3,329,375 3,457,416
1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	1,943,111 1,882,826 1,910,613 1,952,714 1,957,188 1,992,054 1,969,737 1,998,390 1,968,838	111,539 105,192 119,149 89,733 113,697 114,678 116,482 59,708 61,306 42,881 35,811	472,996 517,978 554,940 607,683 567,303 627,172 683,829 734,417 814,752 802,372 841,006	1,607 2,028 586 1,970 2,647 3,568 3,777 4,254 4,042 3,200 3,058	728,254 753,893 768,826 780,064 763,733 788,528 781,986 787,219 806,425 806,208 798,855	-6,097 -5,539 -8,823 -8,743 -8,535 -8,488 -6,558 -6,558 -6,558 -6,288 -4,627	314,663 271,338 213,749 260,491 271,512 265,064 267,040 286,254 245,843 253,096 271,506	8,961 8,916 8,294 9,009 9,528 9,736 10,570 10,341 10,711 10,638 10,738	19,493 20,307 12,944 13,145 13,062 13,031 13,927 14,294 15,379 15,954	14,827 14,093 13,741 14,491 14,424 14,811 14,692 14,568 14,637 14,840 15,009	495 493 543 555 534 575 550 508 612 864 891	4,488 5,593 6,737 10,354 11,187 14,144 17,811 26,589 34,450 55,363 73,886	3,529,982 3,637,529 3,580,053 3,698,458 3,721,159 3,808,360 3,902,192 3,908,077 4,005,343 3,974,349 3,809,837
Page 2010 January	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 70,875 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	-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 1,359 1,409 1,419 1,413 1,364 1,330 1,412 1,443	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 76 112 153 161 156 137 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
Page 1 January	133,163 123,067 135,794 156,677 174,850 169,572 139,458 125,200 119,867 131,311	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	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 1,393 1,397 1,439 16,700	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
2012 January	104,552 344,343 439,073	1,940 1,524 1,375 4,838 7,381 8,575	83,532 83,904 85,611 253,047 185,575 182,894	422 422 275 1,120 703 797	72,382 63,850 61,730 197,962 203,193 202,449	-330 -226 -268 -824 -1,023 -1,240	23,749 20,649 26,090 70,488 82,055 63,319	949 875 829 2,653 2,742 2,877	1,388 1,295 1,422 4,104 3,954 3,892	1,438 1,361 1,438 4,237 4,268 3,777	69 117 211 397 222 118	13,814 11,040 13,543 38,397 29,716 20,872	327,388 297,729 297,419 922,535 959,442 955,692

^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

b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.
c Natural gas, plus a small amount of supplemental gaseous fuels.
d Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.
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.
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).

Solar thermal and photovoltaic (PV) energy.

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

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

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors

(Subset of Table 7.2a; Million Kilowatthours)

	Commercial Sector ^a						Industrial Sector ^b								
		Petro-	Natural	Biomass			Petro-	Natural	Other	Hydro- electric	Biomass				
	Coalc	leum ^d	Gase	Waste ^f	Total	Coal ^c	leum ^d	Gase	Gases ^h	Power	Wood	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 F 007	NA	NA	NA	NA	3,161	NA 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 1,051	379 369	5,162 5,249	1,519 2,176	8,232 9,030	22,372 22,172	6,030 6,260	71,717 71,049	11,943 13,015	5,304 5,878	28,868 28,354	900 919	151,025 151,017		
1996 Total 1997 Total	1,040	427	4,725	2,170	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	995	434	4,607	2,393	8,563	21,474	6,088	78,793	12,519	4,758	28,060	686	156,264		
2000 Total	1,097	432	4,262	1,985	7,903	22,056	5,597	78,798	11,927	4,135	28,652	839	156,673		
2001 Total	995	438	4,434	1,007	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	8	351	134	661	1,649	163	6,588	735	188	2,149	67	11,936		
April	80	9	326	144	645	1,258	169	6,194	669	187	2,094	80	11,034		
May	84	12	326	149	666	1,519	181	6,477	738	164	2,061	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 70	12,718		
August	105	11	490	152	838	1,792	189	7,701	812	99	2,243	78	13,395		
September	89 80	9 7	421 419	148 133	750 712	1,499	165 184	7,085 6.443	713 637	76 117	2,182 2.114	62 84	12,238		
October November	69	4	401	134	683	1,527 1,301	196	6,520	688	130	2,114	79	11,562 11,493		
December	88	12	476	136	793	1,677	209	7,223	744	134	2,145	79	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	12,341		
February	95	8	350	125	656	1,723	151	6,314	564	160	2,021	64	10,961		
March	97	7	341	134	666	1,457	165	6,478	705	188	2,156	65	11,494		
April	71	5	347	118	622	1,155	162	6,473	662	196	2,112	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	6	387	163	698	1,552	286	7,295	673	182	2,343	70	12,657		
February	82	4	357	163	665	1,388	190	6,999	723	163	2,152	65	11,904		
March 3-Month Total	68 233	4 14	363 1,106	155 482	658 2,021	1,412 4,351	197 673	6,765 21,060	747 2,143	195 540	2,001 6,496	60 195	11,633 36,194		
2011 3-Month Total 2010 3-Month Total	296 310	27 32	1,093 1,057	398 382	2,060 1,993	4,627 4,674	515 584	19,810 19,850	1,932 1,946	485 520	6,448 6,229	200 203	34,796 35,175		

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

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.

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

<sup>Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.

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 tire-derived fuels).

Includes a small amount of conventional hydroelectric power, other gases, betovoltais (PV), energy wind wood and other which are not separately.</sup>

photovoltaic (PV) energy, wind, wood, and other, which are not separately displayed.

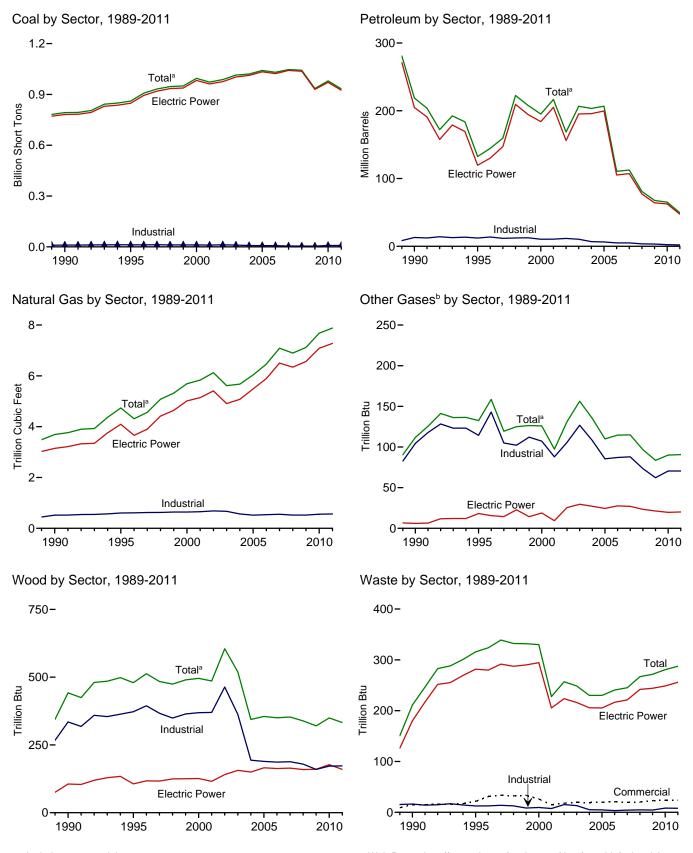
 $^{^{\}rm h}$ Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

Conventional hydroelectric power.

Wood and wood-derived fuels.

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.

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

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

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 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	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^k	792,457	18,143	190,652	437	1,914	218,800	3,692	112	442	211	36
1995 Total	860,594	19,615	95,507	680	3,355	132,578	4,738	133	480	316	42
1996 Total	907,209	20,252	106,055	1,712	3,322	144,626	4,312	159	513	324	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
1998 Total	949,802	25,951	158,187	974	4,552	207,871	5,322	126	490	332	41
2000 Total	994,933	31,675	143,381	1,450	3,744	195,228	5,691	126	496	330	46
2001 Total	972,691	31,150	165,312	855	3,871	216,672	5,832	97	486	228	160
2002 Total	987,583	23,286	109,235	1,894	6,836	168,597	6,126	131	605	257	191
2003 Total	1,014,058	29,672	142,518	2,947	6,303	206,653	5,616	156	519	249	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	20,651	141,518	2,968	8,330	206,785	6,036	110	355	230	173
2006 Total	1,030,556	13,174	58,473	2,174	7,363	110,634	6,462	115	350	241	172
2007 Total	1,046,795	15,683	63,833	2,917	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
Page 1 2010 January	90,767 80,209 76,544 67,037 76,061 87,395 94,993 94,786 79,573 70,918 72,756 88,645 979,684	2,485 869 785 726 1,050 1,244 1,347 1,093 905 787 876 1,883 14,050	2,860 1,075 1,245 1,160 1,997 3,087 3,681 2,987 1,789 1,113 982 2,021 23,997	241 212 147 126 121 154 200 164 151 129 143 266 2,056	433 404 438 382 415 493 524 423 394 362 317 408 4,994	7,751 4,174 4,370 3,923 5,244 6,950 7,849 6,358 4,813 3,840 3,584 6,210 65,071	570 502 479 494 582 731 923 972 723 594 519 591 7,680	7 6 8 8 8 8 8 8 8 6 7 8	30 28 29 27 27 29 31 32 30 28 29 31 350	22 20 24 23 24 24 24 23 23 23 24 24 24	15 13 15 15 15 16 16 16 16 15 15
Page 2011 January February March April May June July August September October November December Total	90,106 73,505 72,340 66,870 73,511 84,072 94,214 92,177 76,612 69,524 66,789 73,190 932,911	1,238 854 839 957 909 969 1,161 809 778 711 715 835 10,775	1,700 1,007 1,122 1,328 1,222 1,261 1,542 1,333 958 940 904 927 14,246	231 124 133 121 110 145 167 122 162 124 135 134 1,707	526 387 465 304 316 388 479 415 392 307 250 331 4,561	5,802 3,919 4,421 3,924 3,820 4,316 5,265 4,341 3,861 3,311 3,002 3,551 49,533	564 503 504 548 603 729 966 948 710 600 568 639 7,880	7 6 7 7 7 8 8 8 8 8 8 8 8 8 8	30 27 28 24 25 29 30 30 28 26 30 333	22 21 24 23 24 25 26 25 24 24 24 25 287	12 11 14 13 14 15 14 13 13 13 13 14 162
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	57,564	579	869	120	251	2,825	704	9	26	24	13
3-Month Total	190,961	2,000	2,610	363	979	9,868	2,052	26	85	69	39
2011 3-Month Total	235,952	2,931	3,830	488	1,379	14,142	1,571	21	85	67	38
2010 3-Month Total	247,520	4,140	5,181	600	1,275	16,296	1,551	22	86	66	43

^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.

^o 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

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.

^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.

derived from rossi rueis.

^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 ^g	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 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 NA	507 70 179 231	562,781 506,479 421,110 174,571	3,660 3,158 3,682 3,044	NA NA NA	(s) 3 8	2 2 2 7	NA NA NA NA
1990 Total k 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2007 Total 2007 Total 2008 Total	781,301 847,854 894,400 919,009 934,126 937,888 982,713 961,523 975,251 1,003,036 1,012,459 1,033,567 1,022,802 1,041,346	16,334 18,066 18,472 18,646 23,166 23,875 29,722 29,056 21,810 27,441 18,793 19,450 12,578 15,135 12,318	183,285 88,895 98,795 112,423 165,875 151,921 138,047 159,150 104,577 137,361 138,831 138,337 56,347 62,072 37,222	25 441 567 130 411 514 403 374 1,243 1,937 2,511 1,783 2,496 2,608	1,008 2,452 2,457 3,201 3,999 3,607 3,155 3,308 5,705 5,719 7,135 7,877 6,905 5,523 5,000	204,745 119,663 130,168 147,202 209,447 194,345 183,946 205,119 156,154 195,336 195,809 199,760 105,235 107,316	3,147 4,094 3,660 3,903 4,416 4,644 5,142 5,408 4,909 5,075 5,485 5,891 6,502 6,342	6 18 16 14 23 14 19 9 25 30 27 24 28 27	106 106 117 117 125 125 126 116 141 156 150 163 163	180 282 280 292 287 290 294 205 224 216 206 205 211 221 242	(s) 2 2 1 1 1 109 137 136 131 116 117
2009 Total2010 January	929,692 90,080	11,848 2,441	27,768 2,804	2,110 219	4,485 404	64,151 7,482	6,567 519	21 2	160 16	244 20	115 9
February March April May June July August September October November December Total	79,537 75,772 66,559 75,311 86,725 94,194 93,922 78,881 70,205 72,206 87,854 971,245	833 756 695 1,021 1,220 1,306 1,066 880 762 849 1,847	1,023 1,214 1,132 1,964 3,059 3,643 2,962 1,760 1,076 949 1,973 23,560	196 130 112 104 137 185 149 136 112 125 244 1,848	379 415 360 390 463 495 392 371 337 290 383 4,679	3,946 4,176 3,741 5,040 6,733 7,610 6,136 4,628 3,634 3,373 5,978 62,477	456 432 449 536 681 869 915 671 547 473 538 7,085	2 2 2 2 2 2 2 2 1 1 1 1 20	15 15 14 13 15 16 16 13 15 16 177	18 21 20 21 21 22 22 21 20 21 22 24 22	9 9 10 10 10 10 10 10 10 10 10
Page 1 January February March April May June July August September October November December Total	89,305 72,814 71,671 66,411 72,742 83,360 93,388 91,340 75,820 68,779 66,260 72,633 924,523	1,215 832 822 936 891 946 1,135 788 756 686 693 811	1,653 973 1,093 1,296 1,199 1,236 1,518 1,311 940 911 883 899 13,914	223 117 121 104 103 129 158 107 126 119 129 128 1,564	495 365 440 282 295 364 452 389 369 288 233 309 4,281	5,564 3,750 4,234 3,747 3,670 4,134 5,069 4,152 3,670 3,155 2,871 3,382 47,398	512 457 457 500 551 679 912 894 661 553 518 584 7,279	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15 14 13 11 12 14 15 15 13 12 12 15	20 18 22 21 22 22 23 22 21 21 21 21 22 256	9 8 10 10 10 10 11 10 10 10 10 10
2012 January February March 3-Month Total	69,864 62,146 56,908 188,918	754 635 563 1,952	961 728 849 2,538	124 97 111 332	331 263 201 796	3,497 2,775 2,528 8,801	623 623 655 1,901	3 3 2 8	15 14 13 41	21 19 21 61	10 9 10 30
2011 3-Month Total 2010 3-Month Total	233,790 245,389	2,870 4,030	3,719 5,041	461 545	1,300 1,198	13,548 15,604	1,425 1,407	4 5	42 45	59 59	27 27

^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.

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.

Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant use of the company o

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.

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.

Nodo 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 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)

		Commerci	ial Sectora				Indu	strial Sector	b		
			Natural	Biomass			Natural	Other	Bion	nass	
	Coalc	Petroleum ^d	Gase	Waste ^f	Coalc	Petroleum ^d	Gase	Gases	Woodh	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	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	569	649	43	21	12,171	12,265	601	114	373	13	40
1996 Total	656	645	42	31	12,153	13,813	610	143	394	13	35
1997 Total	630 440	790 802	39 41	34 32	12,311 11,728	11,723 12,392	623 625	105 102	367 349	14 13	36 35
1998 Total 1999 Total	440 481	931	39	32	11,726	12,392	639	112	349 364	8	39
2000 Total	514	823	37	26	11,706	10,459	640	107	369	10	45
2001 Total	532	1,023	36	15	10,636	10,530	654	88	370	7	44
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	347	333	35	21	7,408	5,066	536	87	187	3	45
2007 Total	361	258	34	19	5,089	5,041	554	88	188	4	41
2008 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	12	3	2	746	182	44	6	14	1	4
April	23	11	3	2	456	171	42	6	14	1	4
May	23	14	3	2	727	190	44	6	14	1	4
June	27	13	3	2	643	204	47	6	14	1	5
July	30	26	4	2	769	213	50	6	15	1	5
August	29 26	15 13	4 3	2 2	835 666	207 171	53 48	7 6	15 15	1	5 5
September October	23	13	3	2	690	195	40 44	5	15	1	5
November	23	7	3	2	529	208	43	6	14	1	4
December	26	15	4	2	765	217	48	6	15	1	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	9	3	2	663	160	44	5	13	i	2
March	28	8	3	2	641	179	44	6	14	1	3
April	22	6	3	2	437	171	45	6	14	1	3
May	23	7	3	2	746	143	48	5	13	1	3
June	24	. 9	3	2	688	173	47	6	15	1	3
July	28	15	4	2	798	181	50	7	15	1	3
August	26	9	3	2	811	180	50	6	15	1	3
September	23	8	3	2	769	183	46	6	14	1	2
October	20 20	11 8	3 3	2 2	725 509	145 124	44 47	6 6	14 15	1	3
November	20 24	8	3	2	533	161	47 51	6	16	1	3
December Total	297	112	3 8	24	8,091	2,023	564	71	173	8	31
	0.5	_	•		·	,	F.C	_	4-		_
2012 January	25	7 5	3	2 2	706	460 299	50 47	6 6	15	1	2
February	25 22	5 6	3	2	631 634	299	47 46	6 7	15 14	1 1	2 2
March 3-Month Total	72	1 8	3 9	2 6	1,972	1,050	143	19	14 44	2	7
2011 3-Month Total 2010 3-Month Total	87 87	31 46	9 9	6 5	2,076 2,044	563 646	137 135	16 16	42 41	2 2	7 12

^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.

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 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-920, "Combined Heat and Power Plant 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.

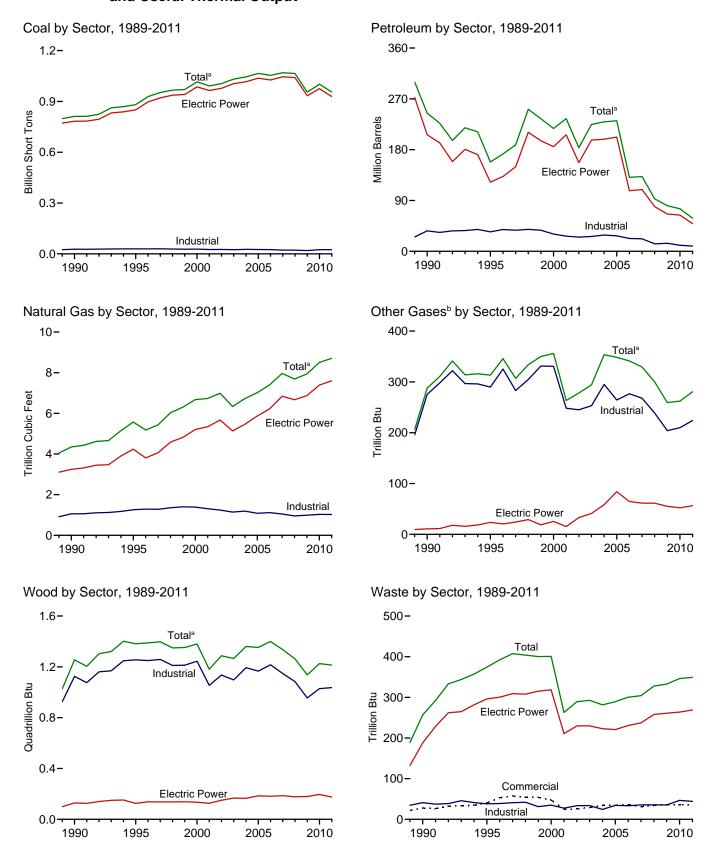
^e Natural gas, plus a small amount of supplemental gaseous fuels.

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

⁹ 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	Tł	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 NA	70	506,479	3,158	NA	ò	2	NA
1980 Total	569,274	29,051	391,163	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	881,012	21,697	112,168	1,322	4,590	158,140	5,572	313	1,382 1,389	374 392	97 91
1996 Total	928,015 952,955	22,444 22,893	124,607 134,623	2,468 526	4,596 6,095	172,499 188,517	5,178 5,433	346 307	1,389	392 407	103
1997 Total	966.615	30.006	189,267	1.230	6,095	251,486	6.030	334	1,397	407	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	991,635	33,724	177,137	1,418	4,532	234,940	6,731	263	1,182	263	229
2002 Total	1,005,144	24,749	118,637	3,257	7,353	183,409	6,986	278	1,287	289	252
2003 Total	1,031,778	31,825	152,859	4,576	7,067	224,593	6,337	294	1,266	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		14,137	43,477	3,765	6,314	92,948	7,689	300 259	1,263	328	212 228
2009 Total	955,190	14,800	33,672	3,218	5,828	80,830	7,938	239	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 69,179	866 837	1,439 1,355	207 176	522 458	5,124 4,656	547 556	23 22	103 98	30 29	19 19
April May	77,725	1.111	2.221	176	500	6.005	647	23	98	29	20
June	89,063	1,295	3,291	204	586	7,721	796	23	101	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	74,496	1,017	1,212	204	414	4,503	586	21	102	30	20
December	90,600	2,029	2,332	361	499	7,218	665	23	109	30	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	1,302	2,014	286	602	6,611	639	22	108	29	15
February	75,364	934	1,197	161	490	4,742	568	20	96	26	14
March	74,254	890	1,327	175 170	573	5,256	570 615	24 23	100	29 27	16 15
April	68,631 75,353	1,020 962	1,541 1,405	170 147	409 434	4,774 4,683	615 671	23	95 94	27	15 16
May June	85,880	1,013	1,405	188	434 475	5,030	794	23 24	104	29 29	17
July	96,079	1,208	1,739	206	566	5,982	1,037	24	104	30	17
August	93.974	851	1,523	165	498	5.029	1,020	24	103	30	16
September	78,352	816	1,129	225	465	4,497	777	23	101	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	817	1,177	171	487	4,598	753	26	107	29	16
February	64,477	674	882	140	388	3,637	743	26	99	27	15
March	59,263	609	985	185	372	3,642	775	26	95	29	16
3-Month Total	196,228	2,100	3,044	497	1,247	11,877	2,271	79	302	85	46
2011 3-Month Total 2010 3-Month Total	241,799 253,150	3,126 4,486	4,537 6,047	623 831	1,665 1,544	16,609 19.085	1,778 1,756	67 63	304 302	84 84	44 54

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

Wood and wood-derived fuels.

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

irre-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

NA=Not available.

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.

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

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

^d 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.

Nood and wood-derived fuels.

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

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 ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
72 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
973 Total	405,962	38,907	467,221	NA NA	70	506,479	3,060 3,158	NA NA		2	NA NA
980 Total	569,274	29,051	391,163	NA NA	179	421,110	3,136 3,682	NA NA	(s) 3	2	NA NA
985 Total	693,841	14,635	158,779	NA NA	231	174,571	3,044	NA NA	8		NA NA
990 Total ^k	782,567	16,567	184,915	26	1,008	206,550	3,245	11	129	188	(s)
995 Total	850.230	18,553	90.023	499	2,674	122,447	4,237	24	125	296	(5)
996 Total	896,921	18,780	99,951	653	2,642	132,593	3,807	20	138	300	2
790 TOTAL		18,989	113,669	152	3,372	149,668	4,065	24	137	309	
997 Total	921,364										
998 Total	936,619	23,300	166,528	431	4,102	210,769	4,588	29	137	308	
999 Total	940,922	24,058	152,493	544	3,735	195,769	4,820	19	138	315	1
000 Total	985,821	30,016	138,513	454	3,275	185,358	5,206	25	134	318	
001 Total	964,433	29,274	159,504	377	3,427	206,291	5,342	15	126	211	113
002 Total	977,507	21,876	104,773	1,267	5,816	156,996	5,672	33	150	230	143
003 Total	1,005,116	27,632	138,279	2,026	5,799	196,932	5,135	41	167	230	140
004 Total	1,016,268	19,107	139,816	2,713	7,372	198,498	5,464	58	165	223	138
005 Total	1,037,485	19,675	139,409	2,685	8,083	202,184	5,869	84	185	221	123
006 Total	1,026,636	12,646	57,345	1,870	7,101	107,365	6,222	65	182	231	125
007 Total	1,045,141	15,327	63,086	2,594	5,685	109,431	6,841	61	186	237	124
008 Total	1.040.580	12,547	38,241	2,670	5,119	79.056	6,668	61	177	258	131
009 Total	933,627	12,035	28,782	2,210	4,611	66,081	6,873	55	180	261	124
010 January	90,452	2,459	2,887	222	413	7,636	546	5	17	21	10
February	79,884	851	1,061	219	389	4,076	480	4	16	20	9
March	76,110	759	1,256	131	427	4,281	457	5	16	22	10
April	66.842	699	1,214	112	369	3.871	471	5 5	15	21	10
May	75,597	1,023	2,055	104	400	5,181	560	5	14	22	10
June	87,030	1,222	3,147	137	471	6,860	706	5	16	23	12
July	94,519	1,309	3,730	185	503	7.742	897	5	17	23	1.
August	94,247	1,068	3,051	149	394	6,236	943	4	18	23	1.
September	79,176	883	1.845	136	372	4,726	697	4	16	22	10
October	70,492	772	1,161	112	346	3,773	570	3	15	22	10
November	72,514	890	1,035	126	301	3,557	497	4	16	23	10
December	88.189	1.854	2.062	245	391	6,118	564	4	17	23	12
Total	975,052	13,790	24,503	1,877	4,777	64,055	7,387	52	196	264	124
011 January	89,682	1,225	1,759	224	500	5,707	542	4	16	21	10
February	73.156	858	1.020	117	374	3,866	482	4	15	20	
March	72,009	827	1,164	121	451	4,364	483	5	15	23	1,3
April	66,741	940	1,378	104	291	3,879	526	4	12	22	10
May	73,100	894	1,279	103	306	3,807	578	4	13	22	12
June	83,700	950	1,316	129	374	4,265	705	5	15	23	i i
July	93.736	1.139	1,603	158	462	5,211	942	5	16	24	i.
August	91,667	793	1,400	107	400	4,299	923	5 5	16	23	1.
September	76,131	760	1,027	127	380	3,812	686	5	15	22	10
October	69,109	690	995	119	295	3,280	578	5	13	23	10
November	66,557	697	995 962	131	295 242	2,999	543	5	13	23	10
			962 973	128	242 319			5		23	
December	72,971	814				3,512	612		16		11
Total	928,558	10,586	14,876	1,568	4,394	49,003	7,602	56	175	269	126
D12 January	70,231	758	1,054	125	342	3,649	651	6	16	22	11
February	62,450	638	790	.97	274	2,895	649	6	15	21	10
March	57,211	567	898	111	212	2,636	680	.5	14	23	11
3-Month Total	189,893	1,964	2,742	333	828	9,179	1,981	17	45	66	33
011 3-Month Total	234,847	2,910	3,943	462	1,325 1,229	13,938	1,507	13	46	64	29

^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: • 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.

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.

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

Wood and wood-derived fuels.

<sup>Nood 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 solid waste from non-biogenic sources, and</sup>

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

		Commerc	ial Sector ^a				Indu	strial Sector	b		
			Natural	Biomass			Natural	Other	Biom	iass	
	Coalc	Petroleumd	Gase	Waste ^f	Coalc	Petroleum ^d	Gase	Gases	Woodh	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	Btu	
1989 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2008 Total	1,125 1,191 1,419 1,660 1,738 1,443 1,490 1,547 1,448 1,405 1,816 1,917 1,922 2,021 1,798	1,967 2,056 1,245 1,246 1,584 1,807 1,615 1,832 1,250 1,449 2,009 1,630 935 752 671 521	30 46 78 82 87 87 84 85 79 74 58 72 68 68 70 66	22 28 40 53 58 54 47 25 26 29 34 36 31 34	24,867 27,781 29,363 29,434 29,853 28,553 27,763 28,031 25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766	25,444 36,159 34,448 38,661 37,265 38,910 37,312 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222	914 1,055 1,258 1,289 1,282 1,355 1,401 1,386 1,310 1,240 1,144 1,191 1,084 1,195 955	195 275 290 325 283 305 331 248 245 253 295 264 277 268 239 204	926 1,125 1,255 1,249 1,259 1,211 1,213 1,244 1,054 1,136 1,097 1,193 1,166 1,216 1,148 1,084	35 41 38 39 41 42 31 35 27 34 24 34 33 36 35 35	85 86 95 89 102 93 93 108 101 92 103 94 94 102 98 60 82
Pebruary	193 167 149 117 118 135 142 152 133 121 128 165 1,720	55 47 26 24 28 26 59 46 27 21 22 55 437	7 7 7 6 6 6 8 9 7 7 7 8 8	3 3 3 3 3 3 3 3 3 3 3 3 3	2,094 1,978 2,124 2,220 2,010 1,898 2,122 2,194 1,941 1,958 1,854 2,246 24,638	1,128 1,021 817 761 796 835 883 849 780 899 924 1,045	90 80 84 79 82 84 91 95 87 84 82 92	17 15 18 18 18 18 17 19 18 17 17	86 79 86 83 83 85 88 87 86 91	4 4 4 5 3 3 3 3 3 5 5 4	6 7 7 7 7 8 8 8 8 8 8 8 8 8 8
Pebruary	178 165 158 124 128 124 134 121 116 123 138 1,633	45 24 29 15 17 22 35 20 15 19 18 23 282	8 7 6 6 7 6 7 6 6 7 8 8	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2,320 2,044 2,088 1,767 2,126 2,056 2,208 2,182 2,100 2,080 1,835 1,927 24,733	858 852 862 880 859 743 737 710 670 719 767 646 9,302	89 79 81 82 87 83 88 89 84 81 86 94	18 16 20 19 18 19 19 19 18 20 19 20	91 81 86 83 81 89 89 86 87 84 87 93	4 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 3 3 4 4 4 3 3 3 3 3 4 4 4 4 4 4 4 4
2012 January	154 137 131 422	30 16 17 64	7 7 6 20	3 3 9	2,102 1,890 1,921 5,914	919 726 989 2,634	94 87 89 270	21 20 21 62	91 84 81 257	4 4 3 11	3 3 9
2011 3-Month Total 2010 3-Month Total	500 509	99 128	20 20	9 9	6,451 6,195	2,572 2,966	250 253	54 49	258 251	11 12	10 20

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

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.

Patroleum, and waste oil.

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 non-renewable waste (Indinopal solls uses a soll uses

derived from fossil fuels

h Wood and wood-derived fuels.

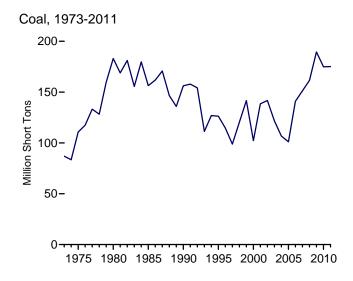
h Wood and wood-derived fuels.
i Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

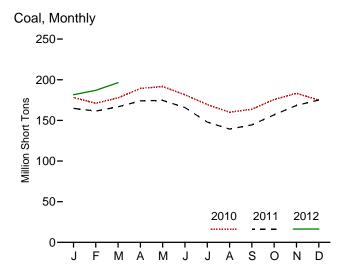
Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

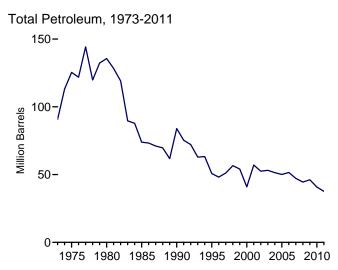
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1989.

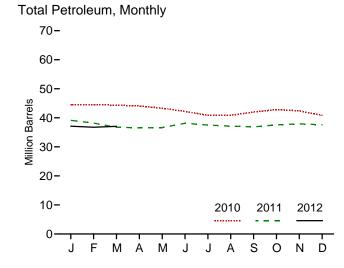
Sources: • 1989-1997: U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-868, "Annual Electric Generator Report.—Nonutility." • 2001-2003: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector

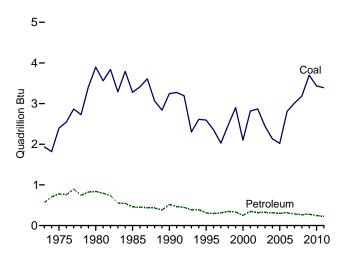




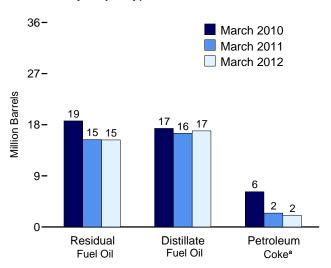




Coal and Petroleum Stocks, 1973-2011



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	31	125,413
980 Year		30.023	105,351	NA	52	135,635
985 Year		16,386	57,304	NA	49	73,933
990 Year		16,471	67,030	NA	94	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 NA	469	51,138
998 Year		16,343	37,451	NA	559	56,591
999 Year ^f		17,995	34,256	NA NA	372	54,109
2000 Year		15,127	24,748	NA NA	211	40.932
2001 Year	. 138,496	20,486	34,594	NA NA	390	57,031
2002 Year		17,413	25.723	800	1.711	52,490
2003 Year		19,153	25,723	779	1,711	52,490 53.170
		19,133	26,596	879	937	51,434
2004 Year					530	50.062
2005 Year		18,778	27,624	1,012		
2006 Year		18,013	28,823	1,380	674	51,583
2007 Year		18,395	24,136	1,902	554	47,203
2008 Year		17,761	21,088	1,955	739	44,498
2009 Year	. 189,467	17,886	19,068	2,257	1,394	46,181
2010 January		17,193	18,035	2,198	1,406	44,454
February		17,409	18,532	2,222	1,280	44,562
March		17,353	18,679	2,105	1,240	44,337
April		17,295	18,353	2,228	1,243	44,090
May	. 191,669	17,185	17,935	2,235	1,188	43,294
June	. 181,490	17,040	17,411	2,172	1,117	42,209
July	. 169,504	16,917	16,441	2,268	1,046	40,856
August	. 159.987	16.737	16.288	2.292	1.112	40.878
September	. 163,776	16,608	17,269	2,330	1,158	41,996
October		16,698	17,781	2.377	1.197	42,840
November		17.024	17.492	2.410	1.098	42,414
December		16,758	16,629	2,319	1,019	40,800
2011 January	. 164.840	16,673	16,061	2,383	801	39,123
February		16,654	15,575	2.435	707	38,200
March		16.498	15.393	2,437	489	36,776
April		16,301	15,180	2,460	522	36,551
May		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	15,942	2,595	413	37,601
November		17,148	15,842	2,640	413 453	37,923
December		17,148 17,101	15,832 15,469	2,677 2,690	453 470	37,923 37,608
		*	·	,		,
2012 January		17,179	15,248	2,718	394	37,116
February		17,024	15,174	2,766	357	36,749
March	. 196,391	16,929	15,326	2,792	405	37,073

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

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

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." • 1989-1997: EIA, Form EIA-759, "Monthly Power Plant Report." • 1998-2000: 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-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."

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.

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

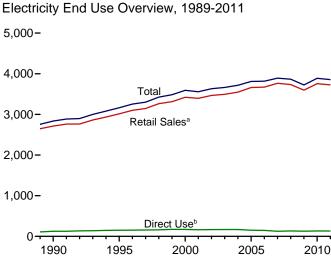
e Petroleum coke is converted from short tons to barrels by multiplying by 5.

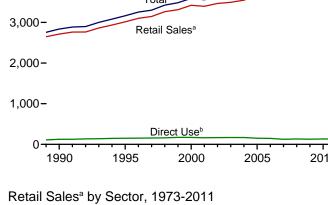
f Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers. NA=Not available.

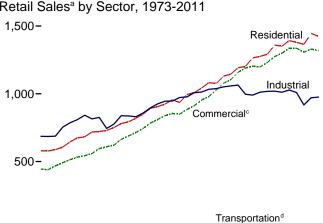
NA=Not available.

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

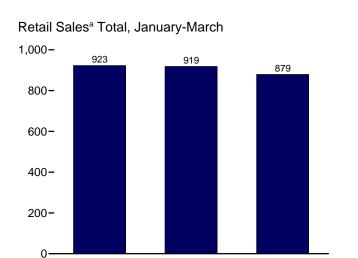
Figure 7.6 **Electricity End Use** (Billion Kilowatthours)

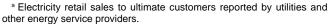






1975 1980 1985 1990 1995 2000 2005 2010

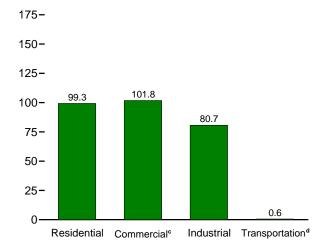




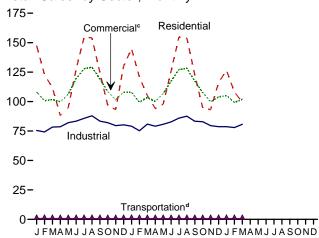
2011

2010

Retail Sales^a by Sector, March 2012

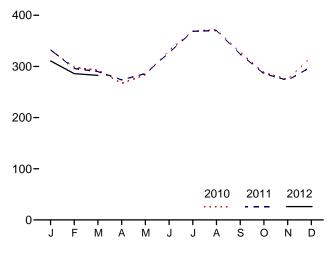


Retail Sales^a by Sector, Monthly



Retail Sales^a Total, Monthly

2010



2011

2012

departmental sales, and other sales to public authorites. d Transportation sector, including sales to railroads and railways. Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Source: Table 7.6.

2012

^b See "Direct Use" in Glossary.

^c 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	Industrial ^c	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use ^g	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	793,934	689,121	836,772	4,147	2,323,974	NA	2,323,974	605,989	87,279
1990 Total	924,019 1,042,501	838,263 953,117	945,522 1,012,693	4,751 4,975	2,712,555 3,013,287	124,529 150,677	2,837,084 3,163,963	751,027 862,685	91,988 95,407
1995 Total1996 Total	1,082,512	980,061	1,033,631	4,975	3,101,127	152,638	3,253,765	887,445	95,407
1997 Total	1.075.880	1.026.626	1.038.197	4,923	3,145,610	156,239	3,301,849	928.633	102.901
1998 Total	1,130,109	1,077,957	1,051,203	4,962	3,264,231	160,866	3,425,097	979,401	103,518
1999 Total	1,144,923	1,103,821	1.058.217	5.126	3.312.087	171,629	3,483,716	1.001.996	106,952
2000 Total	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	109,496
2001 Total	1,201,607	1,190,518	996,609	5,724	3,394,458	162,649	3,557,107	1,083,069	113,174
2002 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,552
2003 Total	1,275,824	1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029		
2004 Total	1,291,982	1,230,425	1,017,850	7,224	3,547,479	168,470	3,715,949		
2005 Total	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984		
2006 Total	1,351,520	1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845		
2007 Total 2008 Total	1,392,241 1,379,981	1,336,315 1,335,981	1,027,832 1,009,300	8,173 7,700	3,764,561 3,732,962	125,670 132,197	3,890,231 3,865,159		
2009 Total	1,364,474	1,307,168	917,442	7,781	3,596,865	126,938	3,723,803		
		100.100							
2010 January	147,500	108,120 100.747	75,506 74,164	715 689	331,841 298.440	E 11,084 E 10.144	342,925 308.585		
February March	122,840 111,790	100,747	74,164 78,303	656	298,440	E 10,144	303,389		
April	88.046	99.791	78,503 78.597	600	267,034	E 10,004	277.125		
May	94,843	106,176	82,088	606	283,712	E 10,611	294,323		
June	127,496	119,388	83,347	658	330,889	E 11.037	341,927		
July	154,688	127,925	85,725	667	369,006	E 11,690	380,696		
August	154,053	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	96,688	108,461	82,046	615	287,811	E 10,605	298,416		
November	93,166	101,524	79,575	607	274,871	E 10,520	285,392		
December Total	130,015 1,445,708	108,031 1,330,199	80,264 970,873	633 7,712	318,943 3,754,493	E 11,725 131,910	330,668 3,886,403		
10tal	1,445,700	1,330,133	ŕ	1,112	3,734,433	·	3,000,403		
2011 January	144,911	107,884	79,055	710	332,561	E 11,301	343,862		
February	120,685	99,368 103.507	75,223 80.817	633 655	295,909 290,044	E 10,037 E 10,506	305,945		
March April	105,065 94,069	103,507	79,099	618	290,044 273,805	E 10,506	300,550 283,924		
May	97,755	106,841	80.741	615	285,951	E 10,831	296.783		
June	126,008	117,460	82,775	637	326,881	E 10,899	337,780		
July	154,888	127,139	85,907	645	368,580	E 11.630	380,209		
August	153,688	128,200	87,565	620	370,073	E 11,570	381,643		
September	122,842	117,403	83,311	630	324,186	E 10,787	334,973		
October	94,576	107,655	82,860	608	285,699	E 10,356	296,055		
November	93,126	99,782	79,561	584	273,053	E 10,639	283,692		
December	116,087	104,030	78,655	649	299,421	E 11,505	310,926		
Total	1,423,700	1,319,288	975,569	7,606	3,726,163	^E 130,179	3,856,342		
2012 January	126,475	105,076	78,640	669	310,859	E 11,539	322,398		
February	108,145	99,266	77,918	646	285,975	E 10,860	296,835		
March	99,342	101,806	80,694	612	282,453	E 10,619	293,072		
3-Month Total	333,961	306,148	237,252	1,927	879,288	^E 33,018	912,305		
2011 3-Month Total	370,660	310,759	235,095	1,999	918,513	E 31,844	950,357		
2010 3-Month Total	382,130	310,623	227,973	2,060	922,787	E 32,112	954,899		

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.

^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 interaction and treasportation including relies and includes.

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 Report."

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*, May 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*, May 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*, May 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)

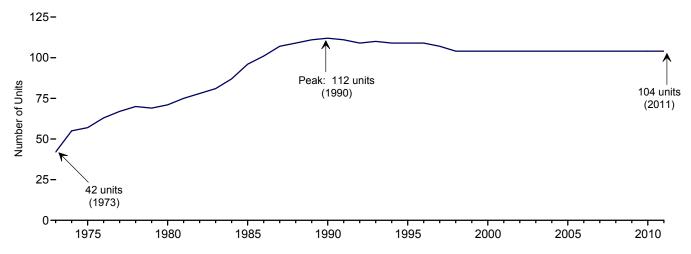
1973–2002: See sources for "Residential" and "Industrial."

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8. Nuclear Energy

Figure 8.1 Nuclear Energy Overview

Operable Units, End of Year, 1973-2011



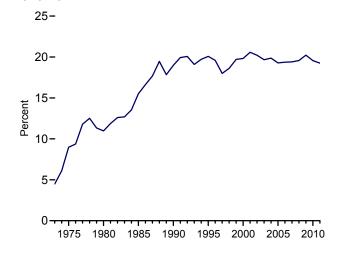
Electricity Net Generation, 1973-2011

5
4
Total

2
1
Nuclear Electric Power

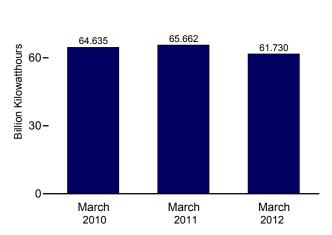
1975 1980 1985 1990 1995 2000 2005 2010

Nuclear Share of Electricity Net Generation, 1973-2011



Nuclear Electricity Net Generation

90-



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

Capacity Factor, Monthly

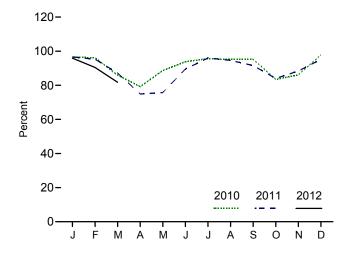


Table 8.1 Nuclear Energy Overview

1973 Total	42 57 71 96 112 109 109 107 104 104	22.683 37.267 51.810 79.397 99.624 99.515 100.784	Million Kilowatthours 83,479 172,505 251,116 383,691 576,862	4.5 9.0 11.0	53.5 55.9
1975 Total 1980 Total 1980 Total 1990 Total 1990 Total 1990 Total 1996 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2009 Total 2010 January February March April May June July August September October November December Total 2011 January February March April May June July August September October November December Total 2011 January February March April May June July August September October November December Total 2011 January February March April May June July August September October Rovember December Total September October November December December December December October November December December	57 71 96 112 109 109 107 104	37.267 51.810 79.397 99.624 99.515	172,505 251,116 383,691 576,862	9.0 11.0	
1975 Total 1980 Total 1980 Total 1990 Total 1990 Total 1990 Total 1996 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2009 Total 2010 January February March April May June July August September October November December Total 2011 January February March April May June July August September October November December Total 2011 January February March April May June July August September October November December Total 2011 January February March April May June July August September October Rovember December Total September October November December December December December October November December December	57 71 96 112 109 109 107 104	37.267 51.810 79.397 99.624 99.515	172,505 251,116 383,691 576,862	9.0 11.0	
1980 Total 1985 Total 1985 Total 1990 Total 1990 Total 1995 Total 1996 Total 1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 1998 Total 1900 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2007 Total 2008 Total 2008 Total 2009 Total 2010 January February March April May June July August September October November December Total 2011 January February March April May June July August September October November December Total 2011 January February March April May June July August September October November December Total 2011 January September October November December Total 2012 January September October November December December December October November December	71 96 112 109 109 107 104	51.810 79.397 99.624 99.515	251,116 383,691 576,862	11.0	
985 Total 990 Total 995 Total 995 Total 996 Total 997 Total 997 Total 998 Total 998 Total 999 Total 999 Total 999 Total 999 Total 999 Total 900 Total 901 January 902 February 903 March 904 August 904 September 905 October 905 November 906 Total 901 January 901 January 902 February 903 March 904 August 905 Total 905 Total 907 January 908 Total 909 Total 909 Total 909 Total 909 Total 909 Total 900 Total 909 Total 900 Total 909 Total 900 Total 909 Total 909 Total 909 Total 909 Total 909 Total 900 Total 9	96 112 109 109 107 104 104	79.397 99.624 99.515	383,691 576,862		56.3
990 Total 995 Total 995 Total 997 Total 998 Total 998 Total 999 Total 999 Total 000 Total 001 Total 002 Total 003 Total 004 Total 005 Total 006 Total 007 Total 008 Total 009 Total 009 Total 009 Total 001 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October Total 011 September October Total 012 September October November December December December December	112 109 109 107 104 104	99.624 99.515	576,862		
995 Total 996 Total 996 Total 997 Total 998 Total 998 Total 999 Total 999 Total 000 Total 001 Total 002 Total 003 Total 005 Total 006 Total 006 Total 007 Total 008 Total 009 Total 009 Total 009 Total 010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October November Docomber Docomber November Docomber Docomber November Docomber Docomber Docomber Docomber November Docomber Docomber	109 109 107 104 104	99.515		15.5	58.0
996 Total 997 Total 998 Total 999 Total 999 Total 999 Total 999 Total 999 Total 999 Total 990 Total 991 Total 992 Total 993 Total 994 Total 995 Total 996 Total 997 Total 998 Total 998 Total 999 Total 998 Total 999 To	109 107 104 104			19.0	66.0
997 Total 998 Total 998 Total 999 Total 999 Total 900 Total 901 Total 902 Total 903 Total 904 Total 905 Total 906 Total 907 Total 908 Total 909 Total 909 Total 909 Total 910 January 910 January 911 January 912 June 913 June 914 June 915 June 916 January 917 January 918 June 919 June	107 104 104	100.784	673,402	20.1	77.4
998 Total 999 Total 999 Total 000 Total 001 Total 002 Total 003 Total 003 Total 005 Total 006 Total 007 Total 007 Total 008 Total 009 Total 009 Total 009 Total 010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October Total 011 January February March April May June July August September October November Doccember Total 011 January February March April May June July August September October November December Doccomber	104 104		674,729	19.6	76.2
999 Total 000 Total 001 Total 002 Total 003 Total 004 Total 005 Total 006 Total 007 Total 007 Total 008 Total 009 Total 009 Total 009 Total 009 Total 010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October November Doctober November December December December	104	99.716	628,644	18.0	71.1
000 Total 001 Total 002 Total 003 Total 004 Total 005 Total 005 Total 006 Total 007 Total 008 Total 009 Total 009 Total 009 Total 009 Total 010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October November September October April May June July August September October November December October November December October November December December December December December December December December		97.070	673,702	18.6	78.2
000 Total 001 Total 002 Total 003 Total 004 Total 005 Total 005 Total 006 Total 007 Total 008 Total 009 Total 009 Total 009 Total 009 Total 010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October November September October April May June July August September October November December October November December October November December December December December December December December December		97.411	728,254	19.7	85.3
001 Total 002 Total 003 Total 003 Total 004 Total 005 Total 006 Total 007 Total 008 Total 009 Total 009 Total 0010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October Total 011 January February March April May June July August September October October November December October November December		97.860	753,893	19.8	88.1
002 Total 003 Total 004 Total 005 Total 006 Total 007 Total 008 Total 009 Total 009 Total 009 Total 009 Total 010 January February March April May June July August September October November December Total 011 January February March April May September October November July August September Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December	104	98.159	768,826	20.6	89.4
003 Total 004 Total 005 Total 006 Total 007 Total 008 Total 009 Total 009 Total 0010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total	104	98.657	780,064	20.2	90.3
004 Total 005 Total 006 Total 007 Total 008 Total 009 Total 009 Total 0010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December Total 011 January February March April May June July August September October Total 011 January February March April May June July August September October October November December					
005 Total 006 Total 007 Total 008 Total 009 Total 010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December	104	99.209	763,733	19.7	87.9
006 Total 007 Total 008 Total 009 Total 010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December	104	99.628	788,528	19.9	90.1
1007 Total 1008 Total 1009 Total 100	104	99.988	781,986	19.3	89.3
008 Total 009 Total 010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December	104	100.334	787,219	19.4	89.6
008 Total 009 Total 010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December	104	100.266	806.425	19.4	91.8
000 Total 010 January February March April May June July August September October November December Total 011 January February March April May June July August September October November December	104	100.755	806,208	19.6	91.1
February March April May June July August September October November December Total 011 January February March April May June July August September Cotober Total 012 September December Total 013 September December December December Total 014 January February March April May June July August September October November December	104	101.004	798,855	20.2	90.3
February March April May June July August September October November December Total 011 January February March April May June July August September Cotober November December Total 012 January February March April May June July August September October November December December	104	e E 101.002	72.569	20.1	E 96.6
March	104	E 101.000	65,245	20.4	E 96.1
April May June December October Nay March May March May May Not May May March May June Not May May Not	104	E 100.998	64,635	20.7	E 86.0
May June July August September October November December Total 011 January February March April May June July August September October November December October November December December	104	E 100.996	57,611	20.0	E 79.2
June		E 101.063			
July	104		66,658	20.3	E 88.7
August September October November December Total 011 January February March April May June July August September October November December December December	104	E 101.094	68,301	18.2	E 93.8
September October November December Total 011 January February March April May June July August September October November December December	104	E 101.092	71,913	17.6	^E 95.6
October November December Total 911 January February March April May June July August September October November December	104	E 101.090	71,574	17.5	^E 95.2
October November December Total 011 January February March April May June July August September October November December	104	E 101.088	69,371	20.0	^E 95.3
November December Dec	104	E 101.104	62,751	20.4	E 83.4
December	104	E 101.129	62,655	20.5	E 86.0
Total	104	101.167	73,683	20.3	97.9
February	104	101.167	806,968	19.6	91.1
February	104	E 101.167	72.743	20.0	E 96.6
March	104	E 101.167	64,789	20.7	E 95.3
April May June July August September October November December	104	E 101.167	65,662	20.6	E 87.2
May					
June July July August September October November December	104	E 101.167	54,547	18.0	E 74.9
July	104	E 101.167	57,017	17.6	E 75.8
August September October November December	104	^E 101.281	65,270	17.7	E 89.5
September October November December	104	^E 101.281	72,345	17.2	E 96.0
September October November December	104	E 101.351	71,339	17.6	^E 94.6
October November December	104	E 101.351	66,849	19.8	^E 91.6
November December	104	E 101.351	63,354	20.5	E 84.0
December	104	E 101.351	64.474	21.2	E 88.4
	104	P 101.423	71,837	21.4	P 95.2
Total	104	P 101.423	790,225	19.2	[₽] 89.1
012 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
3-Month Total	104	E 101.423	197,962	20.6	^E 89.4
011 3-Month Total		^E 101.167 ^E 100.998	203,193	20.4	^E 93.0 ^E 92.8

^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, http://www.eia.gov/totalenergy/data/annual/#nuclear.

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

across the 12 months.

P=Preliminary. E=Estimate.

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

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

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

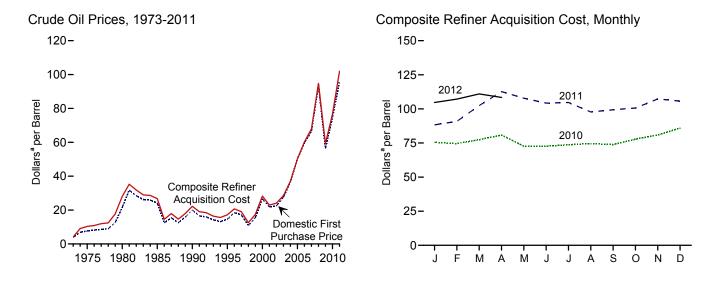
See Table 7.2a.

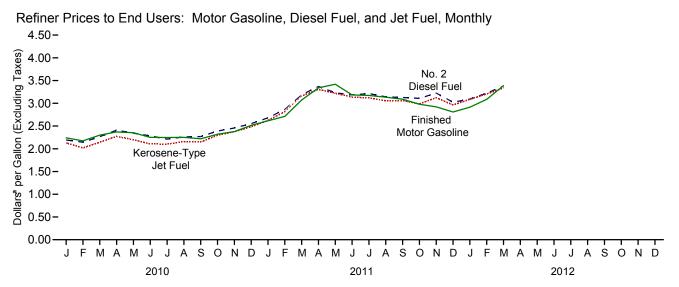
Capacity Factor

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

9. Energy Prices

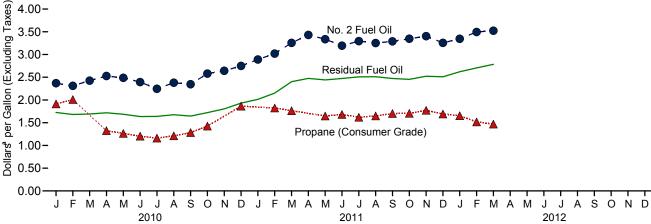
Figure 9.1 Petroleum Prices







Refiner Prices to End Users: No. 2 Fuel Oil, Propane, and Residual Fuel, Monthly



^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
072 Averege	3.89	^f 5.21	f 6.41	E 4.17	E 4.08	E 4.15
973 Average						
975 Average	7.67	11.18	12.70	8.39	13.93	10.38
980 Average	21.59	32.37	33.67	24.23	33.89	28.07
985 Average	24.09	25.84	26.67	26.66	26.99	26.75
990 Average	20.03	20.37	21.13	22.59	21.76	22.22
995 Average	14.62	15.69	16.78	17.33	17.14	17.23
996 Average	18.46	19.32	20.31	20.77	20.64	20.71
997 Average	17.23	16.94	18.11	19.61	18.53	19.04
998 Average	10.87	10.76	11.84	13.18	12.04	12.52
999 Average	15.56	16.47	17.23	17.90	17.26	17.51
000 Average	26.72	26.27	27.53	29.11	27.70	28.26
001 Average	21.84	20.46	21.82	24.33	22.00	22.95
002 Average	22.51	22.63	23.91	24.65	23.71	24.10
003 Average	27.56	25.86	27.69	29.82	27.71	28.53
004 Average	36.77	33.75	36.07	38.97	35.90	36.98
005 Average	50.28	47.60	49.29	52.94	48.86	50.24
006 Average	59.69	57.03	59.11	62.62	59.02	60.24
007 Average	66.52	66.36	67.97	69.65	67.04	67.94
008 Average	94.04	90.32	93.33	98.47	92.77	94.74
009 Average	56.35	57.78	60.23	59.49	59.17	59.29
010 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
011 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
	102.46	105.92	108.28	107.55	107.99	107.82
May	97.30	104.35	105.19			107.62
June				102.53	105.36	
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
012 January	98.99	R 103.96	R 105.27	103.97	105.25	104.70
February	102.05	^R 108.89	^R 108.72	105.93	^R 108.08	^R 107.18
March	R 105.42	^R 113.02	^R 110.29	^R 110.88	^R 111.00	R 110.95
April	NA	NA	NA	E 109.78	E 107.48	E 108.41

f Based 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 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are the averages of the monthly prices, weighted by volume.

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 "Nominal Dollars" in Glossary.
 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 F.O.B. Costs," at end of section.
See Note 4, "Crude Oil Landed Costs," at end of section.

Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all U.S. Territories and Possessions.

Table 9.2 F.O.B. Costs of Crude Oil Imports From Selected Countries

(Dollarsa per Barrel)

			S	elected Count	ries			Doroion		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC
1973 Averaged	w	w	_	7.81	3.25	_	5.39	3.68	5.43	4.80
1975 Average	10.97	_	11.44	11.82	10.87	_	11.04	10.88	11.34	10.62
1980 Average	33.45	W	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
1985 Average	26.30	_	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
1990 Average	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
1995 Average	16.58	16.73	15.64	17.40	W	16.94	13.86	W	15.36	16.02
1996 Average	20.71	21.33	19.14	21.27	19.28	19.43	17.73	19.22	18.94	19.65
1997 Average	18.81	18.85	16.72	19.43	15.16	18.59	15.33	15.24	16.26	17.51
1998 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
1999 Average	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
2000 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
2001 Average	23.25	24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
2002 Average	24.09 28.22	24.64	21.60	25.38 29.40	23.92	24.50	20.13	23.38	22.18	22.93
2003 Average 2004 Average	20.22 37.26	28.89 37.73	24.83 31.55	29.40 38.71	25.03 34.08	28.76 37.30	23.81 31.78	25.17 33.08	25.36 33.95	26.21 33.58
2005 Average	52.48	51.89	43.00	55.95	47.96	54.48	46.39	47.21	49.60	45.79
2006 Average	62.23	59.77	52.91	65.69	56.09	66.03	55.80	56.02	59.18	55.35
2007 Average	67.80	67.93	61.35	76.64	W	69.96	64.10	69.93	69.58	62.69
2008 Average	95.66	91.17	84.61	102.06	93.03	96.33	88.06	91.44	93.15	87.15
2009 Average	57.07	57.90	56.47	64.61	57.87	65.63	55.58	59.53	58.53	57.16
2010 January	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 69.88	68.53 69.53	79.63 75.70	W W	- W	67.25	71.76	72.16	69.87 70.35
August	77.11 W	69.88	69.53	75.70 80.93	74.06	VV —	68.27	72.79 73.34	72.38 73.24	70.35 70.24
September	W	76.06	73.93	84.59	74.06 W	_	67.59 72.10	73.34 78.28	73.24 77.55	73.80
October November	85.99	78.92	73.93 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 W	-	96.93 105.44	105.62	105.20	98.65
November	112.49	106.97	107.94	115.35 W	W	_		106.51	108.16	104.17
December Average	111.26 111.82	103.10 100.19	105.96 100.92	115.35	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	R 107.51	R 107.51	R 101.40
February	121.45	114.47	R 110.14	R 124.31	W	_	R 110.37	111.12	R 113.85	R 103.98
March	W	118.46	115.11	127.94	W	_	113.11	118.12	117.37	108.65

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. • U.S. geographic coverage is the 50 States and the District of Columbia

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

^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 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 individual company data.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollarsa per Barrel)

1973 Average					Selected	Countries						
1975 Average		Angola	Canada	Colombia	Mexico	Nigeria			Venezuela			Total Non-OPEC ^C
1986 Average 27.39 25.71 — 25.63 28.96 24.72 28.36 24.49 25.50 26.86 29.91 30.59 33.56 39.93 Average 27.39 25.71 — 25.63 28.96 24.72 28.36 24.49 25.50 26.86 29.90 Average 21.51 20.48 22.34 19.64 23.33 21.82 22.65 20.31 20.55 21.23 21.995 Average 17.66 16.65 17.45 16.19 18.25 16.84 17.91 14.81 16.78 16.61 19.95 Average 21.86 19.94 22.02 19.64 21.95 20.49 20.88 18.59 20.45 20.14 21.997 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 16.35 17.44 17.73 19.97 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 16.35 17.44 17.73 19.98 Average 13.57 11.62 19.98 11.64 14.14 11.16 13.55 11.55 11.69 11.44 14.14 11.16 13.55 11.69 11.	1973 Averaged	w	5.33	w	_	9.08	5.37	_	5.99	5.91	6.85	5.64
1985 Average 27.39 25.71 - 25.63 28.96 24.72 28.36 24.43 25.50 26.86 29.09 27.51 1990 Average 27.51 20.48 22.34 19.64 23.33 21.82 22.65 20.31 20.55 21.23 2 1995 Average 17.66 16.65 17.45 16.19 18.25 16.84 17.91 14.81 16.78 16.61 16.78 16.61 1996 Average 21.86 19.94 20.02 19.64 21.95 20.49 20.88 18.59 20.45 20.14 2 1997 Average 21.86 19.94 20.02 19.64 21.95 20.49 20.88 18.59 20.45 20.14 2 1997 Average 21.86 19.94 20.02 19.64 21.95 20.49 20.88 18.59 20.45 20.14 2 1998 Average 13.37 17.62 13.26 11.04 14.14 11.16 13.55 10.16 17.44 17.73 1 1998 Average 18.37 17.54 18.09 16.12 17.63 17.48 18.26 15.58 17.47 16.94 17.90 2004 Average 25.57 26.92 29.68 26.03 30.04 25.58 29.26 20.05 26.77 27.22 2 2001 Average 25.13 20.29 28.88 26.03 30.04 25.58 29.26 20.05 26.77 27.22 2 2001 Average 25.13 20.29 28.88 26.03 30.04 25.58 29.59 28.50 20.90 28.33 20.90 28.30 20.90 28.30 20.90 28.30 20.90 28.30 20.90 28.30 20.90 28.30 20.90 20.	1975 Average							-				12.70
1995 Average	1980 Average	34.76	30.11	W	31.77	37.15	29.80	35.68	25.92		33.56	33.99
1995 Average				_								26.53
1996 Average 21.86 19.94 22.02 19.64 21.95 20.49 20.88 18.59 20.45 20.14 1997 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 16.35 17.44 17.73 1988 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 10.16 11.18 11.46 11.99 Average 18.37 17.54 18.09 16.12 17.63 17.48 18.26 15.58 17.37 16.94 17.90 Average 29.57 26.69 29.68 26.03 30.04 26.58 29.26 26.05 26.77 27.29 2001 Average 25.13 20.72 25.88 19.37 26.55 20.98 25.32 19.81 20.73 21.52 2002 Average 25.43 22.98 25.28 22.09 26.45 24.77 26.35 21.93 24.13 23.83 20.03 Average 30.14 26.76 30.55 25.48 31.07 27.50 30.62 25.70 27.54 27.70 20.03 Average 30.62 34.51 39.03 32.25 40.95 37.11 39.28 33.79 36.53 36.84 32.003 Average 34.51 39.03 32.25 40.95 37.11 39.28 33.79 36.53 36.84 32.005 Average 54.31 44.73 53.42 43.47 57.55 50.31 55.28 47.87 49.68 51.36 42.007 Average 71.27 60.38 70.91 62.31 78.01 70.78 72.47 66.13 69.83 71.14 66.207 Average 98.18 90.09 33.48 85.37 104.83 94.75 96.59 90.76 93.59 95.49 95.49 95.50 95.35 90.76 93.59 95.4	1990 Average											20.98
1997 Average 20.24 17.63 19.71 17.30 20.64 17.52 20.64 16.35 17.44 17.73 1998 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 10.16 11.18 11.46 11.998 Average 29.57 26.69 29.68 26.03 30.04 26.58 29.26 26.05 26.77 27.29 20.001 Average 29.57 26.69 29.68 26.03 30.04 26.58 29.26 26.05 26.77 27.29 20.001 Average 25.13 20.72 25.88 19.37 26.55 20.98 25.32 19.81 20.73 21.52 2002 Average 25.43 22.98 25.28 20.99 26.45 24.77 26.35 21.93 24.13 23.83 20.30 Average 30.14 26.76 30.55 25.48 31.07 27.50 30.62 25.70 27.54 27.70 20.004 Average 39.62 34.51 39.03 32.25 40.95 37.11 39.28 33.79 36.53 36.84 37.004 Average 54.31 44.73 53.42 43.47 57.55 50.31 55.28 47.87 49.68 51.36 40.2006 Average 64.85 53.90 62.13 53.76 68.26 59.19 67.44 57.37 55.92 61.21 50.008 Average 98.18 90.00 93.43 85.97 104.83 94.75 96.55 90.76 93.59 95.49 90.75												16.95
1998 Average 13.37 11.62 13.26 11.04 14.14 11.16 13.55 10.16 11.18 11.46 12.1999 Average 18.37 17.54 18.09 16.12 17.63 17.48 18.26 15.58 17.37 16.94 1 2000 Average 29.57 26.69 29.68 26.03 30.04 26.58 29.26 26.05 26.07 27.29 2 2012 Average 25.13 20.72 25.88 19.37 26.55 20.98 25.32 19.81 20.73 21.52 2 2002 Average 25.13 20.72 25.88 22.09 26.45 24.77 26.35 21.93 24.13 23.83 2 2003 Average 30.14 26.76 30.55 25.48 31.07 27.50 30.62 25.70 27.54 27.70 204 Average 39.62 34.51 39.03 32.25 40.95 37.11 39.28 33.79 36.53 36.84 3 2005 Average 54.31 44.73 53.42 43.47 57.55 50.31 55.28 47.87 49.68 51.36 44.73 2004 Average 64.85 53.90 62.13 53.76 68.26 59.19 67.44 57.37 58.92 61.21 52.2007 Average 97.127 60.38 70.91 62.31 78.01 70.78 77.70 72.47 66.13 69.83 71.14 62.008 Average 98.18 90.00 93.43 85.97 104.83 94.75 96.95 90.76 69.83 71.14 62.008 Average 61.32 57.60 58.50 57.35 68.01 62.14 63.87 57.78 62.15 61.90 52.009 Average 61.32 57.60 58.50 57.35 68.01 62.14 63.87 57.78 62.15 61.90 52.000 Average 77.37 77.32 72.59 74.26 73.37 73.11 69.48 79.25 77.29 77.84 70.91 77.27 76.24 77.48 69.93 69.76 69.93 79.79 77.29 77.55 78.40 75.91 77.27 76.24 77.48 69.93 69.76 69.16 62.14 69.64 68.02 78.14 76.01 77.67 79.07 72.92 77.55 78.40 79.11 77.27 76.24 79.11 79.12 77.20 77.29 77.55 78.40 79.11 77.27 76.24 79.11 79.12 77.20 77.29 77.55 78.40 79.11 77.27 76.24 79.11 79.12 77.20 77.29 77.55 78.40 79.11 77.27 76.24 77.30 79.07 72.92 77.55 78.40 79.11 77.27 76.24 79.11 79.11 77.27 76.24 79.11 79.11 79.12 77.29 77.55 78.40 79.11 77.27 76.24 79.11 79.11 79.12 77.29 77.55 78.40 79.11 77.27 76.24 77.30 79.07 72.92 77.55 78.40 79.11 79.15 80.07 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.29 77.55 78.40 79.17 77.50 78.40 79.10 79.10 79.10 79.10 79.10 79.10 79.10 79.10 79.10 79.10 79.												20.47
1999 Average 18.37 17.54 18.09 16.12 17.63 17.48 18.26 15.58 17.37 16.94 12000 Average 29.57 26.69 29.68 20.33 30.4 26.58 29.26 20.55 26.77 27.29 2001 Average 25.13 20.72 25.88 19.37 26.55 20.98 25.32 19.81 20.73 21.52 2002 Average 30.14 26.76 30.55 25.84 31.07 27.50 30.62 25.70 27.54 27.70 20.04 Average 39.62 34.51 39.03 32.25 40.95 37.11 39.28 33.79 36.53 36.84 32.003 Average 54.31 44.73 53.42 43.47 57.55 50.31 55.28 47.87 49.68 51.36 42.006 Average 64.85 53.90 62.13 53.76 68.26 59.19 67.44 57.37 58.92 61.21 52.008 Average 98.18 90.00 93.43 85.97 104.83 94.75 80.95 90.76 93.59 95.49 98.18 90.00 93.43 85.97 104.83 94.75 96.95 90.76 93.59 95.49 98.2008 Average 61.32 57.60 58.50 57.35 68.01 62.14 63.87 57.78 62.15 61.90 57.49 10.00 57.49 10.												18.45 12.22
2000 Average 29.57 26.69 29.68 26.03 30.04 26.58 29.26 26.05 26.77 27.29 22.2021 Average 25.13 20.72 25.88 19.37 26.55 20.99 25.32 19.81 20.73 21.52 22.202 20.24 27.77 26.35 21.93 24.13 23.83 2 2003 Average 30.61 26.67 30.55 25.48 31.07 27.50 30.62 25.70 27.70 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.770 22.81 28.01 20.780 20.780 28.181 39.03 32.25 40.95 57.11 39.28 33.79 36.53 58.92 61.21 58.02 57.00 58.50 57.35 68.26 59.19 67.44 57.37 58.92 61.21 59.20 59.49 90.26<												17.51
2002 Average 25.13 20.72 25.88 19.37 26.55 20.98 25.32 19.81 20.73 21.52 2002 Average 25.43 22.98 25.28 22.09 26.45 24.77 26.35 21.93 24.13 23.83 2 2003 Average 30.14 26.76 30.55 25.48 31.07 27.50 30.62 25.70 27.54 27.70 2 30.40 Average 39.62 34.51 39.03 32.25 40.95 37.11 39.28 33.79 36.53 36.84 3 2005 Average 54.31 44.73 53.42 43.47 57.55 50.31 55.28 47.87 49.68 51.36 40.206 Average 64.85 53.90 62.13 53.76 68.26 59.19 67.44 57.37 58.92 61.21 5 2006 Average 98.18 90.00 93.43 85.97 104.83 47.75 96.95 90.76 61.3 69.83 71.14 2008 Average 98.18 90.00 93.43 85.97 104.83 47.75 96.95 90.76 93.59 95.49 92.009 Average 61.32 57.60 58.50 57.35 68.01 62.14 63.87 57.78 62.15 61.90 5 2008 Average 61.32 57.60 58.50 57.35 68.01 62.14 63.87 57.78 62.15 61.90 5 2009 Average 77.22 77.52 77.62 47.75 68.01 62.14 63.87 57.78 62.15 61.90 5 2009 Average 61.32 57.60 58.50 57.35 68.01 62.14 63.87 57.78 62.15 61.90 5 2009 Average 77.22 77.52 77.80 77.97 72.28 77.55 78.40 77.97 72.29 77.84 77.97 72.20 77.55 78.40 77.97 72.20 77.55 78.40 77.97 72.20 77.55 78.40 77.97 72.20 77.55 78.40 77.97 72.20 77.55 78.40 77.97 72.20 77.55 78.40 77.20 77.80 77.80 77.20 77.80 77.80 77.20 77.80 77.80 77.20 77.80 77.80 77.20 77.80 7												27.80
2003 Average 30.14 26.76 30.55 25.48 31.07 27.50 30.62 25.70 27.54 27.70 2 2003 Average 39.62 34.51 39.03 32.25 40.95 37.11 39.28 33.79 36.53 36.84 27.70 2 2005 Average 54.31 44.73 53.42 43.47 57.55 50.31 55.28 47.87 49.68 51.36 54.20												22.17
2003 Average 30.14 26.76 30.55 25.48 31.07 27.50 30.62 25.70 27.54 27.70 2004 Average 39.62 34.51 39.03 30.22 40.95 37.11 39.28 33.79 36.53 36.84 2006 Average 54.31 44.73 53.42 43.47 57.55 50.31 55.28 47.87 49.68 51.36 42.006 Average 64.85 53.90 62.13 53.76 68.26 59.19 67.44 57.37 58.92 61.21 52.006 Average 71.27 60.38 70.91 62.31 78.01 70.78 72.47 66.13 69.83 71.14 62.08 Average 98.18 90.00 93.43 85.97 104.83 94.75 96.95 90.76 93.59 95.49 90.00 93.43 85.97 104.83 94.75 96.95 90.76 93.59 95.49 90.00 93.43 85.97 104.83 94.75 96.95 90.76 93.59 95.49 90.00 93.49 90.00 93.43 85.97 104.83 94.75 96.95 90.76 93.59 95.49 90.00 93.49 90.00 93.43 85.97 104.83 94.75 96.95 90.76 93.59 95.49 90.00 93.49 90.00 93.43 85.97 104.83 94.75 96.95 90.76 93.59 95.49 90.00 93.40 90.00 93.43 96.90 90.00 93.43 94.75 96.95 90.76 93.59 95.49 90.00 93.40 90.00 93.43 96.90 90.00 93.43 94.75 96.95 90.76 93.59 95.49 90.00 93.40 90.00 93.43 96.90 90.00 93.43 94.75 96.95 90.76 93.59 95.49 90.00 93.43 94.75 90.00 93.43 94.75 96.95 90.76 93.59 95.49 90.00 93.43 94.75 90.00 93.43 94.75 90.00 93.43 94.75 90.00 93.43 94.75 90.00 93.43 94.75 90.00 93.43 94.75 90.00 93.44 90.48 93.95 97.25 97.84 90.01 97.27 90.00 93.43 94.75 90.00 93.43 94.75 90.00 93.43 94.75 90.00 93.43 94.75 90.00 93.43 94.75 90.00 93.43 94.75 94.90 93.90 93.43 94.75 94.90 9												23.97
2005 Average 54.31 44.73 53.42 43.47 57.55 50.31 55.28 47.87 49.68 51.36 4 2005 Average 64.85 53.90 62.13 53.76 68.26 59.19 67.44 57.37 58.92 61.21 52.007 Average 71.27 60.38 70.91 62.31 78.01 70.78 72.47 66.13 68.83 71.14 6 2008 Average 98.18 90.00 93.43 85.97 104.83 94.75 96.95 90.76 93.59 95.49 9 2009 Average 61.32 57.60 55.50 57.35 68.01 62.14 63.87 57.78 62.15 61.90 5 5 2009 Average 61.32 57.60 55.50 57.35 68.01 62.14 63.87 77.97 72.63 76.34 75.91 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7												27.68
2005 Average 54.31 44.73 53.42 43.47 57.55 50.31 55.28 47.87 49.68 51.36 4 2006 Average 71.27 60.38 70.91 62.31 78.01 70.78 72.47 66.13 69.83 71.14 6 2008 Average 98.18 90.00 93.43 85.97 104.83 94.75 96.95 90.76 93.59 95.49 9 2010 January 77.32 72.59 74.26 73.23 78.58 76.63 77.97 72.63 76.34 75.91 7 February 79.06 73.37 73.11 69.48 79.25 77.29 77.84 70.91 77.27 76.24 7 April 82.26 78.36 76.03 75.03 86.80 79.53 80.25 75.21 79.15 86.07 7 49.15 80.95 75.21 79.15 80.07 7 49.15 80.07 7 7 80.07 7 7 <td></td> <td>35.29</td>												35.29
2006 Average 71.27 60.38 70.91 62.31 78.01 70.78 72.47 66.13 69.83 71.14 6208 Average 98.18 90.00 93.43 85.97 104.83 94.75 96.95 90.76 93.59 95.49 9209 Average 61.32 57.60 58.50 57.35 68.01 62.14 63.87 57.78 62.15 61.90 52009 Average 61.32 57.60 58.50 57.35 68.01 62.14 63.87 57.78 62.15 61.90 52010 January 77.32 72.59 74.26 73.23 78.58 76.63 77.97 72.63 76.34 75.91 75.40 75.4												47.31
2007 Average 71.27 60.38 70.91 62.31 78.01 70.78 72.47 66.13 69.83 71.14 6208 Average 98.18 90.00 93.43 85.97 104.83 94.75 96.95 90.76 93.59 95.49 95.49 2009 Average 61.32 57.60 58.50 57.35 68.01 62.14 63.87 57.78 62.15 61.90 5 2010 January 77.32 72.59 74.26 73.23 78.58 76.63 77.97 72.63 76.34 75.91 7 February 79.06 73.37 73.11 69.48 79.25 77.29 77.84 70.91 77.27 76.24 7 April 82.26 78.36 76.03 73.07 83.68 77.57 79.07 72.92 77.55 78.40 7 April 82.26 78.36 76.33 75.03 86.80 79.53 80.25 75.21 79.15 80.07 7 June 76.54 69.14 69.64 68.02 78.14 76.01 77.67 68.30 75.14 74.55 7 June 76.54 69.14 69.64 68.02 78.14 76.01 77.67 68.30 75.14 74.55 7 August 78.40 70.10 71.49 69.95 79.15 76.06 79.52 70.14 75.81 75.42 7 October 85.33 69.23 76.72 74.73 86.01 81.81 W 74.29 81.24 80.52 7 November 86.98 75.40 80.24 77.55 89.15 84.62 87.10 77.53 84.09 84.38 7 December 91.77 80.76 82.76 82.37 95.44 90.45 92.50 80.79 89.99 89.25 8 Average 80.63 72.80 74.25 72.86 83.15 79.25 80.12 72.43 78.58 78.27 7 2011 January 99.58 81.43 85.88 85.00 10.124 96.59 W 84.70 96.57 94.03 88.70 June 116.73 92.36 104.31 103.03 117.17 110.12 118.42 101.22 109.56 109.23 10.14 July 117.98 91.76 116.76 98.29 109.70 105.62 112.99 W 104.04 111.48 111.90 10.14 July 117.98 91.76 116.53 89.15 12.64 110.00 W 103.04 110.19 111.58 10.00 July 117.98 91.76 110.57 99.90 110.07 99.96 112.47 110.55 126.47 110.00 W 103.04 110.19 111.58 10.00 July 117.98 91.76 110.53 105.38 115.81 110.00 W 103.04 110.19 111.58 10.00 July 117.98 91.76 10.13 105.38 115.81 110.00 W 103.04 110.19 111.58 10.00 July 117.98 91.76 10.13 105.62 119.95 112.19 W 104.04 111.48 111.90 10.00 July 117.98 91.76 10.13 105.63 117.17 10.12 118.42 10.12 109.56 109.23 100.64 10.19 10.19 11.58 10.00 July 117.98 91.76 10.13 105.63 117.17 10.19 11.00 W 103.04 110.19 111.58 10.00 July 117.98 91.76 10.135 105.38 115.83 110.90 W 99.89 108.07 107.98 90.00 July 115.65 95.74 106.64 106.31 117.10 108.81 118.35 100.44 100.80 107.85 90.00 July 115.65 95.74 106.64 106.31 117.10 108.81 118.35 100.44 100.80 107.85		64.85	53.90	62.13	53.76	68.26	59.19	67.44	57.37	58.92	61.21	57.14
2009 Average 61.32 57.60 58.50 57.35 68.01 62.14 63.87 57.78 62.15 61.90 5 2010 January 77.32 72.59 74.26 73.23 78.58 76.63 77.97 72.63 76.34 75.91 77.84 70.91 77.27 76.24 77.624 77.97 77.29 77.84 70.91 77.27 76.24 77.90 77.29 77.84 70.91 77.27 76.24 77.624 77.624 77.624 77.624 77.624 77.624 77.624 77.624 77.624 77.624 77.629 77.555 78.40 77.624 77.624 78.00 77.529 77.525 77.624 77.907 72.92 77.555 78.40 77.907 72.62 77.915 88.007 77.915 78.00 77.915 78.00 77.915 78.00 78.00 77.915 78.00 78.52 77.15 68.00 77.720 70.25 71.61 69.91 78.14 76.01 77.67		71.27	60.38	70.91	62.31	78.01	70.78	72.47		69.83	71.14	63.96
2010 January 77.32 72.59 74.26 73.23 78.58 76.63 77.97 72.63 76.34 75.91 7 February 79.06 73.37 73.11 69.48 79.25 77.29 77.84 70.91 77.27 76.24 7 March 80.93 76.82 76.08 73.07 83.68 77.57 79.07 72.92 77.55 78.40 7 April 82.26 78.36 76.33 75.03 86.80 79.53 80.25 75.21 79.15 80.07 7 May 74.80 69.16 66.52 68.71 76.90 77.52 W 68.53 76.20 73.95 7 June 76.54 69.14 69.64 68.02 78.14 76.01 77.67 68.30 75.14 74.55 7 June 77.20 70.25 71.61 69.31 81.07 75.46 76.60 69.59 74.75 74.81 7 7 August 78.40 70.10 71.49 69.95 79.15 76.06 79.52 70.14 75.81 75.42 7 September 80.49 68.66 70.85 70.47 81.58 77.15 W 68.88 76.64 76.39 7 October 85.33 69.23 76.72 74.73 86.01 81.81 W 74.29 81.24 80.52 7 November 86.98 75.40 80.24 77.55 89.15 84.62 87.10 77.53 84.09 84.38 7 December 91.77 80.76 82.27 682.37 95.44 90.45 92.50 80.79 89.99 89.25 8 Average 80.63 72.80 74.25 72.86 83.15 79.25 80.12 72.43 78.58 78.27 7 20.11 4.00 89.32 105.74 103.03 117.17 110.12 118.42 101.22 109.56 109.23 10.40 March 114.40 89.32 105.74 103.03 117.17 110.12 118.42 101.22 109.56 109.23 10.40 March 116.73 92.36 104.31 103.71 120.81 110.00 W 102.32 108.97 109.87 109.87 109.98 10.80 10.24 90.98 115.83 109.38 W 99.54 108.26 106.24 93.80 100.24 93.80 115.81 100.99 W 99.59 108.07 109.87 109.87 100.98 115.18 116.64 100.99 115.18 115.13 893.43 810.52 108.81 118.35 100.14 108.06 107.85 100.24 114.05 90.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 2012 January 815.51 80.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 2012 January 815.51 90.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 2012 January 815.51 80.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 2012 January 815.51 80.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 2012 January 815.51 80.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 2012 January 815.51 80.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 2012 January 815.51 80.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 2012 January 815.51 80.03 102.53 101.22 116.40 10	2008 Average											90.59
February 79.06 73.37 73.11 69.48 79.25 77.29 77.84 70.91 77.27 76.24 77.84 March 80.93 76.82 76.08 73.07 83.68 77.57 79.07 72.92 77.55 78.40 79.15 80.07 77.50 80.07 77.50 80.07 77.50 80.07 77.50 80.07 77.50 80.07 77.50 80.07 77.50 80.07 77.50 80.07 77.50 80.07 77.50 80.07 77.50 80.07 77.50 80.07 77.50 80.07 77.50 80.07 80.	2009 Average	61.32	57.60	58.50	57.35	68.01	62.14	63.87	57.78	62.15	61.90	58.58
March 80.93 76.82 76.08 73.07 83.68 77.57 79.07 72.92 77.55 78.40 77.40 April 82.26 78.36 76.33 75.03 86.80 79.53 80.25 75.21 79.15 80.07 73.95 7 May 74.80 69.16 66.52 68.71 76.90 77.52 W 68.53 76.20 73.95 7 June 76.54 69.14 69.64 68.02 78.14 76.01 77.67 68.30 75.14 74.55 7 14.15 70.07 72.92 76.54 74.81 7 74.81 77.41 76.06 76.06 79.52 70.14 75.81 75.42 7 74.81 7 76.06 79.52 70.14 75.81 75.42 7 78.96 80.93 76.06 79.52 70.14 75.81 75.42 7 7 89.95 89.95 79.15 76.06 79.52 70.14 75.81 <td>2010 January</td> <td></td> <td></td> <td></td> <td></td> <td>78.58</td> <td>76.63</td> <td></td> <td></td> <td>76.34</td> <td></td> <td>73.59</td>	2010 January					78.58	76.63			76.34		73.59
April 82.26 78.36 76.33 75.03 86.80 79.53 80.25 75.21 79.15 80.07 7 May 74.80 69.16 66.52 68.71 76.90 77.52 W 68.53 76.20 73.95 7 June 76.54 69.14 69.64 68.02 78.14 76.01 77.67 68.30 75.14 74.55 7 July 77.20 70.25 71.61 69.31 81.07 75.46 76.60 69.59 74.75 74.81 7 August 78.40 70.10 71.49 69.95 79.15 76.06 79.52 70.14 75.81 75.42 7 September 80.49 68.66 70.85 70.47 81.58 77.15 W 68.88 76.64 76.39 7 October 85.33 69.23 76.72 74.73 86.01 81.81 W 74.29 81.24 80.52 7 November 86.98 75.40 80.24 77.55 89.15 84.62 87.10 77.53 84.09 84.38 7 December 91.77 80.76 82.76 82.37 95.44 90.45 92.50 80.79 89.99 89.25 8 Average 80.63 72.80 74.25 72.86 83.15 79.25 80.12 72.43 78.58 78.27 7 7 2011 January 99.58 81.43 85.88 85.00 101.24 96.59 W 84.70 96.57 94.03 8 February 110.07 80.65 90.14 89.08 108.94 103.20 W 89.88 101.81 99.96 8 March 114.40 89.32 105.74 103.03 117.17 110.12 118.42 101.22 109.56 109.23 10 April 116.76 98.29 109.70 105.62 119.95 112.9 W 104.04 111.48 111.90 10 June 116.73 92.36 104.31 103.71 120.81 110.00 W 102.32 108.97 109.87 100 August 113.36 84.05 95.08 98.78 115.83 12.80 113.36 84.05 95.08 98.78 115.83 109.38 W 99.54 108.26 106.24 98.09 November 115.14 93.80 108.52 108.46 117.05 108.61 W 106.90 108.35 110.09 100.00 November 115.14 93.80 108.52 108.48 117.00 108.81 118.35 100.14 108.06 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 108.81 118.35 100.14 108.06 107.85 90.00 107.85 90.00 107.85 90.00 108.81 118.35 100.14 108.06 107.85 90.00 107.85 90.00 107.85 90.00 108.80 107.85 90.00 107.85 90.00 107.85 90.00 108.80 107.85 90.00 107												73.33
May 74.80 69.16 66.52 68.71 76.90 77.52 W 68.53 76.20 73.95 7 76.54 69.14 69.64 68.02 78.14 76.01 77.67 68.30 75.14 74.55 7 74.81 77 77.20 70.25 71.61 69.31 81.07 75.46 76.60 69.59 74.75 74.81 77 August 78.40 70.10 71.49 69.95 79.15 76.06 79.52 70.14 75.81 75.42 7 September 80.49 68.66 70.85 70.47 81.58 77.15 W 68.88 76.64 76.99 7 October 85.33 69.23 76.72 74.73 86.01 81.81 W 74.29 81.24 80.52 7 November 86.98 75.40 80.24 77.55 89.15 84.62 87.10 77.53 84.09 84.38 7 December 91.77 80.76 82.37 79.55 89.15 84.62 87.10 77.53 84.09 84.38 7 Average 80.63 72.80 74.25 72.86 83.15 79.25 80.12 72.43 78.58 78.27 7 Particularly 99.58 81.43 85.88 85.00 101.24 96.59 W 84.70 96.57 94.03 8 February 110.07 80.65 90.14 89.08 108.94 103.20 W 89.88 101.81 99.96 88 March 114.40 89.32 105.74 103.03 117.17 110.12 118.42 101.22 109.56 109.23 10 April 124.01 99.26 112.47 110.55 126.47 116.13 124.67 107.95 115.18 116.64 10 August 116.76 98.29 109.70 105.62 119.95 112.19 W 104.04 111.48 111.90 10 June 116.73 92.36 104.31 103.71 120.81 110.00 W 102.32 108.97 109.87 109.87 100.40 111.58 106.64 100 August 113.36 84.05 95.08 98.78 115.83 109.38 W 99.54 108.26 106.24 90.00 107.79 106.62 109.91 115.14 93.80 108.52 108.46 117.09 108.81 118.35 100.14 108.06 107.85 90.00 107.85 105.33 101.22 116.40 108.81 118.35 100.14 108.06 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 107.85 90.00 108.81 118.35 100.14 108.06 107.85 90.00 107.85 90.00 107.85 90.00 108.80 107.85 90.00 108.80 107.85 90.00 108.80 107.85 90.00 108.80 107.85 90.00 108.80 107.85 90.00 108.80 107.85 90.00 107.85 90.00 108.80 107.85 90.00 108.80 107.85 90.00												76.84
June 76.54 69.14 69.64 68.02 78.14 76.01 77.67 68.30 75.14 74.55 7 July 77.20 70.25 71.61 69.31 81.07 75.46 76.60 69.59 74.75 74.81 7 September 80.49 68.66 70.85 70.47 81.58 77.15 W 68.88 76.64 76.39 7 October 85.33 69.23 76.72 74.73 86.01 81.81 W 74.29 81.24 80.52 7 November 86.98 75.40 80.24 77.55 89.15 84.62 87.10 77.53 84.09 84.38 7 December 91.77 80.76 82.76 82.37 95.44 90.45 92.50 80.79 89.99 89.25 8 Average 80.63 72.80 74.25 72.86 83.15 79.25 80.12 72.43 78.58 78.27 7 2												78.61
July 77.20 70.25 71.61 69.31 81.07 75.46 76.60 69.59 74.75 74.81 77 August 78.40 70.10 71.49 69.95 79.15 76.06 79.52 70.14 75.81 75.42 7 September 80.49 68.66 70.85 70.47 81.58 77.15 W 68.88 76.64 76.39 7 October 85.33 69.23 76.72 74.73 86.01 81.81 W 74.29 81.24 80.52 7 November 86.98 75.40 80.24 77.55 89.15 84.62 87.10 77.53 84.09 84.38 7 Average 80.63 72.80 74.25 72.86 83.15 79.25 80.12 72.43 78.58 78.27 7 2011 January 99.58 81.43 85.88 85.00 101.24 96.59 W 84.70 96.57 94.03 8 <												70.20
August 78.40 70.10 71.49 69.95 79.15 76.06 79.52 70.14 75.81 75.42 77.58 79.15 76.06 79.52 70.14 75.81 75.42 77.58 79.15 70.47 81.58 77.15 W 68.88 76.64 76.39 77.80 76.72 74.73 86.01 81.81 W 74.29 81.24 80.52 77.80 76.72 74.73 86.01 81.81 W 74.29 81.24 80.52 77.55 89.15 84.62 87.10 77.53 84.09 84.38 77.75 70.76 82.76 82.37 95.44 90.45 92.50 80.79 89.99 89.25 88.76 82.37 95.44 90.45 92.50 80.79 89.99 89.25 88.27 77.75 2011 January 99.58 81.43 85.88 85.00 101.24 96.59 W 84.70 96.57 94.03 88.76 78.27 77.75 2011 January </td <td></td> <td>70.92</td>												70.92
September 80.49 68.66 70.85 70.47 81.58 77.15 W 68.88 76.64 76.39 7 October 85.33 69.23 76.72 74.73 86.01 81.81 W 74.29 81.24 80.52 7 November 86.98 75.40 80.24 77.55 89.15 84.62 87.10 77.53 84.09 84.38 7 December 91.77 80.76 82.76 82.37 95.44 90.45 92.50 80.79 89.99 89.25 8 Average 80.63 72.80 74.25 72.86 83.15 79.25 80.12 72.43 78.58 78.27 7 2011 January 99.58 81.43 85.88 85.00 101.24 96.59 W 84.70 96.57 94.03 8 February 110.07 80.65 90.14 89.08 108.94 103.20 W 89.88 101.81 99.96 8												72.03 71.81
October 85.33 69.23 76.72 74.73 86.01 81.81 W 74.29 81.24 80.52 77 November 86.98 75.40 80.24 77.55 89.15 84.62 87.10 77.53 84.09 84.38 7 December 91.77 80.76 82.37 95.44 90.45 92.50 80.79 89.99 89.25 8 Average 80.63 72.80 74.25 72.86 83.15 79.25 80.12 72.43 78.58 78.27 7 2011 January 99.58 81.43 85.88 85.00 101.24 96.59 W 84.70 96.57 94.03 8 February 110.07 80.65 90.14 89.08 108.94 103.20 W 84.70 96.57 94.03 8 March 114.40 89.32 105.74 103.03 117.17 110.12 118.42 101.22 109.56 109.23 10 <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>71.89</td></tr<>												71.89
November 86.98 75.40 80.24 77.55 89.15 84.62 87.10 77.53 84.09 84.38 77 December 91.77 80.76 82.76 82.37 95.44 90.45 92.50 80.79 89.99 89.25 8 Average 80.63 72.80 74.25 72.86 83.15 79.25 80.12 72.43 78.58 78.27 7 2011 January 99.58 81.43 85.88 85.00 101.24 96.59 W 84.70 96.57 94.03 8 February 110.07 80.65 90.14 89.08 108.94 103.20 W 89.88 101.81 99.96 8 March 114.40 89.32 105.74 103.03 117.17 110.12 118.42 101.22 109.56 109.23 10 April 124.01 99.26 112.47 110.55 126.47 116.13 124.67 107.95 115.18 116.64												74.15
December 91.77 80.76 82.76 82.37 95.44 90.45 92.50 80.79 89.99 89.25 8 Average 80.63 72.80 74.25 72.86 83.15 79.25 80.12 72.43 78.58 78.27 7 2011 January 99.58 81.43 85.88 85.00 101.24 96.59 W 84.70 96.57 94.03 8 February 110.07 80.65 90.14 89.08 108.94 103.20 W 89.88 101.81 99.96 8 March 114.40 89.32 105.74 103.03 117.17 110.12 118.42 101.22 109.56 109.23 10 April 124.01 99.26 112.47 110.55 126.47 116.13 124.67 107.95 115.18 116.64 10 May 116.73 99.26 104.31 103.71 120.81 110.00 W 102.32 108.97 109.87												78.96
Average 80.63 72.80 74.25 72.86 83.15 79.25 80.12 72.43 78.58 78.27 7 2011 January 99.58 81.43 85.88 85.00 101.24 96.59 W 84.70 96.57 94.03 8 February 110.07 80.65 90.14 89.08 108.94 103.20 W 89.88 101.81 99.96 8 March 114.40 89.32 105.74 103.03 117.17 110.12 118.42 101.22 109.56 109.23 10 April 124.01 99.26 112.47 110.55 126.47 116.13 124.67 107.95 115.18 116.64 10 May 116.76 98.29 109.70 105.62 119.95 112.19 W 104.04 111.48 111.90 10 July 116.73 92.36 104.31 103.71 120.81 110.00 W 102.32 108.97 109.87												83.97
February 110.07 80.65 90.14 89.08 108.94 103.20 W 89.88 101.81 99.96 80 March 114.40 89.32 105.74 103.03 117.17 110.12 118.42 101.22 109.56 109.23 100 March 124.01 99.26 112.47 110.55 126.47 116.13 124.67 107.95 115.18 116.64 100 May 116.76 98.29 109.70 105.62 119.95 112.19 W 104.04 111.48 111.90 100 May 116.73 92.36 104.31 103.71 120.81 110.00 W 102.32 108.97 109.87 100 May 117.98 91.76 101.35 105.38 121.80 111.06 W 102.32 108.97 109.87 100 May 117.98 113.36 84.05 95.08 98.78 115.83 109.38 W 99.54 108.26 106.24 98 September 112.63 85.19 99.17 99.90 117.19 109.91 W 99.10 108.82 107.67 98 October 114.82 88.21 104.14 101.97 116.09 108.90 W 99.89 108.07 107.98 98 November 115.14 93.80 108.52 108.64 117.05 108.61 W 106.90 108.35 110.09 10 December 115.65 95.74 106.64 106.31 117.10 108.27 W 108.02 107.53 109.63 100 Average 114.05 90.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 98												74.67
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March 114.40 89.32 105.74 103.03 117.17 110.12 118.42 101.22 109.56 109.23 10 April 124.01 99.26 112.47 110.55 126.47 116.13 124.67 107.95 115.18 116.64 10 May 116.76 98.29 109.70 105.62 119.95 112.19 W 104.04 111.48 111.90 10 June 116.73 92.36 104.31 103.71 120.81 110.00 W 102.32 108.97 109.87 10 July 117.98 91.76 101.35 105.38 121.80 111.06 W 103.04 110.19 111.58 10 August 113.36 84.05 95.08 98.78 115.83 109.38 W 99.54 108.26 106.24 9 September 112.63 85.19 99.17 99.90 117.19 109.91 W 99.10 108.82 107.67 <td></td> <td>89.03</td>												89.03
May 116.76 98.29 109.70 105.62 119.95 112.19 W 104.04 111.48 111.90 10 June 116.73 92.36 104.31 103.71 120.81 110.00 W 102.32 108.97 109.87 10 July 117.98 91.76 101.35 105.38 121.80 111.06 W 103.04 110.19 111.58 10 August 113.36 84.05 95.08 98.78 115.83 109.38 W 99.54 108.26 106.24 9 September 112.63 85.19 99.17 99.90 117.19 109.91 W 99.10 108.82 107.67 9 October 114.82 88.21 104.14 101.97 116.09 108.90 W 99.89 108.07 107.98 9 November 115.14 93.80 108.52 108.46 117.05 108.61 W 106.90 108.35 110.09		114.40	89.32	105.74	103.03	117.17	110.12	118.42	101.22	109.56	109.23	101.20
June 116.73 92.36 104.31 103.71 120.81 110.00 W 102.32 108.97 109.87 10 July 117.98 91.76 101.35 105.38 121.80 111.06 W 103.04 110.19 111.58 10 August 113.36 84.05 95.08 98.78 115.83 109.38 W 99.54 108.26 106.24 9 September 112.63 85.19 99.17 99.90 117.19 109.91 W 99.10 108.82 107.67 9 October 114.82 88.21 104.14 101.97 116.09 108.90 W 99.89 108.07 107.98 9 November 115.14 93.80 108.52 108.46 117.05 108.61 W 106.90 108.35 110.09 10 December 115.65 95.74 106.64 106.31 117.10 108.27 W 108.02 107.53 109.63		124.01		112.47	110.55		116.13		107.95	115.18	116.64	108.91
July 117.98 91.76 101.35 105.38 121.80 111.06 W 103.04 110.19 111.58 102.04 August 113.36 84.05 95.08 98.78 115.83 109.38 W 99.54 108.26 106.24 106.24 September 112.63 85.19 99.17 99.90 117.19 109.91 W 99.10 108.82 107.67 9 October 114.82 88.21 104.14 101.97 116.09 108.90 W 99.89 108.07 107.98 9 November 115.14 93.80 108.52 108.46 117.05 108.61 W 106.90 108.35 110.09 10 December 115.65 95.74 106.64 106.31 117.10 108.27 W 108.02 107.53 109.63 10 Average 114.05 90.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 9 2012 January R 115.13 R 93.43 R 110.54 108.38 115.41 R 110.49 W 106.23 R 110.61 R 110.32 R 10	May	116.76										105.06
August 113.36 84.05 95.08 98.78 115.83 109.38 W 99.54 108.26 106.24 98.78 September 112.63 85.19 99.17 99.90 117.19 109.91 W 99.10 108.82 107.67 99.72 October 114.82 88.21 104.14 101.97 116.09 108.90 W 99.89 108.07 107.98 98.07 November 115.14 93.80 108.52 108.46 117.05 108.61 W 106.90 108.35 110.09 10 December 115.65 95.74 106.64 106.31 117.10 108.27 W 108.02 107.53 109.63 10 Average 114.05 90.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 9 2012 January R 115.13 R 93.43 R 110.54 108.38 115.41 R 110.49 W 106.23 R 110.61 R 110.32 R 10												100.83
September 112.63 85.19 99.17 99.90 117.19 109.91 W 99.10 108.82 107.67 9 October 114.82 88.21 104.14 101.97 116.09 108.90 W 99.89 108.07 107.98 9 November 115.14 93.80 108.52 108.46 117.05 108.61 W 106.90 108.35 110.09 10 December 115.65 95.74 106.64 106.31 117.10 108.27 W 108.02 107.53 109.63 10 Average 114.05 90.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 9 2012 January R15.13 R93.43 R10.54 108.38 115.41 R10.49 W 106.23 R10.61 R10.32 R10.32 R10.32												100.38
October 114.82 88.21 104.14 101.97 116.09 108.90 W 99.89 108.07 107.98 9 November 115.14 93.80 108.52 108.61 117.10 108.61 W 106.90 108.35 110.09 10 December 115.65 95.74 106.64 106.31 117.10 108.27 W 108.02 107.53 109.63 10 Average 114.05 90.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 9 2012 January R 115.13 R 93.43 R 110.54 108.38 115.41 R 110.49 W 106.23 R 110.61 R 110.32 R 10												93.81
November 115.14 93.80 108.52 108.46 117.05 108.61 W 106.90 108.35 110.09 10 December 115.65 95.74 106.64 106.31 117.10 108.27 W 108.02 107.53 109.63 10 Average 114.05 90.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 9 2012 January R 115.13 R 93.43 R 110.54 108.38 115.41 R 110.49 W 106.23 R 110.61 R 110.32 R 10												95.59
December												97.91
Average 114.05 90.03 102.53 101.22 116.40 108.81 118.35 100.14 108.06 107.85 9 2012 January R115.13 R93.43 R110.54 108.38 115.41 R110.49 W 106.23 R110.61 R110.32 R10.54												102.90 102.52
												98.75
	2012 January	R 115 13	R 03 12	R 110 54	108 38	115 41	R 110 40	W	106 23	R 110 61	R 110 32	R 101.31
												R 102.95
												104.56

Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

^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 1973–1902 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 trils 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."

Based on October, November, and December data only.

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. Costs, at end of section. • Values for the current two months are preminingly.

• 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.

See http://www.eia.gov/totalenergy/data/monthly/#prices for all

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, June 2012, Table 22.

Table 9.4 Motor Gasoline Retail Prices, U.S. City Average

	Leaded Regular	Unleaded Regular	Unleaded Premium ^b	All Types ^c
772 Average	0.388	NA NA	NA	NA
73 Average		NA NA	NA NA	NA NA
75 Average	0.567			
80 Average	1.191	1.245	NA .	1.221
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
00 Average	NA	1.510	1.693	1.563
01 Average	NA	1.461	1.657	1.531
02 Average	NA NA	1.358	1.556	1.441
	NA NA			
3 Average		1.591	1.777	1.638
04 Average	NA	1.880	2.068	1.923
05 Average	NA	2.295	2.491	2.338
06 Average	NA	2.589	2.805	2.635
07 Average	NA	2.801	3.033	2.849
08 Average	NA	3.266	3.519	3.317
09 Average	NA	2.350	2.607	2.401
10 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
	NA NA	2.745	3.015	2.795
August				
September	NA	2.704	2.968	2.754
October	NA	2.795	3.055	2.843
November	NA	2.852	3.109	2.899
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
	NA NA	3.630	3.893	3.680
August				
September	NA	3.612	3.887	3.664
October	NA	3.468	3.745	3.521
November	NA	3.423	3.700	3.475
December	NA	3.278	3.553	3.329
Average	NA	3.527	3.792	3.577
12 January	NA	3.399	3.663	3.447
February	NA	3.572	3.840	3.622
March	NA	3.868	4.138	3.918
April	NA	3.927	4.194	3.976
May	NA	J.UL1	4.062	3.839

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.

NA=Not available.

Table 9.5 Refiner Prices of Residual Fuel Oil

	Sulfur Co	al Fuel Oil Intent Less al to 1 Percent	Sulfur	al Fuel Oil Content an 1 Percent	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	
980 Average	0.608	0.675	0.479	0.523	0.528	0.607	
985 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	
	0.546	0.642		0.544			
02 Average		0.840	0.508 0.588		0.530 0.661	0.569	
03 Average	0.728			0.651		0.698	
04 Average	0.764	0.835	0.601	0.692	0.681	0.739	
05 Average	1.115	1.168	0.842	0.974	0.971	1.048	
06 Average	1.202	1.342	1.085	1.173	1.136	1.218	
07 Average	1.406	1.436	1.314	1.350	1.350	1.374	
08 Average	1.918	2.144	1.843	1.889	1.866	1.964	
09 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	
Average	1.730	1.320	1.079	1.019	1.097	1.713	
11 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	2.473	2.891	2.335	2.348	2.371	2.509	
Average	2.389	2.736	2.316	2.257	2.336	2.401	
12 January	2.591	2.965	2.480	2.452	2.512	2.620	
February	2.739	3.070	R 2.632	2.556	R 2.654	2.705	
	4.133					4.100	

^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, June 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)
1978 Average	0.434	0.537	0.386	0.404	0.369	0.365	0.237
1980 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
000 Average	0.963	1.330	0.880	0.969	0.886	0.898	0.595
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	0.710	0.752	0.881	0.883	0.607
	1.288	1.627	1.208	1.271	1.125	1.187	0.751
004 Average	1.200	2.076	1.723	1.757	1.623	1.737	0.751
005 Average							
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
110 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	2.185	2.299	2.147	2.214	1.212
Average	2.103	2.074	2.103	2.233	2.147	2.214	1.212
11 January	2.472	3.161	2.585	2.804	2.585	2.621	1.380
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	2.926 2.907	3.034	1.467
_	0.747	0.570	0.050	0.407	0.007	0.040	4.041
012 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	3.309	1.293

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 b See Note 5, "Motor Gasoline Prices," at end of section.

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 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 4.
• 2010 forward: EIA, Petroleum Marketing Monthly, June 2012, Table 4.

NA=Not available. W=Value withheld to avoid disclosure of individual company

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 (Consumer Grade)
1978 Average	0.484	0.516	0.387	0.421	0.400	0.377	0.335
1980 Average	1.035	1.084	0.868	0.902	0.788	0.818	0.482
1985 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
996 Average	0.847	1.116	0.651	0.740	0.673	0.681	0.605
997 Average	0.839	1.128	0.613	0.745	0.636	0.642	0.552
1998 Average	0.673	0.975	0.452	0.501	0.482	0.494	0.405
1999 Average	0.781	1.059	0.543	0.605	0.558	0.584	0.458
2000 Average	1.106	1.306	0.899	1.123	0.927	0.935	0.603
2001 Average	1.032	1.323	0.775	1.045	0.829	0.842	0.506
2002 Average	0.947	1.288	0.721	0.990	0.737	0.762	0.419
2003 Average	1.156	1.493	0.872	1.224	0.737	0.762	0.577
2003 Average	1.435	1.819	1.207	1.160	1.173	1.243	0.839
	1.829	2.231	1.735	1.957	1.705	1.786	1.089
2005 Average	2.128	2.682	1.998	2.244	1.982	2.096	1.358
2006 Average							
2007 Average	2.345	2.849	2.165	2.263	2.241	2.267	1.489
2008 Average	2.775	3.273	3.052	3.283	2.986	3.150	1.892
2009 Average	1.888	2.442	1.704	2.675	1.962	1.834	1.220
010 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
April	2.370	3.201	2.272	3.040	2.527	2.410	1.326
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	2.404 2.201	3.063	2.749 2.462	2.314	1.481
-							
011 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
July	3.172	4.027	3.118	3.812	3.294	3.214	1.620
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
2012 January	2.014	2 722	2.007	2 0 4 0	2 245	2 002	1 655
2012 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	3.379	1.470

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 b See Note 5, "Motor Gasoline Prices," at end of section.

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 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 2.
• 2010 forward: EIA, Petroleum Marketing Monthly, June 2012, Table 2.

NA=Not available. W=Value withheld to avoid disclosure of individual company

Table 9.8a No. 2 Distillate Prices to Residences: Northeastern States

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
1978 Average	0.486	0.503	0.508	0.488	0.507	0.501	0.501	0.496	0.488
1980 Average	0.963	1.004	1.015	0.978	1.011	0.983	0.982	0.979	0.964
1985 Average	0.997	1.024	1.077	1.070	1.067	1.080	1.113	1.059	1.023
1990 Average	0.989	1.028	1.070	1.084	1.086	1.098	1.125	1.087	1.026
1995 Average	0.787	0.779	0.853	0.844	0.874	0.864	0.955	0.888	0.826
1996 Average	0.972	0.940	0.969	0.976	0.986	0.986	1.063	1.024	0.953
1997 Average	0.942	0.942	0.987	0.960	0.989	0.963	1.065	1.033	0.950
1998 Average	0.788	0.788	0.873	0.818	0.868	0.831	0.948	0.892	0.814
1999 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
2002 Average	1.129	1.119	1.172	1.141	1.124	1.118	1.218	1.220	1.064
2003 Average	1.314	1.312	1.309	1.386	1.344	1.355	1.436	1.489	1.304
2004 Average	1.511	1.497	1.505	1.559	1.511	1.518	1.627	1.662	1.489
2005 Average	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
	2.540	2.535	2.679	2.576	2.602	2.615	2.674	2.664	2.508
2007 Average	2.540 3.199	3.207	3.323	2.576 3.197	3.210	3.195	3.293	3.267	2.506 3.157
2008 Average	3.199	3.207	3.323	3.197	3.210	3.193	3.293	3.207	3.137
2009 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
2010 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
March	2.560	2.632	2.747	2.795	2.800	2.758	2.801	2.929	2.755
April	2.565	2.651	2.771	2.868	2.959	2.815	2.845	2.946	2.752
. !	2.511	2.636	2.710	2.811	2.939	2.736	2.045 2.781	2.873	2.752
May	2.479	2.574	2.649	2.716	2.829	2.736	2.761	2.747	2.561
June	2.479 2.478	2.574	2.649 2.614	2.656	2.829	2.705	2.651	2.747 2.715	2.561
July									
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
2011 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

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.

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.

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
	0.972	1.006	0.971	1.083	1.053
985 Average					
990 Average	0.974	1.029	0.970	1.101	1.063
995 Average	0.839	0.962	0.894	0.834	0.867
996 Average	0.933	1.080	0.989	0.909	0.989
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
004 Average	1.495	1.749	1.594	1.524	1.548
005 Average	2.123	2.385	2.146	2.061	2.052
006 Average	2.391	2.681	2.411	2.395	2.365
007 Average	2.598	2.909	2.500	2.518	2.592
008 Average	3.078	3.401	3.060	3.485	3,219
000 Average	3.076	3.401	3.000	3.403	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
	2.123	2.335	2.149	2.362	2.219
July				2.554	
August	2.158	2.489	2.326		2.369
September	2.273	2.658	2.357	NA	2.334
October	2.333	2.737	2.469	NA	2.458
November	2.459	2.871	2.551	NA	2.608
December	2.354	2.830	2.475	NA	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	2.092 NA	2.055 NA	2.878	2.584
		2.757			2.597
August	2.598		2.625	2.901	
September	2.676	NA 0.17.1	2.760	2.944	2.641
October	2.853	3.174	2.871	3.041	2.795
November	2.937	3.195	2.935	3.070	2.926
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.

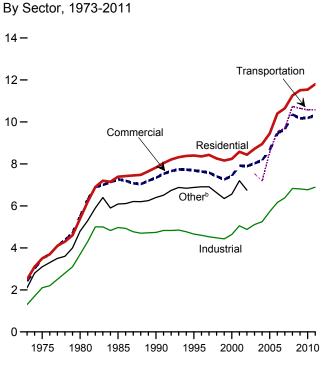
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978.
Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15.

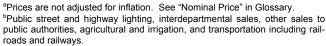
• 2010 and 2011: EIA, Petroleum Marketing Monthly, July 2011, Table 15.

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.

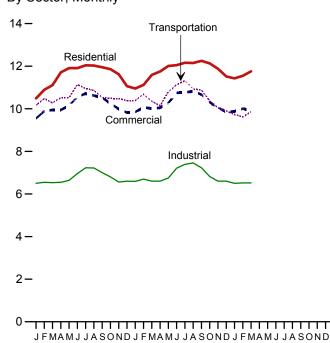
Figure 9.2 Average Retail Prices of Electricity

(Centsa per Kilowatthour)





By Sector, Monthly



Note: Includes taxes. Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.9.

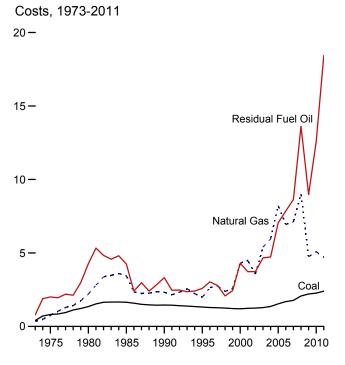
2011

2012

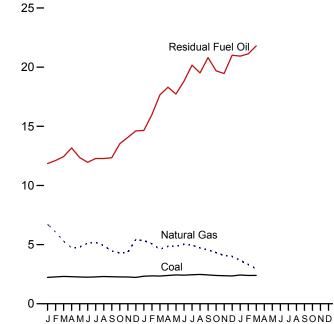
2010

Costs, Monthly

Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants (Dollarsa per Million Btu, Including Taxes)



^aPrices are not adjusted for inflation. See "Nominal Dollars" in Glossary.



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		Transportationd	Other ^e	Total	
973 Average	2.50	2.40	1.30	NA	2.10	2.00	
975 Average	3.50	3.50	2.10	NA NA	3.10	2.90	
980 Average	5.40	5.50	3.70	NA NA	4.80	4.70	
	7.39	7.27	4.97	NA NA	6.09	6.44	
985 Average							
90 Average	7.83	7.34	4.74	NA NA	6.40	6.57	
95 Average	8.40	7.69	4.66	NA	6.88	6.89	
96 Average	8.36	7.64	4.60	NA	6.91	6.86	
97 Average	8.43	7.59	4.53	NA	6.91	6.85	
98 Average	8.26	7.41	4.48	NA	6.63	6.74	
99 Average	8.16	7.26	4.43	NA	6.35	6.64	
000 Average	8.24	7.43	4.64	NA	6.56	6.81	
01 Average	8.58	7.92	5.05	NA	7.20	7.29	
02 Average	8.44	7.89	4.88	NA	6.75	7.20	
003 Average	8.72	8.03	5.11	7.54		7.44	
004 Average	8.95	8.17	5.25	7.18		7.61	
005 Average	9.45	8.67	5.73	8.57		8.14	
006 Average	10.40	9.46	6.16	9.54		8.90	
007 Average	10.65	9.65	6.39	9.70		9.13	
008 Average	11.26	10.36	6.83	10.74		9.74	
009 Average	11.51	10.17	6.81	10.65		9.82	
10 January	10.49	9.55	6.50	10.17		9.28	
February	10.89	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	
	11.91	10.15	6.64	10.52		9.72	
May	11.91	10.15		11.14		10.18	
June			6.96				
July	12.04	10.72	7.23	10.95		10.46	
August	12.03	10.62	7.22	10.86		10.40	
September	11.95	10.52	7.00	10.53		10.17	
October	11.86	10.25	6.80	10.49		9.81	
November	11.62	9.99	6.56	10.47		9.55	
December	11.06	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	11.75	10.05	6.60	10.14		9.64	
May	12.01	10.27	6.75	10.80		9.87	
June	12.05	10.75	7.21	11.12		10.35	
July	12.16	10.77	7.39	11.32		10.57	
August	12.15	10.82	7.46	10.93		10.58	
September	12.25	10.67	7.23	10.88		10.39	
October	12.13	10.30	6.82	10.37		9.90	
November	11.88	10.06	6.60	10.04		9.67	
December	11.52	9.85	6.60	9.90		9.64	
			6.89			9.04 9.99	
Average	11.80	10.32	6.89	10.58		9.99	
12 January	11.43	9.88	6.50	9.73		9.65	
February	11.55	10.01	6.52	9.62		9.64	
March	11.76	9.91	6.52	9.86		9.59	
3-Month Average	11.57	9.93	6.51	9.73		9.63	
011 3-Month Average 010 3-Month Average	11.19 10.80	9.97 9.79	6.63 6.53	10.47 10.31	==	9.61 9.40	

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

States and the District of Columbia.

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

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all 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." • 1984: ICS, 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, May 2012, Table 5.3

Table 5.3.

Prices are not adjusted for inflation. See "Nominal Price" in Glossary.
 December 2002, prices exclude public street and highway lighting, interdepartmental sales, and other sales to public authorities.
 Industrial sector. For 1973–2002, prices exclude agriculture and irrigation.
 Transportation sector, including railroads and railways.
 Public extract part highway lighting, interdepartmental calcar, other calcars.

Public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads

and railways. NA=Not available. --=Not applicable.

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.

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	Totald	Natural Gas ^e	All Fossil Fuels	
1973 Average	0.41	0.79	NA	NA	0.80	0.34	0.48	
1975 Average	.81	2.01	NA	NA	2.02	.75	1.04	
1980 Average	1.35	4.27	NA	NA.	4.35	2.20	1.93	
1985 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	
	1.32	2.59	3.99	.65	2.57	1.98	1.45	
1995 Average	1.29	3.03	4.87	.78	3.03	2.64	1.52	
1996 Average								
1997 Average	1.27	2.79	4.49	.91	2.73	2.76	1.52	
1998 Average	1.25	2.08	3.30	.71	2.02	2.38	1.44	
1999 Average	1.22	2.44	4.03	.65	2.36	2.57	1.44	
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	
	2.21	8.98	13.22	1.61	7.02	4.74	3.04	
2009 Average	2.21	0.90	13.22	1.01	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	
April	2.29	13.17	17.10	2.18	7.95	4.71	3.01	
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	
	2.23	14.61	18.56	2.57	11.29	5.43	3.32	
December	2.23 2.27	12.57	R 16.61	2.37 2.28	9.54	5.43 5.09	3.26	
Average	2.21	12.57	10.01	2.20	5.54	5.09	3.20	
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	22.67	2.79	12.17	4.54	3.26	
October	2.39	19.69	23.04	2.80	13.68	4.32	3.12	
November	2.39	19.46	23.04	2.18	13.27	4.08	3.12	
December	2.35	21.01	22.31	2.29	12.76	4.00	3.00	
Average	2.40	18.43	22.41	2.80	12.88	4.71	3.29	
2012 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	
3-Month Average	2.41	21.28	23.71	2.06	13.15	3.32	2.85	
2011 3-Month Average	2.34	16.03	20.86	2.85	12.46	5.02	3.25	
2010 3-Month Average	2.27	12.08	15.88	1.87	9.44	6.06	3.45	

Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

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).

smail 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

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.

R=Revised. NA=Not available.

Notes: • Receipts are purchases of fuel.

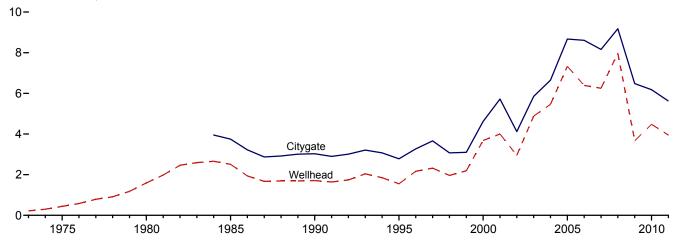
Notes: • Yearly costs are averages of monthly values, weighted by quantities in Btu.

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

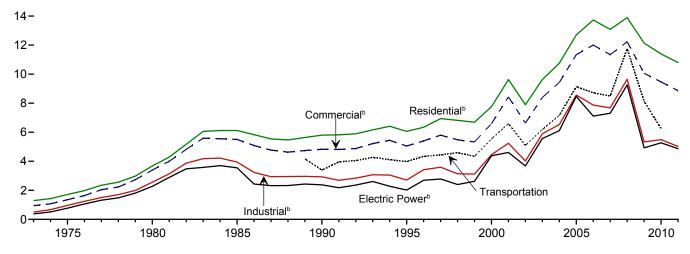
Figure 9.4 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)

Selected Prices, 1973-2011

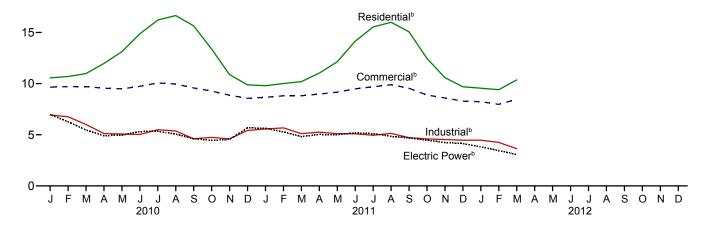


Consuming Sectors, 1973-2011



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)

						Co	onsuming	Sectorsb			
		Cit.	Res	idential	Com	mercial ^c	Ind	ustriald	Transportation	Electi	ic Powere
	Wellhead Price	City- gate Price	Price ^f	Percentage of Sector ^g	Price ^f	Percentage of Sector ^g	Price ^f	Percentage of Sector ^g	Vehicle Fuel ^h Price ^f	Price ^f	Percentage of Sector ^{g,i}
1973 Average		NA	1.29	NA	0.94	NA	0.50	NA	NA	0.38	92.1
1975 Average		NA NA	1.71	NA NA	1.35	NA NA	.96 2.56	NA NA	NA NA	.77	96.1 96.9
1980 Average 1985 Average	2.51	3.75	3.68 6.12	NA NA	3.39 5.50	NA NA	2.56 3.95	68.8	NA NA	2.27 3.55	96.9 94.0
1990 Average		3.03	5.80	99.2	4.83	86.6	2.93	35.2	3.39	2.38	76.8
1995 Average	1.55	2.78	6.06	99.0	5.05	76.7	2.71	24.5	3.98	2.02	71.4
1996 Average	2.17	3.27	6.34	99.0	5.40	77.6	3.42	19.4	4.34	2.69	68.4
1997 Average		3.66	6.94	98.8	5.80	70.8	3.59	18.1	4.44	2.78	68.0
1998 Average		3.07 3.10	6.82 6.69	97.7 95.2	5.48 5.33	67.0 66.1	3.14 3.12	16.1 18.8	4.59 4.34	2.40 2.62	63.7 58.3
1999 Average	3.68	4.62	7.76	92.6	6.59	63.9	4.45	19.8	5.54	4.38	50.5 50.5
2001 Average		5.72	9.63	92.4	8.43	66.0	5.24	20.8	6.60	4.61	40.2
2002 Average	2.95	4.12	7.89	97.9	6.63	77.4	4.02	22.7	5.10	e3.68	83.9
2003 Average	4.88	5.85	9.63	97.5	8.40	78.2	5.89	22.1	6.19	5.57	91.2
2004 Average		6.65	10.75	97.7	9.43	78.0	6.53	23.6	7.16	6.11	89.8
2005 Average 2006 Average		8.67 8.61	12.70 13.73	98.1 98.1	11.34 12.00	82.1 80.8	8.56 7.87	24.0 23.4	9.14 8.72	8.47 7.11	91.3 93.4
2007 Average		8.16	13.08	98.0	11.34	80.4	7.68	22.2	8.50	7.31	92.2
2008 Average		9.18	13.89	97.5	12.23	79.9	9.65	20.5	11.75	9.26	101.1
2009 Average		6.48	12.14	97.4	10.06	77.8	5.33	18.8	8.13	4.93	101.1
2010 January	5.69	6.84	10.56	97.4	9.65	81.2	6.93	19.0	NA	6.98	101.0
February	5.30	6.64	10.69	97.8	9.71	81.8	6.76	18.6	NA	6.27	100.5
March		6.50	10.98	97.6	9.70	79.7	6.01	18.4	NA	5.47	101.0
April		5.88	11.97	96.2 97.1	9.55	75.7 73.0	5.12	17.7 17.9	NA NA	4.91 4.96	100.9
May June		5.81 6.02	13.12 14.86	96.9	9.49 9.73	73.0 71.9	5.07 5.03	18.0	NA NA	5.31	100.9 100.6
July		6.31	16.21	96.8	10.07	70.6	5.49	18.3	NA	5.34	100.6
August		6.22	16.65	96.4	9.96	69.8	5.37	17.8	ŇA	5.06	100.5
September	3.83	5.72	15.64	96.7	9.57	68.5	4.61	17.5	NA	4.61	100.7
October		5.70	13.37	96.8	9.28	71.8	4.74	16.8	NA	4.45	101.3
November	4.12	5.48	10.88	97.4	8.86	77.7	4.60	17.6	NA NA	4.55	101.0
December Average		5.74 6.18	9.88 11.39	97.4 97.4	8.56 9.47	80.2 77.5	5.42 5.49	17.8 18.0	NA 6.25	5.68 5.27	101.3 100.8
2011 January	E 4.37	5.68	9.79	96.1	8.66	68.4	5.56	16.3	NA	5.63	101.5
February		5.75	10.00	96.1	8.81	67.7	5.67	16.1	NA	5.28	102.1
March	^E 3.95	5.68	10.19	95.8	8.81	64.9	5.11	16.2	NA	4.82	101.2
April		5.61	11.03	95.5	8.97	61.7	5.26	15.6	NA	5.03	101.8
May		5.78	12.13 14.14	95.8 95.9	9.17 9.48	58.5 56.5	5.10	16.2	NA NA	5.01	101.1 101.2
June July		6.08 6.14	15.53	95.9 95.9	9.46	56.5 54.9	5.09 4.95	15.6 16.5	NA NA	5.19 5.11	101.2
August		6.19	15.99	95.2	9.89	52.9	5.13	15.8	NA	4.84	100.2
September	E 3.82	5.92	15.06	95.1	9.54	51.9	4.72	15.7	NA	4.69	101.5
October	E 3.62	5.43	12.45	95.1	8.88	52.7	4.59	15.6	NA	4.47	101.6
November		5.25	10.58	94.6	8.60	61.2	4.53	15.9	NA	4.24	101.2
December Average		5.03 5.62	9.69 10.80	95.9 95.7	8.28 8.86	64.7 62.3	4.47 5.02	16.5 16.0	NA NA	4.15 4.87	101.4 101.2
•											
2012 January		4.86 4.75	9.55 9.40	95.7 05.6	8.23 7.97	^R 65.1 63.4	4.47 4.25	15.5 15.6	NA NA	3.81 3.45	100.6
February March		4.75 4.84	10.36	95.6 95.6	7.97 8.46	63.4 60.8	4.25 3.64	15.6 15.7	NA NA	3.45 3.07	100.5 100.2
3-Month Average		4.81	9.69	95.6 95.6	8.20	63.4	4.13	15.7 15.6	NA NA	3.44	100.2 100.4
2011 3-Month Average	E 4.22	5.70	9.97	96.0	8.75	67.2	5.45	16.2	NA	5.26	101.6
2010 3-Month Average		6.69	10.71	97.6	9.69	81.0	6.58	18.7	NA NA	6.29	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.

d 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 utilities only; 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.

I Includes taxes. Includes taxes.

g 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.

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

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*, June 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*, June 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 1.

2010 forward: EIA, *Petroleum Marketing Monthly*, June 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 21

2010 forward: EIA, *Petroleum Marketing Monthly*, June 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*, May 2012, Table 4.1; and Form EIA-923, "Power Plant Operations Report."

Table 9.11 Sources

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)*, May 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, May 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, May 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).

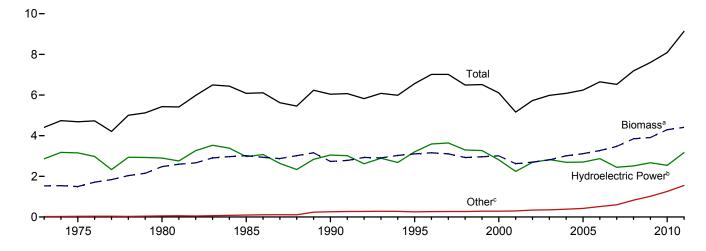
2002–2007: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," 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).

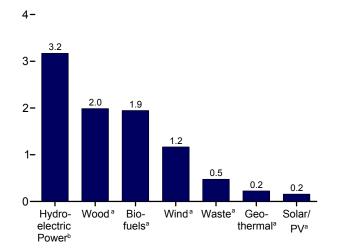
10. Renewable Energy

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

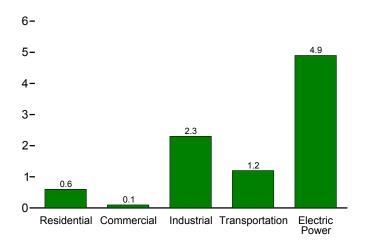
Total and Major Sources, 1973-2011



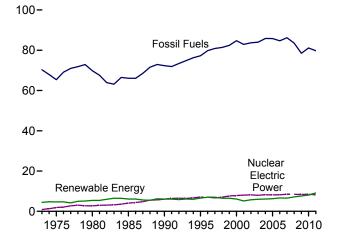
By Source, 2011



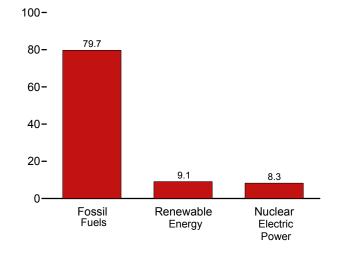
By Sector, 2011



Compared With Other Resources, 1973-2011



Compared With Other Resources, 2011



^a See Table 10.1 for definition.

^b Conventional hydroelectric power.

^c Geothermal, solar/PV, and wind.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#renewable. Sources: Tables 1.3 and 10.1–10.2c.

Table 10.1 Renewable Energy Production and Consumption by Source

		Production ⁶	9					Consumpti	on			
	Bior	nass	Total Renew-	Hydro-					Bior	nass	Т	Total Renew-
	Bio- fuels ^b	Totalc	able Energy ^d	electric Power ^e	Geo- thermal ^f	Solar/ PV ^g	Windh	Wood ⁱ	Waste	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	7,012	3,590	163	70	33	2,437	577	143	3,157	7,014
1997 Total	186	3,108	7,018	3,640	167	70	34	2,371	551	184	3,105	7,016
1998 Total	202	2,929	6,494	3,297	168	69	31	2,184	542	201	2,927	6,493
1999 Total	211	2,965	6,517	3,268	171	68 66	46 57	2,214	540 511	209 236	2,963	6,516
2000 Total 2001 Total	233 254	3,006 2,624	6,104 5,164	2,811 2,242	164 164	64	57 70	2,262 2,006	364	256 253	3,008 2,622	6,106 5.163
	308	2,705	5,734	2,242	171	63	105	1,995	402	303	2,701	5,729
2002 Total 2003 Total	402	2,705	5,734	2,825	175	62	115	2,002	401	404	2,701	5,729
2004 Total	487	2,998	6,070	2,623	173	63	142	2,002	389	499	3,010	6,082
2005 Total	564	3,104	6,229	2,703	181	63	178	2,127	403	577	3,117	6,242
2006 Total	720	3,104	6,599	2,763	181	68	264	2.099	397	771	3,117	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	682	204	18	10	84	168	40	149	357	673
April	152	351	661	186	17	10	95	160	39	149	348	657
May	157	358	717	245	18	11	85	162	39	155	356	715
June	152	355	753	291	17	11	79	164	39	155	357	755
July	158	367 371	701	239	17	11 11	66	170 171	40	158	368	701 660
August	160 156	360	662 626	196 168	18 17	11	65 69	166	40 38	159 153	370 357	622
September	163	369	646	173	17	10	77	166	39	160	366	643
October November	164	369	682	173	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	170	383	754	255	20	12	84	174	40	154	367	739
February	152	344	717	241	18	12	103	156	36	146	337	710
March	171	377	822	310	20	13	103	166	40	160	366	811
April	163	359	821	309	18	13	121	158	38	154	351	812
May	171	371	840	323	19	14	114	160	40	165	365	835
June	167	375	828	315	19	14	106	168	40	166	374	827
July	172	384	797	308	19	14	72	171	41	162	374	787
August	175 167	384 371	746 680	257 210	19 18	14 13	72 67	169 165	41 40	173 160	382 365	744 673
September	176	371	711	195	18	13	104	163	40 40	167	365 370	702
October November	176	382	742	209	19	12	104	164	40	165	370	702
December	186	403	742 779	241	19	13	102	175	42	173	390	766
Total	2,047	4,511	9,236	3,171	226	158	1,168	1,987	477	1,947	4,411	9,135
2012 January	177	389	792	233	19	15	135	173	40	157	370	773
February	R 164	R 362	705	203	18	15	108	161	37	153	351	695
March 3-Month Total	172 512	372 1,123	797 2,294	256 693	19 57	16 46	132 375	161 494	40 117	164 474	364 1,085	789 2,256
2011 3-Month Total	493	1,103	2,293	806	57	37	290	495	116	460	1,071	2,261

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.

Hydroelectric power, geothermal, solar thermal/photovoltaic, wind, and

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.

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

non-renewable waste (municipal soile 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.

Notes: • Most data for the residential, commercial, industrial, and transportation control and estimates. Soo petes and sources for Tables 10.2 and 10.2 b. • Soo

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

		Reside	ntial Sector					Co	ommercial	Sectora			
			Biomass		Hydro-					Bio	omass		
	Geo- thermal ^b	Solar/ PV ^C	Wood ^d	Total	electric Power ^e	Geo- thermal ^b	Solar/ PV ^f	Wind ^g	Wood ^d	Wasteh	Fuel Ethanol ⁱ	Total	Total
973 Total	NA	NA	354	354	NA	NA	NA	NA	7	NA	NA	7	7
975 Total		NA	425	425	NA	NA	NA	NA	8	NA	NA	8	8
980 Total		NA	850	850	NA	NA	NA	NA	21	NA	NA	21	21
985 Total		NA	1,010	1,010	NA	NA	NA	NA	24	NA	(s)	24	24
990 Total		56	580	641	1	3	-	-	66	28	(s)	94	98
995 Total	7	64	520	591	1	5	-	-	72	40	(s)	113	118
996 Total	7 8	65 64	540	612 502	1	5 6	-	_	76 73	53 58	(s)	129 131	135
997 Total		64 64	430 380		1 1	6 7	_		73 64	58 54	(s)		138 127
998 Total		63	380 390	452 461	1	7	_	_	64 67	54 54	(s)	118 121	127
999 Total		63 61	420	489		8	-	_	71	47	(s) (s)	119	129
2001 Total	9	59	370	438	1	8	_	_	67	25	(s)	92	101
2001 Total	•	59 57	380	436 448	(s)	9	_	=	69	25 26	(s) (s)	92 95	101
2003 Total	13	57 57	400	470	1	11	_	_	71	29	(s) 1	101	113
2004 Total	14	57	410	481	i i	12	_	_	70	34	i	105	118
2005 Total		58	430	504	i	14	_	_	70	34	i	105	120
2006 Total		63	380	462	i	14	_	_	65	36	i	103	118
2007 Total		70	410	502	1	14	_	_	70	31	2	103	118
2008 Total		80	450	557	i	15	(s)	_	73	34	2	109	125
2009 Total		89	430	552	1	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		9	35	47	(s)	2	(s)	(s)	6	3	(s)	9	11
May		10	36	48	(s)	2	(s)	(s)	6	4	(s)	10	12
June		9	35	47	(s)	2	(s)	(s)	6	3	(s)	9	11
July		10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
August		10	36	48	(s)	2	(s)	(s)	6	3	(s)	10	11
September		9	35	47	(s)	2	(s)	(s)	6	3	(s)	9	11
October		10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
November		9	35	47	(s)	2	(s)	(s)	6	3	(s)	9	10
December	3	10	36	48	(s)	2	(s)	(s)	_6	3	(s)	9	.11
Total	37	114	420	571	1	19	(s)	(s)	72	36	3	111	130
011 January		12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
February		11 12	33 37	47 52	(s)	2 2	(s)	(s)	5 6	3 3	(s)	9 9	10
March		12	37 35	52 50	(s)	2	(s)	(s) (s)	6	3	(s)	9	11 10
April	3	12	35 37	50 52	(s) (s)	2	(s)		6	3	(s)	9	11
May June		12	37 35	52 50	(s)	2	(s) (s)	(s) (s)	6	3	(s) (s)	9	11
July		12	35 37	50 52	(s)	2	(S) (S)	(S)	6	3	(s)	9	11
August		12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
September		12	35	50	(s)	2	(s)	(s)	6	3	(s)	9	11
October		12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
November		12	35	50	(s)	2	(s)	(s)	6	3	(s)	9	11
December	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	10	11
Total		140	430	610	1	20	(s)	(s)	71	36	3	110	131
012 January		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
3-Month Total	10	42	107	159	(s)	5	(s)	(s)	18	9	1	27	32
011 3-Month Total		35 28	106 104	150 141	(s) (s)	5 5	(s) (s)	(s) (s)	17 18	9 9	1 1	27 27	32 32

Sources: See end of section.

^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.

^c Solar thermal direct use energy, and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6). Includes small amounts of distributed solar thermal and PV energy used in the commercial industrial and electric power sectors. commercial, industrial, and electric power sectors.

d Wood and wood-derived fuels

Wood and wood-derived fuels.

d Wood and wood-derived fuels.
 e Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 f 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.
 g 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 tire-derived fuels).

The fuel ethanol (minus denaturant) portion of motor fuels, such as E10,

The fuel ethanol (minus denaturally portion of motor fuels, such as 2.15, consumed by the commercial sector.

NA=Not available. —=No data reported. (s)=Less than 0.5 trillion Btu.

Notes: • Data are estimates, except for commercial sector solar/PV, hydroelectric power, wind, and waste. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the

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

Table 10.2b Renewable Energy Consumption: Industrial and Transportation Sectors

					Industri	al Sector ^a					Trans	portation S	Sector
						1	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 1985 Total	35 32 33 33	NA NA NA	NA NA NA NA	NA NA NA NA	1,165 1,063 1,600 1,645	NA NA NA 230	NA NA NA 1	NA NA NA 42	1,165 1,063 1,600 1,918	1,200 1,096 1,633 1,951	NA NA NA 50	NA NA NA	NA NA NA 50
1990 Total 1995 Total 1996 Total 1997 Total 1998 Total	31 55 61 58 55	2 3 3 3 3	- - - -	_ _ _	1,442 1,652 1,683 1,731 1,603	192 195 224 184 180	1 2 1 1	49 86 61 80 86	1,684 1,934 1,969 1,996 1,872	1,717 1,992 2,033 2,057 1,929	60 112 81 102 113	NA NA NA NA NA	60 112 81 102 113
1999 Total 2000 Total 2001 Total 2002 Total	49 42 33 39	4 4 5 5	- - -	- - -	1,620 1,636 1,443 1,396	171 145 129 146	1 1 3 3	90 99 108 130	1,882 1,881 1,681 1,676	1,934 1,928 1,719 1,720	118 135 141 168	NA NA 1 2	118 135 142 170
2003 Total	43 33 32 29 16 17	3 4 4 5 5	- - - -	- - - -	1,363 1,476 1,452 1,472 1,405 1,340	142 132 148 130 144 144	4 6 7 10 10 12	169 203 230 285 377 532	1,679 1,817 1,837 1,897 1,936 2,028	1,726 1,853 1,873 1,930 1,956 2,049	228 286 327 442 557 786	2 3 12 33 46 40	230 290 339 475 602 826
2009 Total	18	4	=	_	1,208	155	13	617	1,994	2,016	894	42	935
2010 January February March April June July August September October November December Total	2 2 2 2 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	-	109 100 110 105 106 107 111 111 110 108 114	15 13 15 15 14 13 14 14 15 15	1 1 1 1 2 2 2 2 1 2 1 2 7	60 56 62 60 62 60 62 63 61 64 65 67	185 170 188 181 183 182 188 190 185 190 190 198 2,230	187 172 190 183 185 183 190 191 187 192 191 199 2,250	81 76 83 84 89 90 91 91 86 91 88 92 1,040	(s) 3 2 4 3 2 3 3 4 4 3 3 3 3 4 4	81 79 85 87 92 93 94 94 90 94 91 94
Pebruary February February March April May June July August September October November December Total	1 2 2 2 2 1 1 1 1 1 1 2 18	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	115 102 109 105 105 112 112 110 109 107 110 116 1,311	15 14 14 14 14 14 14 15 15	1 1 1 2 2 1 2 1 1 2 1 1 2 7	66 59 66 62 65 63 64 65 62 65 66 69 772	197 176 190 182 185 190 192 191 187 189 192 202 2,273	199 178 192 185 187 192 194 192 188 190 194 204 2,295	83 81 87 83 90 92 85 96 83 89 84 90	3 4 6 8 9 9 11 10 14 12 13 13	86 85 93 91 99 102 96 106 97 100 98 102 1,154
2012 January	2 2 2 5	(s) (s) (s)	(s) (s) (s)	(s) (s) (s)	114 106 104 325	15 14 14 43	1 1 1 4	67 61 64 192	197 183 184 563	199 185 186 570	81 82 87 250	8 R 9 11 27	89 90 98 277
2011 3-Month Total 2010 3-Month Total	5 5	1 1	(s) (s)	(s) -	325 318	43 42	4 4	191 178	563 543	569 549	251 239	14 6	265 245

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).

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

consumed by the industrial sector.

megawatt or greater.

^e Wind electricity net generation (converted to Btu using the fossil-fuels heat

rate—see Table A6).

f Wood and wood-derived fuels.

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

h The fuel ethanol (minus denaturant) portion of motor fuels, such as E10,

i 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.

J 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

REPRIVED. INAERIOL AVAILABLE. — ENVO data reported. (s)=Less trian 0.3 trillion Btu.

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

	Hydro- electric	Coo				Biomass		
	Power ^a	Geo- thermal ^b	Solar/PV ^c	Wind ^d	Woode	Wastef	Total	Total
973 Total	2,827	20	NA	NA	1	2	3	2.851
975 Total	3,122	34	NA	NA	(s)	2	2	3,158
980 Total	2,867	53	NA	NA	3	2	4	2,925
985 Total	2,937	97	(s)	(s)	8	7	14	3,049
990 Total ^g	3,014	161	4	29	129	188	317	3,524
995 Total	3.149	138	5	33	125	296	422	3,747
996 Total	3,528	148	5	33	138	300	438	4.153
997 Total	3,581	150	5	34	137	309	446	4,216
998 Total	3,241	151	5	31	137	308	444	3,872
999 Total		152	5	46	138	315	453	3,874
	3,218							
000 Total	2,768	144	5	57	134	318	453	3,427
001 Total	2,209	142	6	70	126	211	337	2,763
002 Total	2,650	147	6	105	150	230	380	3,288
003 Total	2,781	148	5	115	167	230	397	3,445
004 Total	2,656	148	6	142	165	223	388	3,340
005 Total	2,670	147	6	178	185	221	406	3,406
006 Total	2,839	145	5	264	182	231	412	3,665
007 Total	2,430	145	6	341	186	237	423	3,345
008 Total	2,494	146	9	546	177	258	435	3,630
009 Total	2,650	146	9	721	180	261	441	3,967
010 January	217	13	(s)	67	17	21	39	335
	199	11		53	16	20	36	300
February	202		(s) 1	84	16	20	39	338
March		13						
April	184	12	1	95	15	21	36	329
May	243	13	1	85	14	22	36	378
June	290	12	2	79	16	23	39	421
July	238	12	2	66	17	23	40	358
August	195	13	2	65	18	23	41	315
September	168	12	1	69	16	22	38	288
October	171	12	1	77	15	22	37	298
November	190	12	1	95	16	23	39	337
December	225	13	(s)	88	17	23	41	367
Total	2,521	148	12	923	196	264	459	4,064
111 January	254	14	(s)	84	16	21	38	391
February	239	13	1	103	15	20	35	390
March	308	14	1	103	15	23	38	463
April	307	13	2	121	12	22	33	476
May	321	14	2	113	13	22	35 35	486
June	313	13	2	106	15	23	38	473
	307	13	2	72	16	23 24	36 40	434
July			2	72 72		23	40 39	
August	256	13			16			383
September	209	13	2	67	15	22	37	327
October	194	14	2	104	13	23	36	349
November	207	13	1	120	13	23	36	377
December	239	14	1	102	16	23	39	396
Total	3,153	163	18	1,168	175	269	444	4,945
112 January	232	14	1	135	16	22	38	420
February	201	13	1	108	15	21	35	359
March	255	14	2	132	14	23	37	440
3-Month Total	688	41	4	375	45	66	111	1,218
	801	42	2	290	46	64	110	1,245
11 3-Month Total								

tire-derived fuels).

^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 heat rate—see Table A6).

^c Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

^d Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

rate—see Table A6).

e Wood and wood-derived fuels.

Wood and wood-derived rueis.
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

^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.

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

	Feed- stock ^a	Losses and Co- products ^b	Dena- turant ^c	Pr	oduction		Trade ^d Net Imports ^e	Stocks ^{d,f}	Stock Change ^{d,g}	Coi	nsumption	d	Consump- tion Minus Denaturant ^h
	TBtu	TBtu	Mbbl	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu	TBtu
1981 Total	13	6	40	1,978	83	7	NA	NA	NA	1,978	83	7	7
1985 Total	93	42	294	14,693	617	52	NA	NA	NA	14,693	617	52	51
1990 Total	111	49	356	17,802	748	63	NA_	NA	NA	17,802	748	63	62
1995 Total	198	86	647	32,325	1,358	115	387	2,186	-207	32,919	1,383	117	114
1996 Total 1997 Total	141 186	61 80	464 613	23,178 30,674	973 1.288	83 109	313 85	2,065 2,925	-121 860	23,612 29,899	992 1,256	84 107	82 104
1998 Total	202	86	669	33,453	1,405	119	66	3,406	481	33.038	1,388	118	115
1999 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	400 484	169 203	1,335 1.621	66,772 81.058	2,804 3.404	238 289	292 3,542	5,978 6.002	-222 24	67,286 84.576	2,826 3.552	240 301	233 293
2004 Total 2005 Total	552	203	1,859	92,961	3,404	331	3,234	5.563	-439	96.634	4.059	344	293 335
2006 Total	688	285	2,326	116,294	4,884	414	17,408	8,760	3,197	130,505	5,481	465	453
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 62	496 537	23,802	1,000 1,112	85 94	-482 -1.104	19,297	1,046 925	22,274	936	79 87	77 85
March April	154 147	59	522	26,486 25,384	1,112	90	-1,104	20,222 20,042	-180	24,457 24,637	1,027 1,035	88	85
May	152	61	534	26,244	1,102	93	-368	19,851	-191	26,067	1,035	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	-695	17,380	-429	26,698	1,121	95	93
September	152	61	533	26,221	1,101	93	-924	17,437	57	25,240	1,060	90	88
October	160	64	563	27,471	1,154	98	-830	17,278	-159	26,800	1,126	95	93
November December	161 165	65 67	585 592	27,747 28.457	1,165 1,195	99 101	-923 -1,711	18,150 17.941	872 -209	25,952 26,955	1,090 1,132	92 96	90 93
Total	1,839	742	6,506	316,617	13,298	1,127	-9,115	17,941	1,347	306,155	12,858	1,090	1,061
2011 January	165	66	581	28,524	1,198	102	-1,359	20,672	i 2,732	24,433	1,026	87	85
February	147	59	535	25,400	1,067	90	-1,425	20,809	137	23,838	1,001	85	83
March	163	65	548	28,194	1,184	100	-2,003	21,440	631	25,560	1,074	91	89
April	154 161	62 64	507 545	26,591 27,756	1,117 1.166	95 99	-2,865 -1.743	20,807 20,387	-633 -420	24,359 26.433	1,023 1,110	87 94	85 92
May June	157	63	535	27,756	1,137	96	-1,743	18,833	-1,554	27,085	1,110	94	92 94
July	160	64	555	27,004	1,160	98	-2,731	18,700	-1,334	25,026	1,130	89	87
August	163	65	575	28,110	1,181	100	-790	17,900	-800	28,120	1,181	100	97
September	154	62	525	26,645	1,119	95	-1,820	18,437	537	24,288	1,020	86	84
October	163	65	557	28,092	1,180	100	-2,388	18,072	-365	26,069	1,095	93	90
November	164	66	573	28,335	1,190	101	-3,258	18,343	271	24,806	1,042	88	86
December	172	69 770	600	29,772	1,250	106	-3,407	18,261	-82	26,447	1,111	94	92
Total	1,922	770	6,636	332,107	13,948	1,182	-25,322	18,261	1321	306,464	12,871	1,091	1,063
2012 January	167	67	583	29,063	1,221	103	-1,789	21,753	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 3-Month Total	160 481	64 191	522 1,633	27,706 83,422	1,164 3,504	99 297	-1,626 -5,200	22,952 22,952	380 4,691	25,700 73,531	1,079 3,088	91 262	89 255
2011 3-Month Total 2010 3-Month Total	475 441	190 178	1,664 1,574	82,118 75,913	3,449 3,188	292 270	-4,787 -1,819	21,440 20,222	3,500 3,628	73,831 70,466	3,101 2,960	263 251	256 244

^a Total corn and other biomass inputs to the production of undenatured ethanol

barrels), not the final December 2010 value (17,941 thousand barrels) that is shown under "Stocks."

NA=Not available.

NA=Not available.

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 available. 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," "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.

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

b Losses and co-products from the production of fuel 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.

 ^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.
 ^f Stocks are at end of period.

Stocks are at end of period.

g A negative value indicates a decrease in stocks and a positive value indicates

A Regative 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 December 2010 stocks value (17,940 thousand

Table 10.4 Biodiesel Overview

							Trade							
	Feed- stock ^a	Losses and Co- products ^b	Pr	oduction		Imports	Exports	Net Imports ^c	Stocksd	Stock Change ^e	Bal- ancing Item ^f	Coi	nsumptio	n
	TBtu	TBtu	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu
2001 Total	1 1 2 4 12 32 63 88 67	(s) (s) (s) (s) (s) (s) 1 1	204 250 338 666 2,162 5,963 11,662 16,145 12,281	9 10 14 28 91 250 490 678 516	1 1 2 4 12 32 62 87 66	78 191 94 97 207 1,069 3,342 7,502 1,844	39 56 110 124 206 828 6,477 16,128 6,332	39 135 -16 -26 1 242 -3,135 -8,626 -4,489	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA 669	243 385 322 640 2,163 6,204 8,528 7,519 7,750	10 16 14 27 91 261 358 316 326	1 2 2 3 12 33 46 40 42
Pebruary	3 4 4 4 4 4 4 3 3 44	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	633 696 804 814 760 644 657 653 723 676 528 588 8,177	27 29 34 34 32 27 28 27 30 28 22 25 343	3 4 4 4 3 4 3 4 4 3 3 44	41 31 60 45 80 54 32 52 69 18 30 34	296 139 433 227 251 304 199 225 131 132 57 109 2,503	-256 -108 -374 -182 -171 -249 -167 -173 -62 -114 -27 -75 -1,958	1,049 1,039 1,057 1,009 1,016 968 830 771 682 650 676 672 672	338 -10 18 -48 7 -48 -138 -59 -89 -32 26 -4	0 0 0 0 0 0 0 0 0	40 599 412 680 582 443 628 539 749 594 475 517 6,258	2 25 17 29 24 19 26 23 31 25 20 22 263	(s) 3 2 4 3 2 3 3 4 3 3 3 3 3 3 3
Pebruary	5 8 9 10 11 12 12 14 14 14 14	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	842 961 1,419 1,692 1,838 2,183 2,273 2,283 2,508 2,494 2,604 23,034	35 40 60 71 77 81 92 95 96 105 105 109 967	5 8 9 10 10 12 12 13 13 14 123	49 37 53 52 48 48 62 65 82 66 234 861	217 88 197 222 192 117 142 71 193 132 131 39 1,740	-169 -51 -144 -169 -144 -69 -80 -7 -127 -49 -65 195 -879	738 869 984 1,012 1,102 1,216 1,267 1,663 1,201 1,481 1,436 1,902 1,902	976 131 115 28 90 114 51 396 -462 280 -45 466 91,240	0 0 0 0 0 0 0 0 0	597 779 1,160 1,494 1,604 1,755 2,052 1,871 2,617 2,179 2,474 2,333 20,915	25 33 49 63 67 74 86 79 110 92 104 98 878	3 4 6 8 9 9 11 10 14 12 13 13
2012 January February March 3-Month Total	9 10 12 31	(s) (s) (s)	1,700 R 1,837 2,193 5,730	71 R 77 92 241	9 10 12 31	44 58 55 157	248 119 149 516	-204 -62 -93 -359	1,913 2,083 2,218 2,218	11 170 135 316	0 0 0 0	R 1,486 R 1,606 1,964 5,056	62 R 67 82 212	8 R 9 11 27
2011 3-Month Total 2010 3-Month Total	18 12	(s) (s)	3,221 2,134	135 90	17 11	139 131	503 868	-364 -737	984 1,057	322 346	0	2,535 1,051	106 44	14 6

under "Stocks."

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

Notes: • Mbbl = thousand barrels. M/gal = 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/#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.

e 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 December 2010 stocks value (662 thousand barrels), not the final December 2010 value (672 thousand barrels) that is shown

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 and 2010: 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.

2011 and 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 and 2010: EIA, PSA, annual reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

2011 and 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

1992-2010: EIA, PSA, annual reports, Table 1.

2011 and 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 and 2010: EIA, PSA, annual reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

2011 and 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 Animal/ 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 and 2010: EIA, *Petroleum Supply Annual (PSA)*, annual reports, Table 1, data for renewable fuels except fuel ethanol.

2011 and 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.

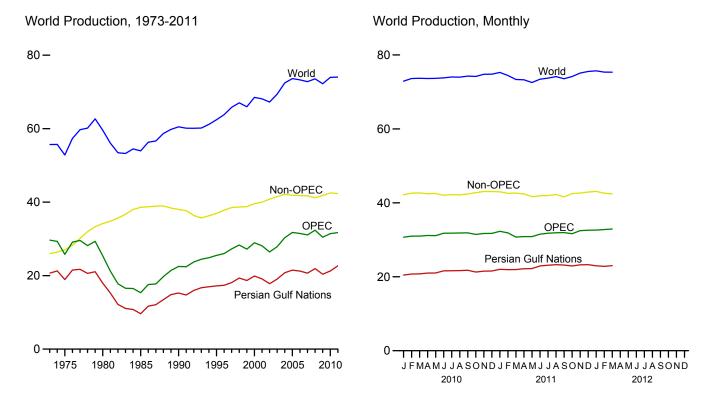
January and February 2009: EIA, PSA, Table 1, data for refinery and blender net inputs of renewable fuels except fuel ethanol.

March 2009 forward: Calculated as biodiesel production plus biodiesel net imports minus biodiesel stock change.

11. International Petroleum

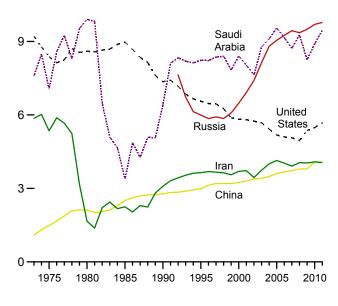
Figure 11.1a World Crude Oil Production Overview

(Million Barrels per Day)



Selected Producers, 1973-2011

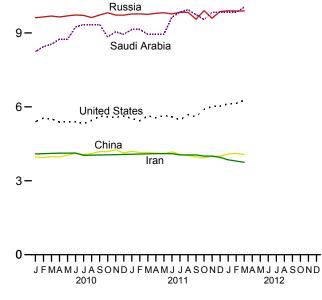
12-



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

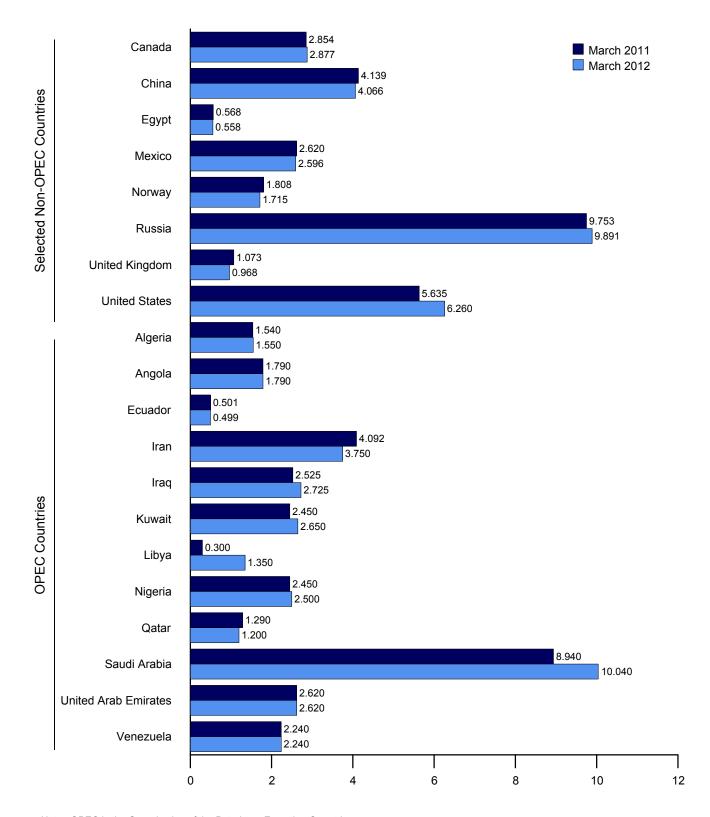
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sian Gulf Nations."

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	646	392	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	25,500
1996 Average	1,227	709	396	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,003
1997 Average	1,259	714	388	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,274
1998 Average	1,226	735	375	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,346
1999 Average	1,177	745	373	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,199
2000 Average	1,214	746	395	3,696	2,571	2,079	1,410	2,165	737	8,404	2,368	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	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	2,500	1,300	9,840	2,620	2,240	32,619
February	1,550	1,940	503	3,800	2,575	2,650	1,200	2,550	1,300	9,840	2,620	2,240	32,768
March	1,550	1,790	499	3,750	2,725	2,650	1,350	2,500	1,200	10,040	2,620	2,240	32,914
3-Month Average	1,550	1,872	502	3,800	2,660	2,650	1,183	2,516	1,266	9,908	2,620	2,240	32,767
2011 3-Month Average	1.540	1,790	503	4,084	2,559	2,384	1,089	2,532	1,283	9,071	2,554	2,240	31,631
2010 3-Month Average	1,540	2,057	471	4,100	2,440	2,250	1,650	2,444	1,020	8,406	2,414	2,106	30,896

^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. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. In March 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 day from the Abu Safah field produced on behalf of Bahrain.

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.

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

Table 11.1b World Crude Oil Production: Persian Gulf Nations, Non-OPEC, and World (Thousand Barrels per Day)

					Selected	l Non-OPE	C ^a Produce	rs				
	Persian Gulf Nations ^b	Canada	China	Egypt	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom	United States	Total Non- 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		1,430	1,490	235	705	189	9,523	NA	12	8,375	27,039	52,828
1980 Average		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		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		1,981	3,198	834	3,160	3,011		5,854	2,616	6,252	38,685	67,032
1999 Average		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		2,029	3,300	720	3,218	3,226		6,917	2,282	5,801	40,003	68,116
2002 Average		2,171	3,390	715	3,263	3,131		7,408	2,292	5,746	40,826	67,262
2003 Average		2,306	3,409	713	3,459	3,042		8,132	2,093	5,681	41,515	69,400
2004 Average		2,398	3,485	673	3,476	2,954		8,805	1,845	5,419	42,133	72,446
2005 Average		2,369	3,609	623	3,423	2,698		9,043	1,649	5,178	41,871	73,637
2006 Average	21,232	2,525	3,673	535	3,345	2,491		9,247	1,490	5,102	41,804	73,280
2007 Average		2,628	3,729	530	3,143	2,270		9,437	1,498	5,064	41,715	72,800
2008 Average		2,579	3,790	566 587	2,839	2,182		9,357	1,391	4,950	41,212	73,575
2009 Average	20,402	2,579	3,799	387	2,646	2,067		9,495	1,328	5,361	41,788	72,230
2010 January		2,497	3,968	579	2,660	2,060		9,615	1,379	R 5,397	R 42,207	R 72,906
February		2,712	3,938	578	2,655	2,038		9,648	1,274	R 5,543	R 42,625	R 73,620
March		2,621	3,981	577	2,641	1,983		9,683	1,429	R 5,512	R 42,689	R 73,693
April		2,695	3,961	576	2,639	1,967		9,646	1,378	R 5,379	R 42,456	R 73,637
May		2,745	4,040	576	2,639	1,921		9,691	1,297	R 5,404	R 42,523	R 73,661
June		2,772	4,108	575	2,592	1,611		9,727	1,076	R 5,387	R 42,031	R 73,811
July		2,765	4,056	575 574	2,618	1,864		9,710	1,055	R 5,318	R 42,233	R 74,034
August		2,783	4,104	574 574	2,604	1,648		9,623	1,070	^R 5,448 ^R 5,613	^R 42,142 ^R 42,398	R 73,990
September		2,648 2,690	4,183 4,181	574 573	2,615	1,637 1,952		9,725	1,194 1,195	R 5,605	42,740	^R 74,278 74,186
October November		2,690	4,161	573 573	2,615 2,556	1,868		9,816 9,723	1,195	R 5,568	R 43,070	R 74,783
December		2,933	4,126	573 572	2,620	1,886		9,723	1,246	R 5.630	R 43.050	R 74,792
Average		2,933 2,734	4,076	575	2,620 2,621	1,869		9,694	1,233	R 5,483	R 42,513	R 73,950
2011 January	22,026	2,870	4,195	570	2,632	1,905		9,769	1,316	RE 5,526	R 42,987	^R 75,278
February		2,906	4,147	569	2,602	1,861		9,773	1,085	RE 5,436	R 42,568	R 74,456
March		2,854	4,139	568	2,620	1,808		9,753	1,073	RE 5.635	R 42.632	R 73,370
April		2,848	4,127	567	2,621	1,874		9,795	1,164	RE 5.560	42.431	73,290
May		2,564	4,104	566	2,603	1,607		9,818	1,017	RE 5.647	R 41,669	R 72,542
June		2,664	4,172	565	2,592	1,660		9,770	1,018	RE 5,598	R 41,910	R 73,430
July		2,916	4,073	564	2,580	1,737		9,837	946	RE 5,468	R 41,978	R 73,744
August		3,068	4,030	563	2,598	1,714		9,832	767	RE 5,680	R 42,250	^R 74,150
September		2,983	3,964	562	2,534	1,636		9,557	890	RE 5,592	R 41,607	R 73,558
October		3,032	3,926	561	2,598	1,756		9,902	998	RE 5,892	R 42,505	R 74,162
November		3,022	4,006	560	2,573	1,764		9,595	1,039	RE 6,012	R 42,646	R 75,105
December	23,270	3,120	3,998	559	2,601	1,713		9,869	1,010	RE 6,028	R 42,930	R 75,535
Average	22,687	2,904	4,073	564	2,596	1,752		9,774	1,026	RE 5,675	R 42,343	^R 74,051
2012 January	22,970	3,189	4,089	558	2,562	1,761		9,894	999	RE 6,124	R 43,084	R 75,703
February		3,045	4,109	^R 558	2,588	1,745		9,889	1,016	RE 6,139	R 42,588	^R 75,356
March		2,877	4,066	558	2,596	1,715		9,891	968	E 6,260	42,419	75,334
3-Month Average		3,037	4,088	558	2,582	1,740		9,891	994	E 6,175	42,700	75,467
2011 3-Month Average 2010 3-Month Average		2,876 2,607	4,161 3,963	569 578	2,618 2,652	1,858 2,027		9,765 9,649	1,160 1,363	5,536 5,482	42,735 42,503	74,365 73,399

^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.

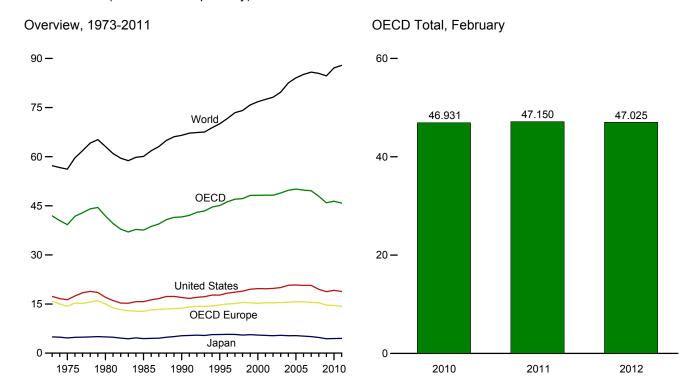
for all years.

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

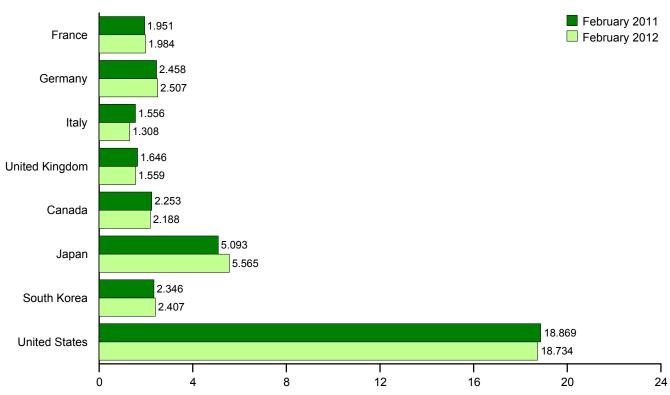
the Neutral Zone (between Kuwait and Saudi Arabia).
R=Revised. NA=Not available. --=Not applicable. E=Estimate.

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)

(Darrolo po	,									
	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	12,770	1,526	4,436	552	15,726	2,564	37,575	60,083
1990 Average	1,826	2,682	1,868	1,776	13,729	1,737	5,315	1,048	16,988	2,784	41,601	66,533
1995 Average	1.920	2,882	1,942	1,816	14,714	1.817	5,693	2,008	17,725	3.135	45.092	70,067
1996 Average	1,949	2,922	1,920	1,852	14,998	1,871	5,739	2,101	18,309	3,206	46,224	71,665
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	2,043	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	15,215	2,014	5,515	2,135	19,701	3,624	48,205	76,781
2001 Average	2,054	2,807	1,832	1,747	15,384	2,043	5,412	2,132	19,649	3,633	48,253	77,508
2002 Average	1,985	2,710	1,870	1,739	15,329	2,065	5,319	2,149	19,761	3,595	48,218	78,161
2003 Average	2,001	2,662	1,860	1,759	15,445	2,191	5,428	2,175	20,034	3,628	48,901	79,708
2004 Average	2,009	2,649	1,829	1,785	15,547	2,131	5,319	2,155	20,731	3,719	49,753	82,530
2005 Average	1,991	2,621	1,781	1,823	15,666	2,315	5,328	2,191	20,802	3,800	50,102	84,064
2006 Average	1,991	2,639	1,777	1,803	15,666	2,229	5,197	2,180	20,687	3,826	49,785	85,133
2007 Average	1,979	2,420	1,729	1,734	15,474	2,283	5,037	2,241	20,680	3,876	49,591	85,823
2008 Average	1,945	2,545	1,667	1,725	15,389	2,232	4.788	2.142	19,498	3,870	R 47,919	R 85,431
2009 Average	1,870	2,452	1,543	1,646	14,663	2,157	4,394	2,188	18,771	3,744	45,918	R 84,693
2010 January	1,785	2,186	1,353	1,578	13,489	2,104	4,766	2,344	18,652	3,482	44,837	NA
February	1,988	2,481	1,518	1,679	14,696	2,229	4,988	2,365	18,850	3,804	46,931	NA
March	1,942	2,530	1,547	1,675	R 14,808	2,137	4,725	2,237	19,099	3,705	R 46,711	NA
April	1,875	2,286	1,504	1,638	R 14,230	2,108	4,352	2,232	19,044	3,754	R 45,719	NA
May	1,723	2,379	1,435	1,607	R 13,887	2,155	3,865	2,153	18,866	3,727	44,654	NA
June	1,866	2,535	1,561	1,590	R 14,660	2,241	3,992	2,160	19,537	3,826	46,416	NA
July	1,858	2,596	1,643	1,623	14,920	2,183	4,194	2,094	19,319	3,748	R 46,458	NA
August	1,770	2,572	1,490	1,635	14,497	2,335	4,412	2,204	19,662	3,595	46,705	NA
September	1,975	2,773	1,608	1,632	15,376	2,351	4,466	2,175	19,438	3,688	R 47,494	NA
October	1,782	2,647	1,516	1,659	R 14,895	2,220	4,059	2,209	18,974	3,640	R 45,997	NA
November	1,818	2,611	1,551	1,639	R 14,977	2,257	4,620	2,374	18,977	3,802	47,009	NA
December	1,968	2,349	1,615	1,518	14,607	R 2,213	5,029	2,479	19,722	3,824	R 47,874	NA
Average	1,861	2,495	1,528	1,622	R 14,583	R 2,211	4,452	2,251	19,180	3,715	R 46,393	R 87,130
2011 January	1,805	R 2,253	1,354	1,595	R 13,640	R 2,254	4,923	2,427	19,121	3,499	R 45,864	NA
February	1,951	R 2,458	1,556	1,646	R 14,765	2,253	5,093	2,346	18,869	3,823	R 47,150	NA
March	1,821	R 2,415	1,446	1,630	R 14,303	2,242	4,575	2,292	19,248	3,866	^R 46,528	NA
April	1,780	R 2,281	1,463	1,615	R 13,937	2,115	4,008	2,008	18,613	3,766	R 44,447	NA
May	1,766	R 2,426	1,426	1,549	R 14,013	2,136	3,801	2,016	18,363	3,724	R 44,054	NA
June	1,819	R 2,294	1,511	1,682	R 14,406	2,204	3,957	2,109	19,277	3,861	R 45,815	NA
July	1,831	R 2,431	1,479	1,556	R 14,385	2,281	4,240	2,186	18,555	3,760	R 45,407	NA
August	1,836	R 2,661	1,401	1,611	R 14,701	2,344	4,439	2,209	19,153	3,811	R 46,658	NA
September	1,952	R 2,574	1,543	1,665	R 14,998	2,245	4,292	2,238	18,795	3,856	R 46,424	NA
October	1,808	R 2,531	1,467	1,572	R 14,350	2,230	4,408	2,213	18,563	3,663	R 45,427	NA
November	1,763	R 2,470	1,407	1,589	R 14,161	R 2,256	4,616	2,249	18,734	3,894	R 45,911	NA
December	1,768	R 2,284	1,425	1,526	R 13,748	R 2,289	R 5,443	2,434	18,738	3,873	R 46,524	NA NA
Average	1,824	R 2,423	1,455	1,602	R 14,279	R 2,238	R 4,481	2,227	18,835	3,782	R 45,842	R 87,879
2012 January	1,777	R 2,156	1,265	1,435	R 13,066	R 2,197	5,175	2,363	18,268	R 3,559	R 44,628	NA
February	1,984	2,507	1,308	1,559	14,348	2,188	5,565	2,407	18,734	3,784	47,025	NA
2-Month Average	1,877	2,325	1,286	1,495	13,685	2,193	5,363	2,384	18,493	3,668	45,786	NA
2011 2-Month Average	1,874 1.881	2,350	1,450	1,619	14,174	2,254	5,004 4,871	2,389 2,354	19,002 18,746	3,653	46,475 45,830	NA NA
2010 2-Month Average	1,001	2,326	1,431	1,626	14,061	2,163	4,871	2,354	18,746	3,635	45,830	NA

^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 Notes: •

rounding. Columbia. • 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. Short Term Energy Outlook, June 12, 2012, Table 3a • All Other forward—EIA, Short Term Energy Outlook, June 12, 2012, Table 3a. • All Other Data:—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues.

Germany.

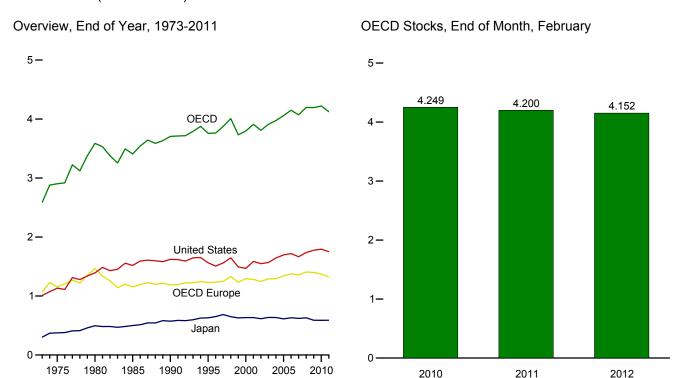
b "OECD Europe" consists of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland, Turkey and the International Control of the Poland Control of the International Control of th Turkey, and the United Kingdom.

^c "Other OECD" consists of Australia, Chile, Mexico, New Zealand, and the

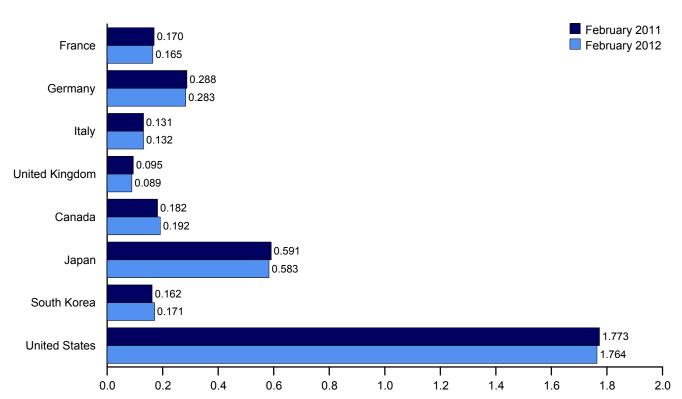
U.S. Territories.

^d The Organization for Economic Cooperation and Development (OECD) consists of "OECD 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	Germanya	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD d
1973 Year	201	181	152	156	1,070	140	303	NA	1,008	67	2,588
1975 Year	225	187	143	165	1,070	174	375	NA NA	1,133	67	2,903
1980 Year	243	319	170	168	1,154	164	495	NA NA	1,133	72	3,587
1985 Year	139	277	156	131	1,154	112	500	13	1,519	110	3,408
1990 Year	143	280	143	103	1,188	143	572	64	1,621	117	3,706
1995 Year	155	302	141	101	1,228	132	631	92	1,563	113	3,758
1996 Year	154	303	135	103	1,235	127	651	123	1,503	118	3,762
1997 Year	161	299	129	100	1,235	144	685	123	1,560	115	3,875
	169	299 323		100						111	
1998 Year	160	290	135		1,331	139	649 629	129	1,647		4,006
999 Year			130	101	1,233	142		132	1,493	105	3,733
2000 Year	170	272	140	100	1,294	144	634	140	1,468	117	3,796
2001 Year	165	273	134	113	1,281	154	634	143	1,586	112	3,910
2002 Year	170	253	138	104	1,247	155	615	140	1,548	103	3,808
2003 Year	179	273	135	100	1,290	165	636	155	1,568	96	3,910
2004 Year	177	267	136	101	1,292	154	635	149	1,645	99	3,974
2005 Year	185	283	132	95	1,342	168	612	135	1,698	103	4,058
2006 Year	182	283	133	103	1,374	169	631	152	1,720	103	4,148
2007 Year	180	275	133	90	1,358	175	621	143	1,665	108	4,072
2008 Year	179	279	128	99	1,407	174	630	135	1,737	114	4,196
2009 Year	175	284	126	94	1,398	169	589	155	1,776	105	4,193
2010 January	182	295	127	95	1,439	172	593	162	1,786	111	4,263
February	175	290	134	99	1,424	174	587	163	1,785	117	4,249
March	172	289	129	93	1,404	180	581	164	1,787	114	4,230
April	172	284	135	95	1,414	181	590	166	1,810	111	4,272
May	173	286	131	99	1,422	177	599	166	1,830	108	4,302
June	170	280	133	96	1,405	178	597	167	1,842	120	4,308
July	168	282	127	96	1,389	186	598	170	1,855	116	4,314
August	171	289	133	93	1,406	195	597	169	1,862	115	4,343
September	163	286	127	95	1,365	193	582	174	1,861	111	4,286
October	161	285	129	94	1,375	195	599	170	1,847	112	4,298
November	170	287	126	92	1,367	197	604	171	1,827	108	4,274
December	168	287	133	89	1,371	196	588	165	1,794	106	4,221
011 January	173	^R 291	140	96	R 1,411	^R 187	596	168	1,803	105	R 4,270
February	170	R 288	131	95	R 1,383	182	591	162	1,773	108	R 4,200
March	167	R 286	132	93	R 1.370	185	575	170	1,770	105	R 4.175
April	163	R 291	132	93	R 1.356	191	601	173	1,776	109	R 4.206
May	168	R 288	130	90	R 1,359	189	599	170	1,805	110	R 4,232
June	167	R 286	130	85	R 1,353	190	593	175	1,808	108	R 4,225
July	164	R 290	130	86	R 1,342	189	599	173	1,820	109	R 4,223
August	162	R 283	132	89	R 1.346	188	598	173	1,801	111	R 4,215
September	160	R 277	132	84	R 1,325	189	601	174	1,781	105	R 4,175
October	165	R 278	130	85	R 1,314	192	599	174	1,770	105	R 4,173
	164	R 277	130	85 92	R 1,314	192	603				R 4,172
November	164 165	R 277	131 128	92 87	R 1,330	193 190	589	170 167	1,772	105 105	R 4,172
December	100	2/9	128	81	1,320	190	289	107	1,751	105	4,122
2012 January	166	284	132	89	R 1,340	R 190	594	164	1,771	107	R 4,166
February	165	283	132	89	1,342	192	583	171	1,764	99	4,152

^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 unified Germany, i.e., the former East Germany and West Germany.

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 all available data beginning in 1973.

Sources: • United States: Table 3.4. • U.S. Territories: 1983

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, May 11, 2012.

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

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.

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, June 2012.

All Other Countries and World, Monthly Data

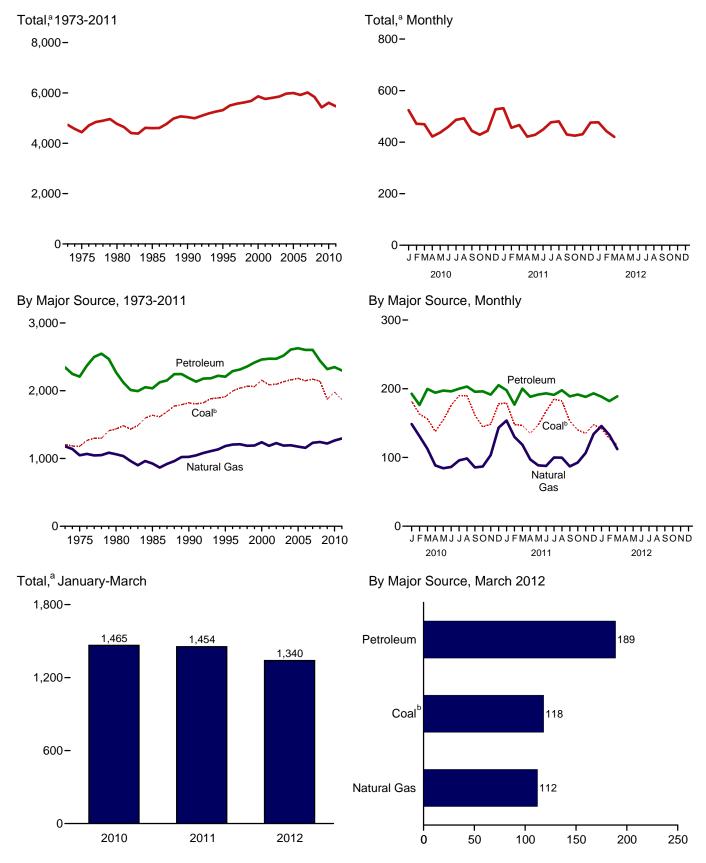
1973–1980: Petroleum Intelligence Weekly (PIW), Oil & Gas Journal (OGJ), and EIA adjustments.

1981–1993: PIW, OGJ, and other industry sources.

1994 forward: EIA, International Energy Database, June 2012.

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	um					
	Coalb	Natural Gas ^c	Aviation Gasoline	Distillate Fuel Oil ^d	Jet Fuel	Kero- sene	LPG ^e	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 1985 Total	1,436 1.638	1,063 926	4 3	446 445	156 178	24 17	87 86	13 12	900 930	46 55	453 216	142 93	2,272 2.035	4,770 4,600
1990 Total	1,821	1,025	3	470	223	6	69	13	988	67	220	127	2,033	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 2.172	1,158 1,233	2 2	648 652	240 238	8 5	93 94	11 12	1,224 1,227	104 98	122 129	150 148	2,603 2,603	5,919 6,020
2007 Total 2008 Total	2,172	1,233	2	615	236	2	89	11	1,227	90	111	130	2,603	5.838
2009 Total	1,876	1,222	2	564	204	3	91	10	1,157	87	91	111	2,320	5,429
	,	•	_			·			ŕ				,	,
2010 January	182	149	(s)	49	17	(s)	10	1	92	5	9	9	193	524
February	163	131	(s)	46	15	(s)	9	1	84	5	7	9	176	R 471
March	R 156 R 138	113 88	(s)	51 48	18 17	(s)	8 7	1	95 96	7 6	8 9	11 11	200 194	470 422
April	155	84	(s)	46 48	18	(s)	7	1 1	99	6	8	10	194	R 437
May June	176	86	(s) (s)	46 48	19	(s) (s)	7	1	99	7	7	10	197	R 459
July	R 190	96	(s)	47	19	(s)	7	1	101	7	9	10	200	487
August	190	99	(s)	50	19	(s)	7	i	100	8	7	11	203	493
September	R 161	86	(s)	50	18	(s)	7	i 1	96	7	8	10	196	444
October	145	87	(s)	50	18	(s)	8	1	97	6	7	9	196	429
November	^R 148	103	(s)	49	17	` 1	8	1	92	7	8	9	191	R 444
December	^R 178	143	(s)	55	17	1	11	1	96	6	8	10	205	528
Total	^R 1,982	1,265	2	590	210	3	94	11	1,146	77	96	120	2,349	R 5,607
2011 January	R 179	154	(s)	52	17	(s)	10	1	91	6	9	10	198	532
February	^R 148	130	(s)	46	15	. 1	8	1	84	4	9	9	177	R 456
March		119	(s)	53	17	(s)	8	1	95	6	8	12	200	R 466
April	R 135	97	(s)	47	17	(s)	6	1	92	6	9	10	188	422
May	148 ^R 167	88	(s)	48	18	(s)	7	1	95 94	7	7 7	9	192	429 R 440
June	R 185	88	(s)	50 45	19 18	(s)	6 7	1 1	94 97	7 6	, 5	10 11	193 191	R 449 R 477
July August	R 182	100 100	(s) (s)	45 52	19	(s) (s)	7	1	97 96	8	5 5	10	191	481
September	R 153	87	(s)	50	17	(s)	7	1	92	6	7	9	189	R 430
October	R 140	93	(s)	52	17	(s)	8	1	93	7	6	8	192	R 425
November	R 135	107	(s)	52	17	(s)	8	i 1	89	6	6	10	188	431
December		134	(s)	50	17	(s)	9	i	93	5	8	10	193	R 476
Total		1,296	2	596	209	2	92	10	1,111	75	86	116	2,299	R 5,473
2012 January	R 142	146	(s)	50	16	(s)	9	1	89	6	6	10	188	R 477
February	^R 127	133	(s)	49	16	(s)	8	1	87	5	6	10	182	R 443
March	118	112	(s)	48	17	(s)	8	1	93	.6	6	9	189	420
3-Month Total	387	391	(s)	147	49	(s)	26	3	269	17	18	30	559	1,340
2011 3-Month Total	474	402	(s)	151	49	1	27	3	270	17	26	30	575	1,454
2010 3-Month Total	501	392	(s)	145	50	1	28	3	272	17	24	29	569	1,465

a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
b Includes coal coke net imports.

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/monthly/#environment for

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

Sources: See end of section.

Natural gas, excluding supplemental gaseous fuels.
 Distillate fuel oil, excluding biodiesel.

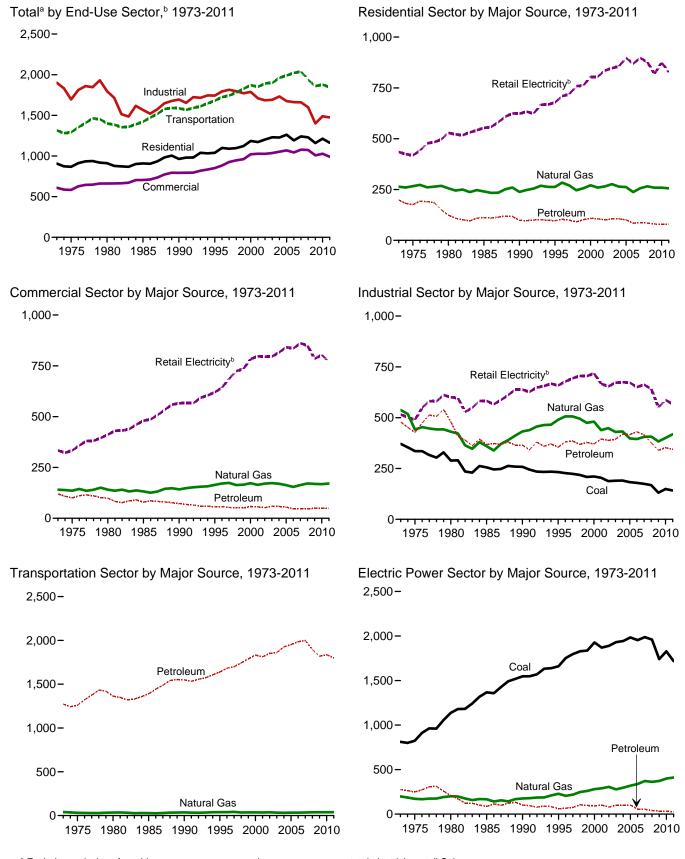
Eliquefied petroleum gases.
 Finished motor gasoline, excluding fuel ethanol.
 Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.

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 1975 Total 1980 Total 1985 Total 1990 Total 1990 Total 1995 Total 1997 Total 1997 Total 1997 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2009 Total	9 6 3 4 3 2 2 2 1 1 1 1 1 1 1 1 1 1 1	264 266 256 241 238 263 284 270 247 257 271 259 265 276 264 262 237 257 257	147 132 96 80 72 66 68 64 56 61 66 63 66 63 66 62 52 53 49	16 12 8 11 5 5 6 7 8 8 7 7 4 5 6 6 5 3 2 2 2	36 32 20 20 22 25 30 29 27 33 35 33 34 34 32 28 31 35 35	199 176 124 111 98 96 104 99 91 102 108 106 101 106 101 85 87 85	435 419 529 553 624 678 710 719 759 762 805 805 835 847 856 897 869 897 878	907 867 911 909 963 1,039 1,099 1,090 1,097 1,122 1,185 1,172 1,203 1,230 1,230 1,228 1,261 1,192 1,192 1,159
2010 January February March April May June July August September October November December Total	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	51 43 31 17 17 7 6 6 6 11 24 46 259	6 6 4 2 3 3 2 2 2 2 3 3 6 44	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	3 3 2 2 2 3 3 3 3 3 3 3 3 3 3 3	10 9 7 5 5 6 5 5 6 7 10 78	91 74 65 51 59 79 97 96 72 56 81 875	151 126 103 73 75 92 108 107 83 73 87 137
2011 January	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	53 42 33 19 11 7 6 6 7 12 23 37 256	5 5 4 2 2 3 2 3 4 4 6 43	(s) (s) (s) (s) (s) (s) (s) (s) (s)	3 3 2 3 2 3 3 3 3 3 3 3 3 3 3 3 3	9 8 7 5 4 5 5 6 6 7 7 9 78	87 67 59 53 58 76 96 92 69 54 53 66 827	148 117 99 77 74 88 107 104 81 73 83 113 1,162
2012 January February March 3-Month Total	(s) (s) (s) (s)	43 36 22 102	6 5 4 15	(s) (s) (s) (s)	3 3 3 9	9 8 7 24	68 58 51 177	121 102 80 303
2011 3-Month Total 2010 3-Month Total	(s) (s)	127 125	14 15	1 1	9 9	24 25	213 229	364 380

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 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.
Excludes emissions from biomass energy consumption. See Table 12.7.
(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.

Sources: See end of section.

Table 12.3 Carbon Dioxide Emissions From Energy Consumption: Commercial Sector

				Retail							
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Total	Elec- tricity ^f	Total
1973 Total 1975 Total 1985 Total 1985 Total 1990 Total 1990 Total 1997 Total 1997 Total 1997 Total 1998 Total 2001 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2009 Total 2009 Total	15 14 11 13 12 11 12 12 9 9 9 9 8 10 9 6 7 7	141 136 141 132 142 164 171 174 165 173 164 170 173 170 163 154 164 171	47 43 38 46 39 35 35 32 31 32 36 37 32 35 34 33 29 28 27 30	5 4 3 2 1 2 2 2 2 2 2 2 1 1 1 1 2 1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 86 66 7 8 8 7 9 9 9 10 10 8 8 8 10 9	6 8 7 8 1 2 3 3 2 3 3 3 4 3 3 4 3 3 4 4 3 4 4 4 4	NA NA O (S)	52 39 44 18 11 11 9 7 6 7 6 9 10 9 6 6 6	120 100 98 79 73 56 57 54 51 58 57 52 59 58 55 48 47 46 49	334 333 412 480 566 620 643 686 724 735 783 797 795 796 816 842 836 861 850 785	609 583 662 704 793 851 883 926 947 960 1,022 1,027 1,026 1,036 1,054 1,069 1,043 1,078 1,078
Potal January February March April May June July August September October November December Total	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s)	27 24 18 12 9 7 6 7 7 10 16 25	4 4 3 2 2 2 2 2 2 1 2 2 4 3 3	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) 0 0 (s) (s) (s) (s) (s)	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s)	6 6 4 3 3 4 3 3 4 4 6 49	66 60 59 57 66 74 80 81 69 63 61 68	101 91 82 73 78 85 90 91 79 77 81 100 1,027
Petron January February March April May June July August September October November December Total	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	29 R 23 20 13 9 7 7 7 8 12 15 22 171	4 3 3 2 1 1 2 2 2 2 2 3 3 4 3	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) 0 0 0 0 0 0 (s) (s) (s)	1 (s) (s) (s) (s) (s) (s) (s) 1 1 1	6 5 4 3 2 3 3 4 4 4 5 6 49	65 55 58 57 63 70 79 77 66 61 57 59 767	99 R 84 83 75 81 89 88 77 77 77 87 87
Pebruary	(s) (s) (s)	24 21 14 60	4 3 3 11	(s) (s) (s) (s)	1 1 2	(s) (s) (s) 1	(s) (s) (s) (s)	1 1 2	6 5 5 16	57 53 52 162	88 80 71 239
2011 3-Month Total 2010 3-Month Total	2 2	72 69	10 11	(s) (s)	2 2	1 1	(s) (s)	2 2	15 16	178 186	266 273

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.

Liquefied petroleum gases. Finished motor gasoline, excluding fuel ethanol.

Finistic motor gasonine, excluding fuel ethalors.

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.

g Excludes emissions from biomass energy consumption. See Table 12.7.
R=Revised. 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.

Sources: See end of section.

Table 12.4 Carbon Dioxide Emissions From Energy Consumption: Industrial Sector

		Coal						Petroleun	n					
	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 ^g	Total ^h
1973 Total	371	-1	538	106	11	43	7	18	49	144	100	478	515	1,902
1975 Total	336	2	442	97	9	39	6	16	48	117	97	427	490	1,696
1980 Total	289	-4	431	96	13	61	7	11	45	105	142	480	601	1,797
1985 Total	256	-2	360	81	3	58	6	15	54	57	93	369	583	1,566
1990 Total	258	1	432	84	1	39	7	13	64	31	127	366	638	1,695
1995 Total	233	7	490	82	1	45	7	14	67	24	114	355	659	1,743
1996 Total	227	3 5	506	86 88	1	46	6 7	14 15	70	24	132	381	678	1,795
1997 Total	224 219	5 8	506 495	88	2	48 39	7	15	68 77	21 16	138 125	386 368	694 706	1,815 1,796
1998 Total 1999 Total	208	7	474	86	1	48	7	11	81	14	130	378	704	1,772
2000 Total	211	7	481	87	i	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	54	Ğ.	22	76	13	127	388	654	1,685
2003 Total	190	6	430	83	2	50	6	23	76	15	140	394	672	1,692
2004 Total	191	16	432	88	2	55	6	26	82	17	142	419	675	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	175	3	405	92	1	54	6	21	80	13	148	415	662	1,661
2008 Total	168	5	407	93	(s)	42	6	17	76	14	130	377	642	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	R 122
February	12	(s)	34	6	(s)	5	(s)	1	4	1	9	27	44	118
March	13	(s)	35	9	(s)	4	(s)	2	6	1	11	33	46	127
April	R 12 R 12	(s)	32 32	8 6	(s)	3 3	(s)	2 2	5 5	1	11 10	30 28	45 51	120 R 123
May	R 12	(s) (s)	32	5	(s) (s)	3	(s)	2	5 5	1	10	28 27	52	R 123
June July	R 12	(s)	32	4	(s)	3	1	2	5	1	10	26	54	124
August	13	(s)	32	7	(s)	4	(s)	2	6	1	11	31	55	R 130
September	13	(s)	32	9	(s)	4	(s)	2	6	i	10	31	48	124
October	R 12	(s)	33	7	(s)	4	(s)	2	5	i	9	28	47	120
November	13	-1	34	8	(s)	4	(s)	2	6	1	9	30	48	124
December	13	-1	37	9	(s)	6	(s)	2	5	1	10	33	50	R 133
Total	R 149	-1	401	86	`1	50	6	19	62	8	120	352	587	R 1,488
2011 January	^R 12	(s)	39	10	(s)	6	(s)	1	5	1	10	33	47	132
February	^R 12	(s)	35	7	(s)	5	(s)	1	3	1	9	26	42	115
March	ຼ 13	(s)	36	10	(s)	4	. 1	2	5	1	12	33	45	128
April	R 11	(s)	34	7	(s)	3	(s)	2	5	1	10	28	45	R 118
May	12	(s)	34	7	(s)	3	(s)	2	6	1	9	28	48	R 122
June	12 ^R 11	(s)	33	7	(s)	3	(s)	2	5	1	10	28	50	R 122
July August	12	(s) (s)	33 34	3 7	(s) (s)	3 4	(s) (s)	2 2	5 7	(s) (s)	11 10	25 29	53 53	^R 123 ^R 128
September	12	(s)	33	7	(s)	4	(s)	2	5	(5)	9	29	46	119
October	12	(s)	34	8	(s)	4	(s)	2	6	i	8	28	47	R 121
November	12	(s)	35	9	(s)	4	(s)	1	5	i	10	30	45	R 122
December	R 12	(s)	38	6	(s)	5	(s)	2	4	i	10	28	45	R 123
Total	R 142	1	419	88	(s)	48	5	18	62	8	116	345	567	R 1,474
2012 January	R 11	(s)	39	7	(s)	5	(s)	1	5	1	10	31	43	^R 123
February	R 11	(s)	36	9	(s)	5	(s)	1	4	(s)	10	30	42	R 120
March	12	(s)	36	7	(s)	.4	(s)	2	.5	1	9	28	41	117
3-Month Total	34	1	111	23	(s)	14	1	4	14	2	30	89	126	360
2011 3-Month Total	37	(s)	110	27	(s)	15	1	4	13	2	30	93	134	374
2010 3-Month Total	37	(s)	106	22	(s)	15	1	4	14	2	29	88	136	367

^a Metric tons of carbon dioxide can be converted to metric tons of carbon

R=Revised. (s)=Less than 0.5 million metric tons and greater than -0.5 million

R=Revised. (s)=Less than 0.5 million metric tons and greater 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

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.

equivalent by multiplying by 12/44.

b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.

Liquefied petroleum gases. Finished motor gasoline, excluding fuel ethanol.

e Finished motor gasoline, excluding fuel ethanol.

f 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.

g 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

						Petr	oleum				Retail Elec- tricity ^f	Total ^g
	Coal	Natural Gas ^b	Aviation Gasoline	Distillate Fuel Oil ^c	Jet Fuel	LPG ^d	Lubri- cants	Motor Gasoline ^e	Residual Fuel Oil	Total		
1973 Total	(s)	39	6	163	152	3	6	886	57	1,273	2	1.315
1975 Total	(s)	32	5	155	145	3	6	889	56	1,258	2	1,292
1980 Total	(h)	34	4	204	155	ĭ	6	881	110	1,363	2	1,400
1985 Total	}h{	28	3	232	178	ż	Ğ	908	62	1,391	3	1,421
1990 Total	ìh;	36	3	268	223	1	7	967	80	1,548	3	1.588
1995 Total	ìh;	38	3	307	222	1	6	1.029	72	1,639	3	1,681
1996 Total	(h)	39	3	327	232	1	6	1,047	67	1,683	3	1,725
1997 Total	(h)	41	3	342	234	1	6	1,057	56	1,699	3	1,744
1998 Total	(h)	35	2	352	238	1	7	1,090	53	1,743	3	1,782
1999 Total	(h)	36	3	366	245	1	7	1,115	52	1,789	3	1,828
2000 Total	(h)	36	3	378	254	1	7	1,121	70	1,833	4	1,872
2001 Total	(h)	35	2	387	243	1	6	1,127	46	1,813	4	1,852
2002 Total	(h)	37	2	394	237	1	6	1,158	53	1,851	4	1,892
2003 Total	(h)	33	2	414	231	1	6	1,161	45	1,861	5	1,899
2004 Total	(h)	32	2	434	240	1	6	1,185	58	1,926	5	1,962
2005 Total	(")	33	2	444	246	2	6	1,186	66	1,953	5	1,991
2006 Total	(")	33	2	469	240	2	5	1,194	71	1,984	5	2,022
2007 Total	(")	35	2	472	238	1	6	1,201	78	1,999	5	2,040
2008 Total	('')	37	2	440	226	3	5	1,146	72	1,895	5	1,937
2009 Total	(")	38	2	404	204	2	5	1,137	64	1,818	5	1,860
2010 January	(h)	4	(s)	31	17	(s)	(s)	91	6	145	(s)	150
February	('')	4	(s)	30	15	(s)	(s)	82	5	133	(s)	137
March	(ii)	3	(s)	35	18	(s)	(s)	94	6	154	(s)	157
April	(ii)	3	(s)	35	17	(s)	(s)	94	7	154	(s)	157
May	('')	3	(s)	37	18	(s)	(s)	97	6	159	(s)	161
June	(ii)	3	(s)	36	19	(s)	1	95	5	156	(s)	159
July	('')	3	(s)	38	19	(s)	(s)	99	6	162	(s)	165
August	\ h \	3	(s)	39 37	19	(s)	(s)	98 94	5 6	161	(s)	165 157
September	(ii)	3	(s) (s)	37 37	18 18	(s)	(s)	9 4 95	6	155 157	(s)	160
October November	(h)	3	(s)	37 35	17	(s)	(s) (s)	95 90	6	149	(s)	152
December	\h\	4	(s)	35	17	(s) (s)	(s)	94	5	153	(s) (s)	152
Total	(h)	38	2	425	210	2	5	1,124	69	1,836	5	1,879
2011 January	(h)	5	(s)	33	17	(s)	(s)	89	7	147	(s)	152
February	} h {	4	(s)	30	15	(s)	(s)	83	7	135	(s)	140
March	} h {	4	(s)	36	17	(s)	(3)	93	6	153	(s)	157
April	}h {	3	(s)	35	17	(s)	(s)	90	7	151	(s)	154
May	λhí	3	(s)	38	18	(s)	(s)	93	6	155	(s)	158
June	}h {	3	(s)	38	19	(s)	(s)	92	5	155	(s)	158
July	}h {	3	(s)	37	18	(s)	(s)	95	3	155	(s)	158
August	}h {	3	(s)	39	19	(s)	(s)	94	3	157	(s)	160
September	(h)	3	(s)	36	17	(s)	(s)	90	5	150	(s)	153
October	(h)	3	(s)	37	17	(s)	(s)	91	5	151	(s)	154
November	(h)	3	(s)	35	17	(s)	(s)	87	4	145	(s)	148
December	(h)	4	(s)	34	17	(s)	(s)	92	6	149	(s)	153
Total	(h)	39	2	430	209	2	5	1,089	65	1,802	`4	1,845
2012 January	(h)	4	(s)	32	16	(s)	(s)	87	5	140	(s)	145
February	(h)	4	(s)	31	16	(s)	(s)	85	4	137	(s)	141
March	(h)	3	(s)	34	17	(s)	(s)	91	.5	148	(s)	152
3-Month Total	(h)	12	(s)	97	49	1	1	264	13	426	1	438
2011 3-Month Total	(h)	12	(s) (s)	99	49	1	1	265	20	436	1	449
2010 3-Month Total	(h)	12	(s)	96	50	1	1	266	17	432	1	445

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.

(s)=Less than 0.5 million metric tons.

(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. 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.

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.

g 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.

Table 12.6 Carbon Dioxide Emissions From Energy Consumption: Electric Power Sector (Million Metric Tons of Carbon Dioxide^a)

				Petrol	eum			N	
	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	1,244
1980 Total	1.137	200	12	1	194	207	NA NA	NA NA	1,544
	1,367	166	6	i	79	86	NA NA	NA NA	1,619
1985 Total		176	7	3	79 92	102	1	NA 6	
1990 Total	1,548			-			(s)	-	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	2,200
	1,943	297	8	23	69	100	1 1 1	11	2,319
2004 Total							(s)		
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)	1	1	2	(s)	1	154
May	142	30	(s)	1	1	3	(s)	1	176
June	163	38	1	i	2	4	(s)	i	206
July	177	48		2	2	4	(s)	i	231
		51	1	1	2	3	· · ·	•	232
August	177		(s)				(s)	1	
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	1	2	(s)	1	166
December	165	31	1	1	1	3	(s)	1	200
Total	1,828	399	6	15	12	33	(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	i	2	(s)	i	196
July	173	51	(s)	1	1	3	(s)	1	228
	173	50		1	1	2		1	223
August			(s)	1	1		(s)	1	
September	141	37	(s)		•	2	(s)	•	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
3-Month Total	351	107	1	3	1	5	(s)	3	466
2011 3-Month Total	435	81	1	4	2	7	(s)	3	526
2010 3-Month Total	462	80	2	4	3	8	(s)	3	553

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Natural gas, excluding supple

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section.

all available data beginning in 1973. Sources: See end of section.

b Natural gas, excluding supplemental gaseous fuels.
 C Distillate fuel oil, excluding biodiesel.
 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.

[•] 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

Table 12.7 Carbon Dioxide Emissions From Biomass Energy Consumption

			D. Camara	/		D. C						
		1	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 1975 Total	143 140	(s) (s)	NA NA	NA NA	143 141	33 40	1	109 100	NA NA	(s) (s)	143 141	
1980 Total	232	(s) 14	NA	NA	232	80	2	150	NA	(s)	232	
1985 Total 1990 Total	252 208	14 24	3 4	NA NA	270 237	95 54	2 8	168 147	3 4	1 23	270 237	
1995 Total	222	30	8	NA	260	49	9	166	8	28	260	
1996 Total	229 222	32 30	6 7	NA NA	266 259	51 40	10 10	170 172	6 7	30 30	266 259	
1997 Total 1998 Total	205	30	8	NA NA	242	36	9	160	8	30	239	
1999 Total	208	29	8	NA	245	37	9	161	8	30	245	
2000 Total 2001 Total	212 188	27 33	9 10	NA (a)	248 231	39 35	9 9	161 147	9 10	29 31	248 231	
2002 Total	187	36	12	(s) (s)	235	36	9	144	10	35	235	
2003 Total	188	36	16	(s)	240	38	9	141	16	37	240	
2004 Total 2005 Total	199 200	35 37	20 23	(s)	255 261	38 40	10 10	151 150	20 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 2009 Total	191 177	40 41	55 62	3 3	289 284	42 40	10 10	140 128	57 64	40 41	289 284	
2010 January	16	4	6	(s)	25	3	1	12	6	4	25	
February	14	3	5	(s)	23	3	i	11	5	3	23	
March	16	4	6	(s)	25	3	1	12	6	4	25	
April May	15 15	4 4	6 6	(s) (s)	25 25	3	1	11 11	6 6	3 3	25 25	
June	15	4	6	(s)	25	3	1	11	6	4	25	
July	16 16	4 4	6 6	(s)	26 26	3	1	12 12	6 6	4	26 26	
August September	16	3	6	(s) (s)	25 25	3	i	12	6	3	26 25	
October	16	4	6	(s)	26	3	1	12	6	3	26	
November December	15 16	4 4	6 6	(s) (s)	25 27	3	1 1	12 12	6 6	4 4	25 27	
Total	186	43	73	2	304	39	10	139	74	42	304	
2011 January	16	4 3	6	(s) (s)	26	3	1 1	12	6	3	26	
February March	15 16	3 4	6 6	(s)	24 26	3	1	11 12	6 6	3 3	24 26	
April	15	3	6	` 1	25	3	1	11	6	3	25	
May June	15 16	4 4	6 6	1	26 26	3 3	1	11 12	7 7	3 3	26 26	
July	16	4	6	i	27	3	i	12	7	4	27	
August	16	4	7	1	27	3	1	12	7	4	27	
September October	15 15	4 4	6 6	1 1	26 26	3	1 1	12 11	7 7	3 3	26 26	
November	15	4	6	1	26	3	1	12	7	3	26	
December	16	4	6	1	27	3 40	1	12	7	4	27	
Total	186	43	73	8	311		10	140	80	41	311	
2012 January	16 15	4 3	6 6	1 1	26 25	3	1 1	12 11	6 6	4 3	26 25	
March	15	4	6	1	25 26	3	1	11	7	3	25 26	
3-Month Total	46	11	17	2	76	10	2	35	19	10	76	
2011 3-Month Total 2010 3-Month Total	46 46	10 10	18 17	1 (s)	75 73	10 10	2 2	35 34	18 17	10 10	75 73	

a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.

b Wood and wood-derived fuels.

NA=Not available. (s)=Less than 0.5 million metric tons.

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.

all available data beginning in 1973. Sources: See end of section.

Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.
 Fuel ethanol minus denaturant.

e Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
Industrial sector, including industrial combined-heat-and-power (CHP) 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 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	
973	5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752	
974		4.011	5.827	5.959	5.884	5.800	5.773	5.774	
975		3.984	5.821	5.935	5.858	5.800	5.747	5.748	
976		3.964	5.808	5.980	5.856	5.800	5.743	5.745	
977		3.941	5.810	5.908	5.834	5.800	5.796	5.797	
978		3.925	5.802	5.955	5.839	5.800	5.814	5.808	
79		3.955	5.810	5.811	5.810	5.800	5.864	5.832	
80		3.914	5.812	5.748	5.796	5.800	5.841	5.820	
)81		3.930	5.818	5.659	5.775	5.800	5.837	5.821	
982	5.800	3.872	5.826	5.664	5.775	5.800	5.829	5.820	
		3.839	5.825	5.677	5.774	5.800	5.800	5.800	
)83)84			5.823		5.745		5.867	5.850	
		3.812 3.815	5.832	5.613 5.572	5.736	5.800 5.800	5.819	5.814	
985		3.797	5.903	5.624					
986					5.808	5.800	5.839	5.832	
987		3.804	5.901	5.599	5.820	5.800	5.860	5.858	
988		3.800	5.900	5.618	5.820	5.800	5.842	5.840	
989		3.826	5.906	5.641	5.833	5.800	5.869	5.857	
90		3.822	5.934	5.614	5.849	5.800	5.838	5.833	
991		3.807	5.948	5.636	5.873	5.800	5.827	5.823	
92		3.804	5.953	5.623	5.877	5.800	5.774	5.777	
93		3.801	5.954	5.620	5.883	5.800	5.777	5.779	
94	5.800	3.794	5.950	5.534	5.861	5.800	5.777	5.779	
95		3.796	5.938	5.483	5.855	5.800	5.740	5.746	
96		3.777	5.947	5.468	5.847	5.800	5.728	5.736	
97		3.762	5.954	5.469	5.862	5.800	5.726	5.734	
998		3.769	5.953	5.462	5.861	5.800	5.710	5.720	
999	5.800	3.744	5.942	5.421	5.840	5.800	5.684	5.699	
000	5.800	3.733	5.959	5.432	5.849	5.800	5.651	5.658	
01	5.800	3.735	5.976	5.443	5.862	5.800	5.751	5.752	
002	5.800	3.729	5.971	5.451	5.863	5.800	5.687	5.688	
003	5.800	3.739	5.970	5.438	5.857	5.800	5.739	5.740	
04	5.800	3.724	5.981	5.475	5.863	5.800	5.753	5.754	
05	5.800	3.724	5.977	5.474	5.845	5.800	5.741	5.743	
06	5.800	3.712	5.980	5.454	5.842	5.800	5.723	5.724	
07		3.701	5.985	5.503	5.862	5.800	5.749	5.750	
008	5.800	3.706	5.990	5.479	5.866	5.800	5.762	5.762	
09		3.692	5.988	5.525	5.882	5.800	5.737	5.738	
010		3.674	5.989	5.557	5.894	5.800	5.670	5.672	
)11 ^P		3.675	6.007	5.555	5.910	5.800	5.619	5.622	
)12 ^E		3.675	6.007	5.555	5.910	5.800	5.619	5.622	

a Includes lease condensate.
 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 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
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	5.433
2003	4.907	5.307	5.142	5.409	6.182	5.340	3.629	5.207	3.563	6.116	5.359	5.433
2004	4.953	5.328	5.144	5.421	6.192	5.350	3.618	5.215	3.563	6.089	5.359	5.433
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	5.433
2007	4.850	5.298	5.127	5.434	6.151	5.346	3.591	5.219	3.563	6.009	5.359	5.433
2008	4.732	5.175	5.149	5.426	6.123	5.339	3.600	5.218	3.563	5.983	5.359	5.433
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	5.433
2010	4.692	5.263	4.988	5.421	6.084	5.297	3.557	5.218	3.561	5.931	5.359	5.433
2011	E 4.692	E 5.261	E 4.964	E 5.425	P 6.062	P 5.291	P 3.529	P 5.218	P 3.560	5.905	5.359	5.433
2012	E 4.692	E 5.261	E 4.964	E 5.425	E 6.062	E 5.291	E 3.529	^E 5.218	E 3.560	5.880	5.359	5.433

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.

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 yields (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)

	Produ	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		1,024	1,024	1,022	1,024	1,027	1,016
975		1,021	1,020	1.026	1,021	1,026	1,014
976		1,020	1,019	1,023	1,020	1,025	1,013
977		1,021	1,019	1,029	1,021	1,026	1,013
978		1,019	1,016	1,034	1,019	1,030	1,013
979		1.021	1.018	1.035	1.021	1.037	1,013
980		1,026	1,024	1,035	1,026	1,022	1,013
981		1.027	1.025	1.035	1.027	1.014	1,011
982		1,028	1,026	1,036	1,028	1,018	1,011
983		1.031	1.031	1.030	1.031	1.024	1.010
984		1,031	1,030	1,035	1,031	1,005	1,010
985		1,032	1,031	1,038	1.032	1,002	1,011
986		1,030	1,029	1,034	1,032	997	1,008
987		1,031	1,031	1,032	1,031	999	1,011
988		1,029	1,029	1,032	1,029	1.002	1,018
989		1,031	1,031	c _{1,028}	1,031	1,002	1,019
		1,031	1,030	1,026	1,031	1,004	1,019
990 991	1,105		1,030				1,016
		1,030		1,025	1,030	1,014	
992		1,030	1,031	1,025	1,030	1,011	1,018
993		1,027	1,028	1,025	1,027	1,020	1,016
994		1,028	1,029	1,025	1,028	1,022	1,011
995		1,026	1,027	1,021	1,026	1,021	1,011
996		1,026	1,027	1,020	1,026	1,022	1,011
997		1,026	1,027	1,020	1,026	1,023	1,011
998		1,031	1,033	1,024	1,031	1,023	1,011
999		1,027	1,028	1,022	1,027	1,022	1,006
000		1,025	1,026	1,021	1,025	1,023	1,006
001		1,028	1,029	1,026	1,028	1,023	1,010
002		1,024	1,025	1,020	1,024	1,022	1,008
003		1,028	1,029	1,025	1,028	1,025	1,009
004		1,026	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		1,028	1,028	1,028	1,028	1,025	1,009
007		1,027	1,027	1,027	1,027	1,025	1,009
800		1,027	1,027	1,027	1,027	1,025	1,009
009		1,025	1,025	1,025	1,025	1,025	1,009
010		1,023	1,023	1,022	1,023	1,025	1,009
011	^E 1,097	E 1,022	E 1,023	P 1,021	E 1,022	E 1,025	E 1,009
012		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
	Productiona	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	23.072	NA	22,479	26.778	22.419	21.781	22.677	25.000	26.700	24.800
1975	22.897	NA	22.261	26.782	22.436	21.642	22.506	25.000	26.562	24.800
1976	22.855	NA	22.774	26.781	22.530	21.679	22.498	25.000	26.601	24.800
1977	22.597	NA	22.919	26.787	22.322	21.508	22.265	25.000	26.548	24.800
1978	22.248	NA	22.466	26.789	22.207	21.275	22.017	25.000	26.478	24.800
1979	22.454	NA	22.242	26.788	22.452	21.364	22.100	25.000	26.548	24.800
1980	22.415	NA NA	22.543	26.790	22.432	21.295	21.947	25.000	26.384	24.800
	22.308			26.794	22.585	21.085				24.800
1981	22.239	NA NA	22.474 22.695	26.797	22.565	21.065	21.713 21.674	25.000	26.160 26.223	24.800
1982								25.000		
1983	22.052	NA	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800
1984	22.010	NA	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800
1985	21.870	NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
1986	21.913	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	21.823	, 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	21.681	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	21.418	10.638	22.994	26.800	22.123	20.677	21.010	25.000	26.335	24.800
1994	21.394	11.097	23.112	26.800	22.068	20.589	20.929	25.000	26.329	24.800
1995	21.326	11.722	23.118	26.800	21.950	20.543	20.880	25.000	26.180	24.800
1996	21.322	12.147	23.011	26.800	22.105	20.547	20.870	25.000	26.174	24.800
1997	21.296	12.158	22.494	26.800	22.172	20.518	20.830	25.000	26.251	24.800
1998	21.418	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	21.072	12.360	25.020	27.426	22.433	20.511	20.828	25.000	26.117	24.800
2001	^a 20.772	12.169	24.909	27.426	22.622	20.337	20.671	25.000	25.998	24.800
2002	20.673	12.165	22.962	27.426	22.562	20.238	20.541	25.000	26.062	24.800
2003	20.499	12.360	22.242	27.425	22.468	20.082	20.387	25.000	25.972	24.800
2004	20.424	12.266	22.324	27.426	22.473	19.980	20.290	25.000	26.108	24.800
2005	20.348	12.093	22.342	26.279	22.178	19.988	20.246	25.000	25.494	24.800
2006	20.310	12.093	22.066	26.271	22.050	19.931	20.181	25.000	25.453	24.800
2007	20.340	12.090	22.069	26.329	22.371	19.909	20.161	25.000	25.466	24.800
2008	20.208	12.090	21.887	26.281	22.348	19.713	19.977	25.000	25.400	24.800
2009	19.963	12.076	22.059	26.334	21.893	19.521	19.742	25.000	25.633	24.800
2010 2011 ^P	20.173	11.960	21.826	26.296	21.005	19.623	19.832	25.000	25.713	24.800
	20.136	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.

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 b 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	10,442	11,161	10,442	3,412		
1975		NA NA	NA NA	10,442	11,013	10,442	3,412		
1976		NA NA	NA NA	10,400	11,013	10,400	3,412		
1977		NA NA	NA NA	10,373	10.769	10,373	3,412		
1978		NA NA	NA NA	10,435	10,769	10,433	3,412		
				- /	- , -	- /	3,412		
1979		NA	NA	10,353	10,879	10,353			
1980		NA	NA	10,388	10,908	10,388	3,412		
1981		NA	NA	10,453	11,030	10,453	3,412		
1982		NA	NA	10,454	11,073	10,454	3,412		
1983		NA	NA	10,520	10,905	10,520	3,412		
1984		NA	NA	10,440	10,843	10,440	3,412		
1985		NA	NA	10,447	10,622	10,447	3,412		
1986		NA	NA	10,446	10,579	10,446	3,412		
1987		NA	NA	10,419	10,442	10,419	3,412		
1988		NA	NA	10,324	10,602	10,324	3,412		
1989		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	10,309	10,504	10,309	3,412		
1994	NA	NA	NA	10,316	10,452	10,316	3,412		
1995		NA	NA	10,312	10,507	10,312	3,412		
1996	NA	NA	NA	10.340	10.503	10.340	3,412		
1997	NA	NA	NA	10,213	10,494	10,213	3,412		
1998	NA	NA	NA	10,197	10,491	10,197	3,412		
1999		NA	NA	10,226	10,450	10,226	3,412		
2000		NA	NA	10,201	10,429	10,201	3,412		
2001		10,742	10,051	b10,333	10,443	10,333	3,412		
2002		10,641	9,533	10,173	10,442	10,173	3,412		
2003		10,610	9.207	10,241	10,421	10,241	3,412		
2004		10,571	8.647	10.022	10,427	10.022	3.412		
2005		10,631	8.551	9.999	10,427	9.999	3,412		
2006		10,809	8.471	9,999	10,436	9,919	3,412		
2007		10,794	8.403	9,884	10,436	9,884	3,412		
2008		11,015	8.305	9,854	10,463	9,854	3,412		
			-,	- /	-,	- /	- /		
2009		10,923	8,160	9,760	10,460	9,760	3,412		
2010		10,984 F 10,084	8,185 F 0, 405	9,756 F 0,756	10,452 E 10,452	9,756 F 0,756	3,412		
2011		E 10,984	E 8,185	E 9,756		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.

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.

Sources: See "Thermal Conversion Factor Source Documentation," which follows this table.

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 x 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 U ₃ O 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)
-ength	1 mile (mi)	=	1.609 344ª	kilometers (km)
	1 yard (yd)	=	0.914 4 ^a	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)
ength .rea	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 8 ^a	joules (J)
	1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)
Temperature ^d	32 degrees Fahrenheit (°F)	=	O ^a	degrees Celsius (°C)
-	212 degrees Fahrenheit (°F)	=	100 ^a	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	E	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°	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 branchedchain 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 geothermal 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 geothermal 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.