February 2012 Monthly Energy Review





Independent Statistics & Analysis U.S. Energy Information Administration

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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.

Monthly Energy Review February 2012

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

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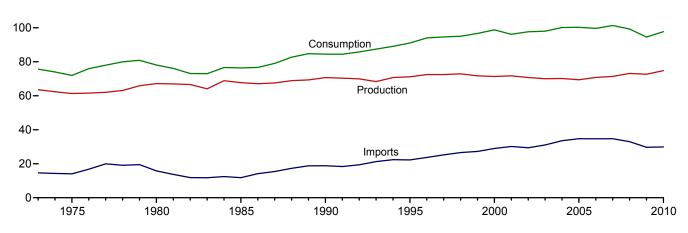
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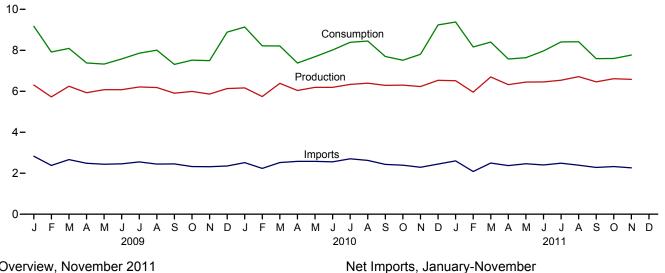
1. Energy Overview

Figure 1.1 **Primary Energy Overview** (Quadrillion Btu)

Consumption, Production, and Imports, 1973-2010 120-

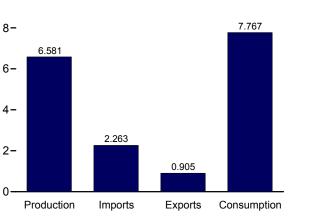


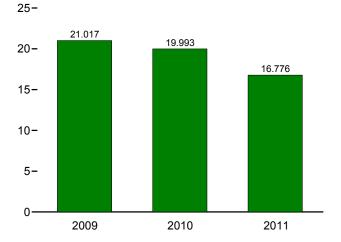
Consumption, Production, and Imports, Monthly





10-





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

Table 1.1 Primary Energy Overview

(Quadrillion Btu)

		Produ	uction			Trade		0				
	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 2002 Total	58.541 56.837	8.029 8.145	5.164 5.734	71.735 70.716	30.157 29.408	3.771 3.669	26.386 25.739	-1.953 1.190	82.902 83.699	8.029 8.145	5.163 5.729	96.168 97.645
2002 Total	56.099	7.959	5.982	70.710	31.061	4.054	25.739	.931	84.014	7.959	5.983	97.978
2003 Total	55.895	8.222	5.96Z 6.070	70.040	33.544	4.054	27.007	.864	85.819	8.222	6.082	100.162
2005 Total	55.038	8.161	6.229	69.427	34.709	4.560	30.149	.705	85.794	8.161	6.242	100.281
2006 Total	55.968	8.215	6.608	70.792	34.679	4.872	29.806	959	84.702	8.215	6.659	99.639
2007 Total	56.409	8.455	6.537	71.401	34.703	5.482	29.221	.702	86.211	8.455	6.551	101.324
2008 Total	57.482	8.427	7.205	73.114	32.992	7.060	25.932	.231	83.549	8.427	7.190	99.278
2009 January	4.902	.775	.627	6.304	2.829	.598	2.231	.639	7.770	.775	.622	9.174
February	4.510	.672	.545	5.726	2.379	.505	1.874	.315	6.699	.672	.537	7.915
March	4.919	.703	.624	6.246	2.666	.558	2.107	260	6.764	.703	.621	8.093
April	4.659	.621	.649	5.929	2.487	.507	1.980	527	6.102	.621	.653	7.383
May	4.706	.684	.690	6.080	2.437	.537	1.900	651	5.941	.684	.694	7.329
June	4.667	.729	.683	6.079	2.458	.566	1.892	393	6.153	.729	.685	7.578
July	4.803	.763	.643	6.209	2.552	.620	1.932	283	6.438	.763	.643	7.858
August	4.810	.756	.615	6.181	2.447	.596	1.851	026	6.620	.756	.615	8.006
September	4.650	.688	.568	5.906	2.455	.600	1.855	448	6.048	.688	.567	7.313
October	4.758	.607	.627	5.992	2.327	.648	1.679	153	6.273	.607	.627	7.518
November	4.604	.618 .740	.642 .692	5.864	2.317	.601 .629	1.716	086 1.030	6.230 7.450	.618 .740	.637	7.493
December Total	4.701 56.689	.740 8.356	.692 7.603	6.133 72.648	2.353 29.706	.629 6.965	1.724 22.741	842	7.450 78.488	.740 8.356	.686 7.587	8.887 94.547
2010 January	4.737	.758	.670	6.166	2.516	.590	1.926	1.044	7.702	.758	.661	9.136
February	4.452	.682	.609	5.743	2.237	.556	1.681	.791	6.919	.682	.603	8.216
March	5.032 4.777	.676 .602	.680 .659	6.388 6.039	2.519 2.580	.654 .686	1.865 1.894	045 553	6.851 6.112	.676 .602	.671 .656	8.208 7.380
April	4.777	.697	.039	6.189	2.580	.000	1.874	379	6.270	.697	.030	7.685
May June	4.724	.714	.715	6.190	2.576	.704	1.872	047	6.539	.714	.754	8.015
July	4.885	.752	.700	6.336	2.705	.716	1.989	.063	6.928	.752	.700	8.389
August	4.988	.748	.660	6.395	2.627	.698	1.929	.126	7.038	.748	.658	8.450
September	4.939	.725	.623	6.287	2.431	.675	1.757	345	6.352	.725	.620	7.699
October	5.001	.656	.644	6.301	2.390	.714	1.676	463	6.215	.656	.641	7.514
November	4.897	.655	.680	6.232	2.289	.760	1.529	.041	6.471	.655	.674	7.802
December	5.040	.770	.723	6.534	2.447	.797	1.650	1.053	7.739	.770	.718	9.236
Total	58.250	8.434	8.116	74.800	29.877	8.234	21.643	1.286	81.136	8.434	8.069	97.729
2011 January	5.006	.760	.748	6.515	2.603	.837	1.766	^R 1.102	^R 7.880	.760	.733	^R 9.382
February	4.568	.677	.711	5.956	2.083	.755	1.328	^R .880	^R 6.775	.677	.704	^R 8.164
March	5.196	.686	.815	6.697	2.496	.874	1.622	^R .082	6.901	.686	.805	^R 8.401
April	4.940	.570	.814	6.324	2.373	.857	1.517	^R 266	^R 6.192	.570	.805	^R 7.575
May	5.019	.596	.833	6.448	2.461	.837	1.624	^R 432	^R 6.205	.596	.827	^R 7.640
June	4.953	.682	.821	6.456	2.402	.806	1.596	^R 086	^R 6.453	.682	.820	^R 7.966
July	4.993	.756	.790	6.538	2.488	.838	1.650	R.220	^R 6.857	.756	.780	^R 8.409
August	5.228	.746	.739	6.713	2.390	.898	1.492	^R .214	^R 6.920	.746	.737	R 8.418
September	5.088	.699	.673 8 704	6.459 B 6 61 4	2.283	.897	1.386	^R 254	^R 6.216	.699	.666 8 606	R 7.591
October	^R 5.247 5.171	.662	^R .704 .736	R 6.614	2.324	.885 .905	1.439	^R 450 171	^R 6.235 6.362	.662	^R .696	7.602
November 11-Month Total	5.171 55.408	.674 7.509	8.384	6.581 71.301	2.263 26.166	.905 9.390	1.357 16.776	171 .840	6.362 72.995	.674 7.509	.724 8.297	7.767 88.917
2010 11-Month Total 2009 11-Month Total	53.209 51.987	7.664 7.616	7.393 6.911	68.266 66.515	27.430 27.353	7.436 6.336	19.993 21.017	.233 -1.873	73.397 71.037	7.664 7.616	7.352 6.901	88.493 85.660

^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 petroleum.
 ^e Coal, coal coke net imports, natural gas, and petroleum.
 ^f Also includes electricity net imports.

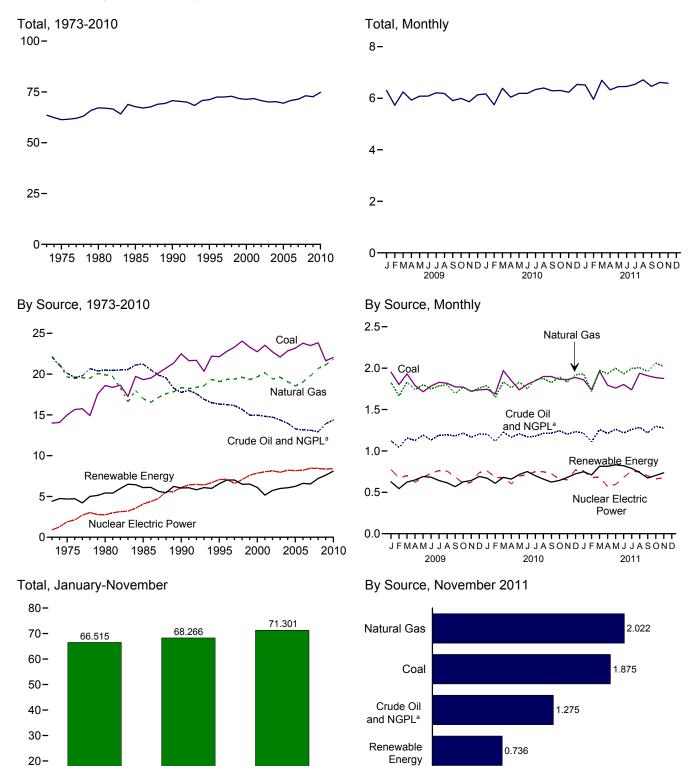
R=Revised.

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.

Figure 1.2 Primary Energy Production (Quadrillion Btu)



0 2009 2010 2011 ^a Natural gas plant liquids.

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

Nuclear

0.0

Electric Power

0.674

1.0

1.5

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10-

Table 1.2 Primary Energy Production by Source

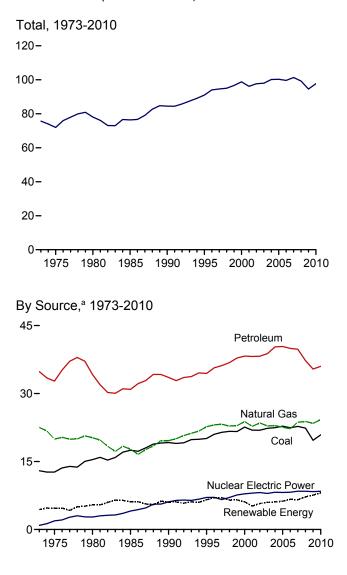
(Quadrillion Btu)

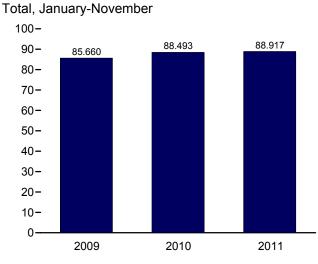
	Fossil Fuels						Renewable Energy ^a						
	Coal ^b	Natural Gas (Dry)	Crude Oil ^c	NGPLd	Total	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total
1973 Total 1975 Total 1980 Total 1980 Total 1990 Total 1995 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2006 Total 2007 Total 2008 Total	13.992 14.989 18.598 19.325 22.488 22.130 23.310 24.045 23.295 23.547 22.732 22.094 22.852 23.185 23.185 23.493 23.851	22.187 19.640 19.908 16.980 18.326 19.344 19.394 19.613 19.341 19.62 20.166 19.382 19.633 19.074 18.556 19.022 19.786 20.703	19.493 17.729 18.249 15.571 13.873 13.658 13.235 12.451 12.358 12.451 12.358 12.451 12.282 12.163 10.963 10.963 10.963 10.721 10.509	2.569 2.374 2.254 2.417 2.475 2.442 2.530 2.495 2.495 2.495 2.528 2.547 2.559 2.346 2.354 2.466 2.334 2.409 2.419	58.241 54.733 59.008 57.539 58.560 57.540 58.387 58.367 59.314 57.366 58.541 56.837 56.837 56.837 55.855 55.368 55.968 55.968 55.968 55.968 55.968	0.910 1.900 2.739 4.076 6.104 7.075 7.087 7.068 7.610 7.862 8.145 7.959 8.222 8.161 8.215 8.455 8.427	2.861 3.155 2.900 2.970 3.046 3.205 3.590 3.640 3.297 3.268 2.811 2.825 2.689 2.825 2.690 2.703 2.869 2.446 2.511	0.020 .034 .053 .097 .171 .152 .163 .167 .168 .171 .164 .174 .175 .178 .181 .181 .186 .192	NA NA (s) .059 .069 .070 .068 .066 .066 .063 .063 .063 .063 .063 .063	NA NA (s) .029 .033 .034 .031 .046 .057 .105 .142 .178 .264	1.529 1.499 2.475 3.016 2.735 3.108 2.929 2.965 3.006 2.624 2.705 2.805 2.805 2.998 3.104 3.226 3.489 3.867	4.411 5.428 6.084 6.041 6.558 7.012 7.018 6.494 6.517 6.104 5.164 5.174 5.164 5.1734 5.164 5.1734 6.070 6.229 6.070 6.229 6.537 7.205	63.563 61.320 67.175 67.698 70.705 71.174 72.472 72.876 71.742 71.735 70.716 70.746 70.746 70.748 69.427 70.738 70.746 70.749 71.401 73.114
2009 January February March April June July August September October December December Total	1.953 1.802 1.932 1.791 1.715 1.785 1.829 1.818 1.774 1.771 1.722 1.737 21.627	1.827 1.665 1.831 1.741 1.800 1.750 1.785 1.799 1.693 1.772 1.716 1.776 1.760 21.139	.927 .854 .940 .918 .967 .919 .971 .974 .965 .989 .944 .980 11.348	.196 .189 .216 .209 .224 .213 .218 .220 .217 .226 .221 .224 2.574	4.902 4.510 4.919 4.659 4.706 4.667 4.803 4.810 4.650 4.758 4.604 4.701 56.689	.775 .672 .703 .621 .684 .729 .763 .756 .688 .607 .618 .740 8.356	.229 .174 .213 .252 .289 .285 .288 .191 .169 .192 .205 .241 2.669	.017 .016 .017 .016 .017 .016 .017 .017 .016 .016 .017 .018 .200	.008 .007 .008 .009 .009 .009 .009 .008 .008 .008	.058 .057 .069 .073 .061 .055 .048 .053 .045 .067 .067 .067 .721	.315 .291 .316 .300 .315 .318 .340 .345 .329 .343 .345 .357 3.915	.627 .545 .624 .649 .690 .683 .643 .615 .568 .627 .627 .642 .692 7.603	6.304 5.726 6.246 5.929 6.080 6.079 6.209 6.181 5.906 5.992 5.864 6.133 72.648
2010 January February March April June July September October December December Total	1.745 1.688 1.971 1.849 1.738 1.804 1.848 1.900 1.898 1.866 1.862 1.888 22.056	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	.972 .906 .938 .969 .944 .951 .978 .983 1.002 .966 .990 11.589	.230 .210 .236 .227 .238 .226 .227 .236 .232 .232 .232 .242 .235 .242 2.781	4.737 4.452 5.032 4.777 4.724 4.885 4.988 4.939 5.001 4.897 5.040 58.250	.758 .682 .676 .602 .697 .714 .752 .748 .725 .656 .655 .770 8.434	.218 .201 .204 .186 .245 .291 .239 .196 .168 .173 .191 .226 2.539	.018 .016 .018 .017 .018 .017 .018 .017 .017 .017 .018 .208	.008 .009 .009 .010 .010 .010 .010 .009 .009	.067 .053 .084 .095 .085 .079 .066 .069 .069 .077 .095 .088 .923	.359 .332 .366 .352 .358 .355 .368 .371 .359 .368 .369 .382 4.337	.670 .609 .659 .715 .751 .700 .623 .623 .644 .680 .723 8.116	6.166 5.743 6.388 6.039 6.189 6.190 6.336 6.395 6.287 6.301 6.232 6.534 74.800
2011 January February April May June July August October November 11-Month Total	1.859 1.741 1.963 1.794 1.760 1.803 1.738 1.939 1.909 1.886 1.875 20.267	E 1.930 E 1.718 E 1.973 E 1.934 E 1.932 E 1.996 E 2.004 E 1.961 RE 2.062 E 2.022 E 21.529	E .986 E .911 E 1.013 E .973 E 1.009 E .979 E 1.034 E .982 E 1.040 E 1.017 E 10.952	.230 .197 .247 .238 .253 .240 .250 .251 .236 .259 .258 2.659	5.006 4.568 5.196 4.940 5.019 4.953 4.993 5.228 5.088 ^R 5.247 5.171 55.408	.760 .677 .686 .570 .596 .682 .756 .746 .699 .662 .674 7.509	.255 .241 .310 .309 .323 .315 .308 .257 .210 .195 .209 2.930	.019 .018 .019 .018 .019 .018 .019 .018 .019 .018 .019 .018 .203	.009 .008 .009 .010 .010 .010 .010 .010 .010 .009 .105	.084 .103 .121 .114 .106 .072 .067 .104 .121 1.066	.381 .341 .374 .357 .367 .371 .381 .382 .368 ^R .377 .380 4.079	.748 .711 .815 .814 .833 .821 .790 .739 .673 R.704 .736 8.384	6.515 5.956 6.697 6.324 6.448 6.456 6.538 6.713 6.459 ^R 6.614 6.581 71.301
2010 11-Month Total 2009 11-Month Total	20.168 19.890	19.903 19.379	10.599 10.368	2.539 2.350	53.209 51.987	7.664 7.616	2.313 2.427	.190 .182	.100 .090	.835 .654	3.955 3.558	7.393 6.911	68.266 66.515

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

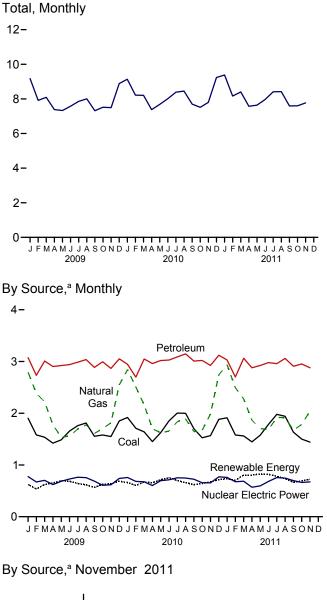
Notes: • See "Primary Energy Production" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1973. Sources: • Coal: Tables 6.1 and A5. • Natural Gas (Dry): Tables 4.1 and A4. • Crude Oil and Natural Gas Plant Liquids: Tables 3.1 and A2. • Nuclear Electric Power: Tables 7.2a and A6 ("Nuclear Plants" heat rate). • Renewable Energy: Table 10.1.

Figure 1.3 Primary Energy Consumption (Quadrillion Btu)





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



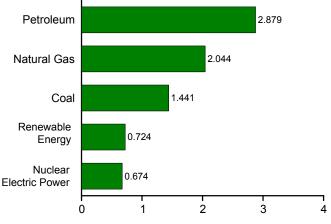


Table 1.3 Primary Energy Consumption by Source

(Quadrillion Btu)

		Fossil	Fuels					Renewable	e Energy ^a				
	Coal	Natural Gas ^b	Petro- leum ^c	Total ^d	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	2.475	5.428	78.067	
1985 Total	17.478	17.703	30.925	66.093	4.076	2.970	.097	(s)	(s)	3.016	6.084	76.392	
1990 Total	19.173	19.603	33.552	72.332	6.104	3.046	.171	.059	.029	2.735	6.041	84.485	
1995 Total	20.089	22.671	34.438	77.259	7.075	3.205	.152	.069	.033	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	7.016	94.602	
1998 Total	21.656	22.830	36.816	81.369	7.068	3.297	.168	.069	.031	2.927	6.493	95.018	
1999 Total	21.623	22.909	37.838	82.427	7.610	3.268	.171	.068	.046	2.963	6.516	96.652	
2000 Total	22.580	23.824	38.262	84.731	7.862	2.811	.164	.065	.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	3.116	6.242	100.281	
2006 Total	22.447	22.239	39.955	84.702	8.215	2.869	.181	.068	.264	3.276	6.659	99.639	
2007 Total	22.749	23.663	39.774	86.211	8.455	2.446	.186	.076	.341	3.502	6.551	101.324	
2008 Total	22.385	23.843	37.280	83.549	8.427	2.511	.192	.089	.546	3.852	7.190	99.278	
2009 January	1.904	2.792	3.075	7.770	.775	.229	.017	.008	.058	.310	.622	9.174	
February	1.582	2.386	2.732	6.699	.672	.174	.016	.007	.057	.283	.537	7.915	
March	1.536	2.219	3.010	6.764	.703	.213	.017	.008	.069	.314	.621	8.093	
April	1.422	1.779	2.904	6.102	.621	.252	.016	.008	.073	.304	.653	7.383	
May	1.486	1.536	2.921	5.941	.684	.289	.017	.009	.061	.319	.694	7.329	
June	1.655	1.560	2.939	6.153	.729	.285	.016	.008	.055	.320	.685	7.578	
July	1.760	1.694	2.987	6.438	.763	.228	.017	.009	.048	.340	.643	7.858	
August	1.811	1.774	3.038	6.620	.756	.191	.017	.009	.053	.346	.615	8.006	
September	1.555	1.609	2.886	6.048	.688	.169	.016	.008	.045	.327	.567	7.313	
October	1.580	1.703	2.994 2.866	6.273	.607	.192 .205	.016	.008 .008	.067	.344 .340	.627	7.518 7.493	
November	1.550 1.852	1.815	2.000	6.230 7.450	.618 .740	.205	.017 .018	.008	.067 .067	.340 .352	.637 .686	8.887	
December Total	19.692	2.549 23.416	35.403	78.488	8.356	2.669	.018	.008 .098	.007	3.899	7.587	94.547	
0040	4.040		0.047	7 700	750	010	040		0.07	0.40	004	0.400	
2010 January	1.918	2.841	2.947	7.702	.758	.218	.018	.008	.067	.349	.661	9.136	
February	1.710	2.507 2.160	2.698	6.919	.682 .676	.201 .204	.016	.008 .009	.053	.326	.603	8.216	
March	1.639		3.048 2.960	6.851		.204	.018	.009	.084 .095	.357 .348	.671	8.208 7.380	
April	1.452	1.700 1.622	2.960	6.112	.602 .697	.100	.017	.009	.095	.346 .356	.656	7.685	
May	1.626 1.853	1.656	3.020	6.270 6.539	.097	.245	.018 .017	.010	.065	.356	.714 .754	8.015	
June	2.002	1.836	3.029	6.928	.714	.231	.017	.010	.079	.368	.700	8.389	
July	1.999	1.890	3.148	7.038	.732	.239	.017	.010	.065	.369	.658	8.450	
August September	1.701	1.644	3.008	6.352	.725	.168	.018	.010	.065	.356	.620	7.699	
October	1.526	1.671	3.008	6.215	.656	.173	.017	.009	.009	.365	.620	7.514	
November	1.568	1.986	2.923	6.471	.655	.191	.017	.009	.095	.362	.674	7.802	
December	1.883	2.741	3.120	7.739	.000	.226	.018	.003	.088	.377	.718	9.236	
Total	20.877	24.256	36.010	81.136	8.434	2.539	.208	.109	.923	4.291	8.069	97.729	
2011 January	1.911	2.938	3.030	^R 7.880	.760	.255	.019	.009	.084	.365	.733	^R 9.382	
February	1.580	^R 2.494	2.701	^R 6.775	.677	.241	.018	.003	.103	.335	.704	^R 8.164	
March	1.561	^R 2.276	3.062	6.901	.686	.310	.019	.000	.103	.364	.805	^R 8.401	
April	1.447	^R 1.867	2.878	^R 6.192	.570	.309	.018	.000	.121	.348	.805	^R 7.575	
May	1.577	^R 1.703	2.923	R 6.205	.596	.323	.019	.010	.114	.361	.827	^R 7.640	
June	1.787	1.686	2.979	^R 6.453	.682	.315	.018	.010	.106	.370	.820	^R 7.966	
July	1.979	^R 1.919	2.959	^R 6.857	.756	.308	.018	.010	.072	.371	.780	^R 8.409	
August	1.941	^R 1.915	3.059	^R 6.920	.746	.257	.019	.011	.072	.380	.737	^R 8.418	
September	1.633	^R 1.674	2.908	^R 6.216	.699	.210	.018	.010	.067	.362	666	^R 7.591	
October	1.501	^R 1.782	2.953	^R 6.235	.662	.195	.019	.010	.104	R.368	R.696	7.602	
November	1.441	2.044	2.879	6.362	.674	.209	.018	.009	.121	.368	.724	7.767	
11-Month Total	18.357	22.298	32.331	72.995	7.509	2.930	.203	.105	1.066	3.992	8.297	88.917	
2010 11-Month Total	18.994	21.515	32.889	73.397	7.664	2.313	.190	.100	.835	3.914	7.352	88.493	
2009 11-Month Total	17.840	20.867	32.351	71.037	7.616	2.427	.182	.090	.654	3.548	6.901	85.660	

^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 Conventional hydroelectric power. ^f Includes coal coke net imports and electricity net imports, which are not

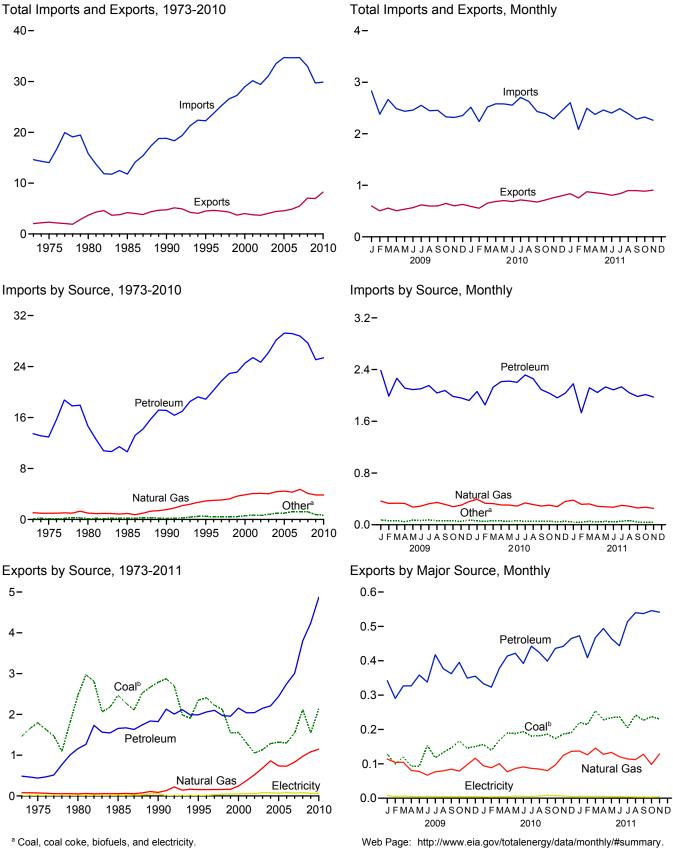
separately displayed. See Tables 1.4a and 1.4b. R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • See "Primary Energy Consumption" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

 Web Page: See http://www.sea.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)

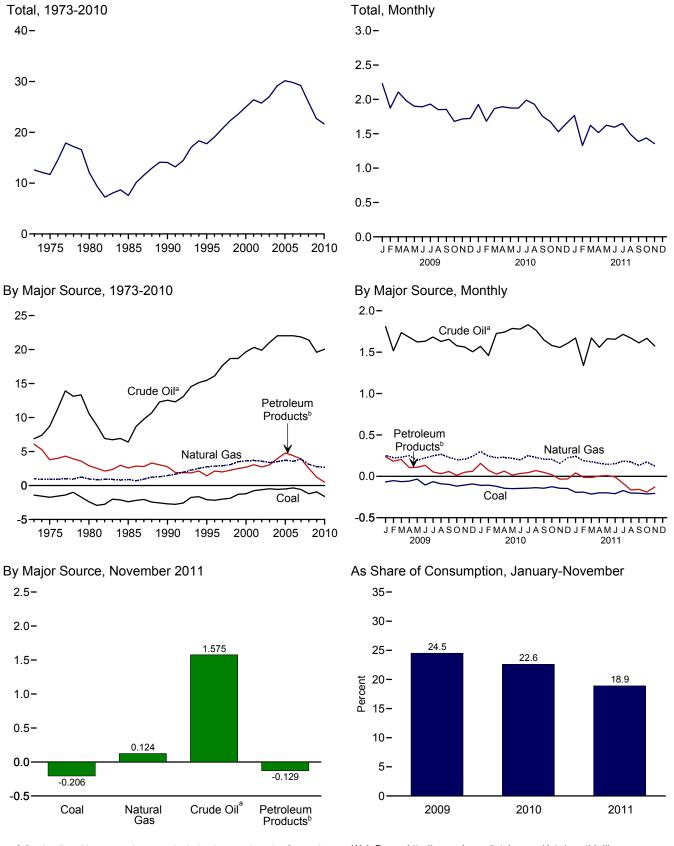


^b Includes coal coke.

Sources: Tables 1.4a and 1.4b.

Figure 1.4b Primary Energy Net Imports

(Quadrillion Btu, Except as noted)



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

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

Table 1.4a Primary Energy Imports by Source

(Quadrillion Btu)

					Imports		1		
					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Total	Biofuelsc	Electricity	Total
973 Total	0.003	0.027	1.060	6.887	6.578	13.466	NA	0.057	14.613
975 Total	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032
980 Total	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796
985 Total	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781
990 Total	.067	.019	1.551	12.766	4.351	17.117	NA	.063	18.817
995 Total	.237	.095	2.901	15.669	3.211	18.881	.001	.146	22.260
996 Total	.203	.063	3.002	16.341	3.943	20.284	.001	.148	23.702
997 Total	.187	.078	3.063	17.876	3.864	21.740	(s)	.147	25.215
998 Total	.218	.095	3.225	18.916	3.992	22.908	(s)	.135	26.581
999 Total	.227	.080	3.664	18.935	4.198	23.133	(s)	.147	27.252
000 Total	.313	.094	3.869	19.783	4.749	24.531	(s)	.166	28.973
001 Total	.495	.063	4.068	20.348	5.051	25.398	.002	.131	30.157
002 Total	.422	.080	4.104	19.920	4.754	24.674	.002	.125	29.408
003 Total	.626 .682	.068 .170	4.042 4.365	21.060 22.082	5.159 6.114	26.219 28.197	.002 .013	.104 .117	31.061 33.544
004 Total 005 Total	.682	.170	4.365	22.082	7.157	28.197	.013	.117	33.544
005 Total	.762	.100	4.450	22.091	7.084	29.240	.066	.150	34.709
006 Total	.908	.061	4.723	21.914	6.868	29.169	.054	.146	34.679
008 Total	.855	.089	4.084	21.448	6.237	27.685	.084	.195	32.992
009 January	.058	.001	.366	1.815	.572	2.387	.003	.015	2.829
February	.046	(s)	.330	1.521	.467	1.989	.001	.013	2.379
March	.054	(s)	.333	1.741	.525	2.266	.002	.010	2.666
April	.033	(s)	.330	1.684	.428	2.112	.001	.011	2.487
May	.057	.001	.272	1.633	.457	2.090	.002	.014	2.437
June	.046	.001	.289	1.641	.462	2.103	.003	.016	2.458
July	.050	.001	.325	1.688	.465	2.153	.004	.019	2.552
August	.039	(s)	.345	1.636	.402	2.038	.004	.020	2.447
September	.046	.001	.315	1.662	.413	2.076	.002	.015	2.455
October	.044	(s)	.280	1.590	.395	1.985	.002	.016	2.327
November	.038	.001	.302	1.570	.391	1.961	.002	.013	2.317
December	.054	.002	.358	1.517	.405	1.921	.001	.016	2.353
Total	.566	.009	3.845	19.699	5.383	25.082	.026	.178	29.706
10 January	.042	.001 .005	.394	1.577	.483	2.060 1.853	.001	.018 .015	2.516 2.237
February	.031 .047	.005	.332 .327	1.469 1.734	.384 .393	2.127	(s) .001	.015	2.237
March April	.047	.003	.306	1.747	.466	2.214	(s)	.013	2.513
May	.045	.001	.305	1.793	.400	2.221	.001	.010	2.578
June	.044	.005	.289	1.784	.419	2.203	(s)	.014	2.556
July	.035	.003	.337	1.844	.472	2.316	(S)	.015	2.705
August	.043	.003	.313	1.772	.484	2.256	(S)	.012	2.627
September	.040	.002	.289	1.658	.432	2.090	(s)	.010	2.431
October	.044	.001	.302	1.585	.448	2.034	(s)	.009	2.390
November	.037	(s)	.280	1.563	.400	1.963	(s)	.009	2.289
December	.039	(s)	.361	1.614	.420	2.034	(s)	.013	2.447
Total	.484	.030	3.834	20.140	5.231	25.371	.004	.154	29.877
11 January	.025	.001	.380	1.684	.497	2.181	(s)	.015	2.603
February	.021	.002	.316	1.344	.387	1.731	(s)	.013	2.083
March	.038	.004	.322	1.677	.441	2.118	(s)	.014	2.496
April	.028	.001	.285	1.566	.480	2.045	(s)	.013	2.373
May	.033 .024	.004 .004	.278 .272	1.669 1.661	.462 .424	2.131 2.086	(s) .001	.017 .015	2.461 2.402
June	.024 .030	.004 .003	.272	1.661	.424 .405	2.086	.001	.015	2.402
July	.030	.003	.300	1.728	.405 .364	2.133	.001	.021	2.488
August September	.039	.005	.260	1.618	.365	2.039	.002	.019	2.390
October	.023	.003	.200	1.676	.337	2.013	.003	.014	2.203
November	.023	.002	.272	1.586	.388	1.974	.002	.013	2.263
11-Month Total	.303	.032	3.223	17.884	4.549	22.433	.012	.164	26.166
010 11-Month Total	.445	.030	3.474	18.526	4.811	23.337	.004	.140	27.430
09 11-Month Total	.511	.007	3.487	18.182	4.978	23.160	.025	.162	27.353

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

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.

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. • 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 and 10.4. • Electricity: Tables 7.1 and A6.

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

(Quadrillion Btu)

					Exports					Net Imports
					Petroleum					
	Coal	Coal Coke	Natural Gas	Crude Oil ^b	Petroleum Products ^c	Total	Biofuelsd	Electricity	Total	Total
973 Total	1.425	0.035	0.079	0.004	0.482	0.486	NA	0.009	2.033	12.580
975 Total	1.761	.032	.074	.012	.427	.439	NA	.017	2.323	11.709
980 Total	2.421	.051	.049	.609	.551	1.160	NA	.014	3.695	12.101
985 Total	2.438 2.772	.028 .014	.056 .087	.432 .230	1.225 1.594	1.657 1.824	NA NA	.017 .055	4.196 4.752	7.584
990 Total 995 Total	2.318	.014	.156	.230	1.791	1.991	NA	.012	4.752	17.750
996 Total	2.368	.034	.155	.233	1.825	2.059	NA	.012	4.633	19.069
997 Total	2.193	.031	.159	.228	1.872	2.100	NA	.031	4.514	20.701
998 Total	2.092	.028	.161	.233	1.740	1.972	NA	.047	4.299	22.281
999 Total	1.525	.022	.164	.250	1.705	1.955	NA	.049	3.715	23.537
000 Total	1.528	.028	.245	.106	2.048	2.154	NA	.051	4.006	24.967
001 Total	1.265	.033	.377	.043	1.996	2.039	(s)	.056	3.771	26.386
002 Total	1.032	.020	.520	.019	2.023	2.042	(s)	.054	3.669	25.739
003 Total	1.117	.018	.686	.026	2.124	2.151	.001	.082	4.054	27.007
004 Total	1.253 1.273	.033 .043	.862 .735	.057 .067	2.151 2.374	2.208 2.442	.001 .001	.078	4.434 4.560	29.110 30.149
005 Total 006 Total	1.273	.043	.735 .730	.067	2.374 2.699	2.442	.001	.065 .083	4.560 4.872	30.149 29.806
007 Total	1.507	.040	.830	.052	2.949	3.007	.035	.069	5.482	29.800
008 Total	2.071	.049	.972	.061	3.739	3.800	.086	.083	7.060	25.932
009 January	.126	.003	.114	.007	.335	.342	.006	.008	.598	2.231
February	.098	.001	.104	.005	.286	.290	.006	.005	.505	1.874
March	.118	.002	.105	.005	.321	.327	.001	.006	.558	2.107
April	.090	.003	.081	.005	.322	.327	.001	.005	.507	1.980
May	.091	.002	.078	.009	.349 .328	.358 .338	.002 .002	.005 .006	.537 .566	1.900
June	.151 .115	.002 .003	.067 .077	.010 .006	.328 .412	.338 .418	.002	.006	.566	1.892 1.932
July August	.113	.003	.079	.006	.371	.377	.003	.005	.596	1.851
September	.144	.003	.085	.007	.355	.362	.002	.005	.600	1.855
October	.163	.000	.079	.013	.382	.395	.002	.005	.648	1.679
November	.143	.002	.098	.008	.341	.349	.004	.004	.601	1.716
December	.146	.004	.116	.012	.343	.355	.002	.005	.629	1.724
Total	1.515	.032	1.082	.093	4.147	4.240	.034	.062	6.965	22.741
010 January	.151	.006	.094	.006	.327	.332	.003	.004	.590	1.926
February	.138	.001	.089	.009	.312	.321	.003	.003	.556	1.681
March	.169 .189	(s) .001	.100 .077	.008 .006	.366 .404	.374 .411	.006 .005	.004 .004	.654 .686	1.865 1.894
April May	.189	.001	.086	.000	.404	.411	.003	.004	.000	1.874
June	.190	.003	.000	.007	.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	.003	.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	.006	.433	.439	.004	.006	.760	1.529
December	.186	.005	.136	.007	.452	.459	.007 .046	.005 .065	.797 8.234	1.650 21.643
Total	2.101	.036	1.147	.088	4.750	4.838				
011 January	.219	.001	.137	.013	.455	.468	.006	.005	.837	1.766
February	.213	.002	.126	.005	.399	.404	.005	.005	.755	1.328
March	.253 .227	.001	.146	.007	.454 .477	.461	.008 .011	.005 .005	.874 .857	1.622
April	.227	.001 .002	.128 .133	.007 .007	.477 .452	.484 .458	.011	.005	.857 .837	1.517
May June	.232	.002	.133	.007	.432	.438	.007	.004	.806	1.624
July	.202	.003	.114	.000	.432	.430	.000	.004	.838	1.650
August	.241	.003	.112	.006	.529	.536	.005	.004	.898	1.492
September	.224	.003	.128	.006	.522	.529	.010	.003	.897	1.386
October	.235	.002	.098	.009	.527	.536	.011	.003	.885	1.439
November	.226	.004	.129	.011	.518	.529	.013	.004	.905	1.357
11-Month Total	2.508	.023	1.373	.090	5.255	5.345	.094	.048	9.390	16.776
010 11-Month Total 009 11-Month Total	1.915 1.369	.031 .028	1.011 .966	.081 .081	4.298 3.803	4.379 3.884	.040 .032	.061 .057	7.436 6.336	19.993 21.017

a Net imports equal imports minus exports.

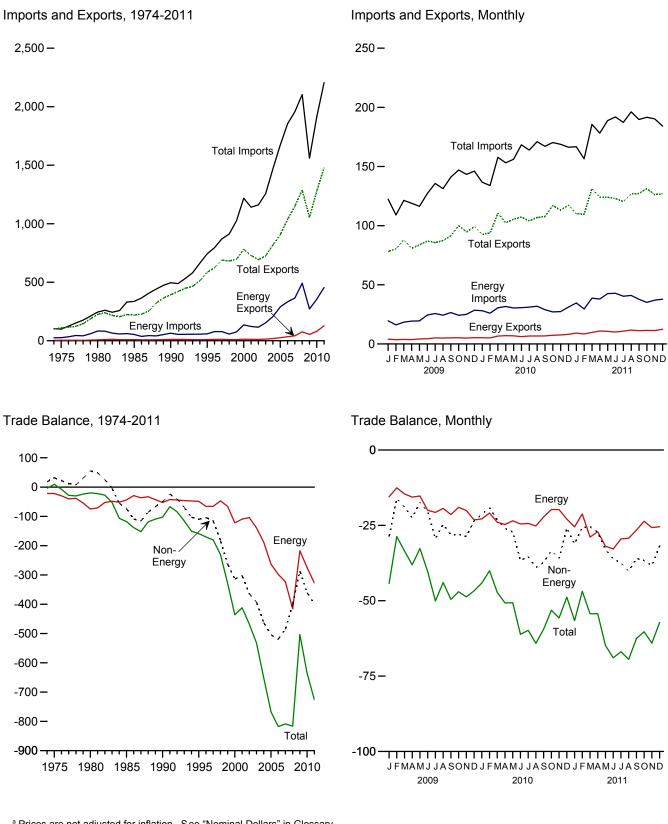
b Crude oil and lease condensate.
 c Petroleum products, unfinished oils, pentanes plus, and gasoline blending

components. Does not include biofuels. ^d Through 2010, data are for biodiesel only. Beginning in 2011, data are for

 Inflogin 2010, data are to biodiese only. Beginning in 2011, data are to fuel ethanol (minus denaturant) and biodiesel.
 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.

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. • Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.3b, 10.4, and A2. • Biofuels: Tables 10.3 and 10.4. • Electricity: Tables 7.1 and A6. A6.

Figure 1.5 Merchandise Trade Value (Billion Dollars^a)



^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 ^t			Energy ^c	I	Non- Energy	Т	otal Merchandis	e
	Exports	Imports	Balance	Exports	Imports	Balance	Balance	Exports	Imports	Balance
974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3.884
975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551
980 Total	2.833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696
985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
	6,901	61,583	-54,682	,	64,661		-50,068	393,592		-102,496
990 Total		54,368	-54,662 -48,047	12,233 10,358		-52,428 -48,751	-110,050	584,742	496,088	-102,496
995 Total	6,321				59,109				743,543	
996 Total	7,984	72,022	-64,038	12,181	78,086	-65,905	-104,309	625,075	795,289	-170,214
997 Total	8,592	71,152	-62,560	12,682	78,277	-65,595	-114,927	689,182	869,704	-180,522
998 Total	6,574	50,264	-43,690	10,251	57,323	-47,072	-182,686	682,138	911,896	-229,758
999 Total	7,118	67,173	-60,055	9,880	75,803	-65,923	-262,898	695,797	1,024,618	-328,821
000 Total	10,192	119,251	-109,059	13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104
001 Total	8,868	102,747	-93,879	12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899
002 Total	8,569	102,663	-94,094	11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263
003 Total	10,209	132,433	-122,224	13,768	153,298	-139.530	-392,820	724,771	1,257,121	-532,350
004 Total	13,130	179,266	-166,136	18,642	206,660	-188,018	-462,912	818,775	1,469,704	-650,930
005 Total	19,155	250,068	-230,913	26.488	289.723	-263.235	-504,242	905.978	1,673,455	-767.477
006 Total	28,171	299,714	-271,543	34,711	332,500	-297,789	-519,515	1,036,635	1,853,938	-817,304
	33.293						-485.501			
007 Total 008 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	-400.389	1,148,199 1,287,442	1,956,962 2,103,641	-808,763 -816,199
009 January	3,029	16,924	-13,895	4,037	19,559	-15,522	-28,742	78,151	122,415	-44,264
February	2,549	14,006	-11,457	3,589	16,120	-12,531	-16,132	80,349	109,012	-28,663
March	2,878	16,658	-13,780	3,835	18,398	-14,563	-18,948	87,848	121,359	-33,511
April	2,988	17,884	-14,896	3,664	19,275	-15,611	-22,462	80,822	118,896	-38,073
May	3,596	18,179	-14,583	4,227	19,484	-15,257	-17,433	83,651	116,341	-32,690
June	3,625	23,119	-19,494	4,459	24,467	-20,008	-20,336	86,830	127,173	-40,344
July	4,390	24,295	-19,905	5,077	25,754	-20,677	-29,384	85,635	135,696	-50,061
August	4,234	23,026	-18,792	4,947	24,312	-19,365	-24,591	87,315	131,272	-43,956
September	4,329	25,259	-20,930	5,152	26,546	-21,394	-28,152	91,458	141,004	-49,546
	4,359	22,826	-18,467		24,255	-19,025		100,005	147,027	-43,340
October				5,230			-27,996			
November	4,140	23,393	-19,253	4,994	25,047	-20,053	-28,665	94,607	143,324	-48,718
December	4,391	26,264	-21,873	5,326	28,521	-23,195	-23,539	99,372	146,106	-46,734
Total	44,509	251,833	-207,324	54,536	271,739	-217,203	-286,379	1,056,043	1,559,625	-503,582
010 January	4,083	25,234	-21,151	5,236	28,075	-22,839	-21,285	92,601	136,725	-44,124
February	4,003	23,666	-19,663	5,115	26,018	-20,903	-19,141	93,854	133,898	-40,044
March	5,348	28,549	-23,201	6,667	30,613	-23,946	-23,271	110,511	157,728	-47,217
April	5,680	30,016	-24,336	6,970	31,657	-24,687	-26,034	102,443	153,163	-50,721
May	5,484	28,733	-23,249	6,887	30,369	-23,482	-27,165	105,477	156,124	-50,647
June	4,798	29,011	-24,213	6,170	30,698	-24,528	-36,592	107,202	168,321	-61.120
July	5,505	29,218	-23,713	6,760	31,113	-24,353	-35,451	104,057	163,861	-59,804
August	5,346	30,130	-24,784	6,744	31,907	-25,163	-38,957	106,846	170,966	-64,120
September	5,482	27,479	-21,997	6,802	28,992	-22,190	-37,244	107,644	167,078	-59,434
October	6,084	25,556	-19,472	7,318	27,056	-19,738	-33,397	117,104	170,239	-53,135
November	6,272	25,982	-19,472	7,610	27,050	-19,753	-35,966	113,046	168,765	-55,719
	6,694	29,892	-23,198	8,182	31,107	-22,925	-25,888	117,480	166,293	-48,813
December Total	64,778	29,692 333,465	-23,190 -268,687	80,460	354,968	-22,925 - 274,508	-25,666 -360,389	1,278,263	1,913,160	-40,013 -634,897
	,		,					.,,	.,,	
D11 January	7,330	32,982	-25,652	9,153	34,630	-25,477	-31,114	110,155	166,745	-56,591
February	6,682	27,856	-21,174	8,404	29,597	-21,193	-25,654	109,640	156,487	-46,847
March	7,717	37,076	-29,359	9,803	38,682	-28,879	-25,424	131,315	185,618	-54,303
April	8,934	36,347	-27,413	10,908	37,982	-27,074	-27,246	123,901	178,221	-54,320
Мау	8,680	40,797	-32,117	10,670	42,582	-31,912	-32,940	124,000	188,852	-64,852
June	7,974	41,151	-33,177	10,015	42,824	-32,809	-36,132	122,913	191,854	-68,941
July	9,097	38,626	-29,529	10,873	40,368	-29,495	-37,418	120,376	187,289	-66,913
August	9,766	39,142	-29,376	11,760	41,012	-29,252	-40,187	126,765	196,204	-69,439
September	9,250	36,252	-27,002	11,165	37,754	-26,589	-35,935	127,219	189,744	-62,524
October	9.630	33.631	-24.001	11,470	35.097	-23.627	-36.667	131.323	191.616	-60.294
November	9,438	35,847	-26,409	11,297	37,018	-25,721	^R -38,341	^R 126,192	^R 190,254	^R -64,062
December	10,500	36,574	-26,074	12,400	37,825	-25,425	-31,780	126,867	184,071	-57,205
Total	105,000	436,281	-331,281	127,919	455,373	-327,454	-398.837	1,480,665	2,206,956	-726.291

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

^b Crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels. ^c Petroleum, coal, natural gas, and electricity.

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

components due to independent rounding. • The U.S. import statistics reflect both government and nongovernment imports of merchandise from foreign countries into But and the Vision services and the vision of the vision of the vision of the vision services and the vision serv

available data beginning in 1974.

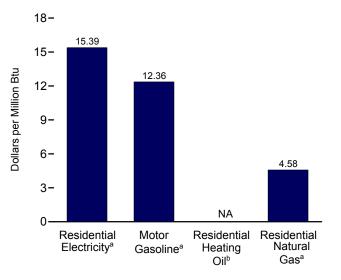
Sources: See end of section.

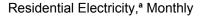
Figure 1.6 Cost of Fuels to End Users in Real (1982-1984) Dollars



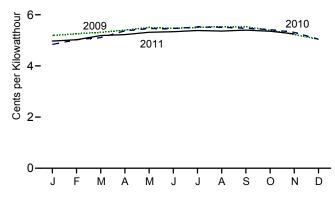
25-20-Residential 10-5-Residential Heating Oil^b Motor Gasoline^a 5-Residential Natural Gas^a 0 1975 1980 1985 1990 1995 2000 2005 2010 Costs, November 2011

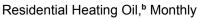
Motor Gasoline,^a Monthly



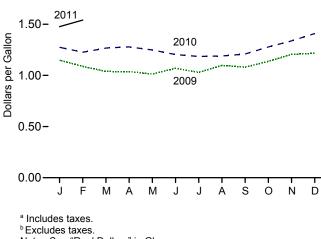




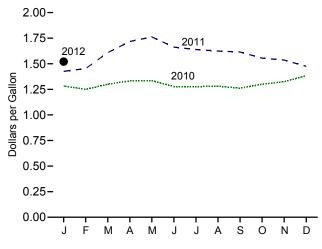




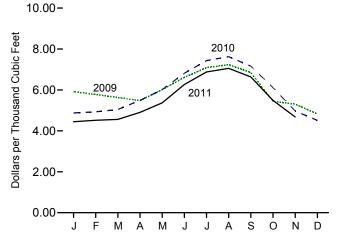
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Note: See "Real Dollars" in Glossary.







Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.6.

	Consumer Price Index, All Urban Consumers ^a	Motor G	asoline ^b		dential ng Oil ^c		lential al Gas ^b		lential 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 pe Million Btu
973 Average	44.4	NA	NA	NA	NA	2.91	2.85	5.6	16.50
975 Average		NA	NA	NA	NA	3.18	3.12	6.5	19.07
980 Average		1.482	11.85	1.182	8.52	4.47	4.36	6.6	19.21
985 Average		1.112	8.89	0.979	7.06	5.69	5.52	6.87	20.13
990 Average		0.931	7.44	0.813	5.86	4.44	4.31	5.99	17.56
995 Average		0.791	6.37	0.569	4.10	3.98	3.87	5.51	16.15
996 Average		0.821	6.61	0.630	4.54	4.04	3.94	5.33	15.62
997 Average		0.804	6.48	0.613	4.42	4.32	4.21	5.25	15.39
998 Average		0.684	5.51	0.523	3.77	4.18	4.05	5.07	14.85
		0.733	5.91	0.525	3.79	4.02	3.91	4.90	14.36
999 Average		0.908	7.32	0.761	5.49	4.02	4.39	4.90	14.30
000 Average		0.908	6.97	0.706	5.09	5.44	5.28		14.02
001 Average								4.84	
002 Average		0.801	6.46	0.628	4.52	4.39	4.28	4.69	13.75
003 Average		0.890	7.18	0.736	5.31	5.23	5.09	4.74	13.89
004 Average		1.018	8.20	0.819	5.91	5.69	5.55	4.74	13.89
005 Average		1.197	9.64	1.051	7.58	6.50	6.33	4.84	14.18
2006 Average		1.307	10.52	1.173	8.46	6.81	6.63	5.16	15.12
007 Average 008 Average		1.374 1.541	11.06 12.40	1.250 1.495	9.01 10.78	6.31 6.45	6.14 6.28	5.14 5.23	15.05 15.33
009 January	211.143	0.871	7.01	1.149	8.28	5.92	5.77	5.19	15.20
February	212.193	0.933	7.51	1.088	7.85	5.78	5.64	5.25	15.40
March	212.709	0.940	7.57	1.039	7.49	5.63	5.49	5.31	15.57
April	213.240	0.988	7.95	1.037	7.48	5.48	5.34	5.40	15.82
May		1.082	8.71	1.013	7.31	6.01	5.87	5.50	16.13
June		1.243	10.00	1.070	7.71	6.61	6.45	5.47	16.03
July		1.205	9.70	1.030	7.43	7.09	6.92	5.50	16.13
August		1.240	9.98	1.098	7.91	7.23	7.06	5.54	16.24
September		1.216	9.79	1.081	7.79	6.85	6.69	5.53	16.22
October		1.209	9.73	1.137	8.20	5.45	5.32	5.39	15.81
November		1.252	10.08	1.206	8.69	5.31	5.18	5.22	15.31
December		1.232	9.96	1.200	8.77	4.83	4.71	5.04	14.78
Average		1.119	9.90 9.01	1.112	8.02	4.83 5.66	5.52	5.04 5.37	15.72
010 January		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		1.280	10.31	1.190	8.58	7.63	7.46	5.51	16.15
September		1.261	10.15	1.209	8.72	7.16	7.00	5.47	16.03
October		1.300	10.46	1.278	9.21	6.11	5.98	5.42	15.89
November		1.325	10.66	1.337	9.64	4.97	4.86	5.31	15.56
December		1.383	11.13	1.409	10.16	4.51	4.41	5.05	14.79
Average		1.301	10.47	1.283	9.25	5.22	5.11	5.29	15.51
011 January		1.425	11.47	1.476	10.64	4.45	4.35	4.97	14.57
February		1.453	11.69	1.540	11.11	4.52	4.42	5.02	14.73
March		1.608	12.95	NA	NA	4.56	4.46	5.19	15.20
April		1.718	13.83	NA	NA	4.90	4.79	5.22	15.31
May		1.762	14.18	NA	NA	5.37	5.25	5.32	15.58
June		1.663	13.38	NA	NA	6.26	6.12	5.34	15.65
July		1.639	13.19	NA	NA	6.88	6.72	5.38	15.77
August		1.624	13.07	NA	NA	7.05	6.90	5.36	15.72
September		1.615	13.00	NA	NA	6.64	6.49	5.40	15.82
October	226.421	1.555	12.52	NA	NA	^R 5.49	^R 5.36	5.36	15.70
November		1.536	12.36	NA	NA	^R 4.68	^R 4.58	^R 5.25	^R 15.39
December		1.475	11.87	NA	NA	NA	NA	NA	NA
Average		1.590	12.80	NA	NA	NA	NA	NA	NA
012 January	226.665	1.521	12.24	NA	NA	NA	NA	NA	NA

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

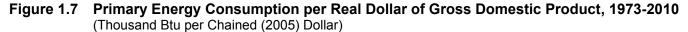
^a Data are U.S. city averages for all items, and are not seasonally adjusted.
 ^b Includes taxes.
 ^c Excludes taxes.

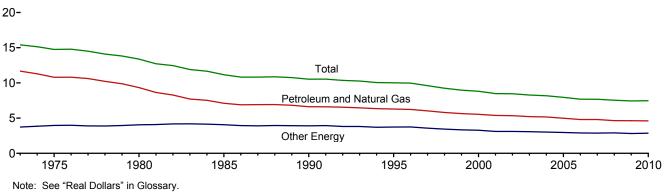
R=Revised. NA=Not available.

Nare-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.

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.





Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.7.

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

	Ene	rgy Consumption	l	Gross	Energy Consum	ption per Real Do	llar of GDF
	Petroleum and Natural Gas	Other Energy ^a	Total	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total
		Quadrillion Btu		Billion Chained (2005) Dollars	Thousand Btu	per Chained (200	5) Dollar
I							
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
76 Year	55.523	20.452	75.975	5,136.9	10.81	3.98	14.79
77 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
979 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
81 Year	51.680	24.426	76.106	5,982.1	8.64	4.08	12.72
82 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
85 Year	48.628	27.764	76.392	6.843.4	7.11	4.06	11.16
86 Year	48.790	27.857	76.647	7,080.5	6.89	3.93	10.83
87 Year	50.504	28.551	79.054	7,307.0	6.91	3.91	10.82
88 Year	52.671	30.038	82.709	7,607.4	6.92	3.95	10.87
989 Year	53.811	30.975	84.786	7,879.2	6.83	3.93	10.70
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
92 Year	54.239	31.544	85.783	8,280.0	6.55	3.84	10.3
93 Year	54.973	32.450	87.424	8.516.2	6.46	3.81	10.30
94 Year	56.289	32.803	89.091	8,863.1	6.35	3.70	10.27
	57.110	33.920	91.029	,	6.29	3.73	
995 Year 996 Year	58.760	35.262	91.029	9,086.0 9.425.8	6.29	3.73	10.02 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
02 Year	61.734	35.911	97.645	11,543.1	5.35	3.11	8.46
03 Year	61.642	36.336	97.978	11,836.4	5.21	3.07	8.28
04 Year	63.215	36.947	100.162	12,246.9	5.16	3.02	8.18
05 Year	62.953	37.328	100.281	12,623.0	4.99	2.96	7.94
006 Year	62.194	37.445	99.639	12,958.5	4.80	2.89	7.69
007 Year	63.437	37.887	101.324	13,206.4	4.80	2.87	7.67
008 Year	61.123	38.155	99.278	13,161.9	4.64	2.90	7.54
009 Year	58.819	35.728	94.547	12,703.1	4.63	2.81	7.44
010 Year	60.266	37.463	97.729	13,088.0	4.60	2.86	7.47

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

Columbia.

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 (January 27, 2012), Table 1.1.6.

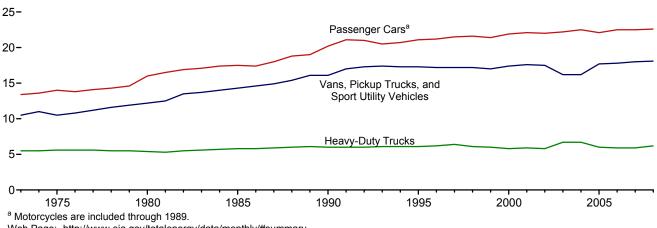


Figure 1.8 Motor Vehicle Fuel Economy, 1973-2008

(Miles per Gallon)

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		He	eavy-Duty Truck	(S ^C	А	Il Motor Vehicle	s ^d
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Economy (miles per gallon)									
1973	9,884	737	13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9
1974	9,221	677	13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2
1976	9,418	681	13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1
1977	9,517	676	14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3
1978	9,500	665	14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4
1979	9,062	620	14.6	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6
1982	9,050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9,644	686	14.1
1983	9,118	534	17.1	10,497	767	13.7	21,083	3,769	5.6	9,760	686	14.2
1984	9.248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1986	9,464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1
1988	9,972	531	18.8	11,465	745	15.4	22,485	3,736	6.0	10,433	688	15.6
1989	^a 10,157	^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	10,371	517	21.0	12,381	717	17.3	25,373	4,047	6.0	11,558	683	16.9
1992	10,804	517	20.5	12,301	714	17.3	26,262	4,210	6.1	11,595	693	16.7
1994	10,004	531	20.3	12,450	701	17.3	25,838	4,303	6.1	11,683	698	16.7
1994	11,203	530	20.7	12,130	694	17.3	25,838	4,202	6.1	11,793	700	16.8
1995	11,203	530	21.1	11,811	685	17.2	26,092	4,313	6.2	11,813	700	16.9
1990	11,581	539	21.2	12,115	703	17.2	20,092	4,218	6.4	12,107	700	17.0
1997	11,561	539	21.5	12,115	703	17.2	25,397	4,210	6.1	12,107	711	16.9
1990	11,754	553	21.6	11,957	707	17.2	25,397	4,135	6.0	12,211	732	16.9
2000	11,976	533	21.4	11,672	669	17.4	25,617	4,391	5.8	12,200	720	16.9
2000	11,976	534	21.9	11,072	636	17.4	25,617	4,391	5.8	11,887	695	17.1
2001	11,831	534 555	22.1	11,204	650	17.6	26,602	4,477 4,642	5.9 5.8	11,887	695 719	17.1
2002	12,202	556	22.0	11,364	697	17.5	27,071	4,642	5.8 6.7	12,171	719	16.9
2003	12,325	553	22.2	11,287	690	16.2	28,093	4,215	6.7	12,208	718	17.0
2004	12,460	567	22.5	10,920	617	16.2	26,235	4,057 4,385	6.0	12,200	714	17.1
2005	12,510	554	22.1	10,920	612	17.8	26,235 25,231	4,305	5.9	12,002	698	17.1
2006		547	22.5	10,920	609	17.8			5.9 5.9	12,017	693	17.2
2007 2008 ^P	12,304	547 522	22.5		605	18.0	25,152	4,275 4,075	5.9 6.2		667	17.2
2000	11,788	322	22.0	10,951	000	10.1	25,254	4,075	0.2	11,619	100	17.4

^a Through 1989, includes motorcycles.

^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.

P=Preliminary.

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

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

Sources: • 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.

			January				July	Cumulative through Jar		
				Percent	Change				Percent	Change
Census Divisions	Normal ^a	2011	2012	Normal to 2012	2011 to 2012	Normal ^a	2011	2012	Normal to 2012	2011 to 2012
New England Connecticut, Maine, Massachusetts, New Hampshire, Deade Jacod Vorment	4.040	4 200	4.070		10	2,700	2,700	2.040	10	40
Rhode Island, Vermont	1,246	1,309	1,070	-14	-18	3,708	3,708	3,046	-18	-18
Middle Atlantic New Jersey, New York,										
Pennsylvania	1,158	1,228	993	-14	-19	3,349	3,373	2,775	-17	-18
East North Central Illinois, Indiana, Michigan, Ohio,										
Wisconsin	1,302	1,364	1,078	-17	-21	3,774	3,852	3,203	-15	-17
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	1,390	1,470	1,112	-20	-24	4,085	4,058	3,468	-15	-15
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	643	710	519	-19	-27	1,726	1,960	1,437	-17	-27
East South Central						, -	,	, -		
Alabama, Kentucky, Mississippi, Tennessee	820	893	608	-26	-32	2,230	2,399	1,882	-16	-22
West South Central Arkansas, Louisiana, Oklahoma, Texas	593	617	408	-31	-34	1,498	1,455	1,257	-16	-14
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	951	938	810	-15	-14	3,098	2,770	2,805	-9	1
Pacific ^b California, Oregon, Washington	564	511	486	-14	-5	1,817	1,710	1,708	-6	(s)
U.S. Average ^b	917	955	751	-18	-21	2,656	2,682	2,270	-15	-15

Table 1.9 Heating Degree-Days by Census Division

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

^b Excludes Alaska and Hawaii.

(s)=Less than 0.5 percent and greater than -0.5 percent.

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. • 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 Climatiology Series 5-1 (heating degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

			January		
				Percent	Change
Census Divisions	Normal ^a	2011	2012	Normal to 2012	2011 to 2012
New England Connecticut, Maine, Massachusetts, New Hampshire,					
Rhode Island, Vermont	0	0	0	NM	NM
Middle Atlantic New Jersey, New York, Pennsylvania	0	0	0	NM	NM
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	0	0	0	NM	NM
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	0	0	o	NM	NM
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	34	15	25	NM	NM
East South Central Alabama, Kentucky, Mississippi, Tennessee	8	0	0	NM	NM
West South Central Arkansas, Louisiana, Oklahoma, Texas	14	1	10	NM	NM
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	1	0	0	NM	NM
Pacific ^b California, Oregon, Washington	2	0	0	NM	NM
U.S. Average ^b	9	3	6	NM	NM

Table 1.10 Cooling Degree-Days by Census Division

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

^b Excludes Alaska and Hawaii.

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.

Energy Overview

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

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

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

Table 1.5 Sources

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

Petroleum Exports

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

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

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

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

Petroleum Imports

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

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

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

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

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

Energy Exports and Imports

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

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

1989: Monthly FT-900, 1990 issues.

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

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

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

Petroleum, Energy, and Non-Energy Balances

Calculated by the U.S. Energy Information Administration.

Total Merchandise

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

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

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

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

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

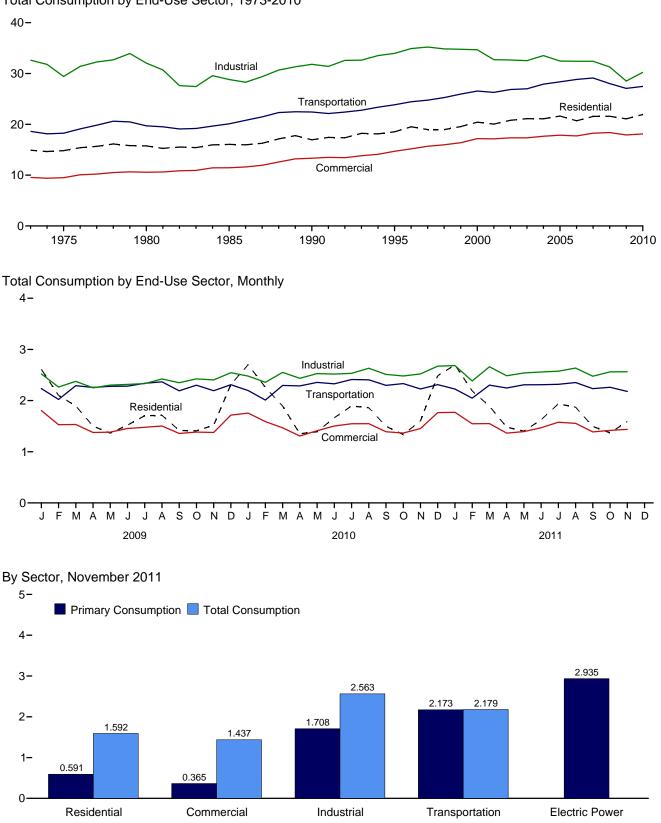
1992–2007: "U.S. International Trade in Goods and Services," Annual Revision.

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

2. Energy Consumption by Sector

Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1973-2010



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	e Sectors				Electric		
	Reside	ential	Comme	rciala	Indus	trial ^b	Transpo	rtation	Power Sector ^{c,d}		.
	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Balancing Item ^g	Primary Total ^h
973 Total	8,225	14,897	4,423	9,543	24,720	32,623	18,577	18,613	19,731	7	75,684
975 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
985 Total	7,148	16,041	3,732	11,451	19,443	28,816	20,041	20,088	26,032	-4	76,392
990 Total	6,557	16,945	3,896	13,320	21,180	31,810	22,366	22,420	30,495	-9	84,485
995 Total	6,936	18,519	4,101	14,690	22,719	33,971	23,791	23,846	33,479	3	91,029
996 Total	7,466	19,504	4,273	15,172	23,410	34,904	24,383	24,437	34,485	4	94,022
997 Total	7,033 6,413	18,965 18,955	4,295 4,005	15,681 15,968	23,686 23,177	35,200 34,843	24,695 25,201	24,750 25,256	34,886 36,225	6 -3	94,602 95,018
998 Total 999 Total	6,775	19,557	4,005	16,376	22,950	34,043 34,764	25,201	25,256	36,225	-3	95,018
2000 Total	7,159	20,425	4,033	17,175	22,830	34,664	26,489	26,548	38,062	2	98,814
001 Total	6,868	20,042	4,084	17,137	21,794	32,720	26,213	26,275	37,215	-6	96,168
002 Total	6,912	20,791	4,132	17,345	21,799	32,662	26,781	26,842	38,016	5	97,645
003 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
005 Total	6,909	21,626	4,051	17,856	21,411	32,446	28,272	28,353	39,638	(s)	100,281
2006 Total	6,178	20,698	3,746	17,710	21,536	32,401	28,751	28,830	39,428	(s)	99,639
2007 Total	6,618	21,551	3,922	18,255	21,378	32,402	29,029	29,117	40,377	-1	101,324
2008 Total	6,817	21,596	4,073	18,381	20,484	31,293	27,925	28,008	39,978	(s)	99,278
009 January	1,151	2,610	631	1,805	1,717	2,522	2,227	2,236	3,446	1	9,174
February	933	2,101 1,896	523	1,528	1,545	2,266	2,016	2,023	2,901 2,988	-3	7,915
March	774 538		452 325	1,533	1,598 1,475	2,376	2,284 2.250	2,291 2.257		-4 -1	8,093 7,383
April May	330	1,500 1,364	325 228	1,377 1,383	1,475	2,250 2,302	2,250	2,257	2,795 3.022		7,303
June	261	1,521	192	1,363	1,470	2,302	2,275	2,280	3,359	(s) 2	7,578
July	247	1,704	191	1,478	1,507	2,333	2,332	2,339	3,578	3	7,858
August	245	1,711	194	1,503	1,551	2,422	2,359	2,366	3,653	3	8,006
September	255	1,416	200	1,357	1,544	2,349	2,185	2,191	3,130	(s)	7,313
October	397	1,409	268	1,385	1,607	2,424	2,295	2,302	2,952	-2	7,518
November	529	1,519	324	1,377	1,594	2,405	2,188	2,194	2,860	-1	7,493
December	962	2,315	534	1,717	1,699	2,544	2,302	2,310	3,389	1	8,887
Total	6,619	21,064	4,061	17,899	18,801	28,513	26,988	27,070	38,077	(s)	94,547
010 January	1,153	2,701	621	1,756	1,686	2,479	2,189	2,196	3,483	4	9,136
February	994	2,259	552	1,589	1,594	2,358	2,003	2,010	3,073	1	8,216
March	744	1,893	421	1,467	1,747	2,552	2,290	2,297	3,007	-2 -4	8,208
April	444 333	1,352 1,390	279	1,308	1,625	2,436	2,281 2,349	2,287	2,754 3,163	-4 -1	7,380 7,685
May	273	1,390	228 200	1,411 1,503	1,613 1,609	2,528 2,519	2,349 2,320	2,356 2,327	3,610	-1	8,015
June July	275	1,894	184	1,503	1,619	2,519	2,320	2,327	3,933	2 4	8,389
August	243	1,860	188	1,548	1,707	2,000	2,405	2,412	3,935	3	8.450
September	242	1,498	190	1.392	1,671	2,033	2,395	2,400	3.305	-1	7.699
October	349	1,337	258	1,366	1,643	2,481	2,202	2,333	2.941	-3	7,514
November	606	1,604	366	1,453	1,669	2,521	2,221	2,227	2,943	-3	7,802
December	1,065	2,486	583	1,764	1,796	2,673	2,305	2,312	3,487	1	9,236
Total	6,683	21,937	4,069	18,104	19,981	30,225	27,380	27,462	39,616	(s)	97,729
011 January	1,171	2,698	634	1,772	^R 1,851	^R 2,684	2,219	2,227	3,505	2	^R 9,382
February	954	2,188	531	1,547	_ 1,614	^R 2,383	2,041	2,047	3,024	-2	^R 8,164
March	773	1,892	448	1,550	^R 1,800	^R 2,660	2,295	2,302	3,088	-3	^R 8,401
April	478	1,482	297	1,365	1,641	2,485	2,240	2,246	2,921	-3	R 7,575
May	328	1,401	221	1,394	R 1,653	R 2,540	2,301	2,308	3,139	-2	R 7,640
June	259	1,628	193	1,469	^R 1,659 ^R 1,635	R 2,558	2,304	2,311	3,551	(s)	^R 7,966 ^R 8,409
July	238 249	1,934 1,872	184 201	1,577 1,555	^R 1,635 ^R 1,712	2,575 ^R 2,636	2,311 2,346	2,318 2,352	4,036 3,908	5 3	[™] 8,409 ^R 8,418
August September	249 263	1,872	201 210	1,555	^R 1,640	^R 2,476	2,346	2,352 2,234	3,908	-1	^R 7,591
October	^R 381	1,495	294	1,300	^R 1,696	^R 2,562	R 2,220	^R 2,260	2,984	-1	7,602
November	591	1,592	365	1,437	1,708	2,563	2,173	2,200	2,935	-4	7,767
11-Month Total	5,684	19,549	3,579	16,470	18,610	28,124	24,711	24,785	36,344	-12	88,917
010 11-Month Total	5.620	19,452	3.486	16,340	18,185	27.551	25.075	25,150	36,128	(s)	88,493
009 11-Month Total	5.659	18,751	3,528	16,183	17,102	25,966	24,686	24,760	34,686	(3)	85,660

^a Commercial sector, including commercial combined-heat-and-power (CHP)

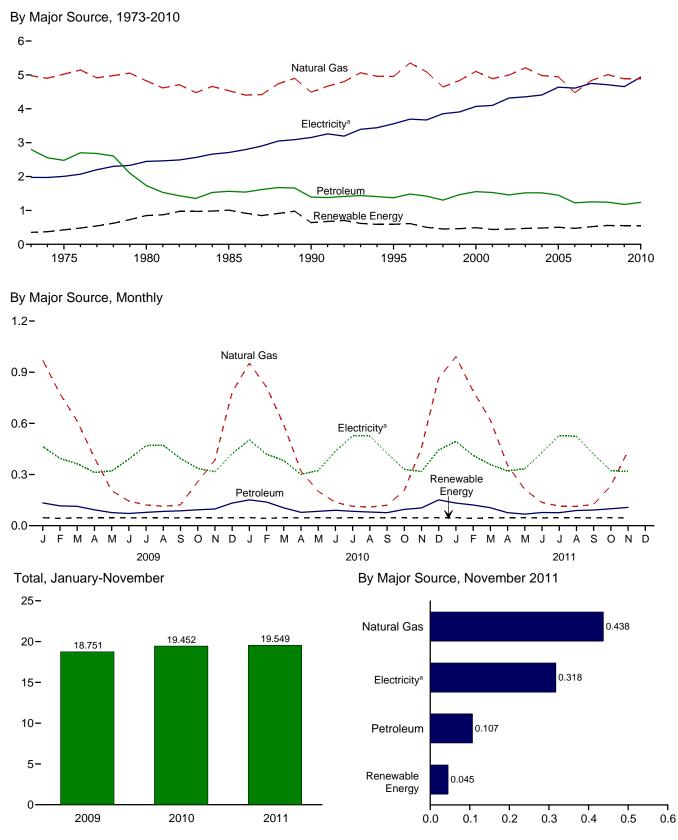
Commercial electricity-only plants.
 ^b Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
 ^c Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the number of the number

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.





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

Table 2.2 Residential Sector Energy Consumption

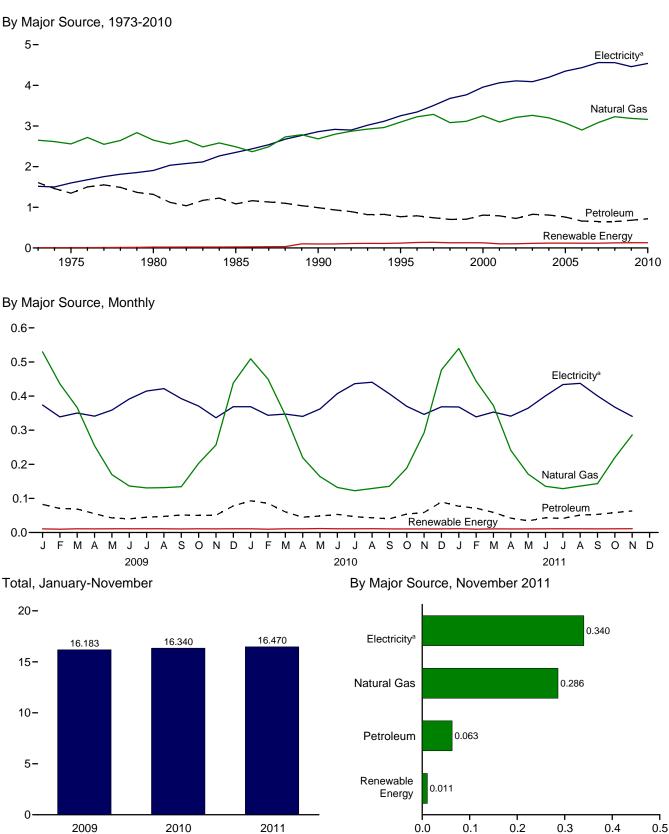
(Trillion Btu)

				Prima	ry Consum	otion ^a						
		Fossil	Fuels			Renewat	ole Energy ^b	1	_	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 1975 Total	94 63	4,977 5,023	2,800 2,479	7,871 7,564	NA NA	NA NA	354 425	354 425	8,225 7,990	1,976 2,007	4,696 4,817	14,897 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 1990 Total	39 31	4,534 4,491	1,565 1,394	6,138 5.916	NA 6	NA 56	1,010 580	1,010 641	7,148 6.557	2,709 3.153	6,184 7.235	16,041 16.945
1995 Total	17	4,954	1,374	6,345	7	64	520	591	6,936	3,557	8,026	18,519
1996 Total	17	5,354	1,484	6,854	7	65	540	612	7,466	3,694	8,344	19,504
1997 Total	16 12	5,093	1,422 1,304	6,531	8 8	64 64	430 380	502 452	7,033 6,413	3,671 3,856	8,261	18,965 18,955
1998 Total 1999 Total	14	4,646 4.835	1,304	5,962 6,314	9 9	63	390	452	6,775	3,856	8,686 8.875	19,557
2000 Total	11	5,105	1,554	6,670	9	60	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 11	5,209 4,981	1,519 1,520	6,741 6,513	13 14	57 57	400 410	470 481	7,211 6,993	4,353 4,408	9,546 9,691	21,110 21,093
2004 Total 2005 Total	8	4,946	1,320	6,406	16	58	410	504	6,909	4,408	10,079	21,626
2006 Total	6	4,476	1,224	5,706	18	63	390	472	6,178	4,611	9,909	20,698
2007 Total	8	4,835	1,254	6,097	22	70	430	522	6,618	4,750	10,182	21,551
2008 Total	8	5,010	1,243	6,261	26	80	450	556	6,817	4,708	10,071	21,596
2009 January	1	969	134	1,104	3	8	37	47	1,151	464	995	2,610
February	1	773 614	116 113	890 728	3 3	7 8	33 37	42 47	933 774	394 364	774 758	2,101 1.896
March April	1	399	93	492	3	° 7	37	47	538	304	650	1,896
May	(s)	206	77	283	3	8	37	47	330	321	713	1,364
June	`í	144	71	216	3	7	35	45	261	390	869	1,521
July	1	121 114	78 84	200 198	3	8	37 37	47 47	247	470	988	1,704
August September	(s)	114	84 87	210	3 3	8 7	37	47 45	245 255	472 394	993 767	1,711 1,416
October	(3)	256	93	350	3	8	37	47	397	336	676	1,409
November	1	385	98	483	3	7	35	45	529	316	674	1,519
December	1	782	133	915	3	8	37	47	962	422	931	2,315
Total	8	4,883	1,176	6,067	33	89	430	552	6,619	4,656	9,789	21,064
2010 January	1	953	151	1,106	3	8	36	47	1,153	503	1,045	2,701
February	1	812	139	952	3	7	32	42	994	419	846	2,259
March	1 (s)	592 320	105 78	697 398	3 3	8 8	36 35	47 45	744 444	381 300	768 608	1,893 1,352
May	(S)	201	84	286	3	8	36	47	333	324	734	1,390
June	ìí	137	90	228	3	8	35	45	273	435	956	1,664
July	(s)	114	84	198	3	8	36	47	245	528	1,121	1,894
August September	1 (s)	109 120	80 76	190 196	3 3	8 8	36 35	47 45	237 242	526 425	1,097 831	1,860 1,498
October	(3)	206	96	302	3	8	36	43	349	330	658	1,337
November	1	456	104	561	3	8	35	45	606	318	680	1,604
December	1	865	151	1,018	3	8	36	47	1,065	444	978	2,486
Total	7	4,883	1,239	6,129	37	97	420	554	6,683	4,933	10,322	21,937
2011 January	1	991	132	1,124	3	8	36	47	1,171	494	1,033	2,698
February	1	790	121	912	3	7	32	42	954	412	822	2,188
March April	1 (s)	620 355	105 76	726 432	3 3	8 8	36 35	47 45	773 478	358 321	760 683	1,892 1,482
May	(5)	R 212	68	281	3	8	36	43	328	321	740	1,402
June	(s)	136	77	213	3	8	35	45	259	430	939	1,628
July	(s)	115	76	191	3	8	36	47	238	528	1,168	1,934
August September	(s) (s)	113 125	89 92	202 217	3	8 8	36 35	47 45	249 263	524 419	1,099 813	1,872 1,495
October	(5)	234	92 99	333	3	8	35 36	45 47	R 381	323	665	1,495
November	1	438	107	545	3	8	35	45	591	318	683	1,592
11-Month Total	6	4,128	1,044	5,178	34	89	384	507	5,684	4,462	9,403	19,549
2010 11-Month Total 2009 11-Month Total	6 7	4,019 4,103	1,088 1,044	5,113 5,154	34 30	89 82	384 393	507 505	5,620 5,659	4,489 4,234	9,343 8,858	19,452 18,751

^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

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of electricity retail sales. See INDE 2, ELESS than 0.5 trillion Btu. 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.

Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)



^a Electricity retail sales.

Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.3.

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

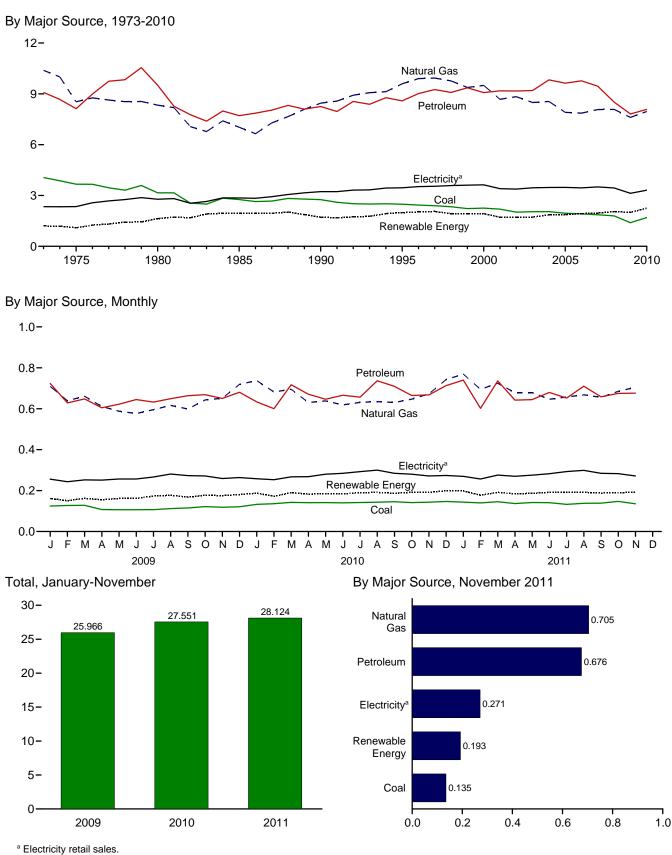
					Primary	Consump	tion ^a							
		Fossi	il Fuels			R	enewabl	e Energ	y b			Elec-	Electrical	
	Coal	Natural Gas ^c	Petro- leum ^d	Total	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	tricity Retail Sales ^f	Electrical System Energy Losses ^g	Total
1973 Total 1975 Total	160 147 115	2,649 2,558	1,607 1,346 1,318	4,416 4,051 4.084	NA NA NA	NA NA NA	NA NA NA	NA NA NA	7 8 21	7 8 21	4,423 4,059	1,517 1,598 1,906	3,604 3,835 4,567	9,543 9,492 10.578
1980 Total 1985 Total	137	2,651 2,488	1,083	4,084	NA	NA	NA	NA	21	21	4,105 3,732	2,351	4,567 5,368	10,578
1990 Total	124	2,682	991	3,798	1	3	-	-	94	98	3,896	2,860	6,564	13,320
1995 Total 1996 Total	117 122	3,096 3,226	769 790	3,982 4,138	1	5 5	_	_	113 129	118 135	4,101 4,273	3,252 3,344	7,338 7,555	14,690 15,172
1997 Total	129	3,285	743	4,157	1	6	-		131	138	4,295	3,503	7,883	15,681
1998 Total 1999 Total	93 103	3,083 3,115	702 707	3,878 3,925	1	777	_	_	118 121	127 129	4,005 4,053	3,678 3,766	8,285 8,557	15,968 16,376
2000 Total	92	3,252	807	4,150	i	8	_	_	119	123	4,033	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 2003 Total	90 82	3,212 3.261	726 827	4,028 4.170	(s) 1	9 11	_	_	95 101	104 113	4,132 4,283	4,110 4.090	9,104 8.969	17,345 17.343
2003 Total	103	3,201	809	4,113	i	12	_	_	105	118	4,203	4,090	9,229	17,659
2005 Total	97	3,073	761	3,932	1	14	-	-	105	119	4,051	4,351	9,455	17,856
2006 Total 2007 Total	65 70	2,902 3.085	663 649	3,629 3.805	1	14 14	_	_	102 102	117 118	3,746 3.922	4,435 4.560	9,529 9.773	17,710 18.255
2008 Total	69	3,228	651	3,948	1	15	(s)	_	102	125	4,073	4,558	9,749	18,381
2009 January	8 7	530 436	82 70	620 513	(s)	1 1	(s)	(s)	9 8	11 10	631 523	374 339	801 666	1,805 1,528
February March	6	436 366	69	441	(s) (s)	1	(s) (s)	(s) (s)	9	10	523 452	350	731	1,528
April	4	254	55	314	(s)	1	(s)	(s)	9	11	325	341	711	1,377
May	4	170	43	217	(s)	1	(s)	(s)	10	11	228	359	796	1,383
June July	5 4	136 131	40 45	181 180	(s) (s)	1	(s) (s)	(s) (s)	9 10	11 11	192 191	392 415	872 872	1,456 1,478
August	4	132	47	183	(s)	1	(s)	(s)	10	11	194	422	887	1,503
September	4	134	52	190	(s)	1	(s)	(s)	9	10	200	392	765	1,357
October November	5 6	203 257	50 51	258 313	(s) (s)	1	(s) (s)	(s) (s)	9 9	11 11	268 324	371 337	745 717	1,385 1.377
December	6	438	78	523	(s) 1	1	(s)	(s)	9	11	534	369	814	1,717
Total	63	3,187	682	3,932	•	17	(s)	(s)	112	129	4,061	4,460	9,378	17,899
2010 January	7 6	509 450	93 85	610 542	(s) (s)	2 1	(s) (s)	(s) (s)	9 8	11 10	621 552	369 344	766 693	1,756 1,589
February March	6	344	60	410	(s) (s)	2	(S) (S)	(s) (s)	9	10	421	344	699	1,369
April	4	220	45	268	(s)	2	(s)	(s)	9	11	279	340	689	1,308
May	4	164 132	48 53	216 189	(s) (s)	2 2	(s) (s)	(s) (s)	10 9	12 11	228 200	362 407	821 895	1,411 1,503
June July	4	123	46	173	(s) (s)	2	(s) (s)	(s) (s)	9	11	184	407	927	1,503
August	4	129	43	177	(s)	2	(s)	(s)	9	11	188	441	920	1,548
September October	4	135 189	40 54	179 247	(s) (s)	2 2	(s) (s)	(s) (s)	9 9	11 11	190 258	406 370	795 738	1,392 1,366
November	5	292	59	356	(S) (S)	2	(S) (S)	(s)	9	10	258 366	346	738	1,366
December	6	477	90	573	(s)	2	(s)	(s)	9	11	583	369	812	1,764
Total	58	3,164	718	3,940	1	19	(s)	(s)	109	129	4,069	4,539	9,497	18,104
2011 January	7	^R 539 444	77 71	623 521	(s)	2 1	(s)	(s)	9 9	11 10	634 531	368 339	769	1,772 1,547
February March	6 6	444 372	59	521 437	(s) (s)	1	(s) (s)	(s) (s)	9	10	448	339	677 749	1,547
April	4	241	42	287	(s)	2	(s)	(s)	9	10	297	341	726	1,365
May	4	171	34 43	210	(s)	2 2	(s)	(s)	9 9	11	221	365	808	1,394
June July	4	135 129	43 41	182 173	(s) (s)	2	(s) (s)	(s) (s)	9	11 11	193 184	401 434	875 958	1,469 1,577
August	3	136	51	190	(s)	2	(s)	(s)	9	11	201	437	916	1,555
September	3	143 220	53 58	200 283	(s)	2 2	(s)	(s)	9 9	11	210 294	401 367	777	1,388
October November	5 5	220	58 63	283 354	(s) (s)	2	(s) (s)	(s) (s)	9	11 11	294 365	367 340	757 732	1,418 1,437
11-Month Total	50	2,817	594	3,461	1	17	(s)	(s)	100	118	3,579	4,146	8,745	16,470
2010 11-Month Total 2009 11-Month Total	52 57	2,687 2,749	628 604	3,368 3,410	1 1	17 15	(s) (s)	(s) (s)	100 102	118 118	3,486 3,528	4,170 4,091	8,684 8,564	16,340 16,183

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

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.



Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption

(Trillion Btu)

					Primar	y Consun	nptiona							
		Fossi	I Fuels				Renewabl	e Energy	b			Elec-	Electrical	
	Coal	Natural Gas ^c	Petro- leum ^d	Total ^e	Hydro- electric Power ^f	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	tricity Retail Sales ^g	System Energy Losses ^h	Total ^e
1973 Total 1975 Total	4,057 3,667	10,388 8,532	9,083 8,127	23,521 20,339	35 32	NA NA	NA NA	NA NA	1,165 1,063	1,200 1,096	24,720 21,434	2,341 2,346	5,562 5,632	32,623 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 1996 Total	2,488 2,434	9,592 9,901	8,586 9,019	20,727 21,377	55 61	3	-	-	1,934 1,969	1,992 2,033	22,719 23,410	3,455 3,527	7,796 7,968	33,971 34,904
1997 Total	2,395	9,933	9,255	21,629	58	3	_	_	1,996	2,055	23,686	3,542	7,972	35,200
1998 Total	2,335	9,763	9,082	21,248	55	3	-	-	1,872	1,929	23,177	3,587	8,079	34,843
1999 Total	2,227	9,375	9,356	21,016	49	4	-	-	1,882	1,934	22,950	3,611	8,203	34,764
2000 Total	2,256 2.192	9,500	9,075	20,896 20.075	42 33	4 5	_	-	1,881	1,928	22,824 21.794	3,631 3.400	8,208	34,664
2001 Total 2002 Total	2,192	8,676 8,832	9,178 9,168	20,075 20,079	33	5	-	-	1,681 1,676	1,719 1,720	21,794 21,799	3,400 3,379	7,526 7,484	32,720 32,662
2002 Total	2,013	8,488	9,100	19,777	43	3	_	_	1,679	1,726	21,503	3,454	7,575	32,532
2004 Total	2,047	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 1.865	7,861	9,770 9.451	19,606	29 16	4 5	_	Ξ	1,897 1.944	1,930 1,964	21,536	3,451	7,415	32,401
2007 Total 2008 Total	1,865	8,074 8,083	9,451 8,511	19,414 18,431	16	5 5	_	=	2,031	2,053	21,378 20,484	3,507 3,444	7,517 7,365	32,402 31,293
2009 January	125	709	724	1,556	2	(s)	_	_	159	161	1,717	256	548	2,522
February	127	639	628	1,394	1	(s)	-	-	149	151	1,545	243	478	2,266
March	128	661	648	1,436	2	(s)	-	-	160	162	1,598	252	526	2,376
April	107	611	605	1,320	2	(s)	_	-	153	155	1,475	251	523	2,250
May	106 107	588 576	622 645	1,314 1,326	2	(s)	-	_	160 160	162 162	1,476 1,488	257 257	569 572	2,302 2.317
June July	107	576 596	632	1,320	2	(s) (s)	_	_	172	162	1,400	257	560	2,317
August	112	616	649	1,374	1	(s)	-	-	175	177	1,551	281	591	2,422
September	115	599	663	1,376	1	(s)	-	-	167	168	1,544	273	532	2,349
October	122	643	669	1,430	1	(s)	-	-	175	177	1,607	272	546	2,424
November December	118 121	651 719	650 681	1,419 1,518	1	(s) (s)	-	_	174 179	175 181	1,594 1.699	259 264	552 582	2,405 2,544
Total	1,396	7,609	7,816	16,797	18	(S) 4	_	_	1,982	2,005	18,801	3,130	6,582	2,544 28,513
2010 January	133	737	634	1,499	2	(s)	(s)	-	185	187	1,686	258	535	2,479
February	136	681	600	1,422	2	(s)	(s)	-	170	172	1,594	253	511	2,358
March	143 141	695 630	717 671	1,557 1,443	2	(s)	(s)	_	188 181	190 183	1,747 1.625	267 268	538 542	2,552 2,436
April May	141	638	646	1,443	2	(s) (s)	(s) (s)	_	183	185	1,613	200	635	2,430
June	140	619	666	1,426	1	(s)	(s)	_	182	183	1,609	284	625	2,519
July	142	631	656	1,429	1	(s)	(s)	-	188	190	1,619	292	621	2,533
August	143	635	737	1,516	1	(s)	(s)	-	190	191	1,707	300	626	2,633
September	146 141	630 647	709 665	1,485	1	(s)	(s)	_	185 190	187 192	1,671	284 280	556 558	2,512
October November	141	647 672	668	1,451 1,478	1	(s) (s)	(s) (s)	_	190	192	1,643 1,669	280	558 580	2,481 2,521
December	147	742	713	1,597	1	(s)	(s)	-	198	199	1,796	274	604	2,673
Total	1,696	7,959	8,082	17,731	16	4	(s)	-	2,230	2,251	19,981	3,313	6,932	30,225
2011 January	144	^R 769	740	^R 1,653	1	(s)	(s)	(s)	197	198	^R 1,851	270	563	^R 2,684
February	140	R 695	602	R 1,437	2	(s)	(s)	(s)	175	177	1,614 R 1 800	257	512	R 2,383
March	146 137	^R 725 678	736 642	^R 1,608 ^R 1,458	2	(s) (s)	(s) (s)	(s) (s)	189 182	192 184	^R 1,800 1,641	276 270	585 574	^R 2,660 2,485
April May	137	^R 679	644 644	^R 1,456	2	(S) (S)	(S) (S)	(S) (S)	184	187	^R 1,653	270	574 611	^{2,405} ^R 2,540
June	141	^R 646	679	^R 1,468	1	(s)	(s)	(s)	189	191	^R 1,659	282	617	R 2,558
July	133	^R 657	652	^R 1,442	1	(s)	(s)	(s)	191	193	^R 1.635	293	648	2,575
August	138	R 668	710	R 1,520	1	(s)	(s)	(s)	190	192	R 1,712	299	626	R 2,636
September	138	^R 656 ^R 685	658 675	^R 1,453 ^R 1,507	1	(s)	(s)	(s)	186	188 190	^R 1,640 ^R 1,696	284	551	^R 2,476 ^R 2,562
October November	147 135	705	675	1,507	1	(s) (s)	(s) (s)	(s) (s)	188 191	190	1,708	283 271	583 584	2,562
11-Month Total	1,539	7,563	7,415	16,526	16	(3) 4	(s) (s)	(s) (s)	2,064	2,084	18,610	3,060	6,453	28,124
2010 11-Month Total 2009 11-Month Total	1,549 1,275	7,216 6,889	7,369 7,135	16,133 15,278	15 17	4 4	(s) _	Ξ	2,033 1,804	2,051 1,824	18,185 17,102	3,039 2,867	6,328 5,997	27,551 25,966

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

^b Most data are estimates. See Table 10.20 for fores on series componence 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 Includes coal coke net imports, which are not separately displayed. See Table 1 de coad 1 db.

Tables 1.4a and 1.4b. f Conventional hydroelectric power.

⁹ 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

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 section.

R=Revised. NA=Not available. - =No data reported. (s)=Less than 0.5 trillion Btu. Notes: • The industrial sector includes industrial combined-heat-and-power

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. 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.

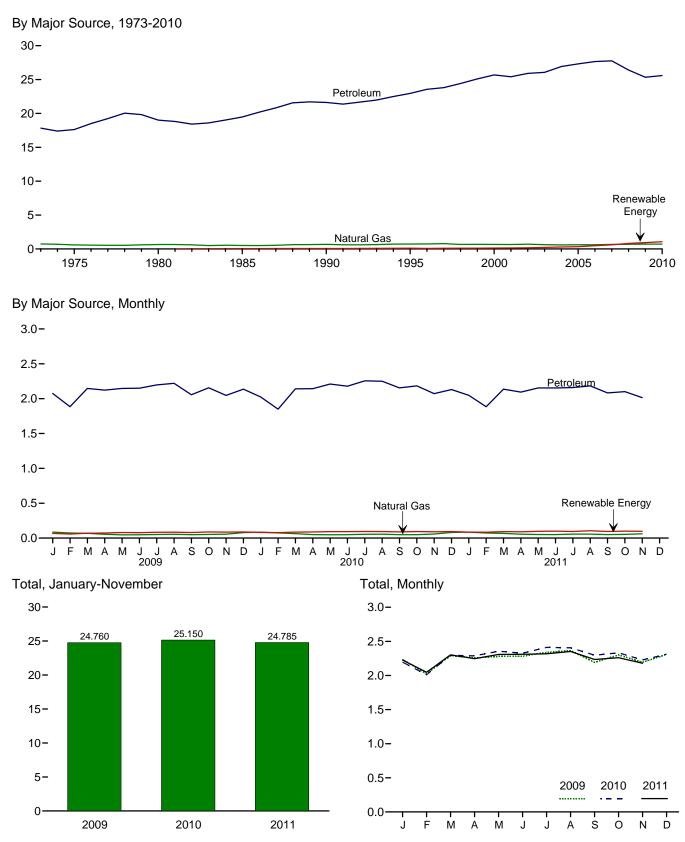


Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)

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

Table 2.5 Transportation Sector Energy Consumption

(Trillion Btu)

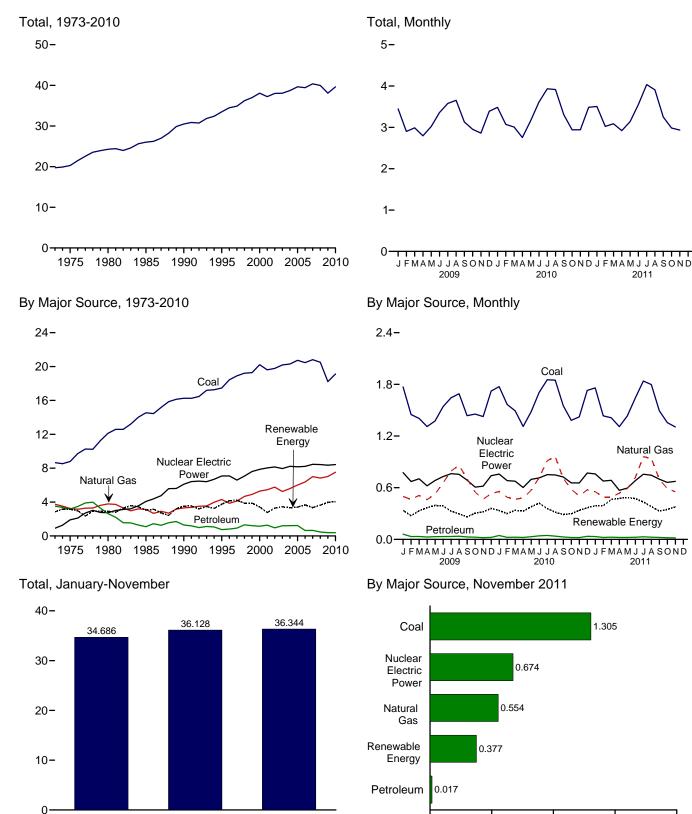
			Primary Con	sumption ^a			-		
		Fossi	l Fuels		Renewable Energy ^b		Electricity	Electrical System	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Total Primary	Retail Sales ^e	Energy Losses ^f	Total
973 Total	3	743	17,832	18,577	NA	18,577	11	25	18,613
975 Total	1	595	17,615	18,210	NA	18,210	10	24	18,245
980 Total	(^g)	650	19,009	19,659	NA	19,659	11	27	19,697
985 Total	(°)	519	19,472	19,992	50	20,041	14	32	20,088
990 Total	ζgί	680	21,626	22,306	60	22,366	16	37	22,420
95 Total	(g)	724	22,955	23.679	112	23,791	17	38	23,846
96 Total	(s)	737	23,565	24,302	81	24,383	17	38	24,437
97 Total	(°)	780	23,813	24,593	102	24,695	17	38	24,750
98 Total	(g)	666	24.422	25.088	113	25.201	17	38	25.256
99 Total	(g)	675	25.098	25,774	118	25,891	17	40	25.949
00 Total	(g)	672	25,682	26,354	135	26,489	18	42	26,548
01 Total	(g)	658	25,412	26.070	142	26,213	20	43	26,275
02 Total	\g	699	25,913	26,612	170	26,781	19	42	26.842
03 Total	{g}	627	26,063	26,690	230	26,920	23	51	26,994
04 Total	(g)	602	26,925	27,527	290	27,817	25	54	27.895
05 Total	(g)	624	27,309	27,933	339	28,272	25	56	28.353
06 Total	(g)	625	27,651	28,276	475	28,751	25	54	28,830
07 Total	(g)	663	27,763	28,427	602	29,029	23	54 60	20,030
08 Total	(g)	692	26,407	27,099	826	27,925	26	56	28,008
09 January	(g)	86	2,075	2,160	67	2,227	3	6	2,236
February	(9)	73	1,885	1,958	58	2,016	2	5	2,023
March	(9)	68	2,146	2,214	70	2,284	2	5	2,291
April	(9)	54	2,123	2,177	73	2,250	2	4	2,257
May	(g)	47	2,147	2,194	79	2,273	2	5	2,280
June	(9)	47	2,150	2,198	78	2,276	2	5	2,283
July	(9)	52	2,197	2,248	83	2,332	2	5	2,339
August	(g)	54	2,220	2,275	85	2,359	2	5	2,366
September	(g)	49	2,056	2,105	80	2,185	2	4	2,191
October	(g)	52	2,156	2,208	88	2,295	2	4	2,302
November	(g)	55	2,047	2,102	85	2,188	2	4	2,194
December	(g)	78	2,137	2,215	87	2,302	2	5	2,310
Total	(g)	715	25,339	26,054	934	26,988	27	56	27,070
10 January	(g) (g)	84	2,024	2,108	81	2,189	2	5	2,196
February	(9)	74	1,850	1,924	79	2,003	2	5	2,010
March	(9)	64	2,141	2,205	86	2,290	2	5	2,297
April	(9)	50	2,143	2,193	88	2,281	2	4	2,287
May		48	2,210	2,257	92	2,349	2	5	2,356
June	(g)	49	2,179	2,227	93	2,320	2	5	2,327
July	(g)	54	2,256	2,310	95	2,405	2	5	2,412
August	(g)	56	2,250	2,306	93	2,399	2	4	2,406
September	(g)	48	2,154	2,203	89	2,292	2	4	2,298
October	(g)	49	2,184	2,233	94	2,326	2	4	2,333
November	(g) (g)	59	2,072	2,131	90	2,221	2	4	2,227
December Total	(9) (9)	81 716	2,131 25,593	2,212 26,308	94 1,072	2,305 27,380	2 26	5 55	2,312 27,462
1 January	(9)	86	2,047	2,133	86	2,219	2	5	2,227
February	(9)	73	1.884	1.957	84	2,213	2	4	2,227
March	(9)	67	2,136	2.203	92	2,295	2	5	2,047
April	(9)	55	2,094	2,150	90	2,233	2	4	2,302
May	(9)	51	2,054	2,205	96	2,240	2	5	2,240
June	(9)	50	2,154	2,203	100	2,301	2	5	2,300
July	(9)	57	2,159	2,204	95	2,311	2	5	2,318
August	(9)	57	2,139	2,210	105	2,311	2	4	2,310
September	(9)	50	2,184	2,241	95	2,346	2	4	2,352
October	(9)	53	2,003	2,133	85 R 99	^R 2,254	2	4	R 2,260
November	(9)	53 61	2,015	2,154	97	2,173	2	4	2,260
11-Month Total	(g)	660	2,015 23,012	2,076 23,672	1,039	2,173 24,711	24	50	2,178 24,785
10 11-Month Total	(^g)	635	23,462	24,097	978	25,075	24	50	25,150
09 11-Month Total	(°)	637	23,202	23,839	847	24,686	24	51	24,760

^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,
 ^a 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.
 ⁱ 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

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.
⁹ Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption. R=Revised. NA=Not available.
Notes: • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia. Web 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.

Figure 2.6 Electric Power Sector Energy Consumption (Quadrillion Btu)



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

2010

2009

0.0

0.5

1.0

1.5

2.0

2011

Table 2.6 **Electric Power Sector Energy Consumption**

(Trillion Btu)

1973 Total 8, 1975 Total 8, 1980 Total 12, 1980 Total 12, 1985 Total 14, 1990 Total 16, 1995 Total 17, 1995 Total 17, 1996 Total 18, 1997 Total 18, 1998 Total 19, 2001 Total 19, 2001 Total 19, 2002 Total 20, 2001 Total 20, 2002 Total 20, 2003 Total 20, 2004 Total 20, 2005 Total 20, 2006 Total 20, 2007 Total 20, 2008 Total 20, 2009 January 1, April 1, May 1, July 1, August 1, November 1, November 1, November 1, Narch	bal 0 658 6786 6786 123 542 261 466 429 905 216 279 614 783 305 737 462 808 513 769 450 451 310 375 541 645 541	Fossil latural Gas ^c 3,748 3,240 3,778 3,135 3,309 4,302 3,862 4,126 4,675 4,902 5,293 5,458 5,767 5,246 5,595 5,767 5,246 5,595 6,015 6,015 6,015 6,829 409 464 511 461 526 6,656	Fuels Petro- leum 3,515 3,166 2,634 1,090 1,289 755 817 1,306 1,211 1,212 1,205 1,212 1,215 648 657 468 61 33 34 28 32	Total 15,921 18,534 18,767 20,859 22,523 23,109 23,957 25,393 26,658 26,348 26,511 26,636 27,112 27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,949 1,943	Nuclear Electric Power 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 8,427 775 6,72 703	Hydro- electric Power ^d 2,827 3,122 2,867 2,937 3,014 3,528 3,581 3,528 3,581 3,528 3,581 3,528 2,209 2,650 2,781 2,650 2,781 2,656 2,670 2,839 2,430 2,430 2,434 2,827 2,827 3,122 2,867 2,937 3,014 3,528 3,528 3,528 2,650 2,768 2,650 2,768 2,650 2,768 2,650 2,781 2,656 2,670 2,839 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,430 2,556 2,577 2,937 3,528 3,528 2,529 2,650 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,768 2,769 2,767 2,781 2,768 2,769 2,741 2,768 2,769 2,741 2,768 2,769 2,741 2,768 2,769 2,741 2,768 2,768 2,768 2,768 2,768 2,769 2,778 2,778 2,778 2,778 2,778 2,778 2,778 2,778 2,778 2,778 2,778 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779 2,779	Geo- thermal 20 34 53 97 161 138 148 148 145 144 147 144 147 148 148 147 145 146 13 11	Renewable Solar/ PV NA NA NA (s) 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Wind NA NA NA (s) 29 33 33 33 34 31 46 57 70 105 115 142 178 264 341 546	Bio- mass 3 2 4 14 317 422 438 446 444 453 453 337 380 397 388 406 412 423 435	Total 2,851 3,158 2,925 3,049 3,524 3,747 4,153 4,216 3,874 3,427 2,763 3,874 3,427 2,763 3,445 3,445 3,445 3,445 3,406 3,665 3,345 3,665	Elec- tricity Net Imports 49 21 71 140 8 134 137 116 88 99 115 75 72 22 22 39 85 63 107 112	Total Primary 19,731 20,270 24,269 26,032 30,495 33,479 34,485 34,886 36,275 36,976 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,017 39,978
1973 Total 8, 1975 Total 8, 1975 Total 12, 1980 Total 12, 1985 Total 14, 1990 Total 16, 1995 Total 17, 1996 Total 18, 1997 Total 18, 1997 Total 19, 1998 Total 19, 1999 Total 19, 2001 Total 19, 2001 Total 20, 2001 Total 20, 2003 Total 20, 2004 Total 20, 2005 Total 20, 2006 Total 20, 2007 Total 20, 2008 Total 20, 2009 January 1, July 1, April 1, August 1, August 1, November 1, November 1, November 1, November 1, Netchuary	bal 0 658 6786 6786 123 542 261 466 429 905 216 279 614 783 305 737 462 808 513 769 450 451 310 375 541 645 541	Gas ^c 3,748 3,240 3,778 3,335 3,309 4,302 3,862 4,407 5,293 5,488 5,767 5,246 5,595 6,375 7,005 6,375 7,005 6,375 7,005 6,375 7,005 6,375 7,005 6,375	leum 3,515 3,166 2,634 1,090 1,289 755 817 927 1,306 1,211 1,214 1,214 1,217 961 1,225 648 657 468 61 33 34 28	15,921 15,191 18,534 18,767 20,859 22,523 23,109 23,957 25,393 26,658 26,541 26,636 27,412 27,986 27,412 27,986 27,485 28,470 27,810 2,329 1,946 1,949	Electric Power 910 1,900 2,739 4,076 6,104 7,075 7,087 6,597 7,068 7,068 7,067 8,029 8,145 7,959 8,222 8,161 8,215 8,455 8,427 775 672 703	eléctric Powerd 2,827 3,122 2,867 3,014 3,149 3,528 3,581 3,241 3,218 2,768 2,209 2,650 2,781 2,656 2,670 2,839 2,430 2,494 228 172 211	thermal 20 34 53 97 161 138 148 150 151 152 144 142 147 148 148 147 145 146 13 11	PV NA NA (s) 4 5 5 5 5 5 5 6 6 6 5 6 6 5 5 6 6 9	NA NA (s) 29 33 34 31 46 57 70 105 115 142 178 264 341 546	mass 3 2 4 14 317 422 438 446 444 453 337 380 397 388 406 412 423 435	2,851 3,158 2,925 3,524 3,524 4,153 4,216 3,872 3,872 3,872 3,288 3,445 3,340 3,406 3,665 3,345 3,630	tricity Net Imports 49 21 71 140 8 134 137 116 8 8 99 115 75 72 22 39 85 63 107 112	Primary 19,731 20,270 24,269 26,032 30,495 34,485 34,485 34,485 36,976 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,016 38,017 39,978
1975 Total 8, 1980 Total 12, 1985 Total 14, 1990 Total ^e 16, 1995 Total 17, 1996 Total 18, 1997 Total 18, 1997 Total 18, 1997 Total 19, 1998 Total 19, 1997 Total 19, 1998 Total 19, 2000 Total 20, 2001 Total 20, 2002 Total 20, 2003 Total 20, 2005 Total 20, 2006 Total 20, 2007 Total 20, 2008 Total 20, 2009 January 1, February 1, March 1, July 1, September 1, October 1, November 1, December 1, Netal 18, 2010 January 1, Total 18, December 1, Nech	786 123 542 261 466 429 905 279 220 614 783 185 305 737 462 808 513 769 450 404 310 375 541 645	3,240 3,778 3,309 4,302 3,862 4,126 4,675 5,293 5,458 5,546 5,595 6,015 5,546 5,595 6,6375 7,005 6,829 409 464 511 461 526	3,163 2,634 1,090 1,289 755 817 927 1,306 1,211 1,144 1,271 1,241 1,241 1,241 1,241 1,241 1,225 1,212 1,235 648 657 468 657 468 61 33 34 28	15,191 18,534 18,767 20,859 22,523 23,109 25,393 26,638 26,514 26,636 27,485 27,485 28,470 27,810 2,329 1,946 1,949 1,799	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 8,427 775 672 703	3,122 2,867 2,937 3,014 3,528 3,581 3,241 3,241 3,218 2,768 2,209 2,650 2,781 2,656 2,650 2,781 2,656 2,670 2,839 2,430 2,494 228 172 211	34 53 97 161 138 148 150 151 152 144 142 147 148 148 148 147 145 145 146	NA NA (S) 5 5 5 5 5 5 5 6 6 5 6 6 5 6 6 5 6 9	NA NA (s) 29 33 33 34 31 46 57 70 105 115 142 178 264 341 546	2 4 14 317 422 438 446 444 453 453 337 380 397 388 406 412 423 435	3,158 2,925 3,049 3,524 3,524 3,4216 3,872 3,872 3,872 3,872 3,427 2,763 3,445 3,445 3,340 3,4065 3,345 3,630	21 71 140 8 134 137 116 88 99 115 75 72 22 39 85 63 107 112	20,270 24,269 26,032 30,495 33,479 34,886 36,225 36,976 38,062 37,215 38,016 38,016 38,013 38,713 39,638 39,428 40,377 39,978
1975 Total 8; 1980 Total 12; 1980 Total 14; 1990 Total ^e 16; 1995 Total 17, 1995 Total 18, 1997 Total 18, 1997 Total 19, 1998 Total 19, 1997 Total 19, 1998 Total 19, 1999 Total 19, 2000 Total 20, 2001 Total 20, 2002 Total 19, 2003 Total 20, 2004 Total 20, 2005 Total 20, 2006 Total 20, 2007 Total 20, 2008 Total 20, 2009 January 1, February 1, March 1, Jule 1, September 1, October 1, November 1, December 1, December 1, Natrch 1, April 1, November 1, Netal 1, March 1, April 1, March 1, April 1, </td <td>786 123 542 261 466 429 905 279 220 614 783 185 305 737 462 808 513 769 450 404 310 375 541 645</td> <td>3,240 3,778 3,309 4,302 3,862 4,126 4,675 5,293 5,458 5,546 5,595 6,015 5,546 5,595 6,6375 7,005 6,829 409 464 511 461 526</td> <td>3,163 2,634 1,090 1,289 755 817 927 1,306 1,211 1,144 1,271 1,241 1,241 1,241 1,241 1,241 1,225 1,212 1,235 648 657 468 657 468 61 33 34 28</td> <td>15,191 18,534 18,767 20,859 22,523 23,109 25,393 26,638 26,514 26,636 27,485 27,485 28,470 27,810 2,329 1,946 1,949 1,799</td> <td>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 8,427 7,75 6,72 7,03</td> <td>3,122 2,867 2,937 3,014 3,528 3,581 3,241 3,241 3,218 2,768 2,209 2,650 2,781 2,656 2,650 2,781 2,656 2,670 2,839 2,430 2,494 228 172 211</td> <td>53 97 161 138 148 150 151 152 144 142 147 148 148 148 147 145 146 13 11</td> <td>NA NA (S) 5 5 5 5 5 5 5 6 6 5 6 6 5 6 6 5 6 9</td> <td>NA (s) 29 33 33 34 31 46 57 70 105 115 142 178 264 341 546</td> <td>4 14 317 422 438 446 444 453 453 337 380 397 388 406 412 423 435</td> <td>3,158 2,925 3,049 3,524 3,524 3,4216 3,872 3,872 3,872 3,872 3,427 2,763 3,445 3,445 3,340 3,4065 3,345 3,630</td> <td>21 71 140 8 134 137 116 88 99 115 75 72 22 39 85 63 107 112</td> <td>20,270 24,269 26,032 30,495 33,479 34,886 36,225 36,976 38,062 37,215 38,016 38,016 38,013 38,713 39,638 39,428 40,377 39,978</td>	786 123 542 261 466 429 905 279 220 614 783 185 305 737 462 808 513 769 450 404 310 375 541 645	3,240 3,778 3,309 4,302 3,862 4,126 4,675 5,293 5,458 5,546 5,595 6,015 5,546 5,595 6,6375 7,005 6,829 409 464 511 461 526	3,163 2,634 1,090 1,289 755 817 927 1,306 1,211 1,144 1,271 1,241 1,241 1,241 1,241 1,241 1,225 1,212 1,235 648 657 468 657 468 61 33 34 28	15,191 18,534 18,767 20,859 22,523 23,109 25,393 26,638 26,514 26,636 27,485 27,485 28,470 27,810 2,329 1,946 1,949 1,799	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 8,427 7,75 6,72 7,03	3,122 2,867 2,937 3,014 3,528 3,581 3,241 3,241 3,218 2,768 2,209 2,650 2,781 2,656 2,650 2,781 2,656 2,670 2,839 2,430 2,494 228 172 211	53 97 161 138 148 150 151 152 144 142 147 148 148 148 147 145 146 13 11	NA NA (S) 5 5 5 5 5 5 5 6 6 5 6 6 5 6 6 5 6 9	NA (s) 29 33 33 34 31 46 57 70 105 115 142 178 264 341 546	4 14 317 422 438 446 444 453 453 337 380 397 388 406 412 423 435	3,158 2,925 3,049 3,524 3,524 3,4216 3,872 3,872 3,872 3,872 3,427 2,763 3,445 3,445 3,340 3,4065 3,345 3,630	21 71 140 8 134 137 116 88 99 115 75 72 22 39 85 63 107 112	20,270 24,269 26,032 30,495 33,479 34,886 36,225 36,976 38,062 37,215 38,016 38,016 38,013 38,713 39,638 39,428 40,377 39,978
1985 Total 14 1990 Total ^e 16, 1995 Total 17, 1996 Total 18, 1997 Total 18, 1997 Total 19, 1998 Total 19, 1999 Total 19, 2000 Total 20, 2001 Total 19, 2002 Total 19, 2003 Total 20, 2004 Total 20, 2005 Total 20, 2006 Total 20, 2007 Total 20, 2008 Total 20, 2009 January 1, March 1, July 1, July 1, April 1, November 1, November 1, November 1, November 1, Total 18, 2010 January 1, March 1, March 1, March 1,	542 261 466 429 905 270 614 783 305 737 737 462 808 513 769 450 404 310 375 541 645	3,135 3,309 4,302 3,862 4,126 4,676 5,293 5,283 5,767 5,246 6,015 6,015 6,015 6,829 499 464 511 461 526	1,090 1,289 755 817 927 1,306 1,211 1,211 1,211 1,211 1,211 1,211 1,215 1,215 1,225 1,225 648 657 468 61 33 34 28	18,767 20,859 22,523 23,109 23,957 25,393 26,658 26,548 26,541 26,548 26,541 27,986 27,472 27,986 27,475 28,470 27,810 2,329 1,946 1,949 1,799	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 8,427 775 672 703	2,937 3,014 3,149 3,528 3,581 3,218 2,768 2,209 2,650 2,781 2,656 2,650 2,839 2,430 2,430 2,430 2,494 228 172 211	97 161 138 148 150 151 152 144 142 147 145 145 145 146 13 11	(s) 4 5 5 5 5 5 5 5 6 6 5 6 6 5 6 9	(s) 29 33 34 31 46 57 70 105 115 142 178 264 341 546	14 317 422 438 446 453 453 453 337 380 397 388 406 412 423 435	3.049 3,524 3,747 4,153 4,216 3,872 3,874 3,427 2,763 3,288 3,445 3,340 3,445 3,340 3,665 3,345 3,630	140 8 134 137 116 88 99 115 75 72 22 22 39 85 63 107 112	26,032 30,495 33,479 34,485 36,225 36,976 38,062 37,215 38,016 38,062 38,713 39,638 39,428 40,377 39,978
1990 Total [®] 16, 1995 Total 17, 1996 Total 18, 1997 Total 18, 1998 Total 19, 2000 Total 20, 2001 Total 19, 2002 Total 19, 2003 Total 20, 2004 Total 20, 2005 Total 20, 2006 Total 20, 2006 Total 20, 2008 Total 20, 2009 Total 20, 2008 Total 20, 2009 Total 10, April 1, July 1, July 1, April 1, November 1, December<	261 466 429 905 216 279 220 614 783 185 305 737 462 808 513 769 450 450 450 404 310 375 541 645	3,309 4,302 3,862 4,126 4,675 5,293 5,458 5,5767 5,246 5,595 5,767 5,246 5,595 6,015 6,375 7,005 6,375 7,005 6,375 7,005 6,375 7,005 6,375	1,289 755 817 927 1,306 1,211 1,144 1,271 1,205 1,212 1,235 648 657 468 657 468 61 33 34 28	20,859 22,523 23,109 23,957 25,393 26,658 26,514 26,636 27,412 27,985 27,485 28,470 27,810 2,329 1,946 1,949 1,799	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 8,427 775 672 703	3,014 3,149 3,528 3,581 3,241 3,218 2,768 2,768 2,650 2,781 2,656 2,650 2,781 2,656 2,670 2,839 2,430 2,494 228 172 211	161 138 148 150 151 152 144 142 147 148 148 147 145 145 146	455555566566569	29 33 34 31 46 57 70 105 115 115 142 178 264 341 546	317 422 438 446 444 453 337 380 397 388 406 412 423 435	3,524 3,747 4,153 4,216 3,872 3,874 3,874 2,763 3,288 3,445 3,340 3,406 3,665 3,345 3,630	8 134 137 116 88 99 115 75 72 22 39 85 63 107 112	30,495 33,479 34,886 36,225 36,976 38,062 37,215 38,0162 38,0162 38,0162 38,0162 38,713 39,638 39,428 40,377 39,978
1995 Total 17, 1996 Total 18, 1997 Total 18, 1997 Total 19, 1998 Total 19, 1999 Total 20, 2001 Total 20, 2001 Total 20, 2002 Total 20, 2003 Total 20, 2004 Total 20, 2005 Total 20, 2006 Total 20, 2007 Total 20, 2008 Total 20, 2009 January 1, February 1, March 1, Jule 1, July 1, April 1, September 1, November 1, December 1, November 1, March 1, March 1, March 1, March 1, March 1, April 1, March 1, May 1,	466 429 905 216 279 220 614 783 305 737 462 808 513 769 450 404 310 375 541 645	4,302 3,862 4,126 4,675 4,902 5,293 5,458 5,5458 5,545 6,015 6,375 7,005 6,829 464 511 461 526 6,56	755 817 927 1,306 1,211 1,217 1,212 1,212 1,212 1,225 648 657 468 61 33 34 28 28	22,523 23,957 25,197 25,393 26,658 26,348 26,514 26,6514 26,6514 27,112 27,986 27,112 27,986 27,470 27,810 2,329 1,946 1,949 1,799	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 8,427 7,75 672 703	3,149 3,528 3,581 3,241 3,218 2,768 2,209 2,650 2,781 2,656 2,670 2,839 2,430 2,494 228 172 211	138 148 150 151 152 144 142 147 148 148 147 145 145 146 13 11	5555566566569	33 33 34 31 46 57 70 105 115 142 178 264 341 546	422 438 446 444 453 337 380 397 388 406 412 423 435	3,747 4,153 4,216 3,872 3,874 3,427 2,763 3,288 3,445 3,340 3,406 3,665 3,345 3,345 3,630	134 137 116 88 99 115 75 72 22 39 85 63 107 112	33,479 34,485 34,886 36,225 36,976 38,062 37,215 38,016 38,062 38,713 39,638 39,428 40,377 39,978
1996 Total 18, 1997 Total 18, 1997 Total 19, 1998 Total 19, 1998 Total 19, 1999 Total 19, 1999 Total 19, 1990 Total 20, 2000 Total 19, 2001 Total 20, 2001 Total 20, 2003 Total 20, 2004 Total 20, 2005 Total 20, 2006 Total 20, 2007 Total 20, 2008 Total 20, 2009 January 1, March 1, July 1, July 1, July 1, April 1, November 1, November 1, November 1, Total 18, 2010 January 1, February 1, March 1, April 1, </td <td>429 905 276 279 220 614 783 305 737 7462 808 513 769 450 404 310 375 541 645</td> <td>3,862 4,126 4,675 4,675 5,293 5,246 5,567 5,246 5,595 6,015 6,015 6,015 6,015 6,015 6,829 409 464 511 461 526 656</td> <td>817 927 1,306 1,211 1,144 1,277 961 1,205 1,212 1,235 648 657 468 61 33 34 28 28</td> <td>23,109 23,957 25,197 25,393 26,658 26,548 26,541 26,656 27,112 27,986 27,112 27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,799</td> <td>7,087 6,597 7,068 7,610 7,862 8,029 8,145 7,959 8,222 8,161 8,215 8,455 8,427 775 672 703</td> <td>3,528 3,581 3,241 3,218 2,768 2,209 2,650 2,781 2,656 2,670 2,839 2,430 2,430 2,494 228 172 211</td> <td>148 150 151 144 142 147 148 148 147 145 145 146 13 11</td> <td>5555566566569</td> <td>33 34 31 46 57 70 105 115 142 178 264 341 546</td> <td>438 446 453 453 337 380 397 388 406 412 423 435</td> <td>4,153 4,216 3,872 3,874 3,427 2,763 3,288 3,445 3,340 3,406 3,665 3,345 3,630</td> <td>137 116 88 99 115 75 72 22 39 85 63 107 112</td> <td>34,485 34,886 36,225 36,976 38,076 38,016 38,062 38,713 39,638 39,428 40,377 39,978</td>	429 905 276 279 220 614 783 305 737 7462 808 513 769 450 404 310 375 541 645	3,862 4,126 4,675 4,675 5,293 5,246 5,567 5,246 5,595 6,015 6,015 6,015 6,015 6,015 6,829 409 464 511 461 526 656	817 927 1,306 1,211 1,144 1,277 961 1,205 1,212 1,235 648 657 468 61 33 34 28 28	23,109 23,957 25,197 25,393 26,658 26,548 26,541 26,656 27,112 27,986 27,112 27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,799	7,087 6,597 7,068 7,610 7,862 8,029 8,145 7,959 8,222 8,161 8,215 8,455 8,427 775 672 703	3,528 3,581 3,241 3,218 2,768 2,209 2,650 2,781 2,656 2,670 2,839 2,430 2,430 2,494 228 172 211	148 150 151 144 142 147 148 148 147 145 145 146 13 11	5555566566569	33 34 31 46 57 70 105 115 142 178 264 341 546	438 446 453 453 337 380 397 388 406 412 423 435	4,153 4,216 3,872 3,874 3,427 2,763 3,288 3,445 3,340 3,406 3,665 3,345 3,630	137 116 88 99 115 75 72 22 39 85 63 107 112	34,485 34,886 36,225 36,976 38,076 38,016 38,062 38,713 39,638 39,428 40,377 39,978
1997 Total 18, 1998 Total 19, 1999 Total 19, 1999 Total 19, 2000 Total 20, 2001 Total 20, 2002 Total 19, 2003 Total 20, 2004 Total 20, 2005 Total 20, 2006 Total 20, 2007 Total 20, 2006 Total 20, 2007 Total 20, 2008 Total 20, 2009 January 1, February 1, March 1, Jule 1, July 1, September 1, October 1, November 1, December 1, Total 18, 2010 January 1, Total 18, March 1, March 1, May 1, May 1,	905 216 279 220 614 783 185 305 737 462 808 513 769 450 450 404 310 375 541 645	4,126 4,675 4,902 5,293 5,248 5,767 5,246 6,015 6,375 6,375 6,829 469 464 511 461 526 656	927 1,306 1,211 1,144 1,277 961 1,212 1,225 1,212 1,235 648 657 468 61 33 34 28 28	23,957 25,393 26,658 26,348 26,511 26,636 27,112 27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,799	6,597 7,068 7,610 7,862 8,029 8,145 7,959 8,222 8,161 8,215 8,455 8,427 775 672 703	3,581 3,241 3,218 2,768 2,209 2,650 2,781 2,656 2,670 2,839 2,430 2,430 2,494 228 172 211	150 151 152 144 142 147 148 147 148 148 145 145 145 146	55556656569	34 31 46 57 70 105 115 142 178 264 341 546	446 444 453 453 337 380 397 388 406 412 423 435	4,216 3,872 3,874 3,427 2,763 3,288 3,445 3,340 3,406 3,665 3,345 3,345 3,630	116 88 99 115 75 72 22 39 85 63 107 112	34,886 36,225 36,976 38,062 37,215 38,016 38,062 38,713 39,638 39,428 40,377 39,978
1998 Total 19; 1999 Total 19; 1999 Total 20; 1999 Total 20; 2000 Total 20; 2001 Total 19; 2002 Total 20; 2003 Total 20; 2003 Total 20; 2005 Total 20; 2006 Total 20; 2006 Total 20; 2008 Total 20; 2009 January 1; February 1; March 1; July 1; July 1; July 1; September 1; November 1; Total 18; 2010 January 1; February 1; March 1; March 1; March 1; April 1; March 1; April 1; March 1; March 1; March 1; <t< td=""><td>216 279 220 614 783 185 305 737 462 808 513 769 450 404 310 375 5541 645</td><td>4,675 4,902 5,293 5,458 5,458 5,567 5,246 5,595 6,015 6,375 7,005 6,829 464 511 464 511 526 6,556</td><td>1,306 1,211 1,144 1,277 961 1,205 1,212 1,235 648 657 468 61 33 34 28 32</td><td>25,197 25,393 26,658 26,348 26,511 26,636 27,112 27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,799</td><td>7,068 7,610 7,862 8,029 8,145 7,959 8,222 8,161 8,215 8,455 8,427 775 672 703</td><td>3,241 3,218 2,768 2,209 2,650 2,650 2,670 2,839 2,430 2,430 2,430 2,494 228 172 211</td><td>151 152 144 142 147 148 148 148 147 145 145 145 146 13 11</td><td>55566569 9</td><td>31 46 57 70 105 115 142 178 264 341 546</td><td>444 453 453 337 380 397 388 406 412 423 435</td><td>3,872 3,874 3,427 2,763 3,288 3,445 3,340 3,406 3,665 3,345 3,345 3,630</td><td>88 99 115 75 72 22 39 85 63 107 112</td><td>36,225 36,976 38,062 37,215 38,016 38,062 38,713 39,638 39,428 40,377 39,978</td></t<>	216 279 220 614 783 185 305 737 462 808 513 769 450 404 310 375 5541 645	4,675 4,902 5,293 5,458 5,458 5,567 5,246 5,595 6,015 6,375 7,005 6,829 464 511 464 511 526 6,556	1,306 1,211 1,144 1,277 961 1,205 1,212 1,235 648 657 468 61 33 34 28 32	25,197 25,393 26,658 26,348 26,511 26,636 27,112 27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,799	7,068 7,610 7,862 8,029 8,145 7,959 8,222 8,161 8,215 8,455 8,427 775 672 703	3,241 3,218 2,768 2,209 2,650 2,650 2,670 2,839 2,430 2,430 2,430 2,494 228 172 211	151 152 144 142 147 148 148 148 147 145 145 145 146 13 11	55566569 9	31 46 57 70 105 115 142 178 264 341 546	444 453 453 337 380 397 388 406 412 423 435	3,872 3,874 3,427 2,763 3,288 3,445 3,340 3,406 3,665 3,345 3,345 3,630	88 99 115 75 72 22 39 85 63 107 112	36,225 36,976 38,062 37,215 38,016 38,062 38,713 39,638 39,428 40,377 39,978
1999 Total 19; 2000 Total 20; 2001 Total 19; 2001 Total 19; 2002 Total 19; 2003 Total 20; 2004 Total 20; 2005 Total 20; 2006 Total 20; 2007 Total 20; 2006 Total 20; 2007 Total 20; 2008 Total 20; 2009 January 1; March 1; June 1; July 1; April 1; November 1; November 1; Total 18; 2010 January 1; March 1; March 1; May 1; March 1; March 1; May 1;	279 220 614 783 185 305 737 462 808 513 769 450 404 310 375 541 645	4,902 5,293 5,458 5,767 5,767 5,246 5,595 6,375 7,005 6,375 7,005 6,375 7,005 6,375 7,005 6,329 464 511 464 511 526 656	1,211 1,144 1,277 961 1,205 1,212 1,235 648 657 468 61 33 34 28 32	25,393 26,658 26,348 26,511 26,636 27,112 27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,799	7,610 7,862 8,029 8,145 7,959 8,222 8,161 8,215 8,455 8,427 775 672 703	3,218 2,768 2,209 2,650 2,781 2,656 2,670 2,839 2,430 2,494 228 172 211	152 144 142 147 148 148 148 147 145 145 145 146 13 11	556656 566569	57 70 105 115 142 178 264 341 546	453 337 380 397 388 406 412 423 435	3,874 3,427 2,763 3,288 3,445 3,340 3,406 3,665 3,345 3,630	99 115 75 72 22 39 85 63 107 112	36,976 38,062 37,215 38,016 38,062 38,713 39,638 39,428 40,377 39,978
2000 Total 20, 2001 Total 19, 2001 Total 19, 2001 Total 19, 2002 Total 19, 2003 Total 20, 200, 200, 200, 200, 200, 200, 200,	614 783 185 305 737 462 808 513 769 450 404 310 375 541 645	5,458 5,767 5,246 5,595 6,015 6,375 7,005 6,829 409 464 511 461 526 656	1,277 961 1,205 1,212 1,235 648 657 468 61 33 34 28 32	26,348 26,511 26,636 27,112 27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,799	8,029 8,145 7,959 8,222 8,161 8,215 8,455 8,455 8,427 775 672 703	2,209 2,650 2,781 2,656 2,670 2,839 2,430 2,494 228 172 211	142 147 148 148 147 145 145 146 13 11	6 5 6 5 6 9	70 105 115 142 178 264 341 546	337 380 397 388 406 412 423 435	2,763 3,288 3,445 3,340 3,406 3,665 3,345 3,630	75 72 29 85 63 107 112	37,215 38,016 38,062 38,713 39,638 39,428 40,377 39,978
2002 Total 19, 2003 Total 20, 2004 Total 20, 2005 Total 20, 2005 Total 20, 2006 Total 20, 2007 Total 20, 2008 Total 20, 2008 Total 20, 2009 January 1, February 1, March 1, June 1, July 1, July 1, April 1, August 1, November 1, November 1, Total 18, 2010 January 1, March 1, May 1, May 1,	783 185 305 737 462 808 513 769 450 404 310 375 541 645	5,767 5,246 5,595 6,015 6,375 7,005 6,829 499 464 511 461 526 656	961 1,205 1,212 1,235 648 657 468 61 33 34 28 32	26,511 26,636 27,112 27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,799	8,145 7,959 8,222 8,161 8,215 8,455 8,455 8,427 775 672 703	2,650 2,781 2,656 2,670 2,839 2,430 2,494 228 172 211	147 148 148 147 145 145 145 146 13 11	6 5 6 5 6 9	105 115 142 178 264 341 546	380 397 388 406 412 423 435	3,288 3,445 3,340 3,406 3,665 3,345 3,630	72 22 39 85 63 107 112	38,016 38,062 38,713 39,638 39,428 40,377 39,978
2003 Total 20, 2004 Total 20, 2005 Total 20, 2006 Total 20, 2006 Total 20, 2006 Total 20, 2007 Total 20, 2008 Total 20, 2009 January 1, March 1, May 1, June 1, June 1, July 1, September 1, October 1, November 1, December 1, Total 18, 2010 January 1, March 1, May 1,	185 305 737 462 808 513 769 450 404 310 375 5541 645	5,246 5,595 6,015 6,375 7,005 6,829 499 464 511 461 526 656	1,205 1,212 1,235 648 657 468 61 33 34 28 32	26,636 27,112 27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,799	7,959 8,222 8,161 8,215 8,455 8,427 775 672 703	2,781 2,656 2,670 2,839 2,430 2,494 228 172 211	148 148 147 145 145 146 13 11	5 6 5 6 9	115 142 178 264 341 546	397 388 406 412 423 435	3,445 3,340 3,406 3,665 3,345 3,630	22 39 85 63 107 112	38,062 38,713 39,638 39,428 40,377 39,978
2004 Total 20, 2005 Total 1, 7, May 1, 1, June 1, 1, September 1, 1, November 1, 1, November 1, 1, Total 18, 7, 11, 11, 11, 11, 11, 11, 11, 11, 11,	305 737 462 808 513 769 450 404 310 375 541 645	5,595 6,015 6,375 7,005 6,829 499 464 511 461 526 656	1,212 1,235 648 657 468 61 33 34 28 32	27,112 27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,799	8,222 8,161 8,215 8,455 8,427 775 672 703	2,656 2,670 2,839 2,430 2,494 228 172 211	148 147 145 145 146 13 11	6 6 5 6 9	142 178 264 341 546	388 406 412 423 435	3,340 3,406 3,665 3,345 3,630	39 85 63 107 112	38,713 39,638 39,428 40,377 39,978
2005 Total 20, 2006 Total 20, 2007 Total 20, 2008 Total 20, 2009 January 1, February 1, April 1, March 1, June 1, July 1, July 1, August 1, November 1, November 1, Total 18, 2010 January 1, March 1, Mayench 1, March 1, March 1, March 1, March 1, March 1, April 1,	737 462 808 513 769 450 404 310 375 541 645	6,015 6,375 7,005 6,829 499 464 511 461 526 656	1,235 648 657 468 61 33 34 28 32	27,986 27,485 28,470 27,810 2,329 1,946 1,949 1,799	8,161 8,215 8,455 8,427 775 672 703	2,670 2,839 2,430 2,494 228 172 211	147 145 145 146 13 11	6 5 6 9	178 264 341 546	406 412 423 435	3,406 3,665 3,345 3,630	85 63 107 112	39,638 39,428 40,377 39,978
2006 Total 20, 2007 Total 20, 2008 Total 20, 2008 Total 20, 2008 Total 20, 2009 Total 20, 2008 Total 20, 2009 January 1, May 1, June 1, Jule 1, July 1, September 1, October 1, November 1, December 1, Total 18, 2010 January 1, March 1, April 1, May 1,	462 808 513 769 450 404 310 375 541 645	6,375 7,005 6,829 499 464 511 461 526 656	648 657 468 61 33 34 28 32	27,485 28,470 27,810 2,329 1,946 1,949 1,799	8,215 8,455 8,427 775 672 703	2,839 2,430 2,494 228 172 211	145 145 146 13 11	5 6 9	264 341 546	412 423 435	3,665 3,345 3,630	63 107 112	39,428 40,377 39,978
2007 Total 20, 2008 Total 20, 2009 January 1, February 1, March 1, April 1, June 1, June 1, July 1, July 1, September 1, October 1, December 1, Total 18, Z010 January 1, March 1, Mary 1,	808 513 769 450 404 310 375 541 645	7,005 6,829 499 464 511 461 526 656	657 468 61 33 34 28 32	28,470 27,810 2,329 1,946 1,949 1,799	8,455 8,427 775 672 703	2,430 2,494 228 172 211	145 146 13 11	6 9	341 546	423 435	3,345 3,630	107 112	40,377 39,978
2008 Total 20, 2009 January 1, February 1, April 1, May 1, June 1, June 1, July 1, July 1, Aguist 1, November 1, December 1, Total 18, 2010 January 1, March 1, March 1, May 1, May 1, March 1,	513 769 450 404 310 375 541 645	6,829 499 464 511 461 526 656	468 61 33 34 28 32	27,810 2,329 1,946 1,949 1,799	8,427 775 672 703	2,494 228 172 211	146 13 11	9	546	435	3,630	112	39,978
February 1, March 1, April 1, May 1, June 1, July 1, July 1, August 1, August 1, October 1, November 1, December 1, Total 18, 2010 January 1, Karch 1, March 1, May 1,	450 404 310 375 541 645	464 511 461 526 656	33 34 28 32	1,946 1,949 1,799	672 703	172 211	11	(s)	=-	27			
March 1, April 1, May 1, June 1, July 1, July 1, August 1, September 1, October 1, December 1, Total 18, 2010 January 1, March 1, April 1,	404 310 375 541 645	511 461 526 656	34 28 32	1,949 1,799	703	211			58	37	336	7	3,446
April 1, May 1, June 1, July 1, July 1, July 1, September 1, October 1, December 1, December 1, Total 18, 2010 January 1, March 1, May 1,	310 375 541 645	461 526 656	28 32	1,799				(s)	57	34	276	8	2,901
May 1, June 1, July 1, August 1, September 1, October 1, November 1, December 1, Total 18, 2010 January 1, Karch 1, March 1, April 1,	375 541 645	526 656	32				13	1	69	38	332	4	2,988
June 1, July 1, August 1, September 1, October 1, December 1, December 1, Total 18, 2010 January 1, Karch 1, March 1, May 1,	541 645	656		1,933	621	250	12	1	73	33	369	6	2,795
July 1, August 1, September 1, October 1, December 1, December 1, Total 18, February 1, March 1, April 1, May 1,	645			2,230	684 729	287 284	12 12	1	61 55	34 37	395 388	9 11	3,022 3,359
August 1, September 1, October 1, November 1, December 1, Total 18, 2010 January 1, February 1, March 1, April 1, May 1,		795	34	2,230	729	204 227	12	1	55 48	37	300 328	14	3,359
September 1, October 1, November 1, December 1, Total 18, 2010 January 1, February 1, March 1, April 1, May 1,	691	858	37	2,587	756	190	12	1	53	39	296	15	3,653
October 1, November 1, December 1, Total 18, 2010 January 1, February 1, March 1, April 1, May 1,	436	705	29	2,169	688	168	12	1	45	36	262	11	3.130
November 1, December 1, Total 18, 2010 January 1, February 1, March 1, April 1, May 1,	455	548	26	2,029	607	191	12	1	67	35	305	11	2,952
December 1, Total 18, 2010 January 1, February 1, March 1, April 1, May 1,	426	467	20	1,913	618	204	12	(s)	67	37	320	9	2,860
2010 January	723	532	24	2,278	740	240	13	(s)	67	40	360	11	3,389
February 1, March 1, April 1, May 1,	225	7,022	390	25,638	8,356	2,650	146	9	721	441	3,967	116	38,077
March 1, April 1, May 1,	774	557	45	2,376	758	217	13	(s)	67	39	335	14	3,483
April 1,3 May 1,4	567	489 466	23	2,079	682	199 202	11	(s)	53	36	300 338	12	3,073
May 1,4		466 480	25 23	1,983 1,814	676 602	202 184	13 12	1	84 95	39 36	338 329	10 9	3,007 2,754
luno 1		480 570	23 31	2.083	697	243	12	1	85	36	378	9 5	3,163
June I.	707	719	41	2,467	714	290	12	2	79	39	421	9	3,610
July 1,8	854	914	46	2,814	752	238	12	2	66	40	358	10	3,933
August 1,8	848	961	37	2,846	748	195	13	2	65	41	315	6	3,916
September 1,	553	709	28	2,290	725	168	12	1	69	38	288	2	3,305
October 1,3	382	581	22	1,985	656	171	12	1	77	37	298	1	2,941
November 1,4	422 730	506 575	21 36	1,949 2,340	655 770	190 225	12 13	1	95 88	39 41	337 367	3 9	2,943 3.487
December 1, Total 19,		575 7,527	36 378	2,340 27,028	8,434	225 2,521	13 148	(s) 12	923	41 459	4,064	89	3,487 39,616
	759	553	33	2,345	760	254	14	(s)	84	38	391	9	3,505
February 1,4	435	492	23	1,949	677	239	13	(3)	103	35	390	8	3,024
March 1,4	412	492	26	1,930	686	308	14	1	103	38	463	8	3,088
April 1,3	309	536	23	1,868	570	307	13	2	121	33	476	7	2,921
May 1,4	434	589	22	2,045	596	321	14	2	113	35	486	12	3,139
	642	718	25	2,385	682	313	13	2	106	38	473	11	3,551
	838 798	960 941	31 25	2,829 2,764	756 746	307 256	13 13	2	72 72	40 39	434 383	16 16	4,036 3,908
	798 493	699	25 22	2,764 2,215	746 699	256 209	13	2	67	39 37	383	10	3,908
	493 355	589	19	1,964	662	194	13	2	104	36	349	10	2,984
	305	554	17	1,876	674	207	13	1	120	36	377	8	2,935
11-Month Total 16,		7,123	267	24,170	7,509	2,913	149	17	1,066	405	4,549	116	36,344
2010 11-Month Total 17,5 2009 11-Month Total 16,5		6,951 6,489	343 366	24,686 23,358	7,664 7,616	2,297 2,410	136 133	11 8	835 654	419 401	3,697 3,607	80 105	36,128 34,686

^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 producers.

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 and useful thermal

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.

3. Petroleum

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Figure 3.1 Petroleum Overview (Million Barrels per Day)

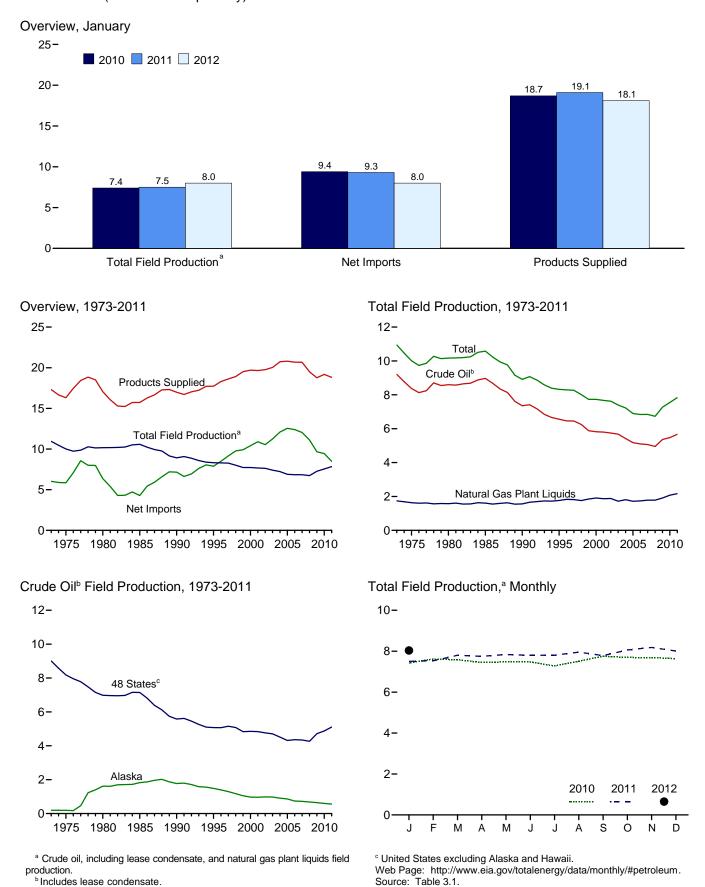


Table 3.1 **Petroleum Overview**

(Thousand Barrels per Day)

		Fie	ld Produc	tion ^a		Demour			Trade				
	48 States ^c	Crude Oil Alaska	Total	NGPL ^{d,e}	Total	Renew- able Fuels and Oxy- genates ^f	Process- ing Gain ^g	lm- ports ^h	Ex- ports ^e	Net Imports ⁱ	Stock Change ^j	Adjust- ments ^k	Petroleum Products Supplied
1973 Average 1975 Average 1980 Average 1985 Average 1990 Average 1995 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 2007 Average 2008 Average	9,010 8,183 6,980 7,146 5,582 5,077 4,832 4,851 4,851 4,851 4,851 4,851 4,314 4,314 4,314 4,342 4,268	198 191 1,617 1,825 1,773 1,484 1,393 1,296 1,175 1,050 970 964 974 974 908 864 741 722 683	9,208 8,375 8,597 7,355 6,560 6,465 6,452 6,252 5,881 5,822 5,881 5,746 5,681 5,419 5,178 5,178 5,178 5,1064 4,950	1,738 1,633 1,573 1,609 1,559 1,850 1,817 1,759 1,850 1,817 1,850 1,818 1,880 1,719 1,889 1,717 1,739 1,783 1,784	10,946 10,007 10,581 8,914 8,295 8,269 8,011 7,731 7,673 7,626 7,400 7,626 6,845 6,847 6,847 6,734	NA NA NA NA NA NA NA NA NA NA NA NA NA N	453 460 597 557 683 774 837 850 886 886 886 886 886 886 903 957 974 1,051 989 997 999 999	6,256 6,056 6,909 5,067 8,018 8,835 9,478 10,162 10,708 10,852 11,459 11,871 11,530 12,264 13,714 13,714 13,707 13,468 12,915	231 209 544 781 857 949 981 1,003 945 940 1,040 1,040 1,040 984 1,027 1,048 1,165 1,315 1,433 1,802	6,025 5,846 6,365 4,286 7,161 7,886 8,498 9,158 9,764 9,912 10,419 10,546 11,238 12,037 12,549 12,303 12,036 11,114	135 32 140 -103 107 -246 -151 143 239 -422 -69 325 -105 56 209 145 56 60 00 -148 195	18 41 64 200 338 496 528 487 495 567 532 501 527 478 564 513 522 653 852	17,308 16,322 17,056 15,726 16,988 17,725 18,309 18,620 18,917 19,519 19,761 20,034 20,731 20,687 20,680 19,498
2009 January February March June July August September October December December Average	4,475 4,552 4,518 4,621 4,701 4,711 4,851 4,846 4,895 4,842 4,765 4,796 4,715	679 708 709 653 571 551 572 652 658 662 655 645	5,154 5,260 5,227 5,273 5,379 5,281 5,402 5,418 5,547 5,547 5,427 5,451 5,427 5,451 5,451	1,711 1,824 1,891 1,888 1,954 1,927 1,908 1,920 1,962 1,976 1,996 1,959 1,910	6,865 7,083 7,118 7,161 7,333 7,208 7,310 7,337 7,509 7,477 7,423 7,411 7,270	663 686 684 681 714 741 773 783 771 785 833 838 838 746	950 931 912 982 974 1,038 986 1,003 1,007 961 945 1,030 979	13,127 12,095 12,446 11,962 11,477 11,936 11,830 11,183 11,756 10,878 11,105 10,534 11,691	1,922 1,808 1,838 1,900 2,015 1,963 2,348 2,119 2,105 2,223 2,029 1,996 2,024	11,205 10,287 10,609 10,061 9,461 9,973 9,064 9,651 8,655 9,076 8,538 9,667	933 394 839 445 488 441 180 -525 488 -748 -374 -1,213 109	290 229 236 231 217 308 256 238 124 177 103 208 218	19,040 18,822 18,719 18,672 18,211 18,828 18,626 18,949 18,594 18,594 18,503 18,753 19,237 18,771
2010 January February March April June July August September October December December Average	4,766 4,943 4,859 4,750 4,821 4,892 4,743 4,902 5,038 4,902 5,038 4,952 4,947 4,896 4,875	640 635 646 569 533 545 538 614 618 606 612 599	5,406 5,578 5,505 5,390 5,425 5,288 5,440 5,652 5,571 5,553 5,507 5,474	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	7,423 7,621 7,581 7,451 7,480 7,471 7,281 7,511 7,515 7,696 7,689 7,632 7,548	846 874 895 878 893 905 911 915 924 967 967 907	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 8,488 8,488 8,488 9,441	309 -46 77 762 661 373 440 214 -23 -451 -667 -1,068 49	326 52 163 356 343 308 304 384 205 228 105 386 265	18,652 18,850 19,099 19,044 18,866 19,537 19,319 19,662 19,438 18,974 18,977 19,722 19,722 19,180
2011 January February March June July September October November December Average	E 5,022 E 4,987 E 5,030 E 5,071 E 5,157 E 5,227 E 5,056 E 5,218 RE 5,249 E 5,257	E 464 E 611 E 606 E 553 E 453 E 453 E 526 E 585 E 566 E 593 E 598 E 598 E 598	E 5,483 E 5,612 E 5,633 E 5,594 E 5,612 E 5,612 E 5,612 E 5,612 E 5,612 E 5,612 E 5,612 E 5,614 E 5,754 E 5,641 E 5,784 RE 5,842 E 5,855 RE 5,671	2,022 1,920 2,168 2,157 2,222 2,176 2,193 2,201 2,145 2,274 R 2,342 E 2,153 RE 2,166	E 7,504 E 7,531 E 7,801 E 7,805 E 7,805 E 7,804 E 7,954 E 7,954 E 7,954 E 8,058 RE 8,184 E 8,008 RE 7,837	957 941 956 934 934 935 936 937 944 897 892 E 995 RE 953	1,067 980 1,027 1,001 1,083 1,101 1,125 1,132 1,132 1,132 1,136 R 1,117 E 1,071 RE 1,079	11,954 10,503 11,593 11,592 11,669 11,794 11,667 11,145 11,209 10,994 ^R 11,166 ^E 10,838 ^{RE} 11,350	2,687 2,575 2,660 2,903 2,642 2,607 2,919 3,071 3,158 3,104 R 3,182 E 2,880 RE 2,867	9,266 7,929 8,933 8,689 9,028 9,187 8,748 8,074 8,051 7,890 R 7,985 E 7,958 RE 8,483	318 -1,069 -126 218 926 96 399 -623 -659 -359 ^R 65 E -181 RE -75	645 418 405 450 340 343 412 230 206 ^R 522 ^E 294 RE 389	19,121 18,869 19,248 18,613 18,363 19,277 18,555 19,153 18,795 18,795 18,734 E 18,507 RE 18,816
2012 January	^E 5,156	^E 593	^E 5,749	^E 2,285	^E 8,034	E 1,000	^E 1,061	E 10,921	^E 2,914	^E 8,006	^E 369	^E 367	E 18,099

^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."

 vdjustments."
 b

 b
 Includes lease condensate.

 c
 United States excluding Alaska and Hawaii.

 d
 Natural gas plant liquids.

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

 f
 Renewable fuels and oxygenate plant net production.

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

 e
 Table 3.2.

See Table 3.2. ^h Includes Strategic Petroleum Reserve imports. See Table 3.3b.

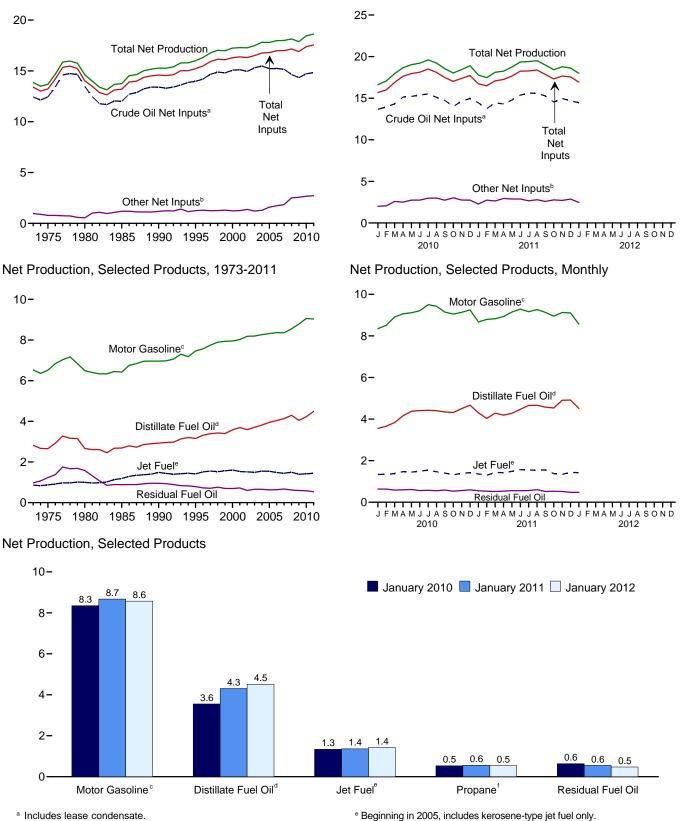
Net imports equal imports minus exports. J A negative value indicates a decrease in stocks and a positive value indicates an increase. The current month stock change estimate is based on the change from the previous month's estimate, rather than the stocks values shown in Table 3.4. Includes crude oil stocks in the Strategic Petroleum Reserve, but excludes

distillate fuel oil stocks in the Northeast Heating Oil Reserve. See Table 3.4. Also see Note 4, "Petroleum New Stock Basis," at end of section. ^k An adjustment for crude oil, hydrogen, oxygenates, renewable fuels, other hydrocarbons, motor gasoline blending components, finished motor gasoline, and distillate fuel oil. See U.S. Energy Information Administration (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/petroleum/. Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • 1976-1980: EIA, Petroleum Statement, Annual, annual reports. • 1981-2010: EIA, *Petroleum Supply Annual*, annual reports. • 2011 and 2012: EIA, *Petroleum Status Report* data system calculations.

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

Net Inputs and Net Production, 1973-2011

Net Inputs and Net Production, Monthly



^a Includes lease condensate.

^b Natural gas plant liquids and other liquids.

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

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

f Includes propylene.

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

Table 3.2 Refinery and Blender Net Inputs and Net Production

(Thousand Barrels per Day)

	Refin	ery and Ble	ender Net I	nputs ^a			Refinery	and Blen	der Net Proc	duction ^b		
							LPG	c				
	Crude Oil ^d	NGPL ^e	Other Liquids ^f	Total	Distillate Fuel Oil ^g	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 1990 Average		509 467	681 713	13,192 14,589	2,686 2,925	1,189 1,488	295 404	391 499	6,419 6,959	882 950	2,183 2,452	13,750 15,272
1995 Average		471	775	15,220	3,155	1,416	503	654	7,459	788	2,522	15,994
1996 Average		450	843	15,487	3,316	1,515	520	662	7,565	726	2,541	16,324
1997 Average	14,662	416	832	15,909	3,392	1,554	565	691	7,743	708	2,671	16,759
1998 Average	14,889	403	853	16,144	3,424	1,526	550	674	7,892	762	2,753	17,030
1999 Average	14,804	372	927 849	16,103	3,399	1,565	569	684	7,934	698	2,709	16,989
2000 Average 2001 Average	15,067 15,128	380 429	849 825	16,295 16,382	3,580 3,695	1,606 1,530	583 556	705 667	7,951 8,022	696 721	2,705 2,651	17,243 17,285
2001 Average	14,947	429	941	16,316	3,592	1,514	572	671	8,183	601	2,031	17,203
2003 Average		419	791	16,513	3,707	1.488	570	658	8,194	660	2,780	17,487
2004 Average	15,475	422	866	16,762	3,814	1,547	584	645	8,265	655	2,887	17,814
2005 Average	15,220	441	1,149	16,811	3,954	1,546	540	573	8,318	628	2,782	17,800
2006 Average	15,242	501	1,238	16,981	4,040	1,481 1.448	543	627	8,364	635	2,827	17,975 17.994
2007 Average 2008 Average	15,156 14,648	505 485	1,337 2,019	16,999 17,153	4,133 4,294	1,493	562 519	655 630	8,358 8,548	673 620	2,728 2,561	18,146
2009 January		552	1,777	16,476	4,284	1,409	479	383	8,445	585	2,321	17,426
February		493	1,883	16,509	4,231	1,391	483	471	8,408	571	2,367	17,440
March	14,118 14,382	447 416	2,089 2,264	16,654 17,062	3,939 4,132	1,373 1,432	519 542	618 782	8,646 8,724	583 475	2,407 2,499	17,566 18,044
April May		410	2,204	17,002	4,132	1,432	554	798	8,793	605	2,499	18,155
June		429	2,323	17,602	4,000	1,404	566	847	9,068	613	2,662	18,641
July	14,636	437	2,279	17,352	3,929	1,515	554	809	8,952	586	2,546	18,337
August		404	2,218	17,214	3,965	1,389	554	838	8,856	631	2,537	18,218
September		482	1,825	17,018	4,099	1,396	559	624	8,829	604	2,493	18,045
October November		545 609	1,933 2,051	16,573 16,558	3,984 4,018	1,291 1,311	527 550	476 379	8,770 8,905	672 624	2,341 2,264	17,535 17,502
December		580	2,051	16,629	3,877	1,465	554	442	9,006	624	2,204	17,660
Average		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 April		413 374	2,166 2,135	16,893 17,640	3,835 4,156	1,379 1,470	575 585	726 850	8,913 9,062	581 598	2,523 2,531	17,957 18,668
May		399	2,348	17,963	4,375	1,449	571	857	9,113	615	2,622	19,031
June		397	2,349	18,127	4,408	1,495	572	870	9,211	559	2,670	19,212
July		384	2,595	18,498	4,425	1,542	574	860	9,500	576	2,704	19,607
August		390 443	2,607	18,107	4,404	1,463	552	778 614	9,426	554	2,605	19,230
September October		443 504	2,294 2,517	17,477 17,021	4,341 4,315	1,404 1,317	551 526	501	9,143 9.049	588 528	2,449 2,323	18,539 18,033
November		531	2,223	17,391	4,503	1,394	543	390	9,134	564	2,323	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 February	14,446 13,745	543 517	1,732 2,229	16,721 16,491	4,305 4,032	1,362 1,298	560 513	439 490	8,671 8,793	552 529	2,459 2,329	17,788 17,471
March		454	2,229	17,090	4,032	1,435	525	632	8,824	519	2,329	18,117
April		452	2,494	17,248	4,187	1,422	540	773	8,931	535	2,402	18,249
May	14,776	427	2,457	17,660	4,277	1,483	561	805	9,142	557	2,477	18,742
June		443	2,440	18,248	4,469	1,568	566	840	9,286	553	2,632	19,349
July	15,617 15,592	417 437	2,247 2,353	18,281 18,382	4,655 4,667	1,550 1,543	557 550	814 784	9,165 9,265	562 604	2,659 2,652	19,405 19,514
August September	15,592	437 494	2,353 2,092	17,855	4,007	1,543	550 569	784 608	9,265 9,132	516	2,602	18,987
October	14 543	524	2,252	17,318	4,534	1,375	541	494	8,953	529	2,540	18,425
November	R 14 958	^R 597	^R 2.110	R 17.665	^R 4,903	^R 1,341	^R 564	^R 384	^R 9,125	^R 516	^R 2.512	^R 18,781
December Average	[⊨] 14.688	RF 581 RE 490	RE 2,292 RE 2,240	RF 17,562 RE 17,550	E 4,917 RE 4,487	E 1,432 RE 1,448	RE 561 RE 551	^F 429 ^E 625	^E 9,104 ^{RE} 9,034	E 477 RE 538	RE 2,273 RE 2,498	RE 18,633 RE 18,629
2012 January		F 544	E 1.920	F 16,928	E 4.513	E 1,426	E 537	F 438	E 8.569	E 473	E 2.571	E 17,989

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

с

^d Includes lease condensate.
 ^e Natural gas plant liquids (liquefied petroleum gases and pentanes plus).
 ^f Unfinished oils (net), other hydrocarbons, and hydrogen. Beginning in 1981, also includes aviation and motor gasoline blending components (net). Beginning in 1993, also includes coxygenates (net), including fuel ethanol. Beginning in 2009, also includes renewable diesel fuel (including biodiesel).
 ^g Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
 ^h Through 2004, includes kerosene-type and past.

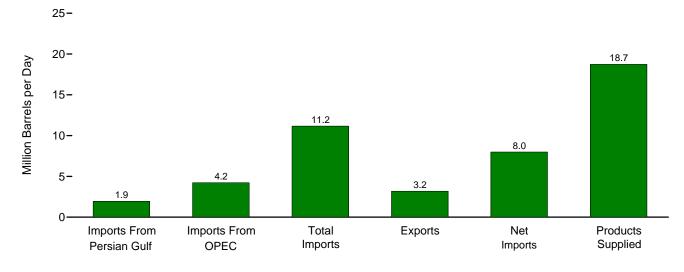
^h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Products."
 ⁱ Includes propylene.
 ^j Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

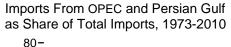
^k Asphalt and road oil, finished aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special naphthas, still gas, waxes, and miscellaneous products. Beginning in 2005, also includes naphtha-type jet fuel. R=Revised. E=Estimate. F=Forecast. Notes: • Totals may not equal 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/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/totalenergy/data/monthly/#petroleum.

http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/totalenergy/data/monthly/#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.

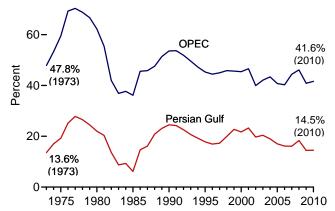
Figure 3.3a Petroleum Trade: Overview

Overview, November 2011

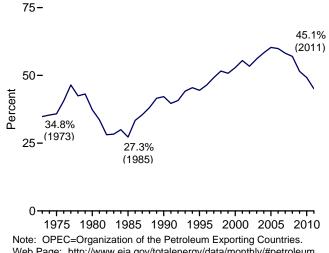






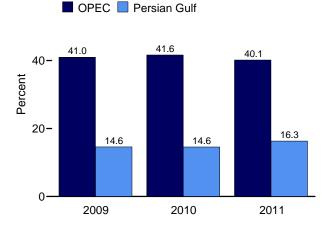


Net Imports as Share of Products Supplied, 1973-2011

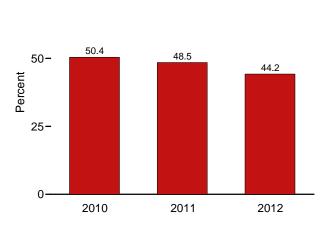


Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.3a.

Imports From OPEC and Persian Gulf as Share of Total Imports, January-November 60-



Net Imports as Share of Products Supplied, January



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	Imports From OPEC ^b
			Thousand Ba	arrels per Da	у				Pe	rcent		
1973 Average	848	2,993	6,256	231	6,025	17,308	4.9	17.3	36.1	34.8	13.6	47.8
1975 Average		3,601	6,056	209	5,846	16,322	7.1	22.1	37.1	35.8	19.2	59.5
1980 Average	1,519	4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	22.0	62.2
1985 Average	311	1,830	5,067	781	4,286	15,726	2.0	11.6	32.2	27.3	6.1	36.1
1990 Average	1,966	4,296	8,018	857	7,161	16,988	11.6	25.3	47.2	42.2	24.5	53.6
1995 Average	1,573 1,604	4,002 4,211	8,835 9,478	949 981	7,886 8,498	17,725 18,309	8.9 8.8	22.6 23.0	49.8 51.8	44.5 46.4	17.8 16.9	45.3 44.4
1996 Average 1997 Average	1,755	4,211	10,162	1,003	9,158	18,620	9.4	23.0	54.6	40.4	17.3	44.4
1998 Average	2,136	4,905	10,708	945	9,764	18,917	11.3	25.9	56.6	51.6	19.9	45.8
1999 Average	2,464	4,953	10,852	940	9,912	19,519	12.6	25.4	55.6	50.8	22.7	45.6
2000 Average	2,488	5,203	11,459	1,040	10,419	19,701	12.6	26.4	58.2	52.9	21.7	45.4
2001 Average	2,761	5,528	11,871	971	10,900	19,649	14.1	28.1	60.4	55.5	23.3	46.6
2002 Average	2,269	4,605	11,530	984	10,546	19,761	11.5	23.3	58.3	53.4	19.7	39.9
2003 Average	2,501	5,162	12,264	1,027	11,238	20,034	12.5	25.8	61.2	56.1	20.4	42.1
2004 Average	2,493 2,334	5,701	13,145 13,714	1,048 1,165	12,097 12,549	20,731	12.0	27.5 26.9	63.4 65.9	58.4 60.3	19.0	43.4 40.7
2005 Average 2006 Average	2,334 2,211	5,587 5,517	13,714	1,165	12,549	20,802 20,687	11.2 10.7	26.9	65.9 66.3	60.3 59.9	17.0 16.1	40.7
2000 Average	2,163	5,980	13,468	1,433	12,036	20,680	10.7	28.9	65.1	58.2	16.1	44.4
2008 Average	2,370	5,954	12,915	1,802	11,114	19,498	12.2	30.5	66.2	57.0	18.4	46.1
2009 January	2,218	5,689	13,127	1,922	11,205	19,040	11.6	29.9	68.9	58.9	16.9	43.3
February		4,958	12,095	1,808	10,287	18,822	10.5	26.3	64.3	54.7	16.3	41.0
March		5,212 4.803	12,446 11.962	1,838	10,609	18,719	9.7 9.3	27.8 25.7	66.5 64.1	56.7 53.9	14.6 14.5	41.9 40.2
April		4,803	11,962	1,900 2.015	10,061 9,461	18,672 18,211	9.3 8.5	25.7 24.0	63.0	53.9 52.0	14.5	40.2 38.1
May June		4,372	11,936	1.963	9,401	18.828	8.5	24.0	63.4	53.0	13.4	40.4
July	1,730	4,554	11,830	2,348	9,482	18,626	9.3	24.4	63.5	50.9	14.6	38.5
August	1,428	4,530	11,183	2,119	9,064	18,949	7.5	23.9	59.0	47.8	12.8	40.5
September	1,718	5,052	11,756	2,105	9,651	18,594	9.2	27.2	63.2	51.9	14.6	43.0
October	1,545	4,581	10,878	2,223	8,655	18,803	8.2	24.4	57.9	46.0	14.2	42.1
November	1,606	4,585	11,105	2,029	9,076	18,753	8.6	24.5	59.2	48.4	14.5	41.3
December Average	1,362 1,689	4,171 4,776	10,534 11,691	1,996 2,024	8,538 9,667	19,237 18,771	7.1 9.0	21.7 25.4	54.8 62.3	44.4 51.5	12.9 14.4	39.6 40.9
2010 January	1.563	4,554	11,300	1.897	9.404	18.652	8.4	24.4	60.6	50.4	13.8	40.3
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 1,679	5,297 5,178	12,444 12,675	2,304 2,516	10,140 10,159	19,537 19,319	10.1 8.7	27.1 26.8	63.7 65.6	51.9 52.6	15.8 13.2	42.6 40.8
July August	1,663	5,178	12,356	2,310	9,946	19,662	8.5	26.0	62.8	52.6	13.2	40.8
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	1,662	4,525	11,096	2,598	8,498	18,977	8.8	23.8	58.5	44.8	15.0	40.8
December	1,564	4,614	11,132	2,644	8,488	19,722	7.9	23.4	56.4	43.0	14.0	41.4
Average	1,711	4,906	11,793	2,353	9,441	19,180	8.9	25.6	61.5	49.2	14.5	41.6
011 January February	1,719 1,495	4,872 4,504	11,954 10,503	2,687 2,575	9,266 7,929	19,121 18,869	9.0 7.9	25.5 23.9	62.5 55.7	48.5 42.0	14.4 14.2	40.8 42.9
March		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 1,904	4,326 4,267	11,209 10,994	3,158	8,051 7,890	18,795	10.8 10.3	23.0 23.0	59.6 59.2	42.8 42.5	18.2 17.3	38.6 38.8
October November		4,267 ^R 4,219	^R 11,166	3,104 ^R 3,182	7,890 ^R 7,985	18,563 ^R 18,734	R 10.3	23.0 R 22.5	59.2 ^R 59.6	42.5 R 42.6	^R 17.3	^{38.8} ^R 37.8
December		NA	E 10,838	E 2,880	E 7,958	E 18,507	NA	NA	E 58.6	E 43.0	NA	NA
Average	NA	NA	RE 11,350	RE 2,867	RE 8,483	^{RE} 18,816	NA	NA	E 60.3	^{RE} 45.1	NA	NA
2012 January	NA	NA	E 10,921	^E 2,914	E 8,006	^E 18,099	NA	NA	^E 60.3	E 44.2	NA	NA

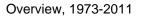
^a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 ^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. See Table 3.3c for notes on which countries are included in the data.
 R=Revised. E=Estimate. NA=Not available.
 Notes: • Readers of this table may be interested in a feature article, "Measuring Dependence on Imported Oil," that was published in the August 1995 *Monthly Energy Review.* 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

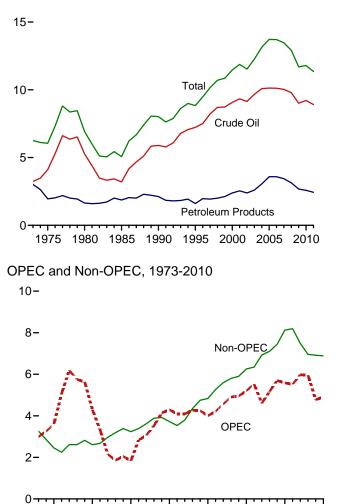
District of Columbia. U.S. exports include shipments to U.S. territories, and imports include receipts from U.S. territories. Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information,

http://www.eia.gov/totalenergy/data/montnly/#petroleum. • For related information, see http://www.eia.gov/totalenergy/data/montnly/#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.

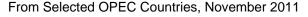
Figure 3.3b Petroleum Trade: Imports

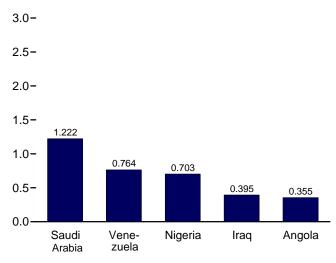
(Million Barrels per Day)



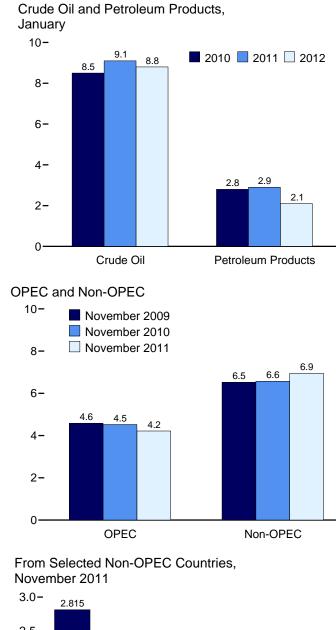


1975 1980 1985 1990 1995 2000 2005 2010





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



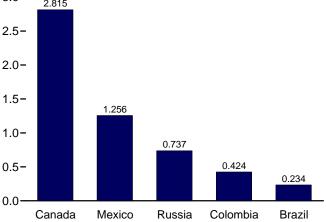


Table 3.3b Petroleum Trade: Imports and Exports by Type

(Thousand Barrels per Day)

					Im	ports						Exports	
	Cruc	de Oil ^a	Distribution		LPG	b					.		
	SPR ^{c,d}	Total	Distillate Fuel Oil	Jet Fuel ^e	Propane ^f	Total	Motor Gasoline ^g	Residual Fuel Oil	Other ^h	Total	Crude Oil ^a	Petroleum Products	Total
73 Average		3,244	392	212	71	132	134	1,853	290	6,256	2	229	231
75 Average		4,105	155	133	60	112	184	1,223	144	6,056	6	204	209
80 Average	44	5,263	142	80	69	216	140	939	130	6,909	287	258	544
85 Average	118	3,201	200	39	67	187	381	510	550	5,067	204	577	781
90 Average	27	5,894	278	108	115	188	342	504	705	8,018	109	748	857
95 Average	-	7,230	193	106	102	146	265	187	708	8,835	95	855	949
96 Average	-	7,508	230	111	119	166	336	248	879	9,478	110	871	981
97 Average	Ξ	8,225	228 210	91	113	169 194	309	194	945	10,162	108	896	1,003
98 Average	- 8	8,706 8,731	210	124 128	137 122	194	311 382	275 237	888 943	10,708 10,852	110 118	835 822	945 940
99 Average 00 Average	8	9,071	295	162	161	215	427	352	938	11,459	50	990	1,040
01 Average	11	9.328	344	148	145	215	427	295	1.095	11,459	20	951	971
02 Average	16	9,140	267	107	145	183	498	249	1,035	11,530	20	975	984
03 Average		9,665	333	109	168	225	518	327	1,087	12,264	12	1,014	1,027
04 Average	77	10,088	325	127	209	263	496	426	1,419	13,145	27	1,021	1,048
05 Average	52	10,126	329	190	233	328	603	530	1,609	13,714	32	1,133	1,16
06 Average	8	10,118	365	186	228	332	475	350	1,881	13,707	25	1,292	1,31
07 Average	7	10,031	304	217	182	247	413	372	1,885	13,468	27	1,405	1,43
08 Average	19	9,783	213	103	185	253	302	349	1,913	12,915	29	1,773	1,80
9 January	33	9,779	368	89	223	253	236	424	1,978	13,127	36	1,885	1,92
February	34	9,074	327	71	207	234	263	349	1,776	12,095	30	1,778	1,80
March	221	9,378	269	92	218	249	274	381	1,804	12,446	30	1,807	1,83
April	154	9,374	166	90	124	164	227	396	1,545	11,962	27	1,874	1,90
May	52	8,797	206	66	105	172	244	341	1,650	11,477	53	1,962	2,01
June	77	9,135	245	65	70	98	218	363	1,812	11,936	57	1,906	1,96
July	_ 16	9,094 8,814	191 166	102 92	100 63	128 105	230 304	268 256	1,818 1,446	11,830 11,183	31 35	2,317 2,084	2,34 2,11
August	32	9,254	205	92 91	95	105	304 142	200	1,440	11,756	42	2,064	2,11
September October	- 32	9,254 8,566	177	84	145	124	161	303	1,404	10,878	72	2,003	2,10
November	35	8,740	164	71	206	238	149	282	1,462	11,105	46	1,983	2,02
December	16	8.170	224	55	212	241	232	307	1.305	10,534	65	1,931	1.99
Average	56	9,013	225	81	147	182	223	331	1,635	11,691	44	1,980	2,02
IO January	-	8,492	462	131	192	225	179	376	1,435	11,300	33	1,864	1,897
February	-	8,761	293	75	217	242	196	382	1,282	11,230	58	1,976	2,03
March	-	9,341	179	79	137	155	120	376	1,370	11,621	45	2,104	2,14
April		9,726	220	88	79	102	178	480	1,732	12,526	37	2,396	2,43
May	_	9,655 9.927	189 237	81 114	82 73	108 113	107 163	404 283	1,599 1.607	12,141 12,444	36 31	2,363 2.273	2,39 2,30
June	_	9,927 9,932	170	114	73 56	104	103	203 400	1,807	12,444	69	2,273	2,30
July August	_	9,543	246	103	62	104	129	330	1,899	12,356	36	2,374	2,31
September	_	9,229	189	122	85	124	130	367	1,662	11,823	61	2,283	2,34
October	_	8,540	163	94	131	165	86	337	1,758	11,142	23	2,457	2,48
November	-	8,699	178	101	132	165	117	345	1,491	11,096	32	2,567	2,59
December	-	8,695	219	73	214	231	99	315	1,501	11,132	40	2,604	2,64
Average	-	9,213	228	98	121	153	134	366	1,600	11,793	42	2,311	2,35
1 January	-	9,069	326	65	172	204	103	456	1,733	11,954	72	2,616	2,68
February	-	8,013	206	68	172	199	119	428	1,471	10,503	30	2,544	2,57
March	-	9,033	190	65	136	165	135	468	1,538	11,593	36	2,623	2,66
April	-	8,715	186	80	94	113	138	519	1,842	11,592	41	2,862	2,90
May	-	8,988	167	91	73	100	137	299	1,887	11,669	37	2,605	2,64
June	_	9,247	126 153	82 95	58 61	85 84	130 92	371 246	1,753	11,794	36	2,571	2,60
July	_	9,310 9,021	153 148	95 66	61 72	84 100	92 106	246	1,686 1,474	11,667 11,145	73 34	2,846 3,037	2,91 3,07
August	_	9,021 9,006	148	58	107	130	99	229 276	1,474	11,145	34	3,037	3,07
September October	_	9,008	127	50 61	93	130	66	276	1,463	10,994	51	3,054	3,15
November	_	^R 8,826	R 133	R 72	R 107	^R 127	R 74	R 340	^R 1,594	^R 11,166	R 64	^R 3,054	^R 3,18
December	_	E 8,602	E 162	E 23	E 146	NA	^E 83	_E 356	NA	E 10,838	E 36	E 2,844	E 2,88
Average	-	RE 8,912	E 175	RE 69	RE 107	NA	^{RE} 107	RE 355	NA	RE 11,350	RE 46	RE 2,821	RE 2,86
		^E 8,825	E 170	E 5	^E 126	NA	E 90	E 303	NA	^E 10,921	E 37	^E 2,878	E 2,91

Includes lease condensate.

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

"Other

¹ Includes propylene.
 ⁹ Finished motor gasoline. Through 1980, also includes motor gasoline

^b Initial and the gasanic. Initial 100, also induce induce set gasanic blending components. ^h Asphalt and road oil, finished aviation gasoline, gasoline blending components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, unfinished oils, waxes, other hydrocarbons and oxygenates, and miscellaneous products. Beginning in 2005, also includes

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

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 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.

Table 3.3c Petroleum Trade: Imports From OPEC Countries

(Thousand Barrels per Day)

	Algeria	Angolaa	Ecuador ^b	Iraq	Kuwait ^c	Libya	Nigeria	Saudi Arabia ^c	Vene- zuela	Otherd	Tota OPE
973 Average	136	(a)	48	4	47	164	459	486	1,135	514	2,993
975 Average	282	(a)	57	2	16	232	762	715	702	832	3,60
980 Average	488	$\binom{a}{a}$	27	28	27	554	857	1,261	481	577	4,30
	187	$\binom{a}{a}$	67	46	21	4	293	168	605	439	1,830
85 Average	280	a	49	518	86	ů,	800	1,339		199	4,29
90 Average			(^b)						1,025		
95 Average	234		{ b }	0	218	0	627	1,344	1,480	98	4,002
96 Average	256	(a)		1	236	0	617	1,363	1,676	62	4,21
97 Average	285	()		89	253	0	698	1,407	1,773	64	4,569
98 Average	290	(a)	(þ)	336	301	0	696	1,491	1,719	73	4,90
99 Average	259	(a)	(b)	725	248	0	657	1,478	1,493	93	4,95
00 Average	225	(a)	(þ)	620	272	0	896	1,572	1,546	72	5,20
01 Average	278	(a)	(^b)	795	250	0	885	1,662	1,553	105	5,52
02 Average	264	(a)	(b)	459	228	0	621	1,552	1,398	83	4,60
03 Average	382	(a)	(b)	481	220	0	867	1,774	1,376	61	5,162
04 Average	452	(a)	(b)	656	250	20	1,140	1,558	1,554	70	5,70
05 Average	478	(a)	(b)	531	243	56	1,166	1,537	1,529	47	5,587
06 Average	657	(a)	(b)	553	185	87	1,114	1,463	1.419	38	5.51
07 Average	670	` 508	(b)	484	181	117	1,134	1,485	1,361	39	5,98
08 Average	548	513	221	627	210	103	988	1,529	1,189	26	5,954
09 January	720	541	278	568	242	64	524	1,362	1,353	38	5,689
February	375	671	243	554	251	60	496	1,118	1,139	51	4,95
March	463	653	243	587	181	61	891	967	1,106	88	5,21
	626	462	237	484	105	118	733	1.057	891	90	4.80
April		402 505	193	295	105	99	626	1,102	1,141	33	4,80
May	272	447		390		103	830			75	
June	433		154		179			959	1,256		4,82
July	383	320	198	321	187	69	879	1,046	976	176	4,55
August	551	364	131	500	148	68	917	729	1,070	51	4,53
September	655	414	153	428	246	54	912	1,045	1,146	-	5,05
October	491	450	180	499	104	91	869	943	955	-	4,58
November	400	431	155	461	287	140	980	858	874	-	4,58
December	544	278	86	325	160	23	1,029	877	849	-	4,17
Average	493	460	185	450	182	79	809	1,004	1,063	50	4,770
10 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	-	5,37
May	518	448	182	394	225	39	1,026	1,097	1,117	10	5,05
June	550	425	245	630	217	98	1,108	1,125	899	_	5,29
July	518	374	239	430	189	110	1,174	1,053	1,084	7	5.17
August	565	484	276	281	251	123	985	1,132	1,022	_	5,11
	543	417	229	422	172	43	1,174	1,093	1,008	10	5,11
September October	451	324	203	143	215	43 36	872	1,131	930	-	4,30
	572	324 276	203 194	340		23				_	4,303
November		276 319	194		170	23 66	856	1,152	942 917	9	
December Average	484 510	319 393	212	336 415	125 197	70	1,070 1,023	1,093 1,096	917 988	3	4,614 4,90
	ECE	246	170	470	4 47	E7			1 020		107
11 January	565	316	178		147	57	1,007	1,102	1,030	-	4,87
February	394	370	242	263	118	35	978	1,114	989	-	4,50
March	500	280	146	382	161	31	913	1,108	1,067	-	4,58
April	466	277	142	519	78	(s)	922	1,107	997	-	4,50
May	400	356	134	407	200	(s)	854	1,203	999	19	4,57
June	293	373	219	559	238	35	853	1,169	1,077	68	4,88
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	4,26
November	260	355	181	395	302	10	703	1,222	764	26	4,21
11-Month Average	363	345	200	467	188	15	843	1,184	952	17	4,57
10 11-Month Average	512	400	213	423	203	70	1,018	1,097	994	2	4,933
09 11-Month Average	488	477	194	462	184	84					4,83

^a Angola joined OPEC in January 2007. For 1973-2006, Angola is included in "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 Table 0.04

November 2007. For 1993-2007, Ecuador is included in clotal 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. 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, 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: EIA, Petroleum Supply Monthly, monthly reports.

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

(Thousand Barrels per Day)

	Brazil	Canada	Colombia	Mexico	Nether- lands	Norway	Russia ^a	United Kingdom	U.S. Virgin Islands	Other	Total Non-OPEC
1973 Average	9	1,325	9	16	53	1	26	15	329	1,480	3,263
1975 Average	5	846	9	71	19	17	14	14	406	1.052	2,454
1980 Average	3	455	4	533	2	144	1	176	388	903	2,609
1985 Average	61	770	23	816	58	32	8	310	247	913	3,237
1990 Average	49	934	182	755	55	102	45	189	282	1,128	3,721
1995 Average		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
1997 Average	26	1,598	354	1,355	31	236	24	250	293	1,640	5,803
1998 Average	26	1,539	468	1,324	27	304	89	365	293	1,478	5,803
1999 Average	51	1,333	342	1,373	30	343	72	366	200	1,470	6.257
2000 Average	82	1,828	296	1,373	43	343	90	300	268	1,631	6,343
2001 Average		1,020	296	1,440	43	393	210	324 478	200	1,649	6,925
2002 Average	116										
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 January	450	2,549	269	1,377	127	90	516	148	367	1,545	7,438
February	381	2,529	241	1,364	189	74	472	281	337	1,269	7,137
March	338	2,446	283	1,199	141	179	642	208	264	1,534	7,235
April	278	2,287	347	1,289	117	112	759	401	290	1,278	7,158
May	386	2,215	243	1,186	150	179	809	250	313	1,373	7,105
June	299	2,538	313	1,190	157	173	618	268	276	1,279	7,111
July	408	2,664	289	1,076	118	101	758	203	273	1,387	7,276
August	275	2,523	269	1,159	160	52	505	225	223	1,263	6,653
September	268	2,358	301	1,271	122	59	486	295	280	1,263	6,703
October	174	2,367	292	1,136	84	97	385	278	215	1,268	6,297
November	268	2,565	237	1,084	227	110	415	190	205	1,219	6,520
December	184	2,710	231	1,204	99	65	385	199	289	998	6,363
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	2,403	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	2,547	492	1,347	57	79	561	187	234	886	6,571
	295	2,513	231	1,365	71	26	514	236	191	855	6,518
December Average	295 272	2,730	365	1,303 1,284	108	20 89	612	230 256	253	1,112	6,887
	274	2,826	332	1,366	101	85	531	155	276	1,136	7,082
2011 January											
February	177	2,831	211	1,104	129	69	437	110	182	749	5,999
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	1,267	7,083
May	282	2,481	433	1,286	128	101	677	233	194	1,283	7,097
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	2,815	424	1,256	96	174	737	125	177	910	6,948
11-Month Average	234	2,685	414	1,218	100	115	627	158	184	1,085	6,821
2010 11-Month Average	270	2,517	377	1,277	111	95	621	258	259	1,136	6,921
2009 11-Month Average	320	2,458	281	1,211	144	112	580	249	276	1,336	6,966

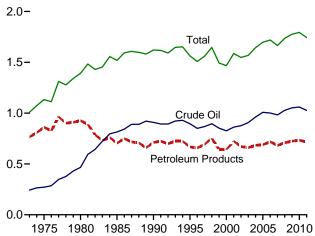
^a Through 1992, may include imports from republics other than Russia in the former U.S.S.R. See "Union of Soviet Socialist Republics (U.S.S.R.)" in Glossary. Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary for membership. Petroleum imports not classified as "OPEC" on Table 3.3c are included on this table. • The country of origin for petroleum products way not be the country of origin for the crude oil from which the products way not be the country of origin conducts unpoted and the products way 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

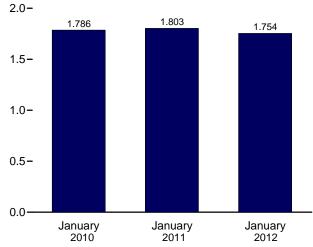
Statement, Annual, annual reports. • **1976-1980**: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual,* annual reports. • **1981-2010**: EIA, *Petroleum Supply Annual,* annual reports. • **2011**: EIA, *Petroleum Supply Monthly,* monthly reports.

Figure 3.4 Petroleum Stocks (Billion Barrels, Except as Noted)

Overview, 1973-2011



Total Stocks (Crude Oil and Petroleum Products)





232 235

Motor Gasoline

231

164 162

Distillate Fuel Oil

146

250-

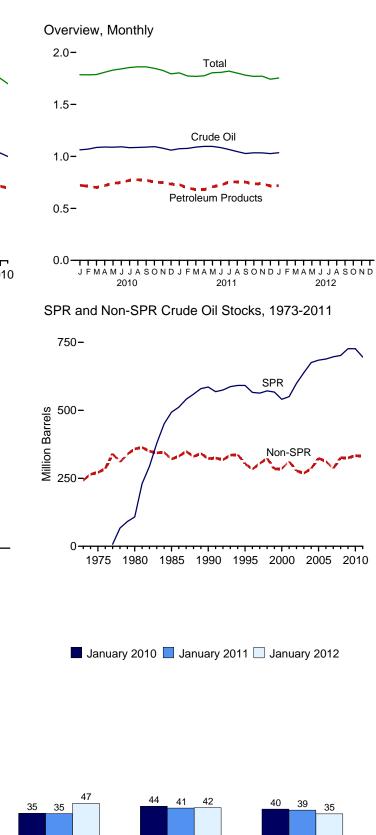
200-

150-

100-

50-

0



period.

Propane^a

^b Includes kerosene-type jet fuel only. Notes: • SPR=Strategic Petroleum Reserve. • Stocks are at end of Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.4.

Residual Fuel Oil

Jet Fuel^⁵

Million Barrels

^a Includes propylene.

Table 3.4 Petroleum Stocks

(Million Barrels)

		Crude Oila		Distillate	lot	LPC	3 b	Motor	Posidus		
	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	Otherk	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
1999 Year	567	284	852	125	43	43	89	193	36	157	1,493
2000 Year	541	286	826	118	45	43	83	195	36	164	1,468
2001 Year	550	312	862	145	42	66	121	210	41	166	1,586
2002 Year	599	278	877	134	39	53	106	209	31	152	1,548
2002 Year	638	269	907	134	39	50	94	203	38	147	1,568
2003 Year	676	286	961	126	40	55	104	218	42	153	1,645
2005 Year	685	324	1,008	136	40	57	104	208	37	157	1,698
	689	324 312	1,008	144	42 39	62	109	208	42	169	1,696
2006 Year 2007 Year	689 697	286	983	134	39	62 52	96	212	42 39	156	1,720
	702	326		134	39	52	113	216	39	162	
2008 Year	102	320	1,028	140	30	55	113	214	30	102	1,737
2009 January	704	351	1,055	144	41	46	98	220	34	174	1,766
February	706	358	1,063	148	43	40	89	216	38	178	1,777
March	713	367	1,080	145	43	40	91	217	38	188	1,803
April	719	371	1,090	150	44	45	100	211	34	187	1,816
May	722	360	1,081	157	45	56	117	204	38	189	1,831
June	724	347	1,071	163	45	64	133	214	37	182	1,844
July	724	345	1,070	166	47	70	145	212	35	175	1,850
August	724	336	1,060	169	46	71	153	208	33	165	1,834
September	725	335	1,060	173	46	75	156	214	35	164	1,848
October	725	333	1,058	171	44	72	146	211	35	161	1,825
November	726	337	1,063	171	42	63	123	220	36	158	1,814
December	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	1,000	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	1,003	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	1,080	167	47	61	139	219	40	159	1,861
October	727	368	1,089	162	47	61	138	219	40	158	1,847
November	727	352	1,094	162	44	61	130	210	41	158	1,847
December	727	333	1,060	164	43	49	108	219	41	158	1,794
	707	0.17	4 074	100		05	05	005		400	4 005
2011 January	727	347	1,074	162	41	35	85	235	39	166	1,803
February	727	350	1,077	154	39	26	71	229	35	168	1,773
March	727	363	1,089	149	40	24	69	215	37	171	1,770
April	727	369	1,096	143	39	28	80	205	39	175	1,776
May	727	370	1,096	145	41	34	92	214	37	180	1,805
June	727	358	1,085	144	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	696	R 338	^R 1,034	^R 144	_ 42	^R 59	^R 125	^R 221	R 39	^R 167	^R 1,772
December	E 696	^E 331	^E 1,027	^E 145	E 41	^E 55	^E 130	E 221	Ĕ 36	E 143	^E 1,743
2012 January	E 696	^E 339	^E 1,035	^E 146	^E 42	E 47	E 115	E 231	E 35	^E 151	^E 1,754

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

^d All crude oil stocks other than those in "SPR."
 ^e Beginning in 1981, includes stocks of Alaskan crude oil in transit. See Note 5, "Stocks of Alaskan Crude Oil," at end of section.
 ^f See Note 4, "Petroleum New Stock Basis," at end of section.

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

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

"Other Includes propylene

j Includes finished motor gasoline and motor gasoline blending components;

excludes oxygenates. ^K Asphalt and road oil, aviation gasoline, aviation gasoline blending

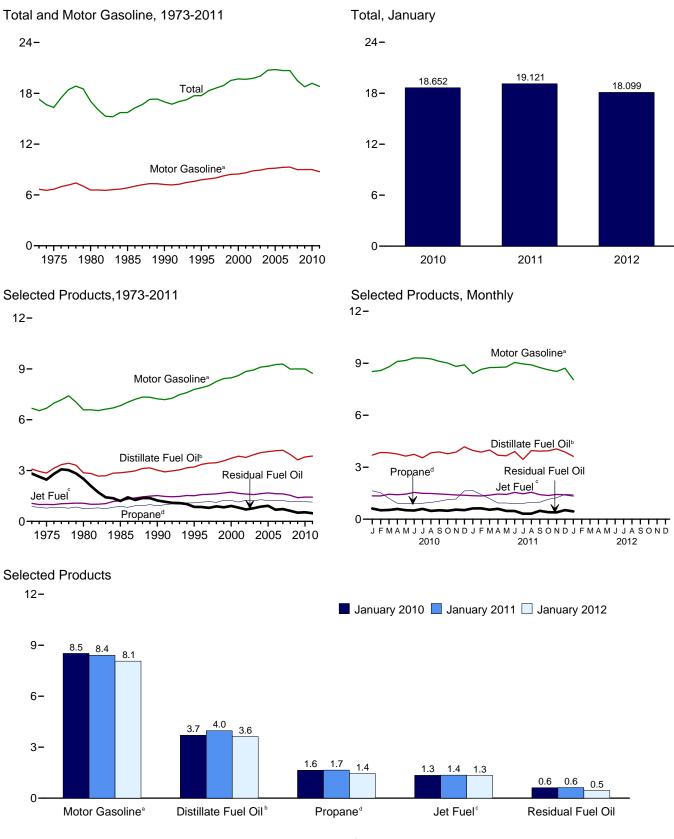
components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, unfinished oils, waxes, miscellaneous products, oxygenates, renewable fuels, and other hydrocarbons. Beginning in 2005, also

includes naphtha-type jet fuel. R=Revised. E=Estimate. - -=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 calculations. Review data system calculations.





^a Beginning in 1993, includes fuel ethanol blended into motor gasoline. ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

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

^d Includes propylene.

Note: SPR=Strategic Petroleum Reserve. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.5.

Table 3.5 Petroleum Products Supplied by Type

(Thousand Barrels per Day)

173 Average 522 45 3.092 1.059 216 872 1.449 162 6.674 261 2.822 1.005 17.30 1975 Average 346 35 2.666 1.066 158 75.4 1.463 165 75.4 1.463 16.32 2.563 1.581 7.65 2.47 2.462 1.005 16.32 1985 Average 448 2.1 3.665 1.758 6.2 1.736 1.586 1464 6.351 2.841 1.522 1.031 157.7 1985 Average 564 2.2 3.365 1.578 62 1.736 2.012 151 7.831 3.75 8.48 1.681 1.683 1.577 1.724 2.012 166 8.472 4.66 9.69 1.552 1.682 1.512 1.532 1.231 1.633 1.532 1.532 1.231 1.633 1.441 1.646 1.646 7.60 1.445 1.441 1.646 1.441 1.645 1.726 2.132 1.442 2.146 1.441 1.643 1.442 1.444<		Asphalt					LP	G ^a			Petro-			
1975 Average 419 39 2.651 1,001 159 783 1,333 137 6.675 2.47 2.462 1,001 16.32 1985 Average 425 27 2.686 1,218 144 883 1,598 145 6.579 2.27 2.508 1,521 15,72 1,598 145 6.579 2.27 2.508 1,521 15,77 1597 7,769 3.51 1,222 1,321 15,77 1,777 797 777 777 777 777 777 777 777 787 1,508 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,528 2,511 148 3,514 451 1,441 19,46 1,441 19,462 1,442 2,144 1,518 8,446 450 <		and						1					Other ^f	Total
1975 Average 419 39 2.651 1,001 159 783 1,333 137 6.675 2.47 2.462 1,001 16.32 1985 Average 425 27 2.686 1,218 144 883 1,598 145 6.579 2.27 2.508 1,521 15,72 1,598 145 6.579 2.27 2.508 1,521 15,77 1597 7,769 3.51 1,222 1,321 15,77 1,777 797 777 777 777 777 777 777 777 787 1,508 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,527 1,528 2,511 148 3,514 451 1,441 19,46 1,441 19,462 1,442 2,144 1,518 8,446 450 <	1070 Augusta	500	45	2 000	4 050	040		4.440	400	0.074	004	0.000	4 005	47.000
1980 Average 396 35 2.666 1.068 158 7.64 1.469 159 6.579 2.37 2.508 1.681 17.05 1980 Average 443 2.47 3.021 1.522 4.3 9.97 1.538 164 7.233 338 1.228 1.371 16.395 1980 Average 544 2.20 3.435 1.579 66 1.170 2.038 166 8.017 377 787 1.605 18.62 1989 Average 541 19 3.461 1.652 72 1.414 2.044 1.048 1.518 18.30 1.518 18.30 1.518 18.30 1.538 19.51 1.533 19.51 1.534 19.51 1.534 19.51 1.534 19.51 1.534 19.51 1.534 19.51 1.534 19.51 1.532 19.53 1.532 19.53 1.532 19.53 1.532 1.532 1.532 1.533 1.534 1.532 1.532 1.532 1.532 1.533 1.533 1.632 1.532 1.533 1.532														
1985 Average 425 27 2,868 1,218 114 883 1,599 145 6,631 264 1,202 1,373 16,38 1985 Average 486 21 3,207 1,514 54 1,096 1,893 166 7,278 385 828 1,381 17,27 16,38 160 6,07 377 777 777 777 777 777 777 777 16,05 18,23 1438 17,72 16,05 18,23 1477 18,08 14,381 17,72 16,05 18,23 1477 18,08 14,381 17,739 305 14,383 14,383 14,383 14,383 14,383 14,383 14,383 14,383 14,383 14,383 14,383 14,383 14,434 14,443 14,443 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444 14,444														
1990 Average 483 24 3.021 1.522 43 917 1.556 164 7.235 339 1.229 1.373 16,89 1995 Average 484 20 3.865 1.578 62 1.136 2.012 151 7.281 337 484 1.578 162 1.158 2.012 151 7.281 337 1.682 1.818 1.830 1.821 1.818 1.830 1.821 1.818 1.830 1.852 1.951 1.852 1.951 1.852 1.951 1.852 1.951 1.852 1.951 1.852 1.951 1.852 1.957 1.652 1.257 1.257 2.123 1.218 8.414 4.163 1.964 1.977 1.956 8.41 1.573 5.64 1.573 5.64 1.576 5.64 1.576 5.64 1.576 5.64 1.576 5.64 1.576 5.64 1.976 5.15 5.20 5.15 5.20 1.605 2.080 1.481 1.676 2.077 2.025 4.926 4.926 4.926 4.926 4.926														
1995 Average 466 21 3.207 1.514 54 1.096 1.589 156 7.789 365 852 1.338 1.778 1996 Average 505 22 3.435 1.578 62 1.170 1.928 166 8.231 447 168 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.638 1.641 43 1.242 2.143 1.641 437 1.1 1.441 1.646 1.639 1.641 1.215 2.152 1.014 9.245 522 640 1.652 2.27 1.578 522 1.640 1.642 1.215 2.025 1.42 2.044 4.068 4.057 2.07 1.572 1.577 1.577														
1996 Average 444 20 3,365 1,578 62 1,136 2,2012 151 7,891 379 848 1,518 18,30 1998 Average 521 19 3,455 1,539 73 77 77 77 77 77 1,605 18,62 1998 Average 547 21 3,527 1,572 73 71,246 2,185 168 8,431 477 880 1,533 195 2001 Average 513 29 3,847 1,655 72 1,142 2,044 153 8,640 437 800 1,471 19,76 1,614 43 1,215 2,074 140 9,05 524 665 1,657 20,72 1,779 2,005 1,154 2,030 1,41 9,159 515 520 1,640 20,08 1,640 20,08 1,640 20,08 1,640 20,08 1,640 20,08 1,335 1,407 2,33 1,40 2,080 464 622 1,400 20,08 20,08 464 622 1,400 20,0	1995 Average													
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2005 Average 546 19 4,118 1,679 70 1,229 2,030 141 9,159 515 920 1,663 20.68 2006 Average 417 1 3,945 1,533 141 1,545 142 9,253 552 1640 20.68 2008 Average 417 1 3,945 1,533 141 1,545 141 8,899 444 622 1,408 19,49 2009 January 195 13 4,079 1,316 44 1,444 2,034 120 8,623 426 760 1,373 19,04 February 277 10 3,346 1,325 144 181 1,741 101 9,084 501 433 1,154 182.7 June 512 18 3,151 134 1,212 18,26 143 1,313 186.2 July 495 19 3,335 1,506 1 9,55 1807 72.224	2004 Average	537		4,058	1,630				141					20,731
2006 Average 521 16 4,169 1,633 54 1,215 2,062 137 9,253 552 669 1,640 2006 2007 Average 417 15 3,945 1,559 14 1,154 1,954 131 8,989 464 622 1,408 19,04 2009 January 195 13 4,079 1,312 44 1,444 2,004 12 8,633 426 760 1,373 18,04 April 299 15 3,455 1,432 14 814 19,06 125 9,029 498 677 1,222 18,67 May 371 13 3,455 1,432 14 818 1,074 19,046 501 433 1,154 18,22 July 495 13,326 1,446 6 1,012 1,956 138 9,295 407 472 1,244 18,49 August 542 15 3,426 1,449 6 1,012 1,956 138 9,295 407 472 1,244 </td <th>2005 Average</th> <td>546</td> <td>19</td> <td>4,118</td> <td>1,679</td> <td>70</td> <td>1,229</td> <td>2,030</td> <td>141</td> <td>9,159</td> <td>515</td> <td>920</td> <td>1,605</td> <td>20,802</td>	2005 Average	546	19	4,118	1,679	70	1,229	2,030	141	9,159	515	920	1,605	20,802
2007 Average 494 17 4,196 1,622 32 1,235 2,085 142 9,286 490 723 1,593 20,68 2008 Average 417 15 3,945 1,331 4,175 1,534 1,311 8,989 464 652 1,408 13,41 2,139 96 8,236 422 5,91 1,701 1,312 44 1,444 2,094 120 8,623 426 670 1,373 19,04 March 300 14 3,745 1,406 1,141 2,043 112 8,903 420 591 1,701 18,71 March 300 14 3,455 1,432 14 811 1,774 101 9,064 506 563 1,213 18,20 June 512 3,455 1,422 14 811 1,774 101 9,064 363 1,213 18,20 August 542 15 3,456 1,352 221 12,17 122 8,966 365 12,11 18,21	2006 Average	521	18	4,169	1,633		1,215	2,052	137	9,253		689	1,640	20,687
2008 Average 417 15 3,945 1,539 14 1,154 1,954 131 8,989 464 622 1,408 19,40 2009 January 195 13 4,079 1,312 44 1,444 2,019 46 6,233 426 760 1,373 19,04 March 300 14 3,744 1,366 1,341 2,139 96 8,836 425 448 1,330 18,82 March 300 14 3,744 1,406 16 1,181 2,043 112 8,903 420 591 1,170 18,77 June 512 18 3,513 1,425 11 849 1,731 124 9,180 536 666 1213 18,82 July 461 19 3,365 1,449 4 1,010 1,959 134 450 1,333 186 1,474 1,199 1,225 134 407 1,244 18,94 1,331 18,96 1,323 18,96 1,324 18,85 1,333			17	4,196	1,622	32	1,235	2,085	142	9,286	490	723	1,593	20,680
February 277 10 3.664 1.366 40 1.341 2.139 96 8.836 425 448 1.330 18.82 March 299 15 3.455 1.432 14 981 1.906 125 9.029 498 677 1.222 18.67 May 371 13 3.436 1.329 14 818 1.774 101 9.064 501 433 1.154 18.21 July 445 19 3.535 1.506 1 955 1.807 122 9.260 369 319 1.333 18.62 August 542 15 3.426 1.449 6 1.012 1.926 138 9.295 407 472 1.244 18.43 September 287 1.356 1.332 22 1.523 2.511 17.12 18.27 17.13 1.437 1.43 1.43 1.43 1.11 1.936 1.225 1.11	2008 Average	417	15	3,945	1,539	14	1,154	1,954	131	8,989	464	622	1,408	19,498
March 300 14 3,744 1,406 16 1,181 2,043 112 8,003 420 591 1,170 18,71 April 3299 15 3,455 1,329 14 818 19,021 122 9,284 677 122 18,67 June 512 18 3,456 1,329 14 818 17,74 101 9,084 501 433 1,164 18,27 June 495 19 3,355 1,506 1 955 1,807 122 9,260 369 319 1,333 18,27 August 542 15 3,426 1,449 6 1012 19,29 124 8,911 470 340 1,372 12,22 18,80 October 377 11 3,654 1,352 22 1,523 2,531 117 8,906 356 446 1,323 14 19,23 138 556 1,241 19,29 Average 360 14 3,631 1,393 18 1,160 <th></th> <td></td> <td>19,040</td>														19,040
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October 434 15 3,773 1,430 15 1,135 2,126 127 9,016 335 489 1,215 18,97 November 295 11 3,873 1,396 46 1,168 2,141 125 8,816 389 552 1,333 18,97 December 204 12 4,176 1,383 50 1,634 2,677 113 8,993 376 535 1,301 19,72 Average 362 15 3,800 1,432 20 1,160 2,173 131 8,993 376 535 1,343 19,12 February 248 13 3,871 1,343 47 1,423 2,406 121 8,648 282 627 1,264 18,64 March 280 19 3,993 1,389 25 1,189 2,291 148 8,750 339 547 1,468 19,24 April 314 7 3,689 1,451 9 933 1,916 131 8,762 352														
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March 280 19 3.993 1.389 25 1.189 2.291 148 8,750 339 547 1.468 19,24 April 314 7 3.689 1.451 9 933 1.916 131 8,750 339 547 1.468 19,24 May 354 18 3.657 1.429 (s) 943 1.994 120 8,784 415 478 1.114 18.36 June 455 17 3.903 1.545 4 889 1.938 119 9.046 386 471 1.394 19,27 July 463 18 3.452 1.466 9 918 1.929 112 8,960 361 316 1.470 18,55 August 543 18 3.929 1.555 5 974 1.987 134 8,907 452 319 1.274 19,55 September 462 13 3.929 1.417 1.987 360 48,207 452 3160 482 1.207 18,79														18,869
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May 354 18 3,657 1,429 (s) 934 1,994 120 8,784 415 478 1,114 18,36 June 455 17 3,903 1,545 4 889 1,938 119 9,046 386 471 1,394 19,27 July 463 18 3,452 1,466 9 918 1,929 112 8,960 361 316 1,470 18,55 August 543 18 3,959 1,555 5 974 1,987 134 8,907 452 319 1,274 19,15 September 462 13 3,929 1,417 13 979 2,035 126 8,753 360 482 1,207 18,79 October 424 16 3,944 1,370 -4 1,147 2,140 107 8,623 410 402 1,132 18,63 November R298 12 R4,055 R1,427 R10 R1,236 R2,235 R124 R8,527 R361 <td< td=""><th></th><td></td><td></td><td></td><td>1,451</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>18,613</td></td<>					1,451									18,613
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August 543 18 3,959 1,555 5 974 1,987 134 8,907 452 319 1,274 19,15 September 462 13 3,929 1,417 13 979 2,035 126 8,753 360 482 1,207 18,79 October 424 16 3,944 1,370 -4 1,147 2,140 107 8,623 410 402 1,132 18,679 November R298 12 R4,055 R1,427 R10 R1,236 R2,235 R124 R8,527 R361 R395 R1,291 R18,73 December F167 F10 E3,880 E1,404 F27 E1,424 RF2,361 RF98 E8,713 RF381 E524 RE942 E18,50 Average RE 353 E15 RE 3,858 RE 1,430 RE 13 RE 1,140 RE 2,157 RE 123 RE 8,741 RE 373 RE 481 RE 1,273 RE 18,81				3,452									1,470	18,555
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Average RE 353 E 15 RE 3,858 RE 1,430 RE 13 RE 1,140 RE 2,157 RE 123 RE 8,741 RE 373 RE 481 RE 1,273 RE 18,81	November		_12	^R 4,055	^R 1,427		^R 1,236	^R 2,235	^R 124		R 361	^R 395	^R 1,291	^R 18,734
Average RE 353 E 15 RE 3,858 RE 1,430 RE 13 RE 1,140 RE 2,157 RE 123 RE 8,741 RE 373 RE 481 RE 1,273 RE 18,81		F 167	<u>F</u> 10	E 3,880	^E 1,404	F 27	E 1,424	^{RF} 2,361	RF 98		^{RF} 381	E 524	RE 942	E 18,507
2012 January F167 F12 E3,625 E1,341 F15 E1,442 F2,490 F132 E8,060 F357 E450 E1,449 E18,09	Average	^{RE} 353	E 15	^{RE} 3,858	^{RE} 1,430	^{RE} 13	^{RE} 1,140	RE 2,157	^{RE} 123	^{RE} 8,741	RE 373	^{RE} 481	^{RE} 1,273	^{RE} 18,816
	2012 January	^F 167	^F 12	^E 3,625	^E 1,341	^F 15	^E 1,442	F 2,490	F 132	^E 8,060	F 357	^E 450	^E 1,449	^E 18,099

Liquefied petroleum gases.

^a Liquefied petroleum gases.
 ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
 ^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in

2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other." ^d Includes propylene. ^e Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended 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 500 barrels per day and greater than -500 barrels per day.

greater than -500 barrels per day.

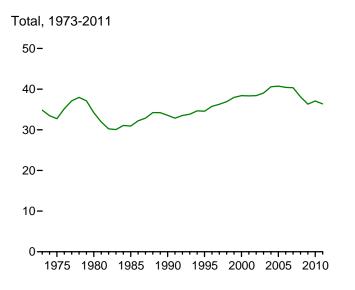
Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent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

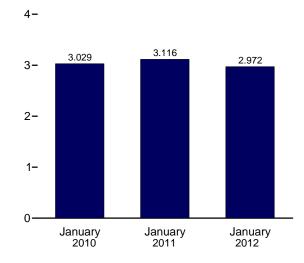
of Columbia. Web Pages:

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; and, for the current two months, *Weekly Petroleum Status Report* data system, Short-Term Integrated Forecasting System, and *Monthly Energy Review* data system calculations.

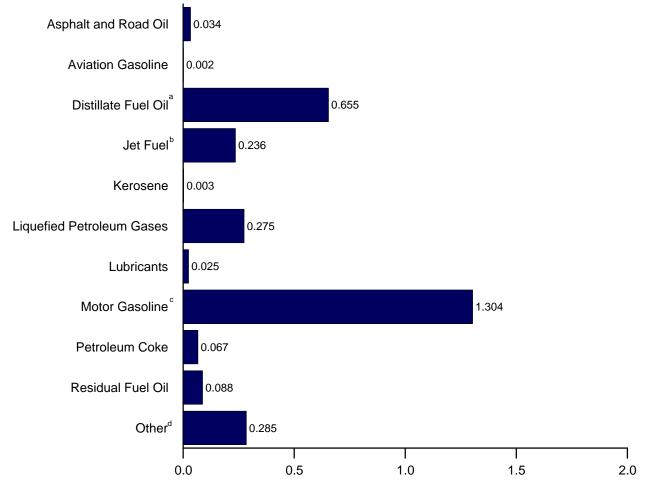
Figure 3.6 Heat Content of Petroleum Products Supplied by Type (Quadrillion Btu)

Total









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

^b Includes kerosene-type jet fuel only.

^c 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	Audation	Distillate	1-4	Kana	LP	G ^a	Lashad	Madan	Petro-	Desidual		
	and Road Oil	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Kero- sene	Propaned	Total	Lubri- cants	Motor Gasoline ^e	leum Coke	Residual Fuel Oil	Other ^f	Total
1973 Total	1,264	83	6,575	2,167	447	1,221	1,981	359	12,797	573	6,477	2,114	34,837
1975 Total	1,014	71	6,061	2,047	329	1,097	1,807	304	12,798	542	5,649	2,109	32,732
1980 Total	962	64	6,110	2,190	329	1,059	1,976	354	12,648	522	5,772	3,278	34,205
1985 Total	1,029	50	6,098	2,497	236	1,236	2,103	322	13,098	582	2,759	2,152	30,925
1990 Total	1,170	45	6,422	3,129	88	1,284	2,059	362	13,872	745	2,820	2,839	33,552
1995 Total	1,178	40	6,818	3,132	112	1,534	2,512	346	14,825	802	1,955	2,837	34,556
1996 Total	1,176	37	7,175	3,274	128	1,594	2,660	335	15,064	837	1,952	3,121	35,759
1997 Total	1,224	40	7,304	3,308	136	1,638	2,690	354	15,254	829	1,828	3,298	36,265
1998 Total	1,263	35	7,359	3,357	162	1,568	2,575	371	15,701	982	2,036	3,093	36,934
1999 Total	1,324	39	7,595	3,462	151	1,745	2,897	375	16,036	1,048	1,905	3,129	37,960
2000 Total	1,276 1,257	36	7,935	3,580	140 150	1,734 1,598	2,945 2,697	369	16,155	895	2,091	2,979 3,056	38,402
2001 Total 2002 Total	1,257	35 34	8,179 8,028	3,426 3,340	90	1,596	2,697	338 334	16,373 16,819	961 1,018	1,861 1,605	3,056	38,333 38,400
	1,240	34 30	8,028 8,349	3,340	113	1,747	2,652	309	16,981	1,018	1,605	3,040	38,400 39.051
2003 Total	1,220	30 31	8,652	3,205	133	1,701	2,746	309	17,379	1,000	1,772	3,204	40,593
2004 Total 2005 Total	1,304	35	8,755	3,363	133	1,721	2,624	313	17,444	1,133	2,111	3,420	40,595
2005 Total	1,323	33	8.864	3,475	111	1.701	2,002	303	17,444	1,133	1.581	3,316	40,732
2007 Total	1,201	32	8.921	3,358	67	1,729	2,700	313	17,689	1,077	1,659	3,313	40,420
2008 Total	1,012	28	8,411	3,193	30	1,620	2,574	291	17,168	1,022	1,432	2,941	38,101
				,		,	·			,	,		,
2009 January	40	2	736	231	8	172	235	23	1,395	80	148	247	3,144
February	51	1	630	215	6	144	215	16	1,291	72	79	214	2,792
March	62	2 2	676	247	3 2	140	226	21	1,440	78	115	208	3,079
April	59 76	2	604	244 234	2	113	201	23 19	1,413	90	128	209	2,976
May	102	2	621 614	234	2	97 98	193 183	23	1,469 1,437	94 97	84 107	206 208	3,000 3,016
June July	102	3	613	242	(s)	114	198	23	1,437	97 69	62	208	3,069
August	111	2	619	205	(3)	120	215	26	1,490	76	92	230	3,121
September	92	3	622	241	-1	116	205	23	1,395	85	64	234	2,963
October	78	2	660	239	4	145	203	23	1,454	61	96	218	3.078
November	57	1	628	230	4	175	272	21	1,394	64	84	192	2,949
December	42	2	697	241	5	190	278	22	1,445	72	113	219	3,136
Total	873	27	7,720	2,883	36	1,624	2,664	262	17,135	938	1,173	2,611	36,321
2010 January	42	2	668	236	3	195	294	22	1,378	50	120	215	3,029
February	46	1	629	213	5	164	255	23	1,253	56	91	202	2,776
March	54	2	692	254	2	142	246	26	1,422	79	103	252	3,134
April	66	3	657	240	1	105	198	24	1,426	70	111	251	3,046
May	78	2	657	254	2	106	207	24	1,482	63	101	240	3,111
June	103	3	654	263	3	104	206	28	1,458	74	94	237	3,122
July	97	3	640	263	3	109	217	27	1,504	72	116	242	3,183
August	110	2	692	261	2	116	220	24	1,497	81	93	259	3,241
September	92	3	679	248	1	120	219	25	1,426	78	97	227	3,097
October	89	2	681	251	3	135	233	24	1,458	63	95	215	3,114
November	59	2	677	238	8	134	228	23	1,380	70	104	227	3,014
December Total	42 878	2 27	754 8,080	243 2,963	9 41	194 1,624	298 2,821	21 291	1,441 17,127	69 826	102 1,228	233 2,800	3,214 37,082
2011 January	46	2	717	238	3	196	295	26	1.361	68	121	239	3,116
February	40	2	631	238	7	153	295	20	1,263	48	121	239	2,784
March	58	3	721	244	4	141	251	28	1,205	63	107	259	3,152
April	63	1	645	244	1	107	201	20	1,413	64	113	239	2,965
May	73	3	660	251	(s)	111	216	23	1,421	78	93	199	3.017
June	91	3	682	263	(3)	102	204	22	1,416	70	89	236	3,075
July	95	3	623	258	2	102	209	21	1,449	67	62	260	3,049
August	112	3	715	273	1	116	217	25	1,441	84	62	227	3,160
September	92	2	687	241	2	113	215	23	1,370	65	91	208	2,996
October	87	3	712	241	-1	136	234	20	1,395	77	78	201	3,047
November	^R 59	2	^R 709	^R 243	^R 2	^R 142	R 235	R 23	^R 1,335	^R 65	^R 74	^R 222	^R 2,968
December	F 34	F 2	E 701	E 247	F 5	E 169	^{RF} 260	RF 18	E 1,409	^{RF} 71	E 102	^{RE} 189	E 3,039
Total	^{RE} 855	⊑ 27	RE 8,202	^{RE} 2,959	RE 28	^{RE} 1,597	RE 2,779	RE 272	RE 16,647	^{RE} 819	^{RE} 1,103	^{RE} 2,677	RE 36,368
2012 January	^F 34	F 2	^E 655	^E 236	۶F	^E 172	F 275	F 25	^E 1,304	F 67	E 88	^E 285	^E 2,972

^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

2005, includes kerosene-type jet uer only, naphtra type jet tet a susset
"Other."
d 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.

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

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

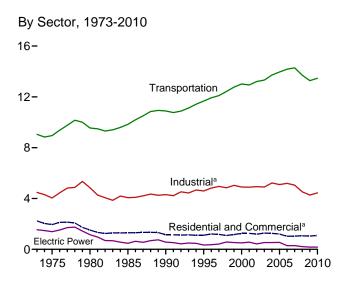
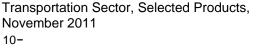
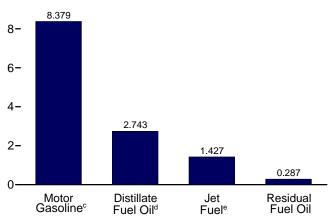


Figure 3.7 Petroleum Consumption by Sector (Million Barrels per Day)

Residential and Commercial Sectors,^a Selected Products, November 2011

1.0-0.8-0.6-0.548 0.534 0.4-0.2-0.040 0.027 0.0 LPG Distillate Residual Motor Fuel Oil Fuel Oil Gasoline





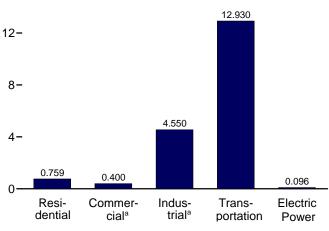
^a Includes combined-heat-and-power plants and a small number of electricity-only plants.

^b Liquefied petroleum gases.

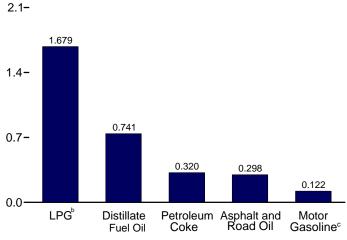
^c Includes fuel ethanol blended into motor gasoline.

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

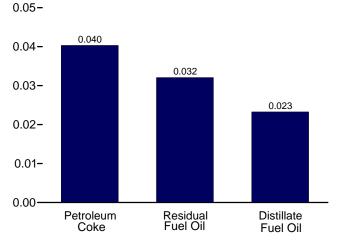
By Sector, November 2011 16-



Industrial Sector,^a Selected Products, November 2011



Electric Power Sector, November 2011



distillate fuel oil.

^e Includes kerosene-type jet fuel only.

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

Table 3.7a Petroleum Consumption: Residential and Commercial Sectors (Thousand Barrels per Day)

		Resident	ial Sector		Commercial Sector ^a								
	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petro- leum Coke	Residual Fuel Oil	Total		
1973 Average	942	110	407	1,459	303	31	105	45	NA	290	774		
1975 Average	850	78	365	1,293	276	24	92	46	NA	214	653		
1980 Average	617	51	222	890	243	20	63	56	NA	245	626		
1985 Average	514	77	224	815	297	16	68	50	NA	99	530		
1990 Average	460	31	252	742	252	6	73	58	0	100	489		
1995 Average	426	36	282	743	225	11	78	10	(s)	62	385		
1996 Average	434	43	334	811	227	10	87	14	(s)	60	397		
1997 Average	411	45	325	781	209	12	86	22	(s)	48	378		
1998 Average	363	52	303	718	202	15	84	20	(s)	37	358		
1999 Average	389	54	376	819	206	13	100	15	(s)	32	366		
2000 Average	424	46	395	865	230	14	107	23	(s)	40	415		
2001 Average	427	46	375	849	239	15	102	20	(s)	30	406		
2002 Average	404	29	384	817	209	8	101	24	(s)	35	376		
2003 Average	425	34	389	848	226	9	112	32	(s)	48	428		
2004 Average	433 402	41 40	364 366	839 809	221 210	10 10	108 94	23 24	(s)	53 50	416 389		
2005 Average	335	40 32	318	685	189	7	94 88	24	(s) (s)	33	343		
2006 Average	342	21	345	708	181	4	87	32	(s) (s)	33	343		
	342	10	394	718	174	2	113	24		32	345		
2008 Average	514	10	354	/10	1/4	2	115	24	(s)	52	545		
2009 January	445	33	399	877	306	5	101	27	(s)	52	491		
February	413	31	407	851	284	5	103	27	(s)	48	467		
March	358	12	389	760	246	2	99	28	(s)	42	416		
April	283	11	363	657	195	2	92	28	(0)	33	349		
May	191	11	338	540	131	2	86	28	õ	22	269		
June	183	9	330	521	126	1	84	29	Ō	21	261		
July	205	1	344	550	141	(s)	87	29	ō	24	281		
August	214	5	373	591	147	1	95	29	(s)	25	296		
September	259	-3	367	623	178	-1	93	28	(s)	30	329		
October	223	16	421	659	153	2	107	28	Ő	26	316		
November	226	16	482	725	155	3	122	28	(s)	26	335		
December	401	20	477	898	275	3	121	28	(s)	47	474		
Average	283	13	391	687	194	2	99	28	(s)	33	357		
2010 January	496	11	504	1,011	340	2	128	26	(s)	62	558		
February	508	26	482	1,016	349	4	122	27	(s)	63	565		
March	292	9	424	724	200	1	108	27	(s)	36	373		
April	211	5	351	567	145	1	89	28	(s)	26	289		
May	223	8	358	589	153	1	91	28	0	28	302		
June	263	12	369	644	181	2	94	29	0	33	338		
July	204	14	377	595	140	2	96	29	0	25	292		
August	182	7	386	575	125	1	98	29	(s)	23	276		
September	169	6	397	572	116	1	101	28	(s)	21	268		
October	252	11	405	668	173	2	103	28	(s)	31	337		
November	292	35	408	734	200	5	103	27	(s)	36	373		
December	466	38	510	1,014	320	6	129	28	(s)	58	541		
Average	295	15	414	724	203	2	105	28	(s)	37	375		
2011 January	387	13	507	907	266	2	129	26	(s)	48	471		
February	406	36	458	900	279	5	116	27	(s)	51	478		
March	277	19	436	733	190	3	111	27	(s)	34	366		
April	191	7	365	562	131	1	93	27	0	24	276		
May	126	(s)	380	506	86	(s)	96	27	0	16	226		
June	195	3	369	568	134	1	94	28	0	24	281		
July	174	7	367	549	120	1	93	28	0	22	264		
August	239	4	378	621	164	1	96	28	0	30	318		
September	261	10	388	658	179 R 105	1	98	27	0	33	339 8 200		
October	283	-3	408	688	R 195	(s)	103	27	0	35	R 360		
November	325 259	8 9	426	759 676	223	1	108 103	27 27	(s)	40 32	400 342		
11-Month Average			407		178	1			(s)				
2010 11-Month Average 2009 11-Month Average	280 272	13 13	405 383	698 667	192 187	2	103 97	28 28	(s) (s)	35 32	360 346		

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

an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c.
See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section.
Totals may not equal sum of components due to independent rounding.
Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum for all available data beginning in 1973. Sources: See end of section.

Table 3.7b Petroleum Consumption: Industrial Sector

(Thousand Barrels per Day)

					Industria	I 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
973 Average	522	691	75	902	88	133	254	809	1,005	4,479
975 Average	419	630	58	844	68	116	246	658	1,001	4,038
980 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
995 Average	480	557	9	1,580	78	105	343	146	1,518	4,334
996 Average	505	566	9	1,617	82	105	343	127	1,605	4,819
997 Average		570	9 11		86	105	390	100		4,955
998 Average	521			1,553	87	80		90	1,508	
999 Average	547	558	6	1,709			426		1,532	5,035
2000 Average	525	563	8	1,720	86	79	361	105	1,458	4,903
001 Average	519	611	11	1,557	79	155	390	89	1,481	4,892
002 Average	512	566	7	1,668	78	163	383	83	1,474	4,934
003 Average	503	534	12	1,561	72	171	375	96	1,579	4,903
004 Average	537	570	14	1,646	73	195	423	108	1,657	5,222
005 Average	546	594	19	1,549	72	187	404	123	1,605	5,100
006 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
008 Average	417	599	2	1,419	67	131	394	86	1,408	4,523
009 January	195	845	5	1,574	62	123	360	66	1,373	4,602
February	277	676	5	1,608	49	126	358	43	1,330	4,472
March	300	591	2	1,535	58	127	345	55	1,170	4,183
April	299	397	2	1,432	64	129	429	61	1,222	4,034
May	371	440	2	1,333	52	129	434	47	1,154	3,961
June	512	439	1	1,301	64	131	466	51	1,213	4,178
July	495	313	(s)	1.357	63	132	299	27	1,333	4.021
August	542	312	1	1,470	71	133	339	38	1,244	4,148
September	461	451	-1	1,449	64	127	400	30	1,372	4,353
October	377	564	3	1,659	63	128	288	42	1,236	4,360
November	287	608	3	1,902	60	120	314	41	1,132	4,300
December	204	621	3	1,881	59	127	331	54	1,241	4,522
Average	360	521	2	1,541	61	128	363	46	1,251	4,274
010 January	203	457	2	1,987	60	121	201	53	1,218	4,302
February	249	503	4	1,902	70	122	264	50	1,263	4,302
March	264	673	1	1,672	71	125	356	49	1,421	4,633
April	331	617	1	1,385	68	130	323	55	1,463	4,372
May	378	467	1	1,411	66	131	274	46	1,351	4,126
June	517	421	2	1,456	80	133	333	39	1,386	4,366
July	470	330	2	1,487	73	133	303	48	1,373	4,218
August	537	543	1	1,522	66	132	370	38	1,467	4,675
September	463	698	1	1,566	70	130	371	46	1,326	4,671
October	434	540	2	1,597	66	129	279	47	1,215	4,308
November	295	651	6	1,609	64	126	339	52	1,333	4,474
December	204	675	6	2,012	58	127	307	46	1,301	4,736
Average	362	548	2	1,633	68	128	310	48	1,343	4,442
011 January	224	791	2	1,999	70	120	283	57	1,349	4,893
February	248	631	6	1,808	62	123	215	58	1,264	4,414
March	280	796	3	1,722	76	125	266	51	1,468	4,786
April	314	587	1	1,439	68	125	304	56	1,381	4,275
May	354	594	(s)	1,498	62	125	366	44	1,114	4,158
June	455	614	(3)	1,456	61	129	324	43	1,394	4,476
July	463	305	1	1,450	57	123	286	27	1,470	4,187
	543	572	1	1,493	69	120	388	27	1,470	4,187
August	543 462	625	2		65	127	297	43		4,493 4,354
September	462 424	625 ^R 621		1,529	55			43 37	1,207	
October			(s)	1,608		123	362		1,132	R 4,362
November 11-Month Average	298 370	741 625	1 1	1,679 1,607	64 64	122 125	320 311	35 43	1,291 1,304	4,550 4,451
-				,					,	
010 11-Month Average 009 11-Month Average	377 375	536 511	2 2	1,598 1,510	68 61	128 128	310 366	48 46	1,347 1,252	4,415 4,251

^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

 ^c Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and residual rule of reclassified as uniministed as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel. R=Revised. (s)=Less than 500 barrels per day and greater than -500 barrels per

day. Notes: • Data are estimates. • For total petroleum consumption by all sectors, 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.

Sources: See end of section.

Table 3.7c Petroleum Consumption: Transportation and Electric Power Sectors

(Thousand Barrels per Day)

				Transportat	ion Secto	r			Electric Power Sector ^a				
	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	Tota	
973 Average	45	1,045	1,042	35	74	6,496	317	9,054	129	7	1,406	1,5	
975 Average	39	998	992	31	70	6,512	310	8,951	107	1	1,280	1,3	
980 Average	35	1,311	1,062	13	77	6,441	608	9,546	79	2	1,069	1,1	
985 Average	27	1,491	1,218	21	71	6,667	342	9,838	40	3	435	4	
	24	1.722	1.522	16	80	7.080	443	10.888	40	14	507	5	
990 Average					76		397		45 51	37	247	3	
995 Average	21	1,973	1,514	13	78	7,674	397	11,668			247	3	
996 Average	20	2,096	1,578	11		7,772		11,921	51	36			
997 Average	22	2,198	1,599	10	78	7,883	310	12,099	52	46	311	4	
998 Average	19	2,263	1,622	13	81	8,128	294	12,420	64	56	456	5	
999 Average	21	2,352	1,673	10	82	8,336	290	12,765	66	51	418	5	
000 Average	20	2,422	1,725	8	81	8,370	386	13,012	82	45	378	5	
001 Average	19	2,489	1,655	10	74	8,435	255	12,938	80	47	437	5	
002 Average	18	2,536	1,614	10	73	8,662	295	13,208	60	80	287	4:	
003 Average	16	2,665	1,578	12	68	8,733	249	13,321	76	79	379	5	
004 Average	17	2,783	1,630	14	69	8,887	321	13,720	52	101	382	5	
005 Average	19	2,858	1,679	20	68	8,948	365	13,957	54	111	382	5	
006 Average	18	3,017	1,633	20	67	9,029	395	14,178	35	97	157	2	
007 Average	17	3,037	1.622	16	69	9.093	433	14,287	42	78	173	2	
008 Average	15	2,824	1,539	29	64	8,834	400	13,704	34	70	104	2	
09 January	13	2,422	1,312	20	58	8,473	450	12,750	60	66	193	3	
February	10	2,452	1,356	21	47	8.683	271	12,840	40	67	85	1	
March	14	2,508	1,406	20	55	8,748	429	13,180	40	75	65	1	
April	15	2,555	1,432	19	61	8,872	526	13,480	26	69	57	1	
May	13	2,642	1,329	17	49	8,926	293	13,460	32	67	72	1	
	18			17	49 60	9,020	415		31	70	72	1	
June		2,734	1,425					13,689					
July	19	2,707	1,506	18	59	9,100	185	13,594	28	70	83	1	
August	15	2,723	1,449	19	67	9,133	312	13,719	30	68	97	1	
September	19	2,649	1,414	19	60	8,756	217	13,134	24	69	63	1	
October	11	2,688	1,362	22	60	8,830	358	13,332	26	41	68	1	
November	10	2,579	1,352	25	57	8,751	335	13,109	27	42	42	1	
December	15	2,531	1,372	24	56	8,776	440	13,215	33	54	41	1	
Average	14	2,600	1,393	20	57	8,840	353	13,279	33	63	79	1	
10 January	10	2,328	1,344	26	57	8,372	407	12,542	79	67	93	2	
February	10	2,464	1,343	25	66	8,430	364	12,702	30	69	38	1	
March	14	2,645	1,443	22	67	8,640	405	13,235	24	69	41	1	
April	17	2,763	1,410	18	64	8,950	468	13,690	23	62	40	1	
May	15	2,762	1,446	18	62	9,003	379	13,685	33	64	66	1	
June	18	2,837	1,543	19	75	9,149	323	13,965	41	78	105	2	
	20	2,827	1,494	19	69	9,139	401	13,969	42	81	120	2	
July													
August	14 20	2,945 2.873	1,486 1,457	20 20	63 66	9,095 8,954	317 384	13,940	34 29	63 62	98	1	
September								13,775			61		
October	15	2,784	1,430	21	62	8,859	373	13,543	25	56	37	1	
November	11	2,701	1,396	21	60	8,663	429	13,281	30	50	35	1	
December	12	2,655	1,383	26	55	8,756	354	13,241	60	63	67	1	
Average	15	2,716	1,432	21	64	8,836	384	13,468	38	65	67	1	
11 January	14	2,485	1,355	26	66	8,266	461	12,673	40	81	57	1	
February	13	2,524	1,343	23	59	8,497	482	12,943	31	67	36	1	
March	19	2,703	1,389	22	72	8,598	424	13,227	27	73	38	1	
April	7	2,749	1,451	19	64	8,610	474	13,373	31	49	46	1	
May	18	2,822	1,429	19	58	8,632	377	13,355	29	49	41	1	
June	17	2,928	1,545	19	58	8,889	360	13,815	32	62	44	1	
July	18	2,816	1,466	19	54	8,804	216	13,393	37	75	52	1	
August	18	2,959	1,555	19	65	8,752	217	13,586	26	65	45	1	
September	13	2,838	1,417	20	61	8,601	372	13,321	25	63	34	1	
October	16	2,822	1,370	21	52	8,473	297	13,051	22	48	32	1	
November	10	2,743	1,427	22	60	8,379	287	12,930	23	40	32	'	
11-Month Average	15	2,743 2,764	1,432	21	61	8,592	359	13,244	23	40 61	42	1	
10 11-Month Average	15	2,722	1,436	21	65		386		36	66	67	1	
10 11-Month Average 09 11-Month Average	15	2,722 2,607	1,430	21	65 58	8,844 8,846	300	13,489	1 30	66 64	67 82	1	

^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 it 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

¹ 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 3.7.a-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.

 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.

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

Residential and Commercial Sectors,^a 1973-2010 Residential and Commercial Sectors,^a Monthly 0.20-3-Distillate Fuel Oil 0.15 -2-**Distillate Fuel Oil** 0.10-Residual 1-Fuel Oil LPG⁵ 0.05-LPG Residual Fuel Oil Kerosene and a second second 1.2.2.2.2. 0 0.00............................. J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D 1975 1980 1985 1990 1995 2000 2005 2010 2009 2010 Industrial Sector,^a 1973-2010 Industrial Sector,^a Monthly 0.3-2.5-LPG[♭] Distillate 2.0-LPG[♭] Fuel Oil 0.2-1.5 Distillate Fuel Oil 1.0 0.1-Asphalt and Road Oil 0.5-Asphalt and Road Oil 0.0---0.0 J FMAM J JA SON D J FMAM J JA SON D J FMAM J JA SON D 1975 1980 1985 1990 1995 2000 2005 2010 2010 2009 Transportation Sector, 1973-2010 Transportation Sector, Monthly 1.8-20-Motor Gasoline 15-Motor Gasoline 1.2-10-0.6-Distillate Fuel Oild 5-Distillate Fuel Oild Jet Fuel® Jet Fuel^e 0-0.0 J F MA M J J A S O N D J F MA M J J A S O N D J F MA M J J A S O N D 2009 2010 2011 1985 1990 1995 2000 2005 2010 1975 1980 ^a Includes combined-heat-and-power plants and a small number of diesel) blended into distillate fuel oil. e Beginning in 2005, includes kerosene-type jet fuel only.

2011

2011

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

Sources: Tables 3.8a-3.8c.

electricity-only plants.

^b Liquefied petroleum gases.

° Beginning in 1993, includes fuel ethanol blended into motor gasoline. ^d Beginning in 2009, includes renewable diesel fuel (including bio-

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

		Residenti	al Sector		Commercial Sector ^a									
	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Total			
973 Total	2,003	227	570	2,800	644	65	147	87	NA	665	1,60			
975 Total	1,807	161	512	2,479	587	49	129	89	NA	492	1,34			
980 Total	1,316	107	311	1,734	518	41	88	107	NA	565	1,31			
985 Total	1,092	159	314	1,565	631	33	95	96	NA	228	1.08			
990 Total	978	64	352	1,394	536	12	102	111	0	230	99			
995 Total	905	74	395	1,374	479	22	109	18	(s)	141	76			
996 Total	926	89	469	1,484	483	21	122	27	(s)	137	79			
997 Total	874	93	455	1,422	444	25	120	43	(s)	111	74			
998 Total	772	108	424	1,304	429	31	118	39	(s)	85	70			
999 Total	828	111	526	1,465	438	27	140	28	(s)	73	70			
000 Total	905	95	555	1,554	491	30	150	45	(s)	92	80			
001 Total	908	95	526	1,529	508	31	143	37	(s)	70	79			
002 Total	860	60	537	1,457	444	16	141	45	(s)	80	72			
003 Total	905	70	544	1,519	481	19	157	60	(s)	111	82			
004 Total	924	85	512	1,520	470	20	152	45	(s)	122	81			
005 Total	854	84	513	1,451	447	22	131	46	(s)	116	76			
006 Total	712	66	446	1,224	401	15	123	49	(s)	75	66			
007 Total	726	44	484	1,254	384	9	121	61	(s)	75	65			
008 Total	669	21	553	1,243	372	4	158	46	(s)	73	65			
009 January	80	6	47	134	55	1	12	4	(s)	10	8			
February	67	5	44	116	46	1	11	4	(s)	8	7			
March	65	2	46	113	44	(s)	12	4	(s)	8	6			
April	49	2	42	93	34	(s)	11	4	Ó	6	5			
May	35	2	40	77	24	(s)	10	5	0	4	4			
June	32	1	38	71	22	(s)	10	4	0	4	4			
July	37	(s)	41	78	25	(s)	10	5	0	5	4			
August	39	1	44	84	27	(s)	11	5	(s)	5	4			
September	45	-1	42	87	31	(s)	11	4	(s)	6	5			
October	40	3	50	93	28	(s)	13	5	0	5	5			
November	40	3	55	98	27	(s)	14	4	(s)	5	5			
December	72	4	57	133	50	1	14	4	(s)	9	7			
Total	602	28	547	1,176	413	4	139	53	(s)	76	68			
010 January	90	2	60	151	61	(s)	15	4	(s)	12	9			
February	83	4	52	139	57	1	13	4	(s)	11	8			
March	53	2	50	105	36	(s)	13	4	(s)	7	6			
April	37	1	40	78	25	(s)	10	4	(s)	5	4			
May	40	1	43	84	28	(s)	11	5	Ó	5	4			
June	46	2	42	90	32	(s)	11	5	0	6	5			
July	37	3	45	84	25	(s)	11	5	0	5	4			
August	33	1	46	80	23	(s)	12	5	(s)	4	4			
September	30	1	46	76	20	(s)	12	4	(s)	4	4			
October	45	2	48	96	31	(s)	12	5	(s)	6	5			
November	51	6	47	104	35	1	12	4	(s)	7	5			
December	84	7	61	151	58	1	15	4	(s)	11	9			
Total	628	31	580	1,239	431	5	147	53	(s)	84	72			
011 January	70	2	60	132	48	(s)	15	4	(s)	9	7			
February	66	6	49	121	45	1	12	4	(s)	9	7			
March	50	3	52	105	34	1	13	4	(s)	7	5			
April	33	1	42	76	23	(s)	11	4	Ő	4	4			
Мау	23	(s)	45	68	16	(s)	11	4	0	3	3			
June	34	1	42	77	23	(s)	11	4	0	5	4			
July	31	1	44	76	22	(s)	11	5	0	4	4			
August	43	1	45	89	30	(s)	11	4	0	6	5			
September	46	2	45	92	31	(s)	11	4	Ō	6	5			
October	51	(s)	48	99	35	(s)	12	4	Ō	7	R 5			
November	57	1	49	107	39	(s)	12	4	(s)	8	6			
11-Month Total	505	18	522	1,044	346	3	132	47	(s)	68	59			
010 11-Month Total	544	25	519	1,088	373	4	132	49	(s)	73	63			
009 11-Month Total	529	24	490	1,044	363	4	124	49	(s)	66	60			

^a Commercial sector fuel use, including that at commercial

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

R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu and greater than -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 Soc. Petroleum products supplied is an approximation of petroleum consumption in rables 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)

	Industrial 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	203	3,056	9,181			
2002 Total	1,240	1,204	14	2,160	172	309	842	190	3,040	9,171			
2003 Total	1,220	1,136	24	2,030	159	324	825	220	3,264	9,202			
2004 Total	1,304	1,214	28	2,141	161	372	934	249	3,428	9,831			
2005 Total	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 January	40	153	1	173	12	20	67	13	247	725			
February	51	110	1	158	8	18	60	8	214	629			
March	62	107	(s)	166	11	21	64	11	208	649			
April	59	69	(s)	146	12	20	78	12	209	606			
May	76	79	(s)	140	10	21	81	9	206	623			
June	102	77	(s)	133	12	20	84	10	208	646			
July	102	57	(s)	144	12	21	56	5	236	634			
August	111	56	(s)	157	13	21	63	7	220	650			
September	92	79	(s)	150	12	20	72	6	234	665			
October	78	102	(s)	178	12	21	54	8	218	670			
November	57	106	(s)	200	11	20	57	8	192	651			
December	42	112	1	204	11	21	62	11	219	682			
Total	873	1,107	4	1,950	135	244	799	106	2,611	7,829			
2010 January	42	83	(s)	216	11	20	38	10	215	635			
February	46	82	1	188	12	18	45	9	202	602			
March	54	122	(s)	181	13	20	67	10	252	718			
April	66	108	(s)	145	12	20	58	10	251	672			
May	78	84	(s)	151	12	21	51	9	240	648			
June	103	74	(s)	150	14	21	60	7	237	667			
July	97	60	(s)	158	14	21	57	9	242	658			
August	110	98	(s)	160	12	21	69 67	7	259	738			
September	92	122	(s)	160	13	20	67	9	227	710			
October	89 59	98 114	(s) 1	170 166	12 12	21 20	52 61	9 10	215 227	666 669			
November	59 42	114 122	1	166 219	12 11	20	61 57	10 9	227	669 714			
December Total	42 878	1,165	5	2,065	149	244	682	109	233 2,800	8,097			
				,									
2011 January February	46 46	143 103	(s) 1	216 177	13 11	19 18	53 36	11 10	239 202	741 603			
March	40 58	144	1	183	14	20	50	10	202	737			
April	50 63	144	(s)	163	14	20	50 55	10	239	643			
Арпі Мау	73	103	(S) (S)	147	12	20	55 68	9	234 199	646			
June	91	107	(S) (S)	149	12	20	59	8	236	681			
July	95	55	(s)	143	11	20	53	5	260	653			
August	112	103	(s)	152	13	21	72	5	200	711			
September	92	103	(s)	157	13	20	54	8	208	659			
October	87	112	(S)	171	10	20	68	7	200	676			
November	59	129	(S)	171	12	19	58	7	222	677			
11-Month Total	821	1,216	3	1,837	130	217	625	91	2,488	7,429			
2010 11-Month Total 2009 11-Month Total	836 831	1,043 995	4	1,846 1,745	139 123	224 224	624 737	100 96	2,567 2,392	7,383 7,147			

^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

 ^c Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and residual rule of reclassified as unimitated 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.

Notes: • Data are estimates. • For total heat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a-3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

			- 10.)						1			
				Transporta	tion Secto	r			E	lectric Po	wer Sector ^a	
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oil ^e	Petro- leum Coke	Residual Fuel Oil ^f	Total
1973 Total	71	2,222	2,131	49	163	12,455	727	17,832	273	15	3,226	3,515
1975 Total		2,121	2,029	43	155	12,485	711	17,615	226	2	2,937	3,166
1980 Total		2,795	2,179	18	172	12,383	1,398	19,009	169	5	2,459	2,634
1985 Total		3,170	2,497	30	156	12,784	786	19,472	85	7	998	1,090
1990 Total 1995 Total 1995 Total 1996 Total 1997 Total	45 40 37 40	3,661 4,195 4,469 4,672	3,129 3,132 3,274 3,308	23 18 16 14	176 168 163 172	13,575 14,607 14,837 14,999	1,016 911 851 712	21,626 23,070 23,648 23,918	97 108 109 111	30 81 80 102	1,163 566 628 715	1,289 755 817 927
1998 Total	35	4,812	3,357	18	180	15,463	674	24,538	136	124	1,047	1,306
1999 Total		5,001	3,462	14	182	15,855	665	25,219	140	112	959	1,211
2000 Total		5,165	3,580	12	179	15,960	888	25,820	175	99	871	1,144
2001 Total		5,292	3,426	14	164	16,041	586	25,557	171	103	1,003	1,277
2002 Total 2003 Total 2004 Total 2005 Total	31 35	5,392 5,666 5,932 6,076	3,340 3,265 3,383 3,475	14 17 19 28	162 150 152 151	16,465 16,597 16,962 17,043	677 571 740 837	26,085 26,297 27,219 27,645	127 161 111 115	175 175 222 243	659 869 879 876	961 1,205 1,212 1,235
2006 Total	32	6,414	3,379	27	147	17,197	906	28,105	74	214	361	648
2007 Total		6,457	3,358	22	152	17,321	994	28,335	89	171	397	657
2008 Total		6,020	3,193	40	141	16,872	920	27,214	73	154	240	468
2009 January	2	437	231	2	11	1,371	88	2,142	11	12	38	61
February	1	400	215	2	8	1,269	48	1,943	6	11	15	33
March	2	453	247	2	10	1,415	84	2,214	7	14	13	34
April		446	244	2	11	1,389	99	2,194	5	12	11	28
May	3	477	234	2	9	1,444	57	2,225	6	13	14	32
June		478	242	2	11	1,412	78	2,226	5	13	15	33
July August	3	489 492	265 255	2	11 13	1,472 1,477	36 61	2,278 2,302	5 5	13 13	16 19	34 37
September	1	463	241	2	11	1,371	41	2,131	4	13	12	29
October		485	239	3	11	1,428	70	2,239	5	8	13	26
November		451	230	3	10	1,370	63	2,129	5	8	8	20
December		457	241	3	10	1,420	86	2,219	6	10	8	24
Total		5,528	2,883	28	127	16,837	810	26,240	70	139	181	390
2010 January	1	420	236	3	11	1,354	79	2,105	14	12	18	45
February		402	213	3	11	1,232	64	1,926	5	12	7	23
March		478	254	3	13	1,398	79	2,225	4	13	8	25
April	3	483	240	2	12	1,401	88	2,228	4	11	8	23
May	2	499	254	2	12	1,456	74	2,299	6	12	13	31
June	3	496	263	2	14	1,432	61	2,270	7	14	20	41
July	3	511	263	2	13	1,478	78	2,348	8	15	23	46
August	2	532	261	2	12	1,471	62	2,342	6	12	19	37
September	3	502	248	2	12	1,402	72	2,241	5	11	12	28
October November December Total	2 2	503 472 479 5,776	251 238 243 2,963	2 2 3 30	12 11 10 141	1,433 1,356 1,416 16,830	73 81 69 880	2,276 2,162 2,223 26,646	4 5 11 80	10 9 12 144	7 7 13 154	22 21 36 378
2011 January	2	449	238	3	12	1,337	90	2,132	7	15	11	33
February March April	3 1	412 488 480	213 244 247	3 3 2	10 14 12	1,241 1,391 1,348	85 83 89	1,966 2,225 2,179	5 5 5	11 14 9	6 7 9	23 26 23
May	3	510	251	2	11	1,396	73	2,246	5	9	8	22
June	3	512	263	2	10	1,391	68	2,249	6	11	8	25
July	3	508	258	2	10	1,424	42	2,248	7	14	10	31
August	3	534	273	2	12	1,416	42	2,283	5	12	9	25
September	2	496	241	2	11	1,346	70	2,169	4	11	6	22
October	3	510	241	2	10	1,371	58	2,194	4	9	6	19
November	2	479	243	3	11	1,312	54	2,103	4	7	6	17
11-Month Total	25	5,378	2,712	27	123	14,973	755	23,993	57	123	87	267
2010 11-Month Total	25	5,296	2,720	27	131	15,413	811	24,423	70	132	141	343
2009 11-Month Total	24	5,071	2,642	25	117	15,417	724	24,021	64	129	173	366

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

^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-tyne and nanhtha-tyne iet fuel. Beginning in

^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 3.8b.
^d Finished motor gasoline. Beginning in 1993, also includes fuel ethanol

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

¹ 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 roundent roundent or superior and the District. 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.

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: 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.

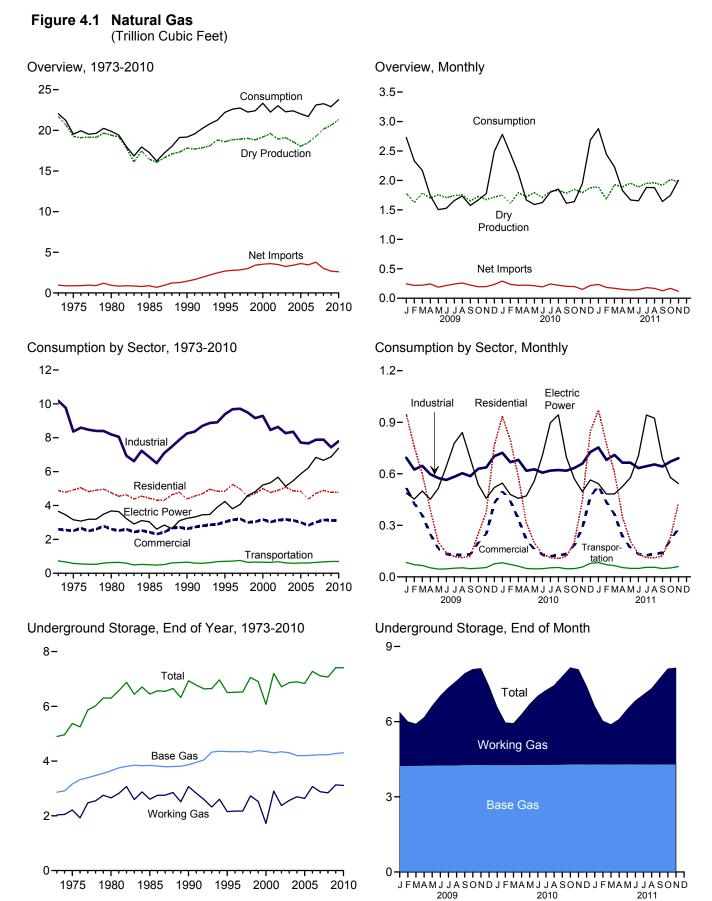
Motor Gasoline

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. THIS PAGE INTENTIONALLY LEFT BLANK

4. Natural Gas



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

Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

	Gross	Marketed			Supple- mental		Trade		Net Storage		
	With- drawals ^a	Production (Wet) ^b	Extraction Loss ^c	Dry Gas Production ^d	Gaseous Fuels ^e	Imports	Exports	Net Imports	With- drawals ^f	Balancing Item ^g	Consump- tion ^h
1973 Total	24,067	22,648	917	21,731	NA	1,033	77	956	-442	-196	22,049
1975 Total	21,104	20,109	872	19,236	NA	953	73	880	-344	-235	19,538
1980 Total	21,870	20,180	777	19,403	155	985	49 55	936 894	23 235	-640	19,877
1985 Total	19,607 21,523	17,270 18.594	816 784	16,454 17.810	126 123	950 1.532	55 86	894 1.447	-513	-428 307	17,281 ^j 19.174
1990 Total 1995 Total	21,525	19,506	908	18,599	123	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 66	4,341	729	3,612	52 -436	236	22,014
2006 Total 2007 Total	23,535 24.664	19,410 20.196	906 930	18,504 19,266	66 63	4,186 4,608	724 822	3,462 3.785	-436 192	103 -203	21,699 23.104
2007 Total	25,636	20,190	953	20,159	61	3,984	963	3,021	34	-203	23,104
2009 January	2.252	1.870	88	1,782	6	357	113	244	719	-21	2,730
February	2,074	1,705	81	1,624	5	322	103	218	380	105	2,333
March	2.262	1.875	89	1.786	6	325	104	221	98	59	2,171
April	2,148	1,783	84	1,699	5	322	80	242	-257	52	1,741
May	2,190	1,843	87	1,756	6	266	77	189	-475	29	1,504
June	2,141	1,792	85	1,707	5	282	66	216	-393	-8	1,528
July	2,170	1,828	86	1,741	6	317	76	240	-345	16	1,658
August	2,193	1,842	87	1,755	6	337	79	258	-280	-2	1,736
September	2,089	1,734	82	1,652	5	307	84	223	-301	-5	1,575
October	2,197	1,815	86	1,729	5	273	78	195	-172	-91	1,667
November	2,144	1,758	83	1,674	5	295	97	198 234	-36 707	-65 -172	1,776
December Total	2,196 26,057	1,802 21,648	85 1,024	1,717 20,624	5 65	350 3,751	115 1,072	2,679	-355	-172 -103	2,492 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 2,266	1,942 1,882	93 90	1,849 1,792	6 5	295 273	96 124	199 150	-360 77	-54 -78	1,639 1,947
November December	2,200	1,002	90 94	1,792	6	352	135	217	675	-78	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	85	^E 1.887	6	371	136	235	799	^R -48	^R 2,879
February	2,109	E 1,752	73	E 1,679	5	308	125	183	584	R -9	^R 2,443
March	2,423	E 2,020	91	E 1,928	6	314	145	170	145	^R -18	^R 2,231
April	2,363	E 1.979	88	E 1.891	5	278	127	152	-212	^R -5	^R 1.830
May	2,420	E 2,046	94	E 1,953	3	271	132	139	-398	^R -28	^R 1,668
June	2,330	E 1,977	89	E 1,888	5	265	120	146	-340	^R -45	^R 1,653
July	2,344	^E 2,044	92	^E 1,952	5	293	113	179	-244	^R -11	1,880
August	2,371	E 2,051	92	E 1,959	5	279	111	168	-244	^R -10	^R 1,878
September	2,371	E 2,005	88	E 1,917	5	253	127	127	-398	R-9	^R 1,641
October	R 2,496	RE 2,112	96	RE 2,016	5	265	97	168	-385	^R -57	R 1,747
November 11-Month Total	2,481 26,017	^E 2,072 E 22,030	96 985	^E 1,976 ^E 21,045	6 55	246 3,144	128 1,360	119 1,784	-37 -732	-60 -300	2,003 21,852
2010 11-Month Total	24,449	20,431	976	19,455	59	3,389	1,002	2,387	-688	-124	21,090
2009 11-Month Total	23,861	19,845	939	18,907	59 60	3,389	957	2,387 2,445	-1,062	-124 69	20,418

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

^a Gas withdrawn from natural gas and crude oil wells; excludes lease condensate.
^b Gross withdrawals minus repressuring, nonhydrocarbon gases removed, and vented and flared. See Note 1, "Natural Gas Production," at end of section.
^c See Note 2, "Natural Gas Extraction Loss," at end of section.
^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 producers may be counted in both "Other Industrial" and "Electric Power Sector" on Table 4.3. See Note 7, "Natural Gas Consumption, 1989-1992," at end of section. R=Revised. E=Estimate. NA=Not available.

R=Revised. E=Estimate. 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

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#naturalgas for all available data beginning in 1973.
 Sources: Imports and Exports: Table 4.2. Consumption: Table 4.3.
 Balancing Item: Calculated as consumption minus dry gas production, supplemental gaseous fuels, net imports, and net storage withdrawals. All Other Data: 1973-2005—U.S. Energy Information Administration (EIA), Natural Gas Annual, annual reports. 2006 forward—EIA, Natural Gas Monthly, January 2012, Table 1.

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

					Imports							Exports		
							Trinidad							
	Algeriaa	Canadab	Egypta	Mexicob	Nigeriaa	Qatara	and Tobago ^a	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	ŏ	ō	ŏ	ŏ	ŏ	ŏ	953	10	53	9	ŏ	73
1980 Total	86	797	Ó	102	Ó	Ó	Ó	Ó	985	0	45	4	Ó	49
1985 Total	24	926	0	0	0	0	0	0	950	0	53	2	0	55
1990 Total	84	1,448	0	0	0	0	0	0	1,532	17	53	16	0	86
1995 Total	18	2,816	0	7	0	0	0	0	2,841	28	65	61	0	154
1996 Total	35	2,883	0	14	0	0	0	5	2,937	52	68	34	0	153
1997 Total	66	2,899	0	17	0	0	0	12	2,994	56 40	62	38	0	157
1998 Total	69 76	3,052 3,368	0	15 55	0	20	51	17 17	3,152 3,586	40 39	66 64	53 61	0	159 163
1999 Total 2000 Total	47	3,566	Ő	12	13	46	99	21	3,380	73	66	106	Ö	244
2001 Total	65	3,729	ŏ	10	38	23	98	14	3,977	167	66	141	ŏ	373
2002 Total	27	3.785	ŏ	2	8	35	151	8	4.015	189	63	263	ŏ	516
2003 Total	53	3.437	ŏ	ō	50	14	378	11	3.944	271	66	343	ŏ	680
2004 Total	120	3,607	Ó	Ō	12	12	462	46	4,259	395	62	397	Ó	854
2005 Total	97	3,700	73	9	8	3	439	11	4,341	358	65	305	0	729
2006 Total	17	3,590	120	13	57	0	389	0	4,186	341	61	322	0	724
2007 Total	77	3,783	115	54	95	18	448	18	4,608	482	47	292	2	822
2008 Total	0	3,589	55	43	12	3	267	15	3,984	559	39	365	0	963
2009 January	0	324	5	6	0	0	19	3	357	84	2	28	0	113
February	0	293	6	(s)	0	0	16	6	322	75	3	25	0	103
March	0	293	12	1	0	0	17	3	325	77	3	24	0	104
April	0	259	22	7	8	0	20	6	322	55	2	23	0	80
May		216	15	1	0	0	31	3	266	46	2	29	0	77
June	0	230 270	14 14	1 2	0 3	0 0	34 21	3 6	282 317	37 42	2 4	28 31	0 0	66 76
July August	0	270	14	2	0	0	17	0	317	42	4	32	0	76
September	0	233	14	1	2	0	15	0	307	43	4	33	0	84
October	ŏ	244	15	2	0	ŏ	13	0	273	47	2	29	ő	78
November	õ	258	12	(s)	ŏ	8	17	ŏ	295	66	2	29	ŏ	97
December	õ	311	14	3	Ō	4	17	Ō	350	81	4	28	3	115
Total	0	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	0	257 248	9 6	4 2	9 11	0 0	16 11	3 5	298 282	55 51	2 2	29 34	0 3	86 90
June July	0	246 291	6	2	5	0	17	5 8	202 329	50	4	34	0	90 86
August	0	282	0	1	0	0	17	5	305	49	2	33	0	84
September	0	250	6	3	3	ő	16	3	282	50	7	23	Ő	79
October	õ	257	3	4	2	5	15	9	295	63	2	25	6	96
November	0	242	0	(s)	0	9	14	9	273	84	2	30	8	124
December	0	322	0	1	0	4	15	9	352	82	3	38	12	135
Total	0	3,280	73	30	42	46	190	81	3,741	739	33	333	32	1,137
2011 January	0	331	3	(s)	0	13	16	9	371	85	2	37	13	136
February	0	276	6	(s)	0	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 47	6 0	132
June	0	238 272	6 0	(s)	0	5 5	11 13	6 3	265 293	71 64	2 0	47 47	0	120 113
July August	0	272	0	(s) (s)	2	5 8	13	3	293 279	64 67	2	47 42	3	113
September	0	249	0	(s) (s)	2	4	8	9	253	77	2	39	8	127
October	0	233	3	1	0	8	8	12	265	53	0	41	3	97
November	ŏ	231	ŏ	(s)	ŏ	3	12	0	246	84	2	39	3	128
11-Month Total	ŏ	2,818	32	2	2	87	118	83	3,144	839	18	457	47	1,360
2010 11-Month Total	0	2,958	73	29	42	41	175	72	3,389	657	30	295	20	1,002
2009 11-Month Total	0	2,960	146	25	13	8	220	29	3,402	620	27	310	0	957

^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; Orman in 2000-2005; Peru in 2010 and 2011; United Arab Emirates in 1996-2000; Yemen in 2010 and 2011; United Arab Emirates in 1996-2000; Yemen in 2010 and 2011; Chile in 2011; India in 2010 and 2011; Russia in 2007; South Korea in 2009-2011; Spain in 2010 and 2011; and Uhried Kingdom in 2010 and 2011.

United Kingdom in 2010 and 2011.

(s)=Less than 500 million cubic feet.

(s)=Less than 500 million cubic feet. Notes: • See Note 9, "Natural Gas Imports and Exports," at end of section.
Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia. 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, January 2012, Table 4; and U.S. Department of Energy, 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			Т	ansportatio	n		
	Resi-	Com-	Lease and		Other Industr	ial		Pipelines ^d and Dis-	Vehicle		Electric	
	dential	merciala	Plant Fuel	CHPb	Non-CHP ^c	Total	Total	tributione	Fuel	Total	Sector ^{f,g}	Total
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total	4,879 4,924 4,752 4,433 4,391	2,597 2,508 2,611 2,432 2,623	1,496 1,396 1,026 966 1,236	(h) (h) (h) (h) 1,055	8,689 6,968 7,172 5,901 ¹ 5,963	8,689 6,968 7,172 5,901 ¹ 7,018	10,185 8,365 8,198 6,867 8,255	728 583 635 504 660	NA NA NA (s) 5	728 583 635 504 660	3,660 3,158 3,682 3,044 13,245	22,049 19,538 19,877 17,281 ¹ 19,174
1995 Total 1996 Total 1997 Total 1998 Total 1999 Total	4,850 5,241 4,984 4,520 4,726	3,031 3,158 3,215 2,999 3,045	1,220 1,250 1,203 1,173 1,079	1,258 1,289 1,282 1,355 1,401	6,906 7,146 7,229 6,965 6,678	8,164 8,435 8,511 8,320 8,079	9,384 9,685 9,714 9,493 9,158	700 711 751 635 645	6 8 9 12	705 718 760 645 657	4,237 3,807 4,065 4,588 4,820	22,207 22,609 22,737 22,246 22,405
2000 Total 2001 Total 2002 Total 2003 Total 2004 Total	4,996 4,771 4,889 5,079 4,869	3,182 3,023 3,144 3,179 3,129	1,151 1,119 1,113 1,122 1,098	1,386 1,310 1,240 1,144 1,191	6,757 6,035 6,287 6,007 6,066	8,142 7,344 7,527 7,150 7,256	9,293 8,463 8,640 8,273 8,354	642 625 667 591 566	13 15 15 18 21	655 640 682 610 587	5,206 5,342 5,672 5,135 5,464	23,333 22,239 23,027 22,277 22,403
2005 Total 2006 Total 2007 Total 2008 Total	4,827 4,368 4,722 4,892	2,999 2,832 3,013 3,153	1,112 1,142 1,226 1,220	1,084 1,115 1,050 955	5,518 5,412 5,604 5,715	6,601 6,527 6,655 6,670	7,713 7,669 7,881 7,890	584 584 621 648	23 24 25 26	607 608 646 674	5,869 6,222 6,841 6,668	22,014 21,699 23,104 23,277
2009 January February March April May	948 756 600 390 201	518 427 358 249 166	110 101 111 105 108	81 71 79 74 77	502 452 457 419 391	583 524 536 492 468	693 625 646 598 575	81 69 64 51 43	2 2 2 2 2	83 71 66 53 46	487 453 500 451 515	2,730 2,333 2,171 1,741 1,504
June July August September	141 119 111 120 251	134 128 129 131 199	105 107 108 102 107	82 89 92 88 85	377 387 403 395 437	459 476 495 484 522	564 583 603 586 629	44 48 50 46 48	2 2 2 2 2 2	46 50 53 48 51	643 778 840 690 537	1,528 1,658 1,736 1,575
October November December Total	376 764 4,779	251 429 3,119	107 105 107 1,275	81 91 990	437 452 505 5,178	533 596 6,167	629 637 703 7,443	48 52 74 670	2 2 2 27	54 76 697	457 520 6,873	1,667 1,776 2,492 22,910
2010 January February March April June July	934 796 580 313 198 134 111	499 441 337 215 161 130 120	106 98 109 104 107 102 107	90 80 84 79 82 84 91	526 490 488 435 437 420 420	616 570 572 514 519 504 512	722 667 681 618 626 607 619	80 70 60 46 44 45 50	3 2 3 3 3 3 3 3	82 72 62 49 47 48 53	546 480 457 471 560 706 897	2,783 2,456 2,117 1,667 1,591 1,624 1,800
August September October November December Total	107 117 202 447 848 4,787	127 133 185 287 467 3,102	108 107 112 108 114 1,282	95 87 84 82 92 1,029	419 424 438 469 521 5,488	514 511 522 551 613 6,517	622 618 634 659 727 7,800	52 45 45 55 76 669	3 3 3 3 3 31	55 47 48 57 79 700	943 697 570 497 564 7,387	1,853 1,612 1,639 1,947 2,685 23,775
2011 January February March April June July	971 774 608 348 208 133 112	529 435 365 236 168 133 126	RE 113 E 100 RE 116 RE 113 RE 117 RE 113 RE 117 RE 117	89 79 81 82 87 83 88	551 501 513 469 461 437 439	640 581 594 552 548 520 527	R 753 R 681 R 710 R 665 R 665 R 633 R 644	E 81 E 69 E 63 E 51 E 47 RE 47 E 53	E 3 E 3 E 3 E 3 E 3 E 3 E 3	E 84 E 71 E 66 E 54 E 50 E 49 E 56	542 482 483 526 578 705 942	R 2,879 R 2,443 R 2,231 R 1,830 R 1,668 R 1,653 1,880
August September October November 11-Month Total	110 123 229 429 4,046	133 141 216 280 2,761	RE 117 RE 115 RE 121 E 119 E 1,261	89 84 81 86 930	^R 448 ^R 444 469 487 5,219	537 ^R 528 550 572 6,149	^R 655 ^R 643 ^R 671 691 7,410	E 53 E 46 E 49 E 57 E 615	E 3 E 3 E 3 E 3 E 30	E 56 E 49 E 52 E 60 E 645	923 686 578 543 6,990	^R 1,878 ^R 1,641 ^R 1,747 2,003 21,852
2010 11-Month Total 2009 11-Month Total	3,940 4,015	2,635 2,690	1,168 1,168	937 899	4,967 4,673	5,904 5,572	7,073 6,740	592 596	28 25	620 621	6,823 6,353	21,090 20,418

^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 electricity-only plants.
 ^c All industrial gas consumed in the operation of pipelines, primarily in compressors.
 ^e Natural gas used as fuel in the delivery of natural gas to consumers.
 ^f The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.
 ^g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
 ^h Included in "Non-CHP."
 ⁱ For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector." See Note 7, "Natural Gas Consumption, 1989-1992," at end of section.
 ^R-Revised. E=Estimate. NA=Not available. (s)=Less than 500 million cubic feet. Notes:
 ^e 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.

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: 1973-2005—U.S. Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports and unpublished revisions. 2006 forward—EIA, NGA 2000, (November 2001), Table 74.e. Vehicle Fuel: 1990 and 1991—EIA, NGA 2000, (November 2001), Table 75.
 Sources to Traditional Transportation Fuels 1999" (October 1999), Table 10, and 'Alternatives to Traditional Transportation Fuels 2003" (February 2004), Table 10. Data for compressed natural gas and injuefied natural gas in gasoline-equivalent galons 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), 1999-2005—EIA, NGA, annual reports.2006 forward-EIA, NGA, January 2012, Table 2.

 Electric Power Sector: Table 7.4b.

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	U	Natural Gas in nderground Storage End of Period	€,	From Sar	Vorking Gas ne Period us Year		Storage Activity	
	Base Gas	Working Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,c}
973 Total	2.864	2.034	4.898	305	17.6	1.533	1.974	-442
975 Total	3.162	2,212	5,374	162	7.9	1,760	2,104	-344
	3,642	2,655	6,297	-99	-3.6	1,910	1,896	-344
980 Total	3,842			-270	-3.6 -9.4			231
985 Total		2,607	6,448			2,359	2,128	
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	4,301	2,904	6,715	-528	-18.2	3,138	2.670	-1,156
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 January	4,237	2,133	6,370	77	3.8	783	78	705
February	4,243	1,758	6.001	293	20.0	472	100	372
March	4,248	1,660	5,908	394	31.1	294	202	93
April	4,240	1,910	6,165	474	33.0	294	356	-251
April								
May	4,257	2,375	6,632	535	29.1	45	512	-467
June	4,268	2,760	7,028	583	26.8	62	448	-386
July	4,263	3,090	7,354	573	22.8	83	421	-338
August	4,267	3,359	7,626	493	17.2	88	362	-274
September	4,276	3,646	7,922	485	15.3	57	352	-295
October	4,281	3,810	8,091	410	12.1	99	266	-167
November	4,288	3,837	8,125	492	14.7	140	173	-33
	4,200	3,130	7,407	290	14.7	738		-33 694
December Total	4,277	3,130 3,130	7,407 7,407	290 290	10.2 10.2	2,966	44 3,315	-349
010 January	4.070	2.204	0.500	474		070	<u></u>	044
010 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	4,207	3,153	7,443	-206	-4.0	137	323	-186
	4,290	3,508	7,801	-206	-3.8	52	411	-359
September								
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
011 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
	4,304	1,789		-222	-4.3	108		-212
April			6,096				320	
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
	4,305	3,804	8,109	-46	-2.0	62	402	-385
October								
November 11-Month Total	4,302	3,843	8,145	74	2.0	198 2,686	235 3,418	-37 -732
						,	,	
010 11-Month Total						2,543	3,225	-682
009 11-Month Total						2,228	3,271	-1,043

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

liquefied natural gas storage for that period. ^c Positive numbers indicate that withdrawals are greater than injections.

^b 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. - = =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/#naturalgas for all available data beginning in 1973. Sources: • Storage Activity: 1973-1975—U.S. Energy Information

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

1976-1979—EIA, Natural Gas Production and Consumption 1979, Table 1. 1980-1995—EIA, Historical Natural Gas Annual 1930 Through 2000, Table 11. 1996-2005—EIA, Natural Gas Monthly (NGM), monthly issues. 2006 forward—EIA, NGM, January 2012, Table 6. • All Other Data: 1973 and 1974—American Gas Association, Gas Facts, 1972 Data, Table 57, Gas Facts, 1973 Data, Table 57, and 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," and FERC, Form FERC-8, "Underground Gas Storage Report." 1976-2006—EIA, NGM, monthly issues. 2007 forward—EIA, NGM, January 2012, Table 6. 1976-1979-EIA, Natural Gas Production and Consumption 1979, Table 1.

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	1987 8,124	1999	8,229
1976 6,544	1988 8,124	2000	8,241
1977 6,678	1989 8,120	2001	8,182
1978 6,890	1990 7,794	2002	8,207
1979 6,929	1991 7,993	2003	8,206
1980 7,434	1992 7,932	2004	8,255
1981 7,805	1993 7,989	2005	8,268
1982 7,915	1994 8,043	2006	8,330
1983 7,985	1995 7,953	2007	8,402
1984 8,043	1996 7,980	2008	8,499
1985 8,087	1997 8,332	2009	8,656
1986 8,145	1998 8,179	2010	8,764
	1	•	

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 shown in EIA's (see 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 -2000). 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).

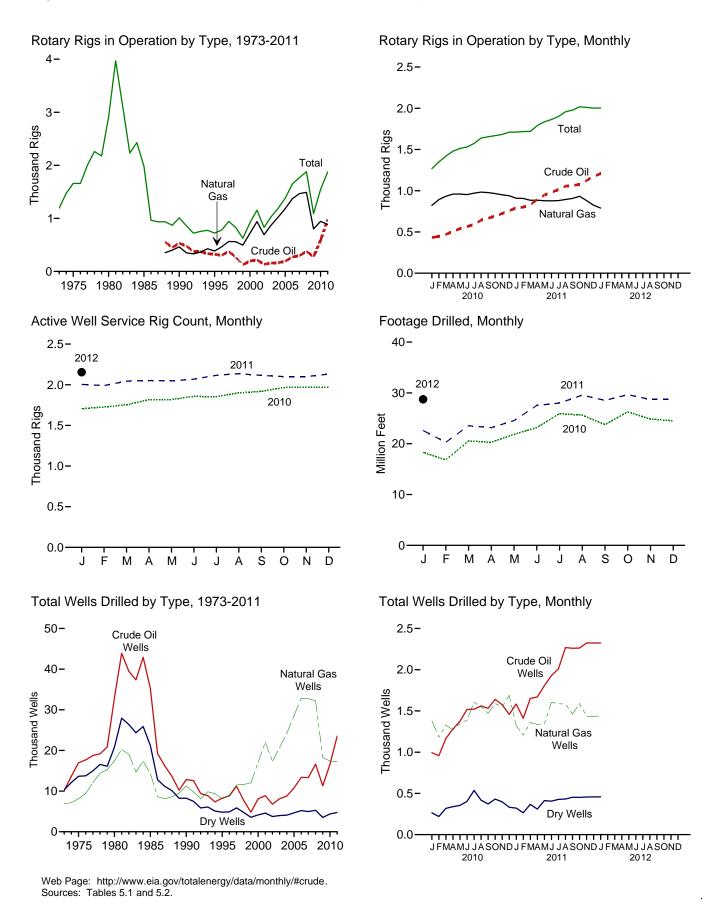
Note 9. Natural Gas Imports and Exports. The United States imports natural gas via pipeline from Canada and Mexico; and imports liquefied natural gas (LNG) via tanker from Algeria, Australia, Brunei, Egypt, Equatorial Guinea, Indonesia, Malaysia, Nigeria, Norway, Oman, Peru, Qatar, Trinidad and Tobago,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



		R	otary Rigs in Operatio	n ^a		
	Ву	Site	Ву	Туре		Active Well Service
	Onshore	Offshore	Crude Oil	Natural Gas	Total ^b	Rig Count ^c
1973 Average 1975 Average	1,110 1,554	84 106	NA NA	NA NA	1,194 1,660	2,008 2,486
1980 Average 1985 Average	2,678 1,774	231 206	NA NA	NA NA	2,909 1.980	4,089 4,716
1990 Average	902	108	532	464	1,010	3,658
1995 Average 1996 Average	622 671	101 108	323 306	385 464	723 779	3,041 3,445
1997 Average	821	122	376	564	943	3,499
1998 Average	703 519	123 106	264 128	560 496	827 625	3,014 2,232
1999 Average 2000 Average	778	140	120	720	918	2,232
2001 Average	1,003	153	217	939	1,156	2,267
2002 Average	717 924	113 108	137 157	691 872	830 1.032	1,830 1,967
2003 Average 2004 Average	1.095	97	165	1.025	1,032	2.064
2005 Average	1,287	94	194	1,184	1,381	2,222
2006 Average 2007 Average	1,559 1.695	90 72	274 297	1,372 1.466	1,649 1,768	2,364 2,388
2008 Average	1,814	65	379	1,491	1,879	2,515
2009 January	1,487	66	328	1,215	1,553	2,152
February March	1,263 1,059	57 46	271 225	1,037 867	1,320 1,105	1,947 1.825
April	947	48	209	775	995	1,718
May	864	54	187	723	918	1,646
June July	848 893	47 38	194 245	691 675	895 931	1,648 1.629
August	949	31	279	691	980	1,653
September	976	33	293	704	1,009	1,579
October November	1,011 1,071	33 36	312 362	722 734	1,044 1,107	1,613 1.625
December	1,136	37	404	758	1,172	1,625
Average	1,046	44	278	801	1,089	1,722
2010 January	1,225	42	433	822	1,267	1,706
February March	1,305 1,368	45 51	446 471	892 933	1,350 1,419	1,726 1,754
April	1,426	53	508	959	1,479	1,816
May	1,464 1,511	49 20	541 566	960 953	1,513 1,531	1,818 1,857
June July	1,558	20 15	591	953 971	1,573	1,852
August	1,619	20	644	983	1,638	1,900
September October	1,635 1.647	19 21	668 693	977 966	1,655 1.668	1,918 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 February	1,686 1.692	26 26	793 801	909 907	1,711 1.718	2,004 1,990
March	1,694	20	830	884	1,718	2.044
April	1,762	28	896	885	1,790	2,052
May	1,804 1.829	32 34	948 979	878 877	1,836 1,863	2,047 2.069
June July	1,829	34 35	1,014	877 880	1,863	2,069
August	1,923	35	1,055	894	1,957	2,136
September October	1,946 1,982	32 35	1,063 1,077	907 933	1,978 2,017	2,115 2,100
November	1,962	35 37	1,125	933 880	2,017	2,100
December	1,960	42	1,173	824	2,002	2,131
Average	1,844	32	980	888	1,876	2,075
2012 January	1,961	42	1,208	790	2,003	2,154

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements (Number of Rigs)

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

NA=Not available.

NA=Not available. Note: Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#crude for all available data beginning in 1973. Sources: • Rotary Rigs in Operation: By Site—Baker Hughes, Inc., Houston, Texas, Rotary Rigs Running—by State. By Type—Baker Hughes, Inc., Houston, Texas, weekly phone recording. • Active Well Service Rig Count: Cameron International Corporation, Houston, Texas. See http://www.c-a-m.com/Forms/Product.aspx?prodID=cdc209c4-79a3-47e5-99c2-fdeda6d4aad6.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

						Wells I	Drilled						
		Explor	atory	1		Develo	pment			То	tal		Total
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Footage Drilled
						Num	iber						Thousand Feet
1973 Total		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	180,494 316,943
1980 Total 1985 Total		2,099 1,200	9,081 8,954	12,957 11,834	31,182 33,581	15,362 13,124	11,704 12,257	58,248 58,962	32,959 35,261	17,461 14,324	20,785 21.211	71,205 70,796	314,409
1990 Total		811	3,652	5,241	12,061	10,435	4,593	27,089	12,839	11,246	8,245	32,330	156,106
1995 Total	570	558	2,024	3,152	7,678	7,524	2,790	17,992	8,248	8,082	4,814	21,144	117,202
1996 Total	489	576	1,956	3,021	8,347	8,451	2,934	19,732	8,836	9,027	4,890	22,753	126,444
1997 Total	491	562	2,113	3,166	10,715	10,936	3,761	25,412	11,206	11,498	5,874	28,578	161,460
1998 Total 1999 Total	327 197	566 570	1,590 1,157	2,483 1,924	7,355 4,608	11,073 11,457	3,171 2,393	21,599 18.458	7,682 4,805	11,639 12,027	4,761 3,550	24,082 20,382	137,334 102,865
2000 Total		657	1,341	2,286	7,802	16,394	2,805	27,001	8,090	17,051	4,146	29,287	144,526
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	180,152
2002 Total		844	1,282	2,384	6,517	16,498	2,472	25,487	6,775	17,342	3,754	27,871	145,217
2003 Total		997	1,297	2,644	7,779	19,725	2,685	30,189	8,129	20,722	3,982	32,833	177,392
2004 Total 2005 Total	383 539	1,671 2,141	1,350 1,462	3,404 4,142	8,406 10,240	22,515 26,449	2,732 3,191	33,653 39,880	8,789 10,779	24,186 28,590	4,082 4,653	37,057 44,022	204,334 240,525
2005 Total		2,141	1,462	4,142	12,739	26,449	3,659	39,880 46,780	13,385	26,590	4,653	44,022 51,429	240,525 282,921
2007 Total	808	2,794	1,582	5,184	12,522	29,925	3,396	45,843	13,330	32,719	4,978	51,027	301,564
2008 Total	897	2,345	1,715	4,957	15,736	29,901	3,569	49,206	16,633	32,246	5,284	54,163	334,008
2009 January	80	171	99	350	1,189	2,253	239	3,681	1,269	2,424	338	4,031	26,636
February		125	88	275	991	1,925	186	3,102	1,053	2,050	274	3,377	22,548
March		146	88	293	867	1,771	204	2,842	926	1,917	292	3,135	22,160
April		68	93	197	755	1,396	197	2,348	791	1,464	290	2,545	17,938
May		90	80 75	217 210	584 818	1,136	148	1,868	631	1,226	228	2,085	14,759 16.823
June July	44 40	91 100	105	245	813	1,333 1,234	192 220	2,343 2,267	862 853	1,424 1,334	267 325	2,553 2,512	16,023
August		84	88	243	891	1,421	210	2,522	940	1,505	298	2,743	17,401
September		74	98	234	945	1,192	208	2,345	1,007	1,266	306	2,579	15,863
October		83	80	219	982	1,200	226	2,408	1,038	1,283	306	2,627	16,871
November		83	84	205	944	1,148	202	2,294	982	1,231	286	2,499	16,034
December Total	34 607	101 1,216	89 1, 067	224 2,890	924 10,703	1,093 17,102	212 2,444	2,229 30,249	958 11,310	1,194 18,318	301 3,511	2,453 33,139	15,649 218,693
2010 January	53	96	86	235	941	1,284	178	2,403	994	1,380	264	2,638	18,302
February		71	69	184	913	1,112	151	2,176	957	1,183	220	2,360	16,825
March		85	93	236	1,109	1,245	226	2,580	1,167	1,330	319	2,816	20,537
April May	49 50	80 107	81 91	210 248	1,231 1,325	1,189 1,241	258 264	2,678 2,830	1,280 1,375	1,269 1,348	339 355	2,888 3,078	20,283 21,839
June		110	94	240	1,457	1,241	309	3,046	1,518	1,340	403	3,311	23,178
July		103	116	265	1,476	1,504	420	3,400	1,522	1,607	536	3,665	25,921
August	59	114	97	270	1,501	1,434	321	3,256	1,560	1,548	418	3,526	25,642
September		83	93	236	1,471	1,387	279	3,137	1,531	1,470	372	3,373	23,758
October November		87 114	123 109	287 288	1,564 1,510	1,503 1,439	308 288	3,375 3,237	1,641 1,575	1,590 1,553	431 397	3,662 3,525	26,271 24,843
December		92	74	200	1,310	1,439	258	3,257	1,459	1,689	332	3,525	24,643
Total	679	1,142	1,126	2,947	15,900	16,215	3,260	35,375	16,579	17,357	4,386	38,322	271,912
2011 January	70	83	87	240	1,514	1,239	235	2,988	1,584	1,322	322	3,228	22,604
February	64	64	64	192	1,347	1,143	201	2,691	1,411	1,207	265	2,883	20,290
March		75	70	216	1,581	1,285	297	3,163	1,652	1,360	367	3,379	23,548
April		83	62	221	1,593	1,253	248	3,094	1,669	1,336	310	3,315	23,161
May June	87 89	98 102	90 82	275 273	1,720 1.839	1,244 1.503	323 324	3,287 3.666	1,807 1,928	1,342 1.605	413 406	3,562 3,939	24,554 27,532
July		78	97	269	1,918	1,503	324	3,757	2,012	1,587	400	4,026	28,015
August	111	87	98	296	2,158	1,497	334	3,989	2,269	1,584	432	4,285	29,554
September	101	91	110	302	2,159	1,371	344	3,874	2,260	1,462	454	4,176	28,519
October		96	110	309	2,160	1,493	342	3,995	2,263	1,589	452	4,304	29,643
November	109 109	81 82	118 119	308 310	2,215 2,215	1,354	338 338	3,907	2,324 2,324	1,435 1,436	456	4,215	28,703 28,717
December Total		8∠ 1,020	1,107	310 3,211	2,215 22,419	1,354 16,245	338 3,654	3,907 42,318	2,324 23,503	1,436 17,265	457 4,761	4,217 45,529	28,717 314,840
2012 January	109	83	120	312	2,215	1,354	338	3,907	2,324	1,437	458	4,219	28,731

Notes: • 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 exported data the counts show no this pare are frequently revised. See Note 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. Denver, CO.

Crude Oil and Natural Gas Resource Development

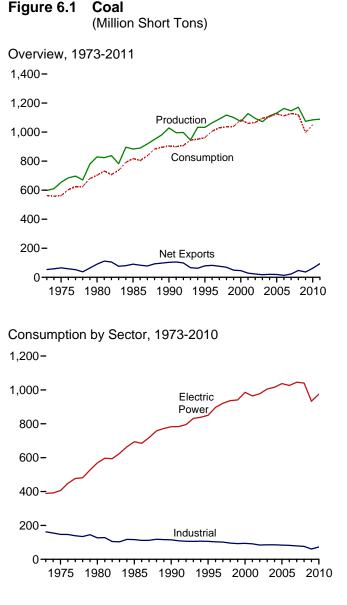
Note. Crude Oil and Natural Gas Exploratory and Development Wells. Three well types are considered in the *Monthly Energy Review* (*MER*) drilling statistics: "completed for crude oil," "completed for natural gas," and "dry hole." Wells that productively encounter both crude oil and natural gas are categorized 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.

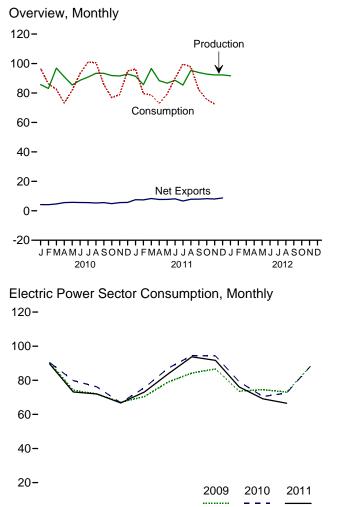
Prior to the March 1985 MER, drilling statistics consisted of

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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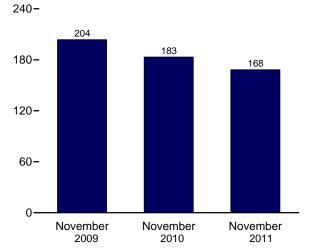


Electric Power Sector Stocks, End of Month

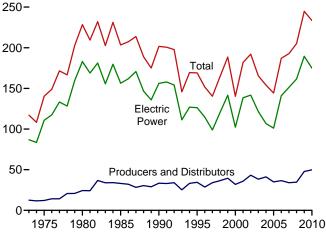
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Stocks, End of Year, 1973-2010



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

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Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste Coal		Trade		Stock	Losses and Unaccounted	
	Production ^a	Supplied ^b	Imports	Exports	Net Imports ^c	Changed	for ^e	Consumption
1973 Total	598.568	NA	127	53.587	-53,460	(^f)	^f -17,476	562,584
1975 Total	654,641	NA	940	66,309	-65,369	32,154	-5,522	562,640
1980 Total	829,700	NA	1,194	91,742	-90,548	25,595	10,827	702,730
1985 Total	883,638	NA	1,952	92,680	-90,727	-27,934	2,796	818,049
1990 Total	1,029,076	3,339	2,699	105,804	-103,104	26,542	-1,730	904,498
1995 Total	1,032,974	8,561	9,473	88,547	-79,074	-275	632	962,104
1996 Total	1,063,856	8,778	8,115	90,473	-82,357	-17,456	1,411	1,006,321
1997 Total	1,089,932	8,096	7,487	83,545	-76,058	-11,253	3,678	1,029,544
1998 Total	1,117,535	8,690	8,724	78,048	-69,324	24,228	-4,430	1,037,103
1999 Total	1,100,431	8,683	9,089	58,476	-49,387	23,988	-2,906	1,038,647
2000 Total	1,073,612	9,089	12,513	58,489	-45,976	-48,309	938	1,084,095
2001 Total	1,127,689	10,085	19,787	48,666	-28,879	41,630	7,120	1,060,146
2002 Total	1,094,283	9,052	16,875	39,601	-22,726	10,215	4,040	1,066,355
2003 Total	1,071,753	10,016	25,044	43,014	-17,970	-26,659	-4,403	1,094,861
2004 Total	1,112,099	11,299	27,280	47,998	-20,718	-11,462	6,887	1,107,255
2005 Total	1,131,498	13,352	30,460	49,942	-19,482	-9,702	9,092	1,125,978
2006 Total	1,162,750	14,409	36,246	49,647	-13,401	42,642	8,824	1,112,292
2007 Total	1,146,635	14,076	36,347	59,163	-22,816	5,812	4,085	1,127,998
2008 Total	1,171,809	14,146	34,208	81,519	-47,311	12,354	5,740	1,120,548
2009 January	97,022	1,272	2,329	4,907	-2,578	-2,104	1,370	96,449
February	89,688	928	1,855	3,822	-1,968	7,901	626	80,121
March	96,062	1,121	2,141	4,605	-2,464	12,517	4,389	77,814
April	89,072	1,036	1,303	3,513	-2,210	13,303	2,577	72,019
May	85,236	1,065	2,283	3,552	-1,269	7,537	2,231	75,264
June	88,708	1,118	1,840	5,886	-4,045	2,746	-792	83,827
July	90,847	1,248	2,018	4,477	-2,459	-781	1,282	89,134
August	90,308	1,206	1,568	5,056	-3,488	-4,988	1,282	91,731
September	88,185	1,113	1,854	5,625	-3,771	4,868	1,902	78,757
October	88,002	1,142	1,762	6,364	-4,603	4,561	-54	80,035
November	85,564	1,164	1,506	5,586	-4,080	2,724	1,423	78,502
December Total	86,229 1,074,923	1,252 13,666	2,179 22,639	5,703 59,097	-3,524 -36,458	-8,617 39,668	-1,252 14,985	93,826 997,478
2010 January	85,711	1,187	1,665	5,866	-4.202	-9.978	-3,933	96,607
February	83,087	908	1,239	5,386	-4,146	-6,588	323	86,115
March	96,904	1,192	1,899	6,554	-4,655	8,845	2,038	82,559
April	90,960	1,071	1,812	7,358	-5,545	11,519	1,858	73,108
May	85.401	1,138	1.475	7,220	-5,745	2.723	-3.819	81,890
June	88,621	1,219	1,771	7,387	-5,616	-9.407	331	93,301
July	90,795	1,273	1,390	6,928	-5,539	-15,570	1,262	100,837
August	93,350	1,261	1,702	7,001	-5,299	-8,837	-2,502	100,651
September	93,360	1,102	1,588	7,145	-5,556	5,040	-1,778	85,644
October	91,831	982	1,775	6,623	-4,849	11,425	-292	76,831
November	91,558	1,121	1,473	7,015	-5,542	8,840	-641	78,938
December	92,791	1,197	1,563	7,232	-5,669	-9,225	2,718	94,826
Total	1,084,368	13,651	19,353	81,716	-62,363	-11,215	-4,435	1,051,307
2011 January	91,398	1,187	1,014	8,509	-7,496	-11,881	722	96,248
February	85,618	1,030	843	8,275	-7,432	-6,225	5,897	79,544
March	96,608	1,068	1,524	9,832	-8,308	3,605	7,155	78,607
April	88,335	910	1,136	8,843	-7,706	8,695	-6	72,849
May	86,652 88,647	852 1,109	1,313 970	9,042	-7,730 -8,132	1,995 -10,104	-1,626 1,757	79,405 89,971
June		1,109		9,102				99.641
July	85,375 95,362	1,173	1,208 1,545	7,865 9,387	-6,657 -7,843	-16,240 -11,240	-3,510 2,153	99,641 97,749
August	95,362 93.889	1,142 1,087	1,545 835		-7,843 -7,888	-11,240 4,560	2,153 286	
September		F 1,087	835 917	8,723	-7,888 -8,242		-1,865	82,241 75,575
October November	92,794 92,244	^{RF} 1,069	^R 807	9,159 ^R 8,808	-8,242 ^R -8,001	11,911 ^R 10,115	^{-1,865} ^R 2,626	^{75,575} ^R 72,571
December	92,244 92,278	NA	^R 976	^R 9,713	^R -8,737	NA	NA	NA
Total	92,278 1,089,200	NA NA	^R 13,088	^R 107,259	^R -94,171	NA NA	NA NA	NA NA
2012 January	91,657	NA	NA	NA	NA	NA	NA	NA

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

and waste coal supplied, minus exports, stock change, and consumption. ^f In 1973, stock change is included in "Losses and Unaccounted for." R=Revised. NA=Not available. F=Forecast.

The purple of the analysis of the purple a supply-side item to balance the same amount of waste coal included in "Consumption." ^c Net imports equal imports minus exports. A minus sign indicates exports are greater than imports. ^d A negative value indicates a decrease in stocks; a positive value indicates an increase.

increase.

e "Losses and Unaccounted for" is calculated as the sum of production, imports,

R=Revised. NA=Not available. F=Forecast. Notes: • For methodology used to calculate production, consumption, and stocks, see Note 1, "Coal Production," Note 2, "Coal Consumption," and Note 3, "Coal Stocks," at end of section. • Data 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.

Sources: See end of section.

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

					End-L	Ise Sectors	6					
			Commerci	al			Industrial					
	Resi-				Coke		ther Industria			Trans-	Electric Power	
	dential	CHP ^a	Other ^b	Total	Plants	CHPC	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1973 Total 1975 Total	4,113 2,823	(g) (g)	7,004 6,587	7,004 6,587	94,101 83,598	(^h) (^h)	68,038 63,646	68,038 63,646	162,139 147,244	116 24	389,212 405,962	562,584 562,640
1980 Total	1,355	(9)	5,097	5,097	66,657	(h)	60,347	60,347	127,004	(^h) ²⁴	569,274	702,730
1985 Total	1,711	(°)	6,068	6,068	41,056	(h)	75,372	75,372	116,429	i h i	693,841	818,049
1990 Total	1,345	`1,191	4,189	5,379	38,877	27,781	48,549	76,330	115,207	(h)	782,567	904,498
1995 Total	755	1,419	3,633	5,052	33,011	29,363	43,693	73,055	106,067	(h)	850,230	962,104
1996 Total	721	1,660	3,625	5,285	31,706	29,434	42,254	71,689	103,395	(h)	896,921	1,006,321
1997 Total	711	1,738	4,015	5,752	30,203	29,853	41,661	71,515	101,718	(h) (h)	921,364	1,029,544
1998 Total	534	1,443 1.490	2,879	4,322	28,189	28,553	38,887	67,439	95,628	('') (h)	936,619	1,037,103
1999 Total 2000 Total	585 454	1,490	2,803 2,126	4,293 3,673	28,108 28,939	27,763 28,031	36,975 37,177	64,738 65,208	92,846 94.147	(h)	940,922 985,821	1,038,647 1,084,095
2000 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	('n)	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		1,040,580	1,120,548
2009 January	44	208	148	356	1,390	1,793	2,225	4,018	5,409	(^h)	90,640	96,449
February	38	178	126	305	1,449	1,605	2,470	4,075	5,524	(h) (h)	74,254	80,121
March	36	170 128	120 71	290 199	1,559	1,692	2,289 2,036	3,981	5,540	('') (h)	71,948	77,814
April May	25 22	128	65	199	1,150 1,118	1,487 1,550	2,036	3,522 3,517	4,673 4,635	(h)	67,123 70,425	72,019 75,264
June	26	135	75	211	1,134	1,600	1,903	3,503	4,637	}h {	78,954	83,827
July	23	137	49	186	1,032	1,659	1,991	3,650	4,682	ζh j	84,243	89,134
August	24	143	51	194	1,168	1,694	2,017	3,710	4,878	(h)	86,635	91,731
September	21	127	45	172	1,250	1,611	2,136	3,747	4,997	(h)	73,566	78,757
October	27	129	88	216	1,431	1,671	2,170	3,841	5,272	(h)	74,520	80,035
November	31	151	103	255	1,274	1,622	2,257	3,878	5,153	(h)	73,063	78,502
December	36	174	119	293	1,371	1,783	2,088	3,871	5,242	(h)	88,255	93,826
Total	353	1,798	1,059	2,857	15,326	19,766	25,549	45,314	60,641	('n)	933,627	997,478
2010 January	43	193	156	349	1,472	2,094	2,197	4,291	5,763	(<u>h</u>)	90,452	96,607
February	37	167	136	303	1,584	1,978	2,329	4,306	5,891	(h)	79,884	86,115
March	33	149	121	271	1,801	2,124	2,220	4,344	6,145	(h) (h)	76,110	82,559
April	21 21	117 118	54 55	171 173	1,786 1,794	2,220 2,010	2,067 2,294	4,287 4,305	6,073 6,099	('') (h)	66,842 75,597	73,108 81,890
May June	21	135	62	173	1,794	1,898	2,294 2,378	4,305 4,276	6,099	h	87,030	93,301
July	24	142	48	190	1,783	2,122	2,199	4,321	6,104	}h {	94,519	100,837
August	25	152	52	203	1,814	2,194	2,167	4,361	6,175	(h)	94,247	100,651
September	22	133	45	178	1,894	1,941	2,432	4,373	6,268	(h)	79,176	85,644
October	26	121	86	207	1,731	1,958	2,419	4,376	6,107	(h)	70,492	76,831
November	27	128	90	218	1,787	1,854	2,538	4,392	6,179	(h)	72,514	78,938
December	35	165	116	281	1,874	2,246	2,202	4,448	6,321	(h)	88,189	94,826
Total	339	1,720	1,022	2,742	21,092	24,638	27,443	52,082	73,174	('n)	975,052	1,051,307
2011 January	40	178	144	322	1,746	2,320	2,139	4,458	6,204	(h) (h)	89,682	96,248
February	37	165	133	298	1,623	2,044	2,386	4,430	6,053	(") (h)	73,156	79,544
March April	35 23	158 124	127 63	285 187	1,819 1,668	2,088 1,767	2,371 2,463	4,459 4,230	6,278 5,898	(h)	72,009 66,741	78,607 72,849
May	23 24	124	65	193	1,878	2,126	2,403	4,230	6,088	$\left\{ \begin{array}{c} h \\ h \end{array} \right\}$	73,100	79,405
June	24	120	63	187	1,846	2,056	2,005	4,211	6,061	}h{	83,700	89,971
July	20	134	30	165	1,670	2,208	1,842	4,050	5,720	}h{	93,736	99,641
August	19	124	28	152	1,863	2,182	1,865	4,048	5,910	ìh γ́	91,667	97,749
September	18	121	27	149	1,874	2,100	1,969	4,069	5,943	(h)	76,131	82,241
October	F 26	116	F 96	F 213	F 2,449	2,080	F 1,699	F 3,779	F 6,228	(h)	69,109	75,575
November	F 26	123	F 91	[⊦] 214	F 2,022	1,835	F 1,916	F 3,751	F 5,773	(h)	66,557	72,571
11-Month Total	^E 292	1,495	E 869	^E 2,364	^E 20,458	22,806	^E 22,894	^E 45,700	^E 66,158	('n)	855,587	924,402
2010 11-Month Total	304	1,555	906	2,461	19,219	22,392	25,242	47,634	66,853	(^h)	886,863	956,481
2009 11-Month Total	317	1,624	940	2,564	13,956	17,982	23,461	41,443	55,399	('n)	845,371	903,651

^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

See Note, "Classification of Power Plants Into Energy-Use Sectors," at enu or 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." ^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.

⁹ Included in "Commercial Other."
 ^h Included in "Industrial Non-CHP."

 E=Estimate. F=Forecast.
 Notes: • CHP monthly values are from Table 7.4c; electric power sector monthly values are from Table 7.4b; all other monthly values are estimates derived from collected quarterly and annual data. See Note 2, "Coal Consumption," at end of section. • Data 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	117,155
75 Year	12,108	233	8,797	8,529	17,326	17,559	110,724	140,391
980 Year	24,379	NA	9,067	11,951	21,018	21,018	183,010	228,407
985 Year	33,133	NA	3,420	10,438	13,857	13,857	156,376	203,367
90 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
996 Year	28,648	NA	2,667	5,688	8,355	8,355	114,623	151,62
97 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	° 141,604	188,59
00 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	144,304
006 Year	36,548	NA	2,928	6,506	9,434	9,434	140,964	186,940
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	205,112
09 January	38,394	490	2,260	5,788	8,049	8,539	156,075	203,008
February	42,066	483	2,190	5,570	7,760	8,243	160,601	210,909
March	41.257	475	2,119	5,352	7,471	7.946	174,223	223,426
April	43,195	477	2,000	5,266	7,266	7,744	185,790	236,729
May	41.622	480	1.880	5,181	7,061	7,541	195,103	244,26
June	44,018	482	1,760	5,096	6,856	7,338	195,656	247,01
July	45.372	496	1,702	5.099	6.800	7,330	193,563	246,23
	42,457	510	1.644	5,101	6,745	7,255	191,532	240,23
August	42,457	510	1,585	5,101	6,690			241,244
September	43.882	524 526	1,565			7,214	197,208 199.477	
October	43,882 42.217	526 527	1,683	5,106 5.108	6,789	7,314		250,673
November December	42,217 47,718	527 529	1,780 1,957	5,108 5,109	6,888 7,066	7,415 7,595	203,765 189,467	253,397 244,78 0
	48,854	510	1,832	5,515	7,347	7,857	178,091	234,802
10 January	49,054	490	1,032	5,921	7,347	8,119	171.026	234,002
February	49,069 50,936	490	1,583	6,326	7,910	8,381	177,742	220,214
March				6,358				
April	50,761 50,900	482 494	1,715	6,391	8,073 8,237	8,556	189,260 191,669	248,577 251,299
May			1,846			8,730		
	51,497	505	1,978	6,423	8,400	8,905	181,490	241,892
July	47,935	509	1,948	6,425	8,373	8,882	169,504	226,322
August	48,638	513	1,918	6,427	8,346	8,859	159,987	217,484
September	49,913	517	1,889	6,430	8,319	8,836	163,776	222,524
October	49,430	529	1,901	6,403	8,304	8,833	175,686	233,949
November December	50,571 49,820	541 552	1,913 1,925	6,376 6,350	8,289 8,275	8,830 8,827	183,389 174,917	242,790 233,564
	,		,					,
11 January	48,295	536	1,937	6,076	8,012	8,548	164,840	221,684
February	45,750	520	1,948	5,802	7,750	8,269	161,439	215,458
March	44,336	503	1,959	5,528	7,487	7,990	166,737	219,063
April	45,585	500	1,958	5,717	7,675	8,175	173,999	227,759
Мау	46,775	497	1,957	5,906	7,863	8,360	174,619	229,754
June	45,398	494	1,956	6,096	8,051	8,545	165,707	219,650
July	46,926	498	2,082	5,937	8,019	8,517	147,967	203,410
August	44,445	502	2,221	5,777	7,998	8,500	139,225	192,170
September	43,763	506	2,405	5,618	8,023	8,529	144,438	196,730
October	^F 44,415	F 536	F 2,034	F 4,750	F 6,784	F 7,320	156,906	208,64
November	F 42,971	F 536	F 2,050	F 4,845	F 6,895	F 7,431	168,354	218,756

^a Through 1977, data are for stocks held by the manufacturing and transportation sectors. Beginning in 1978, data are for stocks held at manufacturing plants only.
 ^b The electric power sector comprises electricity-only and combined-heat-and-

^D 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,

^c Through 1998, data are for stocks at electric utilities only. Beginning in 1999, data also include stocks at independent power producers. NA=Not available. F=Forecast.

Notes: • Stocks are at end of period. • Electric power sector monthly values

are from Table 7.5; producers and distributors monthly values are estimates derived from collected annual data; all other monthly values are estimates derived from collected quarterly values. • Data 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.

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, endof-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.

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.

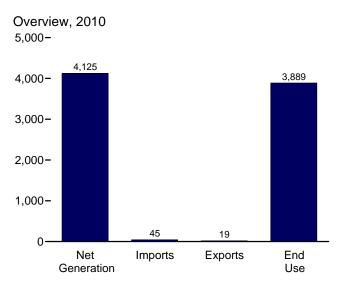
Electric Power

Table 7.5.

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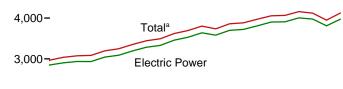


Figure 7.1 Electricity Overview (Billion Kilowatthours)



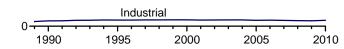
Net Generation by Sector, 1989-2010

5,000-



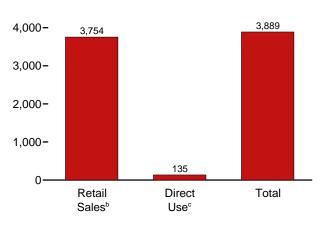
2,000-

1,000-

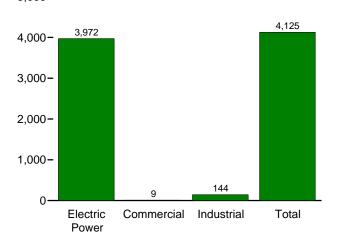




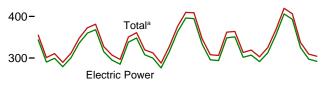




Net Generation, 2010 5,000-

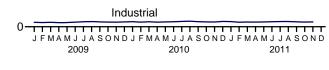


Net Generation by Sector, Monthly 500-

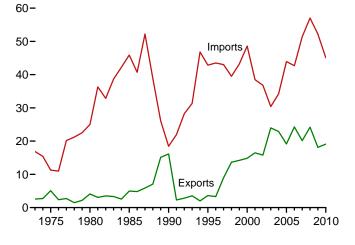


200-

100-



Trade, 1973-2010



^a Includes commercial sector.

^b Electricity retail sales to ultimate customers reported by electric utilities and other energy service providers. ° See "Direct Use" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Source: Table 7.1.

Electricity Overview Table 7.1

(Billion Kilowatthours)

		Net Gen	eration			Trade				End Use	
	Electric Power Sector ^a	Com- mercial Sector ^b	Indus- trial Sector ^c	Total	Imports ^d	Exports ^d	Net Imports ^d	T&D Losses ^e and Unaccounted for ^f	Retail Sales ^g	Direct Use ^h	Total
1973 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	2,470	6	131	2,473	18	16	2	203	2,324	125	2,324
1005 Total	3,194	8	151	3,353	43	4	39	203	3,013	125	3,164
1995 Total	3,194	o 9	151	3,353 3,444	43 43	4 3	39 40	229	3,101	151	
1996 Total	3,284	9				3 9					3,254
1997 Total	3,329		154	3,492	43		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 January	344	1	11	355	4	2	2	25	321	^E 10	332
February	290	1	10	301	4	2	2	7	287	E 10	297
March	299	1	11	311	3	2	1	18	284	E 10	294
April	279	1	10	290	3	1	2	16	266	E 10	275
May	300	1	10	311	4	1	3	29	275	E 10	285
June	336	1	11	348	5	2	3	35	305	⊑ 11	315
July	360	1	12	373	6	1	4	27	338	E 11	349
August	368	1	12	381	6	1	4	29	345	E 12	357
September	315	1	12	327	4	1	3	8	311	E 11	322
October	295	1	11	307	5	1	3	12	287	E 11	298
November	285	1	11	297	4	1	3	21	268	E 11	278
December	338	1	12	351	5	1	3	33	310	E 11	321
Total	3,810	8	132	3,950	52	18	34	261	3,597	127	3,724
2010 January	348	1	12	361	5	1	4	22	332	E 11	343
February	308	1	11	320	4	1	3	14	298	E 10	309
March	300	1	12	312	4	1	3	12	293	E 11	304
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	295
June	363	1	12	376	4	2	2	36	331	E 11	342
	396	1	13	410	4	1	3	32	369	E 12	381
July August	395	1	13	409	4	2	2	26	372	E 13	384
September	333	1	13	346	3	2	1	20	328	E 11	339
October	296	1	12	308	3	2	(s)	10	288	E 11	299
November	296	1	12	308	3	2	(S)	21	200 275	E 11	299 286
December	294 349	1	13	362	4	1	3	34	319	E 12	331
Total	3,972	9	144	4,125	45	19	26	262	3,754	135	3,889
				,		-				E . a	
2011 January	351	1	12	364	4	2	3	22	333	E 12	344
February	302	1	11	313	4	2	2	9	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	31	286	E 11	297
June	356	1	12	368	4	1	3	33	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	5	324	E 11	335
October	297	1	11	309	4	1	3	16	286	E 11	296
November	292	1	12	304	3	1	2	23	273	_ ^E 11	284
11-Month Total	3,632	8	130	3,769	48	14	34	255	3,427	^E 121	3,548
2010 11-Month Total 2009 11-Month Total	3,624 3,472	8 7	131 121	3,763 3,600	41 48	18 17	23 31	228 228	3,436 3,287	[⊑] 123 [⊑] 116	3,558 3,403

^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.

Commercial combined-heat-and-power (CHP) and industrial 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

^e Electricity information decision
 ^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.

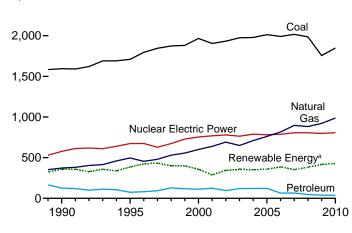
^g Electricity retail sales to ultimate customers by electric utilities and, beginning

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.

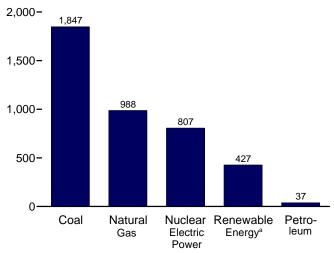
Sources: See end of section.

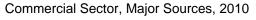
Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

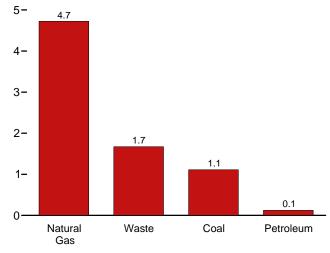
Total (All Sectors), Major Sources, 1989-2010 2,500-



Total (All Sectors), Major Sources, 2010



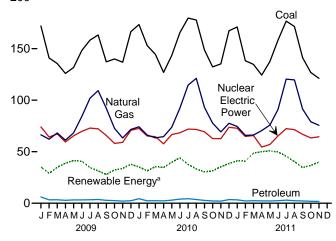




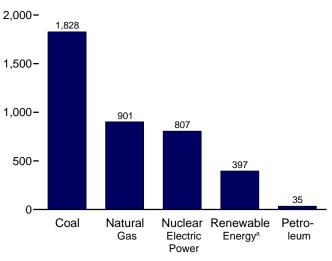
 $^{\rm a}$ Conventional hydroelectric power, wood, waste, geothermal, solar/PV, and wind.

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

Total (All Sectors), Major Sources, Monthly 200-

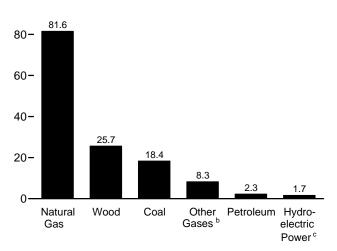


Electric Power Sector, Major Sources, 2010



Industrial Sector, Major Sources, 2010

100-



° Conventional hydroelectric power.

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

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

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

		Fossil F	uels						Renewabl	e Energy			
						Hydro-	Conven- tional	Bior	nass				
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	electric Pumped Storage ^e	Hydro- electric Power ^f	Wood ^g	Wasteh	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
973 Total	847,651	314,343	340,858	NA	83,479	(^f)	275,431	130	198	1,966	NA	NA	1,864,057
975 Total	852,786	289,095	299,778	NA	172,505	(ť)	303,153	18	174	3,246	NA	NA	1,920,75
980 Total 985 Total	1,161,562	245,994 100,202	346,240 291,946	NA NA	251,116 383,691	₩.	279,182 284,311	275 743	158 640	5,073 9,325	NA 11	NA 6	2,289,60
990 Total ^k	1.594.011	126,460	372,765	10,383	576,862	-3,508	292,866	32,522	13.260	15,434	367	2,789	3,037,82
995 Total	1,709,426	74,554	496,058	13,870	673,402	-2,725	310,833	36,521	20,405	13,378	497	3,164	3,353,48
996 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	3,444,18
997 Total	1,845,016	92,555	479,399 531,257	13,351	628,644	-4,040	356,453	36,948	21,709	14,726	511 502	3,288 3.026	3,492,172
998 Total 999 Total	1,873,516 1,881,087	128,800 118,061	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	495	4.488	3,620,29 3,694,81
000 Total	1,966,265	111,221	601,038	13,955	753,893	-5,539	275,573	37,595	23,131	14,093	493	5,593	3,802,10
001 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	3,736,64
002 Total	1,933,130	94,567	691,006	11,463	780,064	-8,743	264,329	38,665	15,044	14,491	555	10,354	3,858,45
003 Total 004 Total	1,973,737 1,978,301	119,406 121,145	649,908 710,100	15,600 15,252	763,733 788,528	-8,535 -8,488	275,806 268,417	37,529 38,117	15,812 15,421	14,424 14,811	534 575	11,187 14,144	3,883,18 3,970,55
004 Total		121,145	760,960	13,464	781.986	-6,558	200,417	38,856	15,421	14,611	575	17,811	4,055,42
006 Total	1,990,511	64,166	816,441	14,177	787,219	-6,558	289,246	38,762	16,099	14,568	508	26,589	4,064,70
007 Total		65,739	896,590	13,453	806,425	-6,896	247,510	39,014	16,525	14,637	612	34,450	4,156,74
008 Total	1,985,801	46,243	882,981	11,707	806,208	-6,288	254,831	37,300	17,734	14,840	864	55,363	4,119,38
009 January	171,925	6,104	66,390	807	74,102	-501	23,490	3,030	1,462	1,289	7	5,951	354,99
February March	140,916 135,530	3,318 3,349	62,139 68,203	784 834	64,227 67,241	-413 -315	17,812 21,827	2,823 2.919	1,357 1,553	1,168 1,300	30 78	5,852 7,099	300,88 310,60
April	125,935	2,807	61,159	758	59,408	-272	25,770	2,664	1,533	1,300	99	7,055	289.53
May	131,673	3,209	68,146	773	65,395	-349	29,560	2,735	1,522	1,235	110	6,262	311,30
June	148,087	3,243	84,205	876	69,735	-226	29,233	2,997	1,558	1,209	103	5,599	347,65
July	158,234	3,358	101,894	966	72,949	-491	23,385	3,227	1,628	1,255	121	4,955	372,54
August September	163,260 137,145	3,642 2,853	109,240 92,127	1,012 1,022	72,245 65,752	-613 -348	19,580 17,359	3,355 3.061	1,604 1,501	1,251 1,217	116 95	5,464 4.651	381,22 327,40
October	139,956	2,560	72.603	960	58.021	-345	19,691	3.032	1,533	1.221	68	6.814	307.04
November	136,810	2,072	63,285	910	59,069	-330	21,008	3,049	1,572	1,273	40	6,875	296,63
December	166,434	2,422	71,590	930	70,710	-383	24,730	3,158	1,608	1,368	21	6,906	350,50
Total	1,755,904	38,937	920,979	10,632	798,855	-4,627	273,445	36,050	18,443	15,009	891	73,886	3,950,33
010 January	173,320 153,044	4,348	74,173 66,198	909 825	72,569 65,245	-565 -351	22,383 20,590	3,126 2.895	1,503 1,382	1,312 1,159	10 33	6,854 5,432	360,95 319,73
February March	153,044	2,373 2,470	63,431	1,010	64,635	-325	20,590	2,895	1,502	1,159	33 76	5,432 8,589	319,73
April	126,952	2,286	64,644	943	57.611	-335	19,097	2.932	1,558	1,240	112	9,764	287,80
May	143,272	2,994	73,665	1,017	66,658	-441	25,079	2,893	1,577	1,311	153	8,698	327,93
June	165,491	3,989	92,268	964	68,301	-472	29,854	3,094	1,627	1,264	176	8,049	375,75
July	179,600 177,745	4,411 3,575	114,624	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	409,72 408,88
August September	148,746	2,783	121,151 93,004	954	69,371	-600	17,265	3,319	1,642	1,297	138	7,106	346,04
October	132,270	2,228	77,738	808	62,751	-438	17,683	3,003	1,547	1,222	75	7,944	307,92
November	135,185	2,079	69,227	907	62,655	-467	19,562	3,080	1,625	1,252	77	9,748	306,01
December	167,258	3,523	77,573	952	73,683	-530	23,169	3,275	1,650	1,330	44	9,059	362,11
Total	1,847,290	37,061	987,697	11,313	806,968	-5,501	260,203	37,172	18,917	15,219	1,212	94,652	4,125,06
011 January	170,983	3,268	74,458	910	72,743	-426	26,148	3,258	1,503	1,478	31	8,659	363,85
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	313,35 319,09
April	124,293	2,434	70,529	913	54,547	-467	31,629	2,788	1,619	1,337	161	12,447	302,99
May	137,493	2,198	75,769	848	57,017	-419	33,105	2,802	1,702	1,438	201	11,635	324,75
June	158,308	2,439	91,096	980	65,270	-568	32,253	3,243	1,685	1,363	257	10,887	368,18
July	176,709	3,011	120,377	1,059	72,345 71,339	-709 -663	31,570	3,348 3,290	1,767	1,372	226 236	7,382	419,48 406,45
August September	171,472 141,220	2,407 2,247	119,646 91,377	999 958	66,849	-663 -554	26,320 21,500	3,290	1,717 1,621	1,380 1,334	236	7,342 6,883	406,45 337,60
October	126,872	1,934	79,078	949	63,354	-572	20,036	2,876	1,669	1,393	169	10,623	309,27
November	121,197	1,723	75,637	923	64,474	-441	21,374	2,980	1,689	1,377	78	12,354	304,26
11-Month Total	1,601,559	26,162	929,988	10,264	718,388	-5,416	300,359	33,635	18,021	15,261	1,735	109,278	3,769,31
010 11-Month Total 009 11-Month Total	1,680,032 1,589,470	33,538 36,514	910,124 849,389	10,361 9,702	733,285 728,144	-4,971 -4,244	237,034 248,715	33,897 32,892	17,268 16,835	13,889 13,641	1,168 870	85,593 66,980	3,762,94 3,599,82

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

 ^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 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.
 ^e Pumped storage facility production minus energy used for pumping.
 ^f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."
 ^g 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). 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 hydroplectric for for clottic utilities

(municipal solid waste from non-biogenic sources, and tire-derived fuels).
 ^k Through 1988, all data except hydroelectric are for electric utilities only;
 hydroelectric data through 1988 include industrial plants as well as electric utilities.
 Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.
 NA=Not available.
 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.

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

	Fossil Fuels												
						Hydro-	Conven- tional	Biomass					
	Coala	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	electric Pumped Storage ^e	Hydro- electric Power ^f	Wood ^g	Waste ^h	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total	847,651	314,343	340,858	NA	83,479	(f)	272,083	130	198	1,966	NA	NA	1,860,710
1975 Total	852,786	289,095	299,778	NA	172,505	(f)	300,047	18	174	3,246	NA	NA	1,917,649
1980 Total	1,161,562	245,994	346,240	NA	251,116	(f)	276,021	275	158	5,073	NA	NA	2,286,439
1985 Total 1990 Total ^k 1995 Total 1996 Total	1,572,109 1,686,056 1,771,973	<u>100,202</u> 118,864 68,146 74,783	291,946 309,486 419,179 378,757	<u>NA</u> 621 1,927 1,341	383,691 576,862 673,402 674,729	(†) -3,508 -2,725 -3,088	281,149 289,753 305,410 341,159	743 7,032 7,597 8,386	640 11,500 17,986 17,816	9,325 15,434 13,378 14,329	11 367 497 521	6 2,789 3,164 3,234	2,469,841 2,901,322 3,194,230 3,284,141
1997 Total 1998 Total 1999 Total 2000 Total 2001 Total	1,820,762	86,479	399,596	1,533	628,644	-4,040	350,648	8,680	18,485	14,726	511	3,288	3,329,375
	1,850,193	122,211	449,293	2,315	673,702	-4,467	317,867	8,608	19,233	14,774	502	3,026	3,457,416
	1,858,618	111,539	472,996	1,607	728,254	-6,097	314,663	8,961	19,493	14,827	495	4,488	3,529,982
	1,943,111	105,192	517,978	2,028	753,893	-5,539	271,338	8,916	20,307	14,093	493	5,593	3,637,529
	1,882,826	119,149	554,940	586	768,826	-8,823	213,749	8,294	12,944	13,741	543	6,737	3,580,053
2002 Total	1,910,613	89,733	607,683	1,970	780,064	-8,743	260,491	9,009	13,145	14,491	555	10,354	3,698,458
2003 Total	1,952,714	113,697	567,303	2,647	763,733	-8,535	271,512	9,528	13,808	14,424	534	11,187	3,721,159
2004 Total	1,957,188	114,678	627,172	3,568	788,528	-8,488	265,064	9,736	13,062	14,811	575	14,144	3,808,360
2005 Total	1,992,054	116,482	683,829	3,777	781,986	-6,558	267,040	10,570	13,031	14,692	550	17,811	3,902,192
2006 Total	1,969,737	59,708	734,417	4,254	787,219	-6,558	286,254	10,341	13,927	14,568	508	26,589	3,908,077
2007 Total	1,998,390	61,306	814,752	4,042	806,425	-6,896	245,843	10,711	14,294	14,637	612	34,450	4,005,343
2008 Total	1,968,838	42,881	802,372	3,200	806,208	-6,288	253,096	10,638	15,379	14,840	864	55,363	3,974,349
2009 January	170,626	5,736	59,969	220	74,102	-501	23,316	990	1,256	1,289	7	5,951	343,516
February	139,743	2,999	56,164	213	64,227	-413	17,662	903	1,178	1,168	30	5,852	290,221
March	134,314	3,077	61,837	240	67,241	-315	21,624	862	1,343	1,300	78	7,099	299,257
April	124,803	2,557	55,301	231	59,408	-272	25,570	721	1,334	1,222	99	7,458	278,994
May	130,527	2,965	62,125	234	65,395	-349	29,364	749	1,323	1,235	110	6,262	300,496
June	146,845	2,994	77,591	253	69,735	-226	29,055	928	1,358	1,209	103	5,599	336,011
July	156,943	3,111	94,487	288	72,949	-491	23,243	976	1,417	1,255	121	4,955	359,842
August	161,917	3,391	101,636	278	72,245	-613	19,444	1,021	1,395	1,251	116	5,464	368,139
September	135,950	2,607	84,942	298	65,752	-348	17,263	891	1,301	1,217	95	4,651	315,163
October	138,667	2,340	65,852	280	58,021	-385	19,552	825	1,315	1,221	68	6,814	295,093
November	135,644	1,846	56,735	256	59,069	-330	20,865	866	1,345	1,273	40	6,875	285,012
December	165,146	2,190	64,367	269	70,710	-383	24,548	1,004	1,388	1,368	21	6,906	338,095
Total 2010 January	1,741,123	35,811 4,111	841,006 66,847	3,058	798,855	-4,627 -565	271,506 22,207	10,738 1,011	15,954	15,009 1,312	891	73,886 6,853	3,809,837 348,128
February	151,461	2,166	59,556	247	65,245	-351	20,421	926	1,207	1,159	33	5,431	307,994
March	142,665	2,299	56,492	275	64,635	-325	20,691	939	1,391	1,307	76	8,588	299,571
April	125,615	2,109	58,124	273	57,611	-335	18,898	837	1,334	1,240	112	9,763	276,121
May	141,669	2,801	66,862	279	66,658	-441	24,903	830	1,359	1,311	153	8,696	315,656
June	163,912	3,792	85,033	265	68,301	-472	29,711	955	1,409	1,264	175	8,048	362,985
July	177,778	4,199	106,961	267	71,913	-557	24,405	1,061	1,419	1,274	161	6,723	396,195
August	175,848	3,375	112,961	249	71,574	-600	20,019	1,074	1,413	1,297	156	6,685	394,651
September	147,157	2,608	85,498	240	69,371	-421	17,188	974	1,364	1,253	137	7,104	333,057
October	130,663	2,037	70,876	170	62,751	-438	17,561	887	1,330	1,222	75	7,942	295,646
November	133,815	1,879	62,305	219	62,655	-467	19,426	934	1,412	1,252	76	9,746	293,833
December	165,494	3,302	69,875	208	73,683	-530	23,024	1,018	1,443	1,330	43	9,058	348,549
Total	1,827,738	34,679	901,389	2,967	806,968	-5,501	258,455	11,446	16,376	15,219	1,206	94,636	3,972,386
2011 January	169,157	3,056	67,038	247	72,743	-426	26,001	986	1,293	1,478	31	8,657	350,775
February	136,752	2,042	59,187	206	64,789	-247	24,517	873	1,204	1,326	79	10,525	301,735
March	133,163	2,282	59,350	250	65,662	-350	31,537	883	1,457	1,465	112	10,534	306,932
April	123,067	2,112	63,709	250	54,547	-467	31,422	674	1,439	1,337	160	12,444	291,282
May	135,794	2,053	68,567	250	57,017	-419	32,888	753	1,467	1,438	199	11,632	312,220
June	156,677	2,276	84,032	282	65,270	-568	32,097	921	1,470	1,363	254	10,884	355,569
July	174,850	2,840	112,765	296	72,345	-709	31,442	1,042	1,537	1,372	223	7,380	406,019
August	169,572	2,243	111,991	293	71,339	-663	26,217	1,020	1,481	1,380	233	7,339	393,059
September	139,458	2,075	84,392	287	66,849	-554	21,375	896	1,395	1,334	181	6,880	325,121
October November 11-Month Total	125,200 119,867 1,583,559	1,792 1,597 24,367	72,407 68,418 851,855	279 242 2,882	63,354 64,474 718,388	-534 -572 -441 -5,416	19,905 21,222 298,621	752 753 9,553	1,444 1,457 15,645	1,334 1,393 1,377 15,261	167 167 77 1,717	10,618 12,348 109,239	297,294 291,954 3,631,962
2010 11-Month Total	1,662,244	31,377	831,515	2,760	733,285	-4,971	235,431	10,427	14,933	13,889	1,163	85,579	3,623,837
2009 11-Month Total	1,575,977	33,621	776,639	2,789	728,144	-4,244	246,958	9,733	14,566	13,641	870	66,980	3,471,742

^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.
 ^e Pumped storage facility production minus energy used for pumping.
 ^f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."
 ^g Wood and wood-derived fuels.
 ^h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

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

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

	Commercial Sector ^a						Industrial Sector ^b								
				Biomass						Hydro-	Biomass				
	Coalc	Petro- leum ^d	Natural Gas ^e	Waste ^f	Total ^g	Coal ^c	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	electric Power ⁱ	Wood ^j	Waste ^f	Total ^k		
1973 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,347	NA	NA	3,347		
1975 Total 1980 Total	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	3,106 3.161	NA NA	NA NA	3,106 3.161		
1985 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161		
1990 Total	796	589	3,272	812	5,837	21,107	7,008	60,007	9,641	2,975	25,379	949	130,830		
1995 Total	998	379	5,162	1,519	8,232	22,372	6,030	71,717	11,943	5,304	28,868	900	151,025		
1996 Total	1,051	369	5,249	2,176	9,030	22,172	6,260	71,049	13,015	5,878	28,354	919	151,017		
1997 Total 1998 Total	1,040 985	427 383	4,725 4.879	2,342 2,335	8,701 8,748	23,214 22,337	5,649 6.206	75,078 77,085	11,814 11,170	5,685 5,349	28,225 27,693	882 880	154,097 154,132		
1999 Total	995	434	4,607	2,333	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 1.340	423 499	3,899 3,969	1,289 1,562	7,496 8.270	19,817 19,773	5,285 5.967	78,705 78,959	12,953 11.684	4,222 3.248	27,988 28.367	715 797	154,530 153.925		
2004 Total 2005 Total	1,340	375	4,249	1,562	8,492	19,466	5,368	72,882	9,687	3,240	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 January	105	44	362	131	717	1,194	324	6,059	587	165	2,039	75	10,760		
February	92 86	19 11	333 344	120 145	627 668	1,081 1,130	299 261	5,642 6,022	571 595	144 193	1,919 2,054	59 65	10,040 10.678		
March April	74	11	344	145	633	1,058	239	5,534	527	193	2,054	63	9,910		
May	76	9	310	155	640	1,000	235	5,710	539	187	1,984	44	10,170		
June	82	5	345	155	675	1,160	244	6,269	623	169	2,068	46	10,973		
July	96	8	394	156	733	1,195	239	7,013	678	140	2,249	55	11,968		
August	109	13	414	154	769	1,235	239	7,189	734	136	2,332	55	12,314		
September October	89 85	8 8	374 346	148 146	693 659	1,105 1,204	238 212	6,810 6,405	725 680	95 136	2,168 2,206	52 72	11,545 11,289		
November	94	11	311	140	648	1,072	212	6,239	655	130	2,200	76	10,975		
December	107	13	367	143	703	1,181	219	6,855	662	175	2,152	78	11,709		
Total	1,096	163	4,225	1,748	8,165	13,686	2,963	75,748	7,574	1,868	25,292	740	132,329		
2010 January	116	13	367	137	709	1,544	225	6,959	634	169	2,114	72	12,120		
February	102	11	339	111	623	1,481	197	6,303	578	162	1,967	64	11,118		
March	91 80	8 9	351 326	134 144	661 645	1,649 1,258	163 169	6,588 6,194	735 669	188 187	2,149 2,094	67 80	11,936 11,034		
April May	84	12	326	144	666	1,519	181	6,477	738	164	2,054	69	11,614		
June	97	10	350	150	699	1,482	187	6,885	700	132	2,137	68	12,075		
July	110	18	459	146	812	1,713	194	7,205	696	107	2,246	75	12,718		
August	105	11	490	152	838	1,792	189	7,701	812	99	2,243	78	13,395		
September	89 80	9 7	421 419	148 133	750 712	1,499 1,527	165 184	7,085 6,443	713 637	76 117	2,182 2,114	62 84	12,238 11,562		
October November	69	4	419	133	683	1,301	196	6,520	688	130	2,114	84 79	11,493		
December	88	12	476	136	793	1,677	209	7,223	744	134	2,255	71	12,777		
Total	1,111	124	4,725	1,672	8,592	18,441	2,258	81,583	8,343	1,668	25,706	869	144,082		
2011 January	103	13	402	139	739	1,723	198	7,017	663	137	2,271	71	12,341		
February	95	8	350	125	656	1,447	151	6,314	564	160	2,021	64	10,961		
March	97 71	7 5	341 347	134 118	666 622	1,457 1,155	165 162	6,478 6,473	705 662	188 196	2,156 2,112	65 62	11,494 11,089		
April May	77	5 6	347	160	622 714	1,155	162	6,829	662 597	208	2,112	62 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 November	63 64	8 6	359 378	153 155	668 691	1,609 1,266	135 121	6,312 6.841	669 680	126 147	2,123 2,226	72 77	11,317 11.623		
11-Month Total	911	87	4,113	1,592	7,665	1,266 17,089	121 1,708	74,020	7,377	147 1,650	2,226 24,064	784	11,623 129,689		
2010 11-Month Total	1,024	112	4,249	1,537	7,798	16,765	2,049	74,360	7,599	1,534	23,450	798	131,305		
2009 11-Month Total	989	149	3,858	1,606	7,461	12,504	2,744	68,893	6,913	1,693	23,141	663	120,621		

(Subset of Table 7.2a; Million Kilowatthours)

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

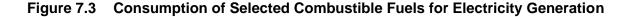
petroleum, and waste oil.
 ^e Natural gas, plus a small amount of supplemental gaseous fuels.
 ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
 ^g Includes a small amount of conventional hydroelectric power, other gases, photovoltaic (PV) energy, wind, wood, and other, which are not separately displayed

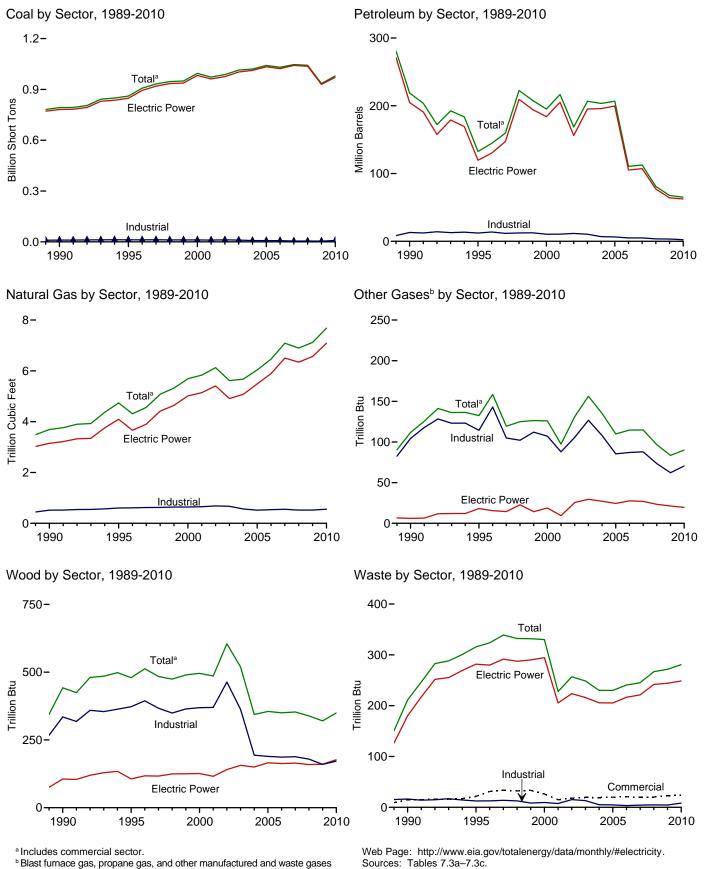
displayed.

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

¹ Conventional hydroelectric power. ¹ 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).

tire-derived fuels). NA=Not available. Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See end of section.





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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	T	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	569,274 693.841	29,051	391,163 158,779	NA NA	179 231	421,110 174.571	3,682	NA NA	3	2	NA NA
1985 Total 1990 Total ^k	792.457	<u>14,635</u> 18,143	190.652	437	1.914	218.800	<u>3,044</u> 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
1999 Total	949,802	25,951	158,187	974	4,552	207,871	5,322	126	490	332	41
2000 Total 2001 Total	994,933 972,691	31,675 31,150	143,381 165,312	1,450 855	3,744 3,871	195,228 216,672	5,691 5,832	126 97	496 486	330 228	46 160
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 2008 Total	1,046,795 1,042,335	15,683 12,832	63,833 38,191	2,917 2,822	6,036 5,417	112,615 80,932	7,089 6,896	115 97	353 339	245 267	168 172
	90,639	1,882	6,033	424	426	10,467	505	6	28	21	13
2009 January	90,639 74,256	1,882	6,033 2,414	424 256	426 390	5,823	505 470	6	28 25	21	13
February March	74,250	1,203	2,045	236	480	5,823	519	7	25	20	14
April	67,209	825	1,691	178	427	4,828	468	6	23	23	14
May	70,508	1,071	2,216	185	432	5,632	533	ĕ	24	23	15
June	79,071	1,001	2,313	150	433	5,628	665	7	26	23	15
July	84,360	934	2,517	134	455	5,859	802	8	29	24	15
August	86,789	1,002	2,976	166	439	6,338	865	8	30	24	15
September	73,705 74,686	765 847	1,846 2.062	135 139	438 276	4,936 4,427	713 559	8 7	27 27	22 22	14 14
October November	74,000	827	2,062	143	276	4,427 3,551	559 479	7	27	22	14
December	88,320	1.050	1,246	172	353	4,234	544	8	29	23	14
Total	934,683	12,658	28,576	2,328	4,821	67,668	7,121	84	320	272	170
2010 January	90,767	2,485	2,860	241	433	7,751	570	7	30	22	15
February	80,209	869	1,075	212	404	4,174	502	6	28	20	13
March	76,544	785	1,245	147	438	4,370	479	8	29	24	15
April May	67,037 76,061	726 1,050	1,160 1,997	126 121	382 415	3,923 5,244	494 582	8 8	27 27	23 24	15 15
June	87.395	1,030	3.087	154	493	6,950	731	8	29	24	16
July	94,993	1,347	3,681	200	524	7,849	923	8	31	24	16
August	94,786	1,093	2,987	164	423	6,358	972	8	32	24	16
September	79,573	905	1,789	151	394	4,813	723	8	30	23	16
October	70,918	787	1,113	129	362	3,840	594	6	28	23	15
November December	72,756 88.645	876 1,883	982 2,021	143 266	317 408	3,588 6,210	519 591	7 8	29 31	24 24	15 16
Total	979,684	14,050	23,997	2,056	408	65,071	7,680	90	350	24	184
2011 January	90,106	1,238	1,700	231	526	5,802	564	7	30	22	12
February	73,505	854	1,007	124	387	3,919	503	6	27	21	11
March	72,340	839	1,122	133	465	4,421	504	7	28	24	14
April	66,870	957	1,328	121	304	3,924	548	7	24	23	13
May	73,511	909	1,222	110	316	3,820	603	7	25	24	14
June	84,072	969	1,261	145	388	4,316	729	8	29	25	14
July	94,214 92,177	1,161 809	1,542 1,333	167 122	479 415	5,265 4,341	966 948	8 8	30 30	26 25	15 14
August September	92,177 76,612	809 778	958	122	415 392	4,341 3,861	948 710	8	30 28	25 24	14
October	69.524	711	938	102	392	3,311	600	8	26	24	13
November	66,789	715	904	135	250	3,002	568	8	26	24	13
11-Month Total	859,720	9,940	13,319	1,574	4,230	45,982	7,241	83	302	262	148
2010 11-Month Total 2009 11-Month Total	891,039 846,363	12,168 11,608	21,976 27,330	1,790 2,156	4,586 4,468	58,860 63,434	7,090 6,577	82 76	318 292	256 248	169 156

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

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

^b Altititatite, bituminous coal, substituminous coal, ingine, moste coal, and coal synfuel.
^b Fuel oil nos. 1, 2, and 4. For 1973-1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.
^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant use of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil nos.

bettoretift. For 1980-2000, electric utility data also include a small amount of ider 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 fossili fuels.
 ^h Mond and wood derived fuels.

^b 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

tire-derived fuels).

ure-oerrived ruers). ^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). ^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants. plants.

 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.

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	T	nousand Barre	ls	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total 1980 Total 1985 Total 1995 Total 1990 Total ^k	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 NA	1 (s) 3 8	2 2 2 7	NA NA NA NA
1990 Total ^K 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total	781,301 847,854 894,400 919,009 934,126 937,888	16,394 18,066 18,472 18,646 23,166 23,875	183,285 88,895 98,795 112,423 165,875 151,921	25 441 567 130 411 514	1,008 2,452 2,467 3,201 3,999 3,607	204,745 119,663 130,168 147,202 209,447 194,345	3,147 4,094 3,660 3,903 4,416 4,644	6 18 16 14 23 14	106 106 117 117 125 125	180 282 280 292 287 290	(s) 2 1 2 1
2000 Total 2001 Total 2002 Total 2003 Total 2004 Total	982,713 961,523 975,251 1,003,036 1,012,459	29,722 29,056 21,810 27,441 18,793	138,047 159,150 104,577 137,361 138,831	403 374 1,243 1,937 2,511	3,155 3,308 5,705 5,719 7,135	183,946 205,119 156,154 195,336 195,809 199,760	5,014 5,142 5,408 4,909 5,075 5,485	19 9 25 30 27 24	126 116 141 156 150	294 205 224 216 206 205	1 109 137 136 131
2005 Total 2006 Total 2007 Total 2008 Total	1,033,567 1,022,802 1,041,346 1,036,891	19,450 12,578 15,135 12,318	138,337 56,347 62,072 37,222	2,591 1,783 2,496 2,608	7,877 6,905 5,523 5,000	105,235 107,316 77,149	5,485 5,891 6,502 6,342	24 28 27 23	166 163 165 159	205 216 221 242	116 117 117 122
2009 January February March April June July August September October November	90,224 73,894 71,583 66,830 70,105 78,636 83,917 86,322 73,288 74,232 72,767 97,904	1,778 1,084 1,198 769 981 932 865 927 707 809 787	5,871 2,313 1,958 1,623 2,154 2,264 2,474 2,935 1,801 2,022 1,173 1,190	400 234 201 149 172 130 126 150 122 129 136 161	398 363 455 403 407 406 423 409 407 247 243 226	10,039 5,445 5,632 4,557 5,340 5,357 6,056 4,663 4,195 3,309 2,082	460 429 475 428 491 619 751 812 664 512 434 494	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15 13 13 11 11 14 15 15 13 13 13	19 18 20 21 21 21 21 20 20 20	9 8 10 10 10 10 10 10 9 9 10
December Total Pebruary March April July August September October December December Total	87,894 929,692 90,080 79,537 75,772 66,559 75,311 86,725 94,194 93,922 78,881 70,205 72,206 87,854 971,245	1,012 11,848 2,441 833 756 695 1,021 1,220 1,306 1,306 880 762 849 1,847 13,677	1,180 27,768 2,804 1,023 1,214 1,132 1,964 3,059 3,643 2,962 1,760 1,076 949 1,973 23,560	2,110 219 196 130 112 104 135 149 136 112 125 244 1,848	326 4,485 404 379 415 360 390 463 495 392 371 337 290 383 4,679	3,982 64,151 7,482 3,946 4,176 3,741 5,040 6,733 7,610 6,136 4,628 3,634 3,634 3,634 3,634 3,634 5,978 62,477	6,567 519 456 432 449 536 681 869 915 671 547 473 538 7,085	2 21 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15 160 16 15 15 14 15 16 15 15 16 15 15 16 177	21 244 20 18 21 21 21 22 22 21 20 21 22 249	115 9 8 9 10 10 10 10 10 10 10 10 10 116
2011 January February March April June July August September October November 11-Month Total	89,305 72,814 71,671 66,411 72,742 83,360 93,388 91,340 75,820 68,779 66,260 851,890	1,215 832 936 891 946 1,135 788 756 686 693 9,702	1,653 973 1,296 1,296 1,296 1,236 1,518 1,518 1,311 940 911 883 13,014	223 117 121 104 103 129 158 107 126 119 129 1,436	495 365 440 282 295 364 452 389 369 288 233 3,973	5,564 3,750 4,234 3,747 3,670 4,134 5,069 4,152 3,670 3,155 2,871 44,016	512 457 457 500 551 679 912 894 661 553 518 6,694	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 8	15 14 13 11 12 14 15 15 13 12 12 12 145	20 18 22 21 22 23 22 23 22 21 21 21 21 234	9 8 10 10 10 10 11 10 10 10 106
2010 11-Month Total 2009 11-Month Total	883,391 841,798	11,829 10,837	21,587 26,588	1,604 1,949	4,296 4,159	56,499 60,168	6,548 6,073	18 19	161 145	227 223	106 106

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

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

Antimactic, bitchinitots coal, subbitchinitots coal, injinite, waste coal, and coal synfuel.
 ^b Fuel oil nos. 1, 2, and 4. For 1973-1979, data are for gas turbine and internal combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.
 ^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant use of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil nos.

oil no. 4. ^d Jett ^e Petr ^f Nati

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

^f Natural gas, plus a small amount of supplemental gaseous fuels.
 ^g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

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

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.

		Commerci	al Sector ^a				Indu	strial Sector	b		
			N / 1	Biomass				0.1	Bior	nass	
	Coalc	Petroleum ^d	Natural Gas ^e	Waste ^f	Coalc	Petroleumd	Natural Gas ^e	Other Gases ^g	Wood ^h	Waste ^f	Other
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons						
989 Total	414	1,165	18	9	9,707	8,482	444	83	267	15	3
990 Total	417	953	28	15	10,740	13,103	517	104	335	16	3
995 Total	569	649	43	21	12,171	12,265	601	114	373	13	4
996 Total	656	645	42	31	12,153	13,813	610	143	394	13	3
997 Total	630	790	39	34	12,311	11,723	623	105	367	14	3
998 Total	440 481	802 931	41 39	32 33	11,728	12,392 12.595	625	102	349 364	13 8	3
999 Total	481 514	823	39 37	33 26	11,432 11,706	12,595	639 640	112 107	364	8 10	2
000 Total	514	1,023	36	20 15	10,636	10,459	654	88	369	7	2
002 Total	477	834	33	18	11,855	11,608	685	106	464	15	
2003 Total	582	894	38	19	10,440	10,424	668	127	362	13	4
2004 Total	377	766	33	19	7,687	6,919	566	108	194	5	4
2005 Total	377	585	34	20	7,504	6,440	518	85	189	5	4
006 Total	347	333	35	21	7,408	5,066	536	87	187	3	4
2007 Total	361	258	34	19	5,089	5,041	554	88	188	4	4
2008 Total	369	166	33	20	5,075	3,617	520	73	179	5	3
009 January	32	54	3	2	384	374	42	5	13	(s)	
February	28	22	3	2	334	356	38	5	12	(s)	
March	25	12	3	2	382	299	41	5	13	(s)	
April	22	12	3	2	356	259	38	4 4	12	(s)	
May	22 24	11 7	3 3	2 2	381 412	282 265	39 43	4 5	13 13	(s) (s)	
June July	24	9	3	2	412	203	43	6	13	(S) (S)	
August	30	15	3	2	437	267	50	6	15	(S)	
September	26	10	3	2	391	263	47	õ	14	(S)	
October	24	10	3	2	430	223	44	õ	14	(s)	
November	26	11	3	2	357	232	43	5	14	(s)	
December	30	16	3	2	396	236	47	6	14	(s)	
Total	317	190	34	23	4,674	3,328	520	62	160	4	4
010 January	32	18	3	2	654	252	48	5	14	1	
February	28	16	3	2	643	212	43	5	13	1	
March	26	12	3	2	746	182	44	6	14	1	
April	23 23	11	3	2 2	456	171	42 44	6 6	14 14	1	
May	23 27	14 13	3	2	727 643	190 204	44 47	6	14	1	
June July	30	26	4	2	769	204	50	6	14	1	
August	29	15	4	2	835	207	53	7	15	1	
September	26	13	3	2	666	171	48	6	15	1	
October	23	11	3	2	690	195	44	5	14	1	
November	21	7	3	2	529	208	43	6	14	1	
December	26	15	4	2	765	217	48	6	15	1	_
Total	314	172	39	24	8,125	2,422	555	70	172	8	5
011 January	30	14	3	2	771	223	49	6	15	1	
February	28	9	3	2	663	160	44	5	13	1	
March	28	8	3	2	641	179	44	6	14	1	
April	22	6	3	2	437	171	45	6	14	1	
May	23 24	7 9	3 3	2 2	746 688	143 173	48 47	5 6	13 15	1	
June	24 28	9 15	3 4	2	798	173	47 50	6 7	15	1	
July August	28 26	15	4	2	811	181	50 50	6	15	1	
September	20	8	3	2	769	183	46	6	14	1	
October	20	11	3	2	725	145	40	6	14	1	
November	20	8	3	2	509	124	47	õ	15	1	
11-Month Total	273	104	34	21	7,558	1,862	513	64	157	7	2
010 11-Month Total	288	156	35	22	7,360	2,205	507	64	157	8	5
009 11-Month Total	286	174	31	21	4,279	3,092	473	57	146	4	

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

^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

^c Anthracite, bituminous coal, subbituminous coal, nume, more coal, and synfuel.
 ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil.
 ^e Natural gas, plus a small amount of supplemental gaseous fuels.
 ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
 ^g Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil 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). (s)=Less than 0.5 trillion Btu. Notes: • Data are for fuels consumed to produce electricity. Through 1988, data are not available. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See thttp://www eia.gov/totalenergy/data/monthly/telectricity. for all

and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1989. Sources: • **1989-1997**: U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Konutility Power Producer Report..." • **1998-2000**: EIA, Form EIA-860B, "Annual Electric Generator Report--Nonutility.." • **2001-2003**: EIA, Form EIA-966, "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."

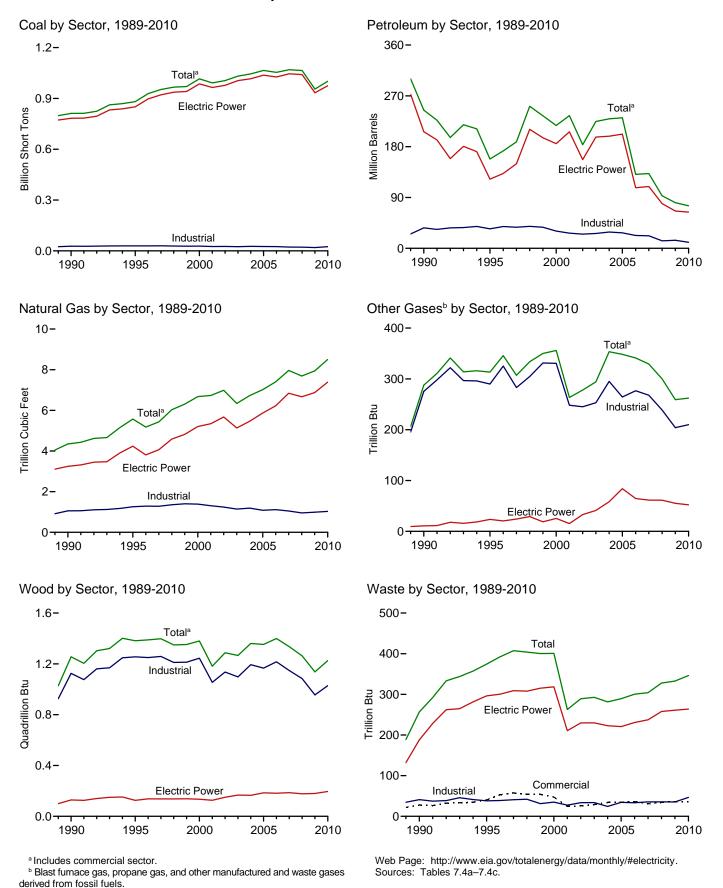


Figure 7.4 Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output

				Petroleum					Bion	nass	
	Coal ^a	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	т	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total	389,212 405,962	47,058 38,907	513,190 467,221	NA NA	507 70	562,781 506,479	3,660 3,158	NA NA	1 0	2	NA NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total 1990 Total ^k	693,841	<u>14,635</u> 20,194	<u>158,779</u> 209,081	<u>NA</u>	231 2,832	174,571	3,044	<u>NA</u> 288	<u>8</u> 1,256	257	<u>NA</u> 86
1995 Total	811,538 881,012	20,194	112,168	1,332 1,322	2,632 4,590	244,765 158,140	4,346 5,572	200	1,250	374	97
1996 Total	928,015	22,444	124,607	2,468	4,596	172,499	5,178	346	1,389	392	91
1997 Total	952,955	22,893	134,623	526	6,095	188,517	5,433	307	1,397	407	103
1998 Total 1999 Total	966,615 970,175	30,006 30,616	189,267 172,319	1,230 1,812	6,196 5,989	251,486 234,694	6,030 6,305	334 350	1,349 1,352	404 400	95 101
2000 Total	1,015,398	34,572	156.673	2.904	4.669	217.494	6.677	356	1,332	400	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 1.044.798	31,825 23.520	152,859 157.478	4,576	7,067	224,593 229.364	6,337	294 353	1,266 1,360	293 282	262 254
2004 Total 2005 Total	1,044,798	23,520	157,478	4,764 4,270	8,721 9.113	229,364 231.193	6,727 7.021	353 348	1,360	282	254
2006 Total	1,053,783	14,655	69,846	3,396	8,622	131,005	7,404	341	1,399	300	247
2007 Total		17,042	74,616	4,237	7,299	132,389	7,962	329	1,336	304	239
2008 Total	1,064,503	14,137	43,477	3,765	6,314	92,948	7,689	300	1,263	328	212
2009 January	92,641	2,157	6,799	536	509	12,037	575	21	95	27	18
February	76,038	1,432	2,913	354	474	7,069	531	20	89	25	17
March April	73,810 68,738	1,449 994	2,473 2,054	350 275	559 494	7,068 5,794	584 531	21 19	92 86	30 27	18 19
May	72,092	1,238	2,034	270	501	6,827	597	20	89	27	20
June	80,689	1,174	2,706	205	514	6,652	731	21	93	27	20
July	86,039	1,118	2,850	181	545	6,876	874	23	100	28	20
August	88,471 75,305	1,158 923	3,297 2,168	215 199	530 531	7,322 5,946	940 785	24 24	103 96	28 26	20 19
September October	76,319	923	2,100	199	364	5,377	628	24	90	20	19
November	74,836	972	1,546	194	366	4,541	544	22	97	29	19
December	90,212	1,204	1,671	242	441	5,320	618	22	101	29	19
Total	955,190	14,800	33,672	3,218	5,828	80,830	7,938	259	1,137	333	228
2010 January	92,738	2,643	3,212	338	525	8,819	643	21	103	29	18
February	82,029 78,383	978 866	1,397 1,439	286 207	497 522	5,143 5,124	566 547	19 23	96 103	26 30	17 19
March April	69.179	837	1,355	176	458	4,656	556	23	98	29	19
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	244 206	613	8,684	997 1.047	22 23	105	29 29	21
August September	96,593 81,250	1,185 961	3,190 2,006	206 191	510 475	7,132 5,534	7,047	23	106 103	29 27	21 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 1 ,001,411	2,029 15,247	2,332 26,944	361 2,777	499 6,053	7,218	665 8,502	23 262	109 1,226	30 346	21 237
Total	1,001,411	15,247	20,944	2,777	6,053	75,231	8,502	202	1,220	340	231
2011 January	92,180	1,302	2,014	286	602	6,611	639	22	108	29	15
February	75,364 74,254	934 890	1,197 1,327	161 175	490 573	4,742 5,256	568 570	20 24	96 100	26 29	14 16
March April	68,631	1,020	1,541	175	409	5,256 4,774	615	24	95	29 27	15
May	75,353	962	1,405	147	434	4,683	671	23	94	29	16
June	85,880	1,013	1,452	188	475	5,030	794	24	104	29	17
July	96,079 93,974	1,208 851	1,739 1,523	206 165	566 498	5,982 5,029	1,037 1,020	24 24	105 103	30 30	17 16
August September	93,974 78.352	851	1,523	225	498 465	5,029 4,497	1,020	24	103	30 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
11-Month Total	879,888	10,506	15,569	2,041	5,258	54,406	7,994	256	1,104	318	172
2010 11-Month Total	910,811	13,219	24,612	2,416	5,553	68,013	7,837	240	1,117	316	216
2009 11-Month Total	864,978	13,596	32,002	2,976	5,387	75,510	7,320	237	1,036	304	209

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)

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel. ^b Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small

• ruer on nos. 1, 2, and 4. Ihrough 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 no. 4.
 • Jet led, 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.
 • 9 Blast furnace gas, propane gas, and other manufactured and waste gases derived from forsil fuels.

^h Wood and wood-derived fuels.
 ⁱ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes

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

Iter-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 time-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

for electric utilities, independent power produces, commonder plants, and independent 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 7.4b and 7.4c.

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	т	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 1985 Total	569,274 693,841	29,051 14,635	391,163 158,779	NA NA	179 231	421,110 174,571	3,682 3,044	NA NA	3	2	NA NA
1990 Total ^k	782,567	16,567	184,915	26	1,008	206,550	3,245	11	129	188	(s)
1995 Total	850,230	18,553	90,023	499	2,674	122,447	4,237	24	125	296	
1996 Total	896,921	18,780	99,951	653	2,642	132,593	3,807	20	138	300	
1997 Total	921,364	18,989	113,669	152	3,372	149,668	4,065	24	137	309	
1998 Total 1999 Total	936,619 940,922	23,300 24.058	166,528 152,493	431 544	4,102 3,735	210,769 195,769	4,588 4.820	29 19	137 138	308 315	-
2000 Total	985,821	30.016	138,513	454	3,275	185,358	5,206	25	130	318	
2001 Total	964,433	29,274	159,504	377	3,427	206,291	5,342	15	126	211	11;
2002 Total	977,507	21,876	104,773	1,267	5,816	156,996	5,672	33	150	230	14:
2003 Total	1,005,116	27,632	138,279	2,026	5,799	196,932	5,135	41	167	230	14
2004 Total 2005 Total	1,016,268 1.037.485	19,107 19,675	139,816 139,409	2,713 2,685	7,372 8.083	198,498 202,184	5,464 5,869	58 84	165 185	223 221	138
2005 Total		12,646	57,345	2,005	7,101	107,365	6,222	65	182	221	12
2007 Total		15,327	63,086	2,594	5,685	109,431	6,841	61	186	237	124
2008 Total	1,040,580	12,547	38,241	2,670	5,119	79,056	6,668	61	177	258	131
2009 January	90,640	1,865	5,974	424	410	10,311	487	4	17	21	1(
February		1,106	2,385	256	374	5,614	453	4	15	19	1
March		1,227	2,023	214	464	5,785	500	4	14	24	1
April	67,123	776	1,709	159	414	4,712	451	4	12	21 22	1(
May June	70,425 78.954	987 935	2,230 2,345	192 132	418 418	5,497 5,501	515 643	5 5 5 5	13 15	22	1 [.] 1 [.]
July	84.243	868	2,558	127	434	5,721	778	5	16	23	1.
August	86,635	930	3,021	151	419	6,199	840	5	17	23	1
September	73,566	709	1,885	123	416	4,799	690	5	14	21	1(
October	74,520	813	2,123	132	256	4,349	537	5	14	21	1(
November	73,063 88,255	797 1.023	1,260 1,270	138 162	252 336	3,457 4,137	457 520	4 5	15 17	22 22	1(1(
December Total	933,627	12,023	28,782	2,210	4,611	66,081	6,873	55	180	261 261	124
2010 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 66,842	759 699	1,256 1,214	131 112	427 369	4,281 3,871	457 471	5 5	16 15	22 21	1(1(
April May	75,597	1,023	2,055	104	400	5,181	560	5	13	21	1
June	87,030	1,222	3,147	137	471	6,860	706	5	16	23	1
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	1
October November	70,492 72,514	772 890	1,161 1,035	112 126	346 301	3,773 3,557	570 497	3 4	15 16	22 23	1(1(
December	88,189	1,854	2,062	245	391	6,118	564	4	17	23	11
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	1
February	73,156	858	1,020	117	374	3,866	482	4	15	20	9
March	72,009	827	1,164	121	451	4,364	483	5	15	23	1
April May	66,741 73.100	940 894	1,378 1,279	104 103	291 306	3,879 3,807	526 578	4 4	12 13	22 22	10
June	83,700	894 950	1,279	103	374	4,265	705	4 5	15	22	1
July	93,736	1.139	1.603	158	462	5.211	942	5	16	23	1.
August	91,667	793	1,400	107	400	4,299	923	5	16	23	1
September	76,131	760	1,027	127	380	3,812	686	5	15	22	1
October	69,109	690	995	119	295	3,280	578	5	13	23	1
November 11-Month Total	66,557 855,587	697 9,772	962 13,903	131 1,439	242 4,075	2,999 45,491	543 6,990	5 51	13 159	23 245	1(11
2010 11-Month Total	886,863	11,936	22,441	1,632	4,386	57,937	6,823	48	178	241	113
2009 11-Month Total	845,371	11,012	27,512	2,047	4,300	61,944	6,353	50	163	239	11

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

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

^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 fuel oil nos. 5 and 6.

amount of fuel oil no. 4.

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. 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

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.

		Commerci	ial Sector ^a				Indu	strial Sector	b		
				Biomass			N	0.1	Bion	nass	
	Coalc	Petroleum ^d	Natural Gas ^e	Waste ^f	Coalc	Petroleum ^d	Natural Gas ^e	Other Gases ^g	Wood ^h	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillior	i Btu	
1989 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2000 Total	1,125 1,191 1,419 1,660 1,738 1,443 1,443 1,490 1,547	1,967 2,056 1,245 1,246 1,584 1,807 1,613 1,613	30 46 78 82 87 87 87 84 85 79	22 28 40 53 58 54 54 47 25	24,867 27,781 29,363 29,434 29,853 28,553 27,763 28,031 25,755	25,444 36,159 34,448 38,661 37,265 38,910 37,312 30,520	914 1,055 1,258 1,289 1,282 1,355 1,401 1,386	195 275 290 325 283 305 331 331	926 1,125 1,255 1,249 1,259 1,211 1,213 1,244	35 41 38 39 41 42 31 35 27	85 86 95 89 102 93 99 108
2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2007 Total	1,448 1,405 1,816 1,917 1,922 1,886 1,927 2,021	1,832 1,250 1,449 2,009 1,630 935 752 671	79 74 58 72 68 68 70 66	25 26 29 34 34 36 31 34	25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902	26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222	1,310 1,240 1,144 1,191 1,084 1,115 1,050 955	248 245 253 295 264 277 268 239	1,054 1,136 1,097 1,193 1,166 1,216 1,148 1,084	27 34 34 24 33 36 35	101 92 103 94 94 102 98 60
2009 January February April May June July August September October November December Total	208 178 170 128 117 135 137 143 127 129 151 174 1,798	176 70 35 26 19 14 19 38 20 17 35 53 53 521	7 6 5 5 6 7 7 7 6 6 6 7 7 7 6 7 7 6	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 6	1,793 1,605 1,692 1,487 1,550 1,600 1,659 1,694 1,611 1,621 1,623 1,783 19,766	1,550 1,385 1,248 1,056 1,311 1,138 1,136 1,086 1,128 1,010 1,049 1,130 14,228	81 71 79 74 77 82 89 92 88 88 85 81 91 990	17 16 17 15 16 18 19 19 17 17 17 204	78 74 77 73 76 77 83 86 81 84 84 84 955	4 3 4 2 2 2 2 2 4 4 4 3 5	6 6 7 7 7 7 7 7 7 7 7 8 2
2010 January February April May July August September October Docember Total	193 167 149 117 118 135 142 152 133 121 128 165 1,720	55 47 26 28 26 59 46 27 21 22 55 437	7 7 6 6 6 8 9 7 7 7 8 86	3 3 4 3 3 3 3 3 3 3 3 3 3 3 6	2,094 1,978 2,124 2,220 2,010 1,898 2,122 2,194 1,958 1,854 2,246 24,638	1,128 1,021 817 761 796 835 883 849 780 899 924 1,045 10,740	90 80 84 79 82 84 95 87 84 82 92 92 1,029	17 15 18 18 18 18 17 19 18 17 17 17 19 210	86 79 86 83 83 85 88 88 88 88 88 86 86 91 1,029	4 4 5 3 3 3 3 3 3 5 5 4 4 7	6 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 91
2011 January February March April June July August September October November 11-Month Total	178 165 158 124 128 124 134 124 121 116 123 1,495	45 24 29 15 17 22 35 20 15 19 18 2 59	8 7 6 7 6 7 6 6 7 7 7 7 4	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 22,806	858 852 862 880 859 743 737 710 670 719 767 8,656	89 79 81 82 87 83 88 89 84 81 86 930	18 16 20 19 18 19 19 19 18 20 19 204	91 86 83 81 89 89 86 87 84 87 944	4 3 3 4 4 4 4 4 4 4 4 4 4 0	3 3 3 4 4 4 3 3 3 3 3 36
2010 11-Month Total 2009 11-Month Total	1,555 1,624	382 468	77 69	33 33	22,392 17,982	9,695 13,098	937 899	191 187	937 872	42 32	83 75

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

^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

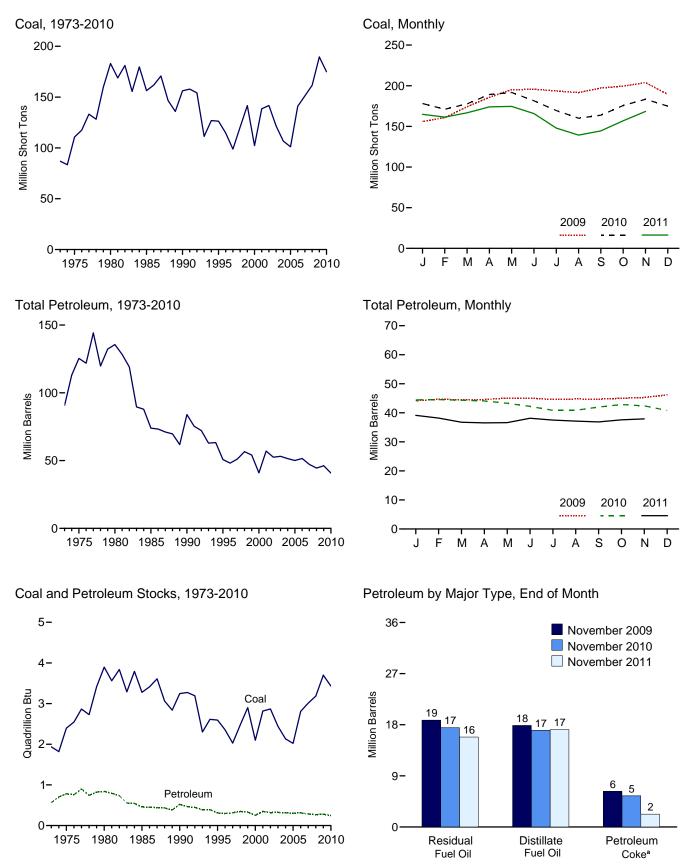
^e Natural gas, plus a small amount of supplemental gaseous fuels.
 ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

⁹ Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil 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.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1989.
 Sources: • 1989-1997: U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-860B, "Annual Electric Generator Report.—Nonutility." • 2001-2003: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report."
 • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."





^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).

				Petroleum		
	Coala	Distillate Fuel Oil $^{\mathrm{b}}$	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale
	Thousand Short Tons		Thousand Barrels		Thousand Short Tons	Thousand Barre
73 Year	86.967	10.095	79.121	NA	312	90.776
75 Year	110,724	16,432	108,825	NA	31	125,413
80 Year	183.010	30.023	105.351	NA	52	135.635
85 Year		16,386	57,304	NA	49	73,933
90 Year		16,471	67,030	NA	94	83.970
	126,304	15,392	35,102	NA	65	50,821
95 Year					91	
96 Year		15,216	32,473	NA NA		48,146
97 Year		15,456	33,336		469	51,138
98 Year		16,343	37,451	NA	559	56,591
99 Year ^f		17,995	34,256	NA	372	54,109
00 Year		15,127	24,748	NA	211	40,932
01 Year		20,486	34,594	NA	390	57,031
02 Year		17,413	25,723	800	1,711	52,490
03 Year	121,567	19,153	25,820	779	1,484	53,170
04 Year	106,669	19,275	26,596	879	937	51,434
05 Year		18,778	27,624	1,012	530	50,062
06 Year	140,964	18,013	28,823	1,380	674	51,583
07 Year	151.221	18,395	24,136	1,902	554	47.203
08 Year		17,761	21,088	1,955	739	44,498
09 January	156,075	17,882	20,501	2,061	746	44,175
February	160,601	17,737	21,141	2,102	738	44,668
March	174,223	17,691	21,160	2,118	715	44,544
April		18.055	20.890	2,129	705	44,598
May	195.103	17,958	21,022	2.195	779	45.072
June		17,866	21,131	2,234	763	45.048
July		17,971	20,734	2,252	729	44,604
August		18.040	20,093	2,265	876	44.777
	- /	-,	- ,		963	
September	197,208	18,162	19,454	2,292		44,726
October	199,477	18,009	18,931	2,307	1,152	45,007
November	203,765 189,467	17,880 17,886	18,806	2,316	1,258	45,294 46.181
December	109,407	17,000	19,068	2,257	1,394	40,101
10 January		17,193	18,035	2,198	1,406	44,454
February		17,409	18,532	2,222	1,280	44,562
March	177,742	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	174,917	16,758	16,629	2,319	1,019	40,800
11 January	164,840	16,673	16,061	2,383	801	39,123
February	161,439	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	156,906	16,955	15,942	2,640	413	37,601
November	168.354	17,148	15,832	2,677	453	37.923

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

^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

^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

^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.

⁴ Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers.

NA=Not available.

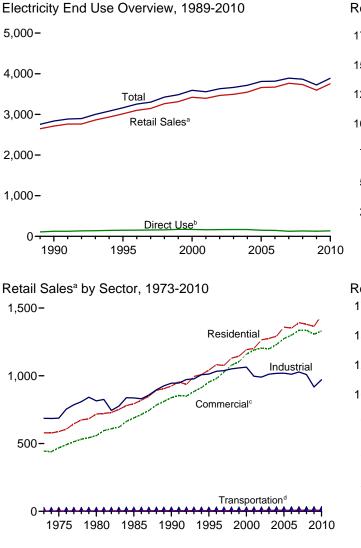
Notes:
 The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.
 Stocks

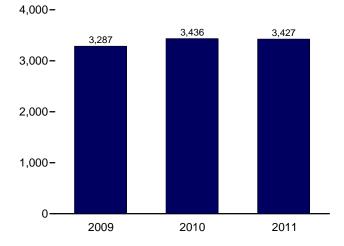
are at end of period.
• Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia.

Web 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 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 Construction Report. In Constitution, * 2003, EIA, Form EIA-860B, "Annual Electric Generator Report—Nontility." • 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."

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





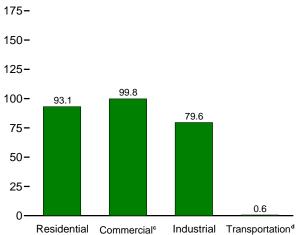
Retail Sales^a Total, January-November

^a Electricity retail sales to ultimate customers reported by utilities and other energy service providers.

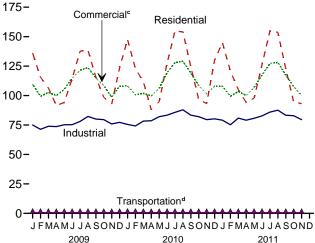
^b See "Direct Use" in Glossary.

° Commercial sector, including public street and highway lighting, interdepartmental sales, and other sales to public authorites.

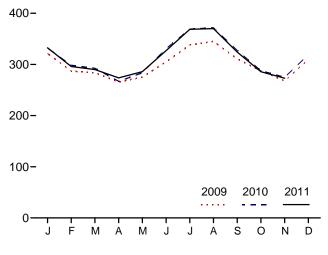
Retail Sales^a by Sector, November 2011



Retail Sales^a by Sector, Monthly







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

Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Sales ^a					Discont Retail Sale	
	Residential	Commercial ^b	Industrial ^c	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use ^g	Commercial (Old) ^h	Other (Old) ⁱ
973 Total	579,231	^E 444,505	686,085	^E 3,087	1,712,909	NA	1,712,909	388,266	59,326
975 Total	588,140	E 468,296	687,680	^E 2,974	1,747,091	NA	1,747,091	403,049	68,222
980 Total	717,495	558,643	815,067	3,244	2,094,449	NA	2,094,449	488,155	73,732
985 Total	793,934	689,121	836,772	4,147	2,323,974	NA	2,323,974	605,989	87,279
990 Total	924,019	838,263	945,522	4,751	2,712,555	124,529	2,837,084	751,027	91,988
995 Total	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,40
996 Total	1,082,512	980,061	1,033,631	4,923	3,101,127	152,638	3,253,765	887,445	97,53
997 Total	1,075,880	1,026,626	1,038,197	4,907	3,145,610	156,239	3,301,849	928,633	102,90
998 Total	1,130,109 1.144.923	1,077,957 1,103,821	1,051,203 1,058,217	4,962 5,126	3,264,231 3,312,087	160,866 171,629	3,425,097 3,483,716	979,401 1,001,996	103,518 106,952
999 Total 000 Total	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	100,952
001 Total	1.201.607	1,190,518	996,609	5,382	3,394,458	162,649	3,557,107	1,083,069	113,174
002 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,55
003 Total	1,275,824	1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029		
004 Total	1,291,982	1,230,425	1,017,850	7.224	3,547,479	168,470	3,715,949		
005 Total	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984		
006 Total	1,351,520	1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845		
007 Total	1,392,241	1,336,315	1,027,832	8,173	3,764,561	125,670	3,890,231		
008 Total	1,379,981	1,335,981	1,009,300	7,700	3,732,962	132,197	3,865,159		
009 January	136,080	109,523	75,003	774	321,379	E 10,369	331,749		
February	115,536	99,358	71,304	672	286,869	E 9,637	296,507		
March	106,544 91,473	102,646 100.020	73,913	671	283,773	^E 10,251 ^E 9,526	294,025		
April	91,473 94,180	105,215	73,662 75,198	611 599	265,766 275,193	E 9,767	275,292 284,960		
May June	114,347	114,752	75,246	611	304,956	E 10,524	315,480		
July	137,681	121,608	78,045	674	338,009	E 11,475	349,484		
August	138,447	123,662	82,298	644	345,051	E 11,820	356,871		
September	115.372	115,027	80.022	638	311,059	E 11,057	322,116		
October	98,522	108,635	79,584	607	287,348	E 10,795	298,143		
November	92,722	98,646	75,917	592	267,877	E 10,501	278,378		
December	123,570	108,076	77,251	688	309,585	E 11,214	320,800		
Total	1,364,474	1,307,168	917,442	7,781	3,596,865	126,938	3,723,803		
10 January	147,500	108,120	75,506	715	331,841	E 11,306	343,148		
February	122,840	100,747	74,164	689	298,440	^E 10,348 ^E 11,102	308,788		
March	111,790 88.046	101,756 99,791	78,303 78,597	656 600	292,505 267.034	E 10,293	303,607 277,327		
April May	94.843	106.176	82.088	606	283,712	E 10,823	294,536		
June	127,496	119,388	83,347	658	330,889	E 11,258	342,148		
July	154,688	127,925	85,725	667	369,006	E 11,924	380,930		
August	154,053	129,143	87,904	628	371,728	E 12,544	384,272		
September	124.582	119,137	83.353	639	327,711	E 11.446	339,157		
October	96,688	108,461	82,046	615	287,811	E 10.818	298,629		
November	93,166	101,524	79,575	607	274,871	E 10,731	285,602		
December	130,015	108,031	80,264	633	318,943	E 11,960	330,903		
Total	1,445,708	1,330,199	970,873	7,712	3,754,493	134,554	3,889,047		
11 January	144,911	107,884	79,055	710	332,561	E 11,528	344,089		
February	120,685	99,368	75,223	633 655	295,909	E 10,238	306,146		
March	105,065 94,069	103,507 100.019	80,817 79,099	618	290,044 273.805	E 10,717 E 10,322	300,760 284.127		
April May	94,069 97,755	106,841	80,741	615	285,951	E 11.048	297,000		
June	126,008	117,460	82,775	637	326,881	^E 11,117	337,998		
July	154,888	127,139	85,907	645	368,580	E 11,863	380,442		
August	153,688	128,200	87,565	620	370,073	E 11,802	381,875		
September	122.842	117,403	83.311	630	324,186	E 11,002	335,189		
October	94,576	107,655	82,860	608	285,699	E 10.563	296,263		
November	93,126	99,782	79,561	584	273,053	^E 10,852	283,905		
11-Month Total	1,307,613	1,215,258	896,914	6,957	3,426,742	E 121,052	3,547,794		
10 11-Month Total	1,315,694	1,222,168	890,609	7,080	3,435,550	^E 122,594	3,558,144		
09 11-Month Total	1,240,904	1,199,092	840,191	7,093	3,287,280	E 115,724	3,403,003		

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

^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.

"Other (Old)" is a discontinued series—data are for public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways.
 E=Estimate. NA=Not available. — =Not applicable.
 Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973.
 Sources: See end of section.

Electricity

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

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

Table 7.1 Sources

Net Generation, Electric Power Sector Table 7.2b.

Net Generation, Commercial and Industrial Sectors Table 7.2c.

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

1973–September 1977: Unpublished Federal Power Commission data.

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

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

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

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

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

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

Imports and Exports, Electricity Trade with Canada, 1990 Forward

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

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." 1984–1996: EIA, Form EIA-861, "Annual Electric Utility Report."

1997 forward: EIA, *Electric Power Monthly*, January 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*, January 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*, January 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*, December 2011, Table 7.2.

Direct Use, Monthly

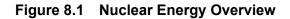
Annual shares are calculated as annual direct use divided by annual commercial and industrial net generation (on Table 7.1). Then monthly direct use estimates are calculated as the annual share multiplied by the monthly commercial and industrial net generation values. For 2011, the 2010 annual share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

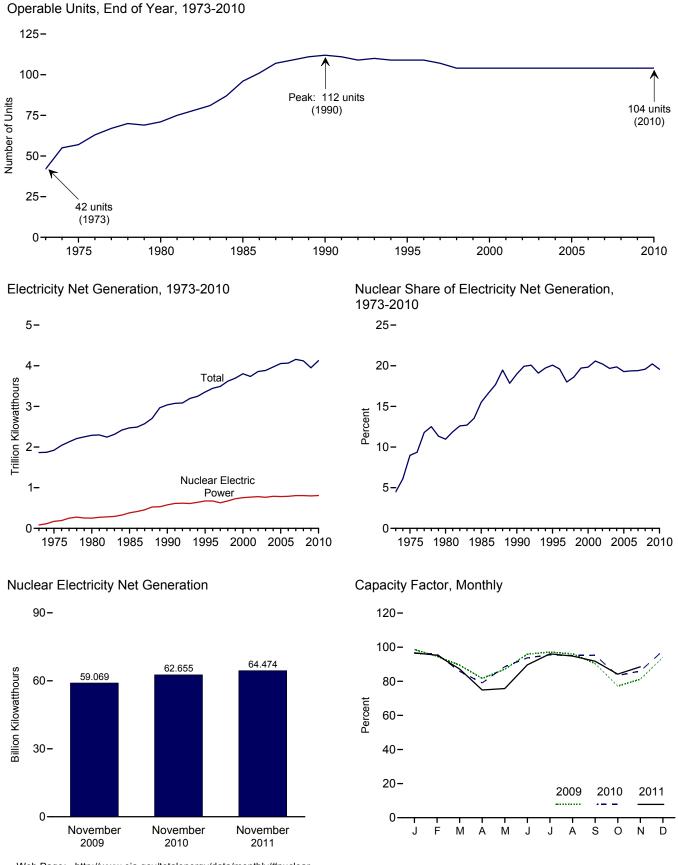
Discontinued Retail Sales Series Commercial (Old) and Other (Old)

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

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8. Nuclear Energy





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

Table 8.1	Nuclear	Energy	Overview
	Itaeleal		• • • • • • • •

	Total Operable	Net Summer Capacity of	Nuclear Electricity	Nuclear Share of Electricity	Conocity Front of
	Units ^{a,b}	Operable Units ^{b,c}	Net Generation	Net Generation	Capacity Factor ^d
	Number	Million Kilowatts	Million Kilowatthours	Pe	rcent
973 Total	42	22.683	83,479	4.5	53.5
975 Total	57	37.267	172,505	9.0	55.9
980 Total	71	51.810	251,116	11.0	56.3
985 Total	96	79.397	383,691	15.5	58.0
990 Total	112	99.624	576,862	19.0	66.0
995 Total	109	99.515	673,402	20.1	77.4
996 Total	105	100.784	674,729	19.6	76.2
997 Total	107	99.716	628.644	18.0	71.1
00 Total	107	97.070		18.6	78.2
998 Total			673,702		
999 Total	104	97.411	728,254	19.7	85.3
000 Total	104	97.860	753,893	19.8	88.1
001 Total	104	98.159	768,826	20.6	89.4
002 Total	104	98.657	780,064	20.2	90.3
003 Total	104	99.209	763,733	19.7	87.9
004 Total	104	99.628	788,528	19.9	90.1
005 Total	104	99.988	781,986	19.3	89.3
006 Total	104	100.334	787,219	19.4	89.6
007 Total	104	100.266	806,425	19.4	91.8
008 Total	104	100.755	806,208	19.6	91.1
009 January	104	101.004	74,102	20.9	98.6
February	104	101.004	64,227	21.3	94.6
March	104	101.004	67,241	21.6	89.5
April	104	101.004	59,408	20.5	81.7
May	104	101.004	65,395	21.0	87.0
June	104	101.004	69,735	20.1	95.9
July	104	101.004	72,949	19.6	97.1
	104				
August		101.004	72,245	19.0	96.1
September	104	101.004	65,752	20.1	90.4
October	104	101.004	58,021	18.9	77.2
November	104	101.004	59,069	19.9	81.2
December	104	101.004	70,710	20.2	94.1
Total	104	101.004	798,855	20.2	90.3
010 January	104	101.167	72,569	20.1	96.4
February	104	101.167	65,245	20.4	96.0
March	104	101.167	64,635	20.7	85.9
April	104	101.167	57,611	20.0	79.1
May	104	101.167	66,658	20.3	88.6
June	104	101.167	68,301	18.2	93.8
July	104	101.167	71,913	17.6	95.5
August	104	101.167	71,574	17.5	95.1
September	104	101.167	69,371	20.0	95.2
October	104	101.167	62,751	20.4	83.4
November	104	101.167	62,655	20.5	86.0
December	104	101.167	73.683	20.3	97.9
Total	104	101.167	806,968	19.6	91.1
011 January	104	101.167	72,743	20.0	96.6
	104			20.0	96.6 95.3
February		101.167	64,789		
March	104	101.167	65,662	20.6	87.2
April	104	101.167	54,547	18.0	74.9
May	104	101.167	57,017	17.6	75.8
June	104	101.167	65,270	17.7	89.6
July	104	101.167	72,345	17.2	96.1
August	104	101.167	71,339	17.6	94.8
September	104	101.167	66,849	19.8	91.8
October	104	101.167	63,354	20.5	84.2
November	104	101.167	64,474	21.2	88.5
11-Month Total	104	101.167	718,388	19.1	88.6
010 11-Month Total	104	101.167	733.285	19.5	90.4
009 11-Month Total	104	101.004	728,144	20.2	89.9
	107	101.004	120,177	20.2	03.5

 $^{\rm a}$ 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. $^{\rm b}$ At end of period.

 ^b 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 d

2, "Nuclear Capacity," at end of section.

2, "Nuclear Capacity," at end of section. 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.

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," and monthly updates as appropriate. For a list of currently operable units, see http://www.eia.gov/nuclear/reactors/stats table1.html.

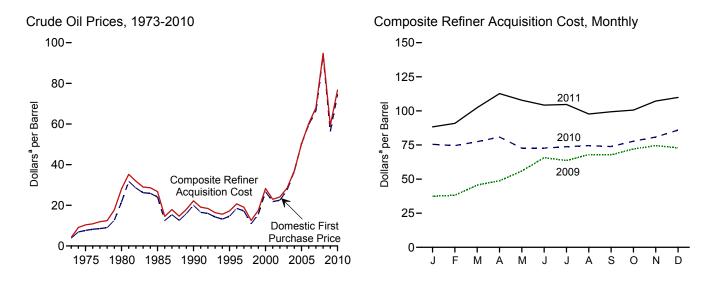
Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation

See Table 7.2a.

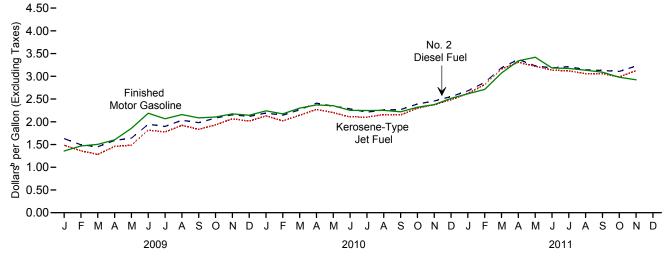
Capacity Factor

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

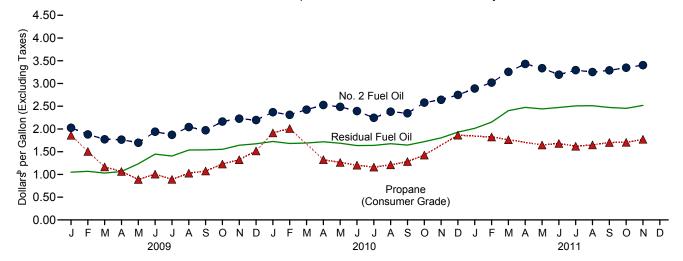
9. Energy Prices



Refiner Prices to End Users: Motor Gasoline, Diesel Fuel, and Jet Fuel, Monthly



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
973 Average	3.89	^f 5.21	^f 6.41	^E 4.17	^E 4.08	^E 4.15
975 Average	7.67	11.18	12.70	8.39	13.93	10.38
	21.59	32.37	33.67	24.23	33.89	28.07
980 Average						
85 Average	24.09	25.84	26.67	26.66	26.99	26.75
90 Average	20.03	20.37	21.13	22.59	21.76	22.22
95 Average	14.62	15.69	16.78	17.33	17.14	17.23
96 Average	18.46	19.32	20.31	20.77	20.64	20.71
97 Average	17.23	16.94	18.11	19.61	18.53	19.04
98 Average	10.87	10.76	11.84	13.18	12.04	12.52
	15.56	16.47	17.23	17.90	17.26	17.51
99 Average						
00 Average	26.72	26.27	27.53	29.11	27.70	28.26
01 Average	21.84	20.46	21.82	24.33	22.00	22.95
02 Average	22.51	22.63	23.91	24.65	23.71	24.10
03 Average	27.56	25.86	27.69	29.82	27.71	28.53
04 Average	36.77	33.75	36.07	38.97	35.90	36.98
05 Average	50.28	47.60	49.29	52.94	48.86	50.24
		57.03		62.62	59.02	60.24
06 Average	59.69		59.11			
07 Average	66.52	66.36	67.97	69.65	67.04	67.94
08 Average	94.04	90.32	93.33	98.47	92.77	94.74
09 January	35.00	36.87	38.74	38.67	36.84	37.45
February	34.14	38.08	40.27	37.51	38.56	38.15
March	42.45	44.34	46.74	44.92	45.96	45.57
April	45.19	47.67	51.43	47.52	49.58	48.78
May	52.67	55.61	58.27	54.58	56.77	55.96
June	63.09	64.82	65.89	64.65	66.37	65.72
July	60.44	62.32	64.78	63.79	63.46	63.58
August	65.28	67.47	68.53	67.81	68.09	67.99
September	65.28	65.41	68.50	67.87	67.65	67.74
October	69.82	70.45	72.58	72.09	72.06	72.08
November	71.99	73.16	74.41	74.60	74.40	74.48
December	70.42	71.24	73.50	73.35	72.67	72.95
Average	56.35	57.78	60.23	59.49	59.17	59.29
10 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
	70.30	70.17	72.62	73.93	71.91	72.66
June						
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
	95.66	06 00	90.64	00 70	97.00	00.00
11 January	85.66	86.80	89.61	88.73	87.99	88.28
February	86.69	92.07	94.25	89.50	91.72	90.85
March	99.19	104.19	104.80	102.34	102.48	102.43
April	108.80	111.52	112.54	111.96	113.08	112.65
May	102.46	105.92	108.28	107.55	107.99	107.82
	97.30	104.35	105.19	107.53	105.36	107.02
June						
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	^R 100.84	^R 101.03	96.89	101.05	99.39
October	92.28	^R 102.04	^R 102.44	^R 98.34	^R 102.00	^R 100.57
November	^R 100.20	^R 106.11	^R 105.01	106.69	^R 107.61	^R 107.23
	NA	NA	NA	E 110.35	E 109.41	E 109.87
December	INA	INA	INA	- 110.35	- 109.41	- 109.07

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

^a Prices are not adjusted to initiation. See Nonliniar Donars 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.
 ^e See Note 4, "Crude Oil Landed Costs," at end of section.

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

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

Sources: See end of section.

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

(Dollars^a per Barrel)

			S	elected Counti	ries			Persian		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC
1973 Average ^d	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
998 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
999 Average	17.46 27.90	17.20 29.04	15.89 25.39	17.32 28.70	17.65 24.62	19.14 27.21	14.33 24.45	17.15 24.72	15.90 25.56	16.84 26.77
2000 Average	27.90	29.04	25.39 18.89	28.70	24.62	27.21	24.45 18.01	24.72	25.56 19.73	26.77 21.04
2001 Average	23.25	24.25	21.60	24.65	23.92	23.30	20.13	23.38	22.18	21.04
2002 Average	24.09	28.89	24.83	29.40	25.03	24.50	23.81	25.17	25.36	26.21
	37.26	37.73	31.55	38.71	34.08	37.30	31.78	33.08	33.95	33.58
2004 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 January	39.50	26.24	36.96	46.26	W	W	36.68	35.24	37.61	36.15
February	40.60	32.55	37.59	45.02	W	_	38.03	36.38	39.71	36.81
March	44.56	46.69	40.94	50.34	48.31	W	41.78	47.66	45.75	42.96
April	50.59	W	46.71	54.00	W	-	45.98	51.05	48.82	46.87
May	55.23	54.17	55.49	59.02	W	-	54.91	58.05	56.30	55.12
June	66.96	62.94	63.83	69.00	W	-	63.16	64.26	65.37	64.34
July	63.34	58.58	60.42	69.73	W	w	60.16	63.42	63.25	61.39
August	72.25	64.41	67.20	72.37	66.37 W	VV	65.42	66.14	67.65	67.31
September	67.49 71.19	63.68 69.59	64.51 68.71	69.65 76.01	W	w	64.18 66.95	67.25 73.45	65.91 70.54	65.04 70.38
October November	76.89	70.96	72.71	77.58	Ŵ	Ŵ	69.43	72.99	70.54	70.38
December	76.89	66.72	69.75	76.06	Ŵ	~	68.32	72.85	72.48	70.01
Average	57.07	57.90	56.47	64.61	57.87	65.63	55.58	59.53	58.53	57.16
010 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
Мау	71.86	64.32	68.30	74.28	W	-	66.37	73.60	70.45	68.24
June	72.90	67.19	67.64	75.61	W	-	66.19	72.49	71.39	69.20
July	74.77	70.00	68.53	79.63	W	_	67.25	71.76	72.16	69.87
August	77.11	69.88	69.53	75.70	W	W	68.27	72.79	72.38	70.35
September	W	69.71	69.90	80.93	74.06	_	67.59	73.34	73.24	70.24
October		76.06	73.93	84.59	W	_	72.10	78.28	77.55	73.80
November December	85.99 W	78.92 81.62	77.14 81.75	86.61 93.68	Ŵ	_	75.03 77.78	80.99 W	80.95 85.72	78.49 82.40
Average	78.18	72.56	72.46	80.83	76.44	w	70.30	75.65	75.23	73.24
011 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	Ŵ	-	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	-	^R 95.72	108.41	^R 105.82	^R 97.08
October	[™] 109.34	R 102.37	^R 101.48	^R 114.46	W	-	^R 96.93	R 105.62	^R 105.14	^R 98.87
November	W	107.19	108.04	116.23	W	-	105.75	106.51	107.63	105.06

^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 individuel personandary.

individual company data.

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 where the actual ourspace not published. whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www available data beginning in 1973. Sources: See end of section. See http://www.eia.gov/totalenergy/data/monthly/#prices for all

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollars^a per Barrel)

				Selected	Countries						
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC ^c
1973 Average ^d	w	5.33	w	_	9.08	5.37	_	5.99	5.91	6.85	5.64
1975 Average	11.81	12.84	-	12.61	12.70	12.50	-	12.36	12.64	12.70	12.70
1980 Average	34.76	30.11	w	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
1985 Average	27.39	25.71	-	25.63	28.96	24.72	28.36	24.43	25.50	26.86	26.53
1990 Average	21.51	20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
1995 Average	17.66	16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
1996 Average	21.86	19.94	22.02	19.64	21.95	20.49	20.88	18.59	20.45	20.14	20.47
1997 Average	20.24	17.63	19.71	17.30	20.64	17.52	20.64	16.35	17.44	17.73	18.45
1998 Average	13.37	11.62	13.26	11.04	14.14	11.16	13.55	10.16 15.58	11.18	11.46	12.22 17.51
1999 Average	18.37 29.57	17.54 26.69	18.09 29.68	16.12 26.03	17.63 30.04	17.48 26.58	18.26 29.26	26.05	17.37 26.77	16.94 27.29	27.80
2000 Average	25.13	20.09	25.88	19.37	26.55	20.58	25.32	19.81	20.73	21.52	22.17
2001 Average	25.43	22.98	25.28	22.09	26.45	24.77	26.35	21.93	24.13	23.83	23.97
2003 Average	30.14	26.76	30.55	25.48	31.07	27.50	30.62	25.70	27.54	27.70	27.68
2004 Average	39.62	34.51	39.03	32.25	40.95	37.11	39.28	33.79	36.53	36.84	35.29
2005 Average	54.31	44.73	53.42	43.47	57.55	50.31	55.28	47.87	49.68	51.36	47.31
2006 Average	64.85	53.90	62.13	53.76	68.26	59.19	67.44	57.37	58.92	61.21	57.14
2007 Average	71.27	60.38	70.91	62.31	78.01	70.78	72.47	66.13	69.83	71.14	63.96
2008 Average	98.18	90.00	93.43	85.97	104.83	94.75	96.95	90.76	93.59	95.49	90.59
2009 January	43.58	34.17	32.08	38.08	48.98	39.78	W	39.12	39.41	40.26	36.96
February	42.83	35.83	34.49	38.16	47.00	44.46	W	39.58	43.17	42.75	38.08
March	47.58	44.22	46.70	41.76	53.02	52.14	47.76	43.87	50.54	48.55	45.09
April	53.45	47.60	46.43	47.26	59.03	57.32	52.41	48.40	57.10	54.22	48.78
May	56.44	54.42	54.90	56.22	63.48	62.40	60.43	56.78	62.11	60.06	56.79
	68.46	63.97 62.18	65.65 63.24	64.39 60.99	69.29 71.46	66.27	68.54 W	64.52 62.11	66.28 66.20	66.63 66.27	65.19 63.23
July August	67.21 72.52	64.23	66.71	67.71	73.94	66.14 69.37	73.66	67.23	69.23	70.00	66.96
September	72.63	66.59	66.27	65.00	71.94	72.77	73.00 W	65.85	72.05	70.00	66.84
October	74.94	70.28	71.24	69.40	77.72	74.20	Ŵ	68.85	74.18	73.71	71.46
November	78.25	71.95	72.70	73.29	79.00	73.92	ŵ	71.41	73.99	75.18	73.67
December	77.11	70.01	70.18	70.20	78.63	73.08	78.33	70.46	74.54	75.01	71.88
Average	61.32	57.60	58.50	57.35	68.01	62.14	63.87	57.78	62.15	61.90	58.58
2010 January	77.32	72.59	74.26	73.23	78.58	76.63	77.97	72.63	76.34	75.91	73.59
February	79.06	73.37	73.11	69.48	79.25	77.29	77.84	70.91	77.27	76.24	73.33
March	80.93	76.82	76.08	73.07	83.68	77.57	79.07	72.92	77.55	78.40	76.84
April	82.26	78.36	76.33	75.03	86.80	79.53	80.25	75.21	79.15	80.07	78.61
May	74.80	69.16	66.52	68.71	76.90	77.52	W	68.53	76.20	73.95	70.20
June	76.54	69.14	69.64	68.02	78.14	76.01	77.67	68.30	75.14	74.55	70.92
July	77.20	70.25	71.61	69.31	81.07	75.46	76.60	69.59	74.75	74.81	72.03
August	78.40	70.10	71.49	69.95 70.47	79.15	76.06	79.52 W	70.14	75.81	75.42	71.81
September	80.49 85.33	68.66 69.23	70.85 76.72	70.47 74.73	81.58 86.01	77.15 81.81	W	68.88 74.29	76.64 81.24	76.39 80.52	71.89 74.15
October November	86.98	69.23 75.40	80.24	74.73	89.15	84.62	87.10	74.29	84.09	84.38	78.96
December	91.77	80.76	82.76	82.37	95.44	90.45	92.50	80.79	89.99	89.25	83.97
Average	80.63	72.80	74.25	72.86	83.15	79.25	80.12	72.43	78.58	78.27	74.67
2011 January	99.58	81.43	85.88	85.00	101.24	96.59	W	84.70	96.57	94.03	85.02
February	110.07	80.65	90.14	89.08	108.94	103.20	Ŵ	89.88	101.81	99.96	89.03
March	114.40	89.32	105.74	103.03	117.17	110.12	118.42	101.22	109.56	109.23	101.20
April	124.01	99.26	112.47	110.55	126.47	116.13	124.67	107.95	115.18	116.64	108.91
May	116.76	98.29	109.70	105.62	119.95	112.19	W	104.04	111.48	111.90	105.06
June	116.73	92.36	104.31	103.71	120.81	110.00	W	102.32	108.97	109.87	100.83
July	117.98	91.76	101.35	105.38	121.80	111.06	W	103.04	110.19	111.58	100.38
August	113.36	84.05	95.08	98.78	115.83	109.38	W	99.54	108.26	106.24	93.81
September	^R 112.63	^R 85.19	99.17	99.90	R 117.19	R 109.91	W	^R 99.10	R 108.82	R 107.67	^R 95.59
October	[^] 114.75	R 87.94	R 104.14	R 101.97	R 116.09	R 109.17	W	R 99.89	R 108.36	R 108.06	^R 97.79
November	W	93.45	108.18	108.56	118.47	108.53	-	107.25	108.26	109.56	102.37

 ^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 reinined OPEC) 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 conly 1976–1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC." ^d Based on October, November, and December data only.

 d 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. • 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 buve here determined and reported. • LIS constrained prices using the formation of the time the crude oil is acquired for the formation of the time the crude oil is acquired for the formation of the time the crude oil is acquired for the formation of the time the crude oil is acquired for the formation of the time the crude oil is acquired for the formation of the time the crude oil is acquired for the time the formation of the time the crude oil is acquired for the time the crude oil is acquired for the time the crude oil is acquired for the crude oil to the time the time the crude oil to the time the crude oil to the time the time the crude oil to the time the crude o

into the United States, are not included in the published data until the actual prices have been determined and reported.
 U.S. geographic coverage is the 50 States and the District of Columbia.
 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.
 Sources: October 1973-September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report."
 October 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 22.
 2010 and 2011: EIA, Petroleum Marketing Monthly, February 2012, Table 22.

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

(Dollars^a per Gallon, Including Taxes)

	Leaded Regular	Unleaded Regular	Unleaded Premium ^b	All Types ^c
973 Average	0.388	NA	NA	NA
975 Average	0.567	NA	NA	NA
	1.191	1.245	NA	1.221
980 Average	1.115	1.245	1.340	1.196
985 Average				
990 Average	1.149	1.164	1.349	1.217
995 Average	NA	1.147	1.336	1.205
996 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
001 Average	NA	1.461	1.657	1.531
002 Average	NA	1.358	1.556	1.441
003 Average	NA	1.591	1.777	1.638
	NA	1.880	2.068	
004 Average				1.923
05 Average	NA	2.295	2.491	2.338
006 Average	NA	2.589	2.805	2.635
007 Average	NA	2.801	3.033	2.849
008 Average	NA	3.266	3.519	3.317
009 January	NA	1.787	2.036	1.838
February	NA	1.928	2.182	1.979
March	NA	1.949	2.197	2.000
April	NA	2.056	2.309	2.107
	NA	2.050	2.509	2.314
May				
June	NA	2.631	2.883	2.681
July	NA	2.543	2.806	2.594
August	NA	2.627	2.887	2.677
September	NA	2.574	2.845	2.626
October	NA	2.561	2.826	2.613
November	NA	2.660	2.917	2.709
December	NA	2.621	2.882	2.671
Average	NA	2.350	2.607	2.401
10 January	NA	2.731	2.987	2.779
	NA	2.659	2.987	2.709
February				
March	NA	2.780	3.035	2.829
April	NA	2.858	3.113	2.906
Мау	NA	2.869	3.124	2.915
June	NA	2.736	3.000	2.783
July	NA	2.736	2.997	2.783
August	NA	2.745	3.015	2.795
September	NA	2.704	2.968	2.754
October	NA	2.795	3.055	2.843
November	NA	2.795	3.109	2.843
December Average	NA NA	2.985 2.788	3.234 3.047	3.031 2.836
-				
011 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	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
	NA	3.399	3.663	3.447

^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.

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.

Table 9.5 Refiner Prices of Residual Fuel Oil

(Dollars^a per Gallon, Excluding Taxes)

	Sulfur Co	l Fuel Oil ntent Less Il to 1 Percent	Sulfur	Il Fuel Oil Content an 1 Percent	Ave	erage
	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
990 Average	0.472	0.505	0.372	0.400	0.413	0.444
995 Average	0.383	0.436	0.338	0.377	0.363	0.392
996 Average	0.456	0.526	0.389	0.433	0.420	0.455
997 Average	0.415	0.488	0.366	0.403	0.387	0.423
998 Average	0.299	0.354	0.269	0.287	0.280	0.305
999 Average	0.382	0.405	0.329	0.362	0.354	0.374
000 Average	0.627	0.708	0.512	0.566	0.566	0.602
001 Average	0.523	0.642	0.428	0.492	0.476	0.531
002 Average	0.546	0.640	0.508	0.544	0.530	0.569
003 Average	0.728	0.804	0.588	0.651	0.661	0.698
004 Average	0.764	0.835	0.601	0.692	0.681	0.739
005 Average	1.115	1.168	0.842	0.974	0.971	1.048
006 Average	1.202	1.342	1.085	1.173	1.136	1.218
007 Average	1.406	1.436	1.314	1.350	1.350	1.374
008 Average	1.918	2.144	1.843	1.889	1.866	1.964
009 January	1.035	1.164	0.861	0.953	0.926	1.049
February	1.011	1.200	0.918	0.974	0.954	1.068
March	1.019	1.183	0.917	0.952	0.952	1.030
April	1.077	1.174	0.992	1.027	1.017	1.066
May	1.205	1.213	1.191	1.245	1,195	1.234
June	1.401	1.440	1.373	1.451	1.381	1.447
July	1.417	1.488	1.400	1.369	1.405	1.404
August	1.584	1.641	1.567	1.488	1.572	1.536
September	1.531	1.689	1.556	1.491	1.549	1.540
October	1.619	1.717	1.549	1.501	1.560	1.552
November	1.743	1.739	1.700	1.602	1.711	1.642
December	1.723	1.813	1.673	1.614	1.685	1.674
Average	1.337	1.413	1.344	1.306	1.342	1.341
010 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
	1.739	1.862	1.700	1.609	1.711	1.692
March						
April	1.827	1.887	1.725	1.655	1.748	1.718
Мау	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		1.688		1.712	1.721
October		1.913		1.637		
November	1.865	2.025	1.741	1.701	1.768	1.804
December	2.036	2.215	1.814	1.784	1.865	1.931
Average	1.756	1.920	1.679	1.619	1.697	1.713
011 January	NA	2.302	1.896	1.870	1.918	2.013
February	2.100	2.451	2.079	2.019	2.086	2.150
March	2.344	2.654	2.307	2.245	2.321	2.403
April	2.555	2.741	2.427	2.370	2.448	2.475
May	2.463	2.786	2.374	2.325	2.392	2.440
June	2.467	2.905	2.377	2.312	2.402	2.473
July	2.547	2.877	2.430	2.362	2.474	2.508
August	2.394	2.896	2.392	2.342	2.392	2.512
September	2.368	2.882	2.370	2.318	2.369	2.473
October	2.512	2.891	^R 2.375	2.276	^R 2.406	2.454
November	2.566	2.853	2.423	2.366	2.458	2.518

 $^{\rm a}\,$ Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. R=Revised.

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, "Historical Petroleum Prices," at end of section. $\bullet\,$ 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.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 16. • 2010 and 2011: EIA, Petroleum Marketing Monthly, February 2012, Table 16.

Table 9.6 Refiner Prices of Petroleum Products for Resale

(Dollars^a per Gallon, Excluding Taxes)

	Motor Gasoline ^b	Aviation Gasoline	Type Jet Fuel	Kerosene	Fuel Oil	Diesel Fuel	(Consumer Grade)
78 Average	0.434	0.537	0.386	0.404	0.369	0.365	0.237
80 Average	0.941	1.128	0.868	0.864	0.803	0.801	0.415
85 Average	0.835	1.130	0.794	0.874	0.776	0.772	0.398
90 Average	0.786	1.063	0.773	0.839	0.697	0.694	0.386
95 Average	0.626	0.975	0.539	0.580	0.511	0.538	0.344
96 Average	0.713	1.055	0.646	0.714	0.639	0.659	0.461
97 Average	0.700	1.065	0.613	0.653	0.590	0.606	0.416
	0.526	0.912	0.450	0.465	0.422	0.444	0.288
98 Average	0.645	1.007	0.533	0.550	0.422	0.546	0.342
99 Average							
000 Average	0.963	1.330	0.880	0.969	0.886	0.898	0.595
01 Average	0.886	1.256	0.763	0.821	0.756	0.784	0.540
02 Average	0.828	1.146	0.716	0.752	0.694	0.724	0.431
03 Average	1.002	1.288	0.871	0.955	0.881	0.883	0.607
04 Average	1.288	1.627	1.208	1.271	1.125	1.187	0.751
05 Average	1.670	2.076	1.723	1.757	1.623	1.737	0.933
06 Average	1.969	2.490	1.961	2.007	1.834	2.012	1.031
07 Average	2.182	2.758	2.171	2.249	2.072	2.203	1.194
08 Average	2.586	3.342	3.020	2.851	2.745	2.994	1.437
09 January	1.246	1.851	1.472	1.810	1.548	1.480	0.974
February	1.333	2.040	1.352	1.607	1.427	1.326	0.890
March	1.397	2.031	1.266	1.456	1.358	1.315	0.805
April	1.482	2.225	1.425	1.480	1.397	1.456	0.719
May	1.763	2.478	1.460	1.540	1.468	1.531	0.728
June	2.022	2.743	1.780	1.849	1.744	1.828	0.838
July	1.867	2.548	1.759	1.773	1.658	1.745	0.760
August	2.026	2.759	1.894	1.951	1.804	1.937	0.837
September	1.915	2.592	1.822	1.857	1.774	1.848	0.923
	1.975	2.611	1.917	2.053	1.918	1.978	1.004
October							
November	2.039	2.701	2.060	2.067	2.004	2.037	1.088
December	1.999	2.655	2.012	2.148	1.989	1.997	1.178
Average	1.767	2.480	1.719	1.844	1.657	1.713	0.921
10 January	2.097	2.759	2.121	2.282	2.075	2.078	1.332
February	2.033	2.662	1.999	2.216	1.986	2.025	1.324
March	2.197	2.906	2.129	2.219	2.100	2.163	1.179
April	2.265	2.999	2.247	2.281	2.214	2.312	1.144
May	2.152	2.945	2.186	2.110	2.129	2.177	1.098
June	2.113	2.835	2.094	2.103	2.037	2.120	1.049
July	2.113	2.891	2.100	2.046	2.001	2.098	1.043
August	2.095	2.842	2.138	2.040	2.001	2.098	1.012
	2.095	2.805	2.130	2.125	2.041	2.101	1.151
September	2.000		2.131				
October		2.890		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
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	^R 2.962	^R 3.096	2.915	3.035	1.511
November	2.805	3.494	3.089	3.259	3.050	3.156	1.498

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b See Note 5, "Motor Gasoline Prices," at end of section.
 R=Revised. NA=Not available.

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

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 and 2011: EIA, Petroleum Marketing Monthly, February 2012, Table 4.

Information Administration (EIA) estimates. See Note 6, "Historical Petroleum

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

Table 9.7 Refiner Prices of Petroleum Products to End Users

(Dollars^a per Gallon, Excluding Taxes)

	Finished Motor Gasoline ^b	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume Grade)
		1	1	, , , , , , , , , , , , , , , , , , ,		1	
978 Average	0.484	0.516	0.387	0.421	0.400	0.377	0.335
980 Average	1.035	1.084	0.868	0.902	0.788	0.818	0.482
85 Average	0.912	1.201	0.796	1.030	0.849	0.789	0.717
990 Average	0.883	1.120	0.766	0.923	0.734	0.725	0.745
995 Average	0.765	1.005	0.540	0.589	0.562	0.560	0.492
96 Average	0.847	1.116	0.651	0.740	0.673	0.681	0.605
97 Average	0.839	1.128	0.613	0.745	0.636	0.642	0.552
98 Average	0.673	0.975	0.452	0.501	0.482	0.494	0.405
999 Average	0.781	1.059	0.543	0.605	0.558	0.584	0.458
	1.106	1.306	0.899	1.123	0.927	0.935	0.603
000 Average							
001 Average	1.032	1.323	0.775	1.045	0.829	0.842	0.506
02 Average	0.947	1.288	0.721	0.990	0.737	0.762	0.419
03 Average	1.156	1.493	0.872	1.224	0.933	0.944	0.577
004 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
05 Average							
06 Average	2.128	2.682	1.998	2.244	1.982	2.096	1.358
007 Average	2.345	2.849	2.165	2.263	2.241	2.267	1.489
08 Average	2.775	3.273	3.052	3.283	2.986	3.150	1.892
09 January	1.358	1.857	1.483	2.626	2.026	1.630	1.861
February	1.468	1.974	1.360	2.627	1.879	1.495	1.505
March	1.503	1.977	1.281	2.565	1.772	1.450	1.166
April	1.601	2.150	1.458	2.540	1.765	1.589	1.065
May	1.856	2.423	1.486	2.497	1.697	1.640	0.889
June	2.187	2.707	1.818	2.490	1.939	1.945	1.008
July	2.067	2.607	1.774	2.462	1.871	1.897	0.891
August	2.157	2.764	1.922	2.545	2.041	2.032	1.029
September	2.086	2.684	1.834	NA	1.972	1.980	1.075
October	2.104	2.693	1.930	2.738	2.163	2.082	1.229
November	2.173	2.845	2.064	2.875	2.227	2.155	1.323
December	2.144	2.799	2.016	2.894	2.197	2.117	1.517
Average	1.888	2.442	1.704	2.675	1.962	1.834	1.220
10 January	2.240	2.914	2.129	2.986	2.369	2.192	1.913
February	2.173	2.855	2.018	2.974	2.310	2.144	2.009
March	2.301	3.103	2.144	2.978	2.425	2.265	NA
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
							1.283
September	2.219	2.893	2.148	2.898	2.346	2.269	
October	2.319	3.000	2.298	3.058	2.580	2.389	1.425
November	2.378	3.095	2.374	3.130	2.641	2.457	NA
December	2.514	3.218	2.484	3.276	2.749	2.554	1.863
Average	2.301	3.028	2.201	3.063	2.462	2.314	1.481
11 January	2.615	3.323	2.623	3.358	2.889	2.681	NA
February	2.712	3.374	2.818	3.506	3.020	2.867	1.823
March	3.072	3.767	3.161	3.697	3.255	3.189	1.763
April	3.340	4.132	3.306	3.796	3.430	3.370	NA
May	3.419	4.091	3.220	3.894	3.337	3.231	1.648
June	3.184	3.913	3.138	3.802	3.193	3.183	1.681
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	^R 2.980	3.697	2.987	3.823	^R 3.346	^R 3.108	1.706
	2.923	3.620	3.124	3.892	3.403	3.226	1.772

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b See Note 5, "Motor Gasoline Prices," at end of section.
 R=Revised. NA=Not available.
 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. $\bullet\,$ Values for the current month are preliminary. $\bullet\,$ 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 and 2011: EIA, Petroleum Marketing Monthly, February 2012, Table 2.

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
980 Average	0.963	1.004	1.015	0.978	1.011	0.983	0.982	0.979	0.964
985 Average	0.997	1.024	1.077	1.070	1.067	1.080	1.113	1.059	1.023
990 Average	0.989	1.024	1.070	1.084	1.086	1.098	1.125	1.087	1.026
995 Average	0.787	0.779	0.853	0.844	0.874	0.864	0.955	0.888	0.826
996 Average	0.972	0.940	0.969	0.976	0.986	0.986	1.063	1.024	0.953
997 Average	0.942	0.940	0.987	0.960	0.989	0.963	1.065	1.024	0.950
	0.788	0.788	0.873	0.818	0.868	0.831	0.948	0.892	0.814
998 Average	0.813	0.770	0.854	0.836	0.858	0.852	0.948	0.913	0.814
999 Average	1.297	1.281	1.255	1.273	1.259	1.291	1.442	1.404	1.224
2000 Average									
001 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
2006 Average	2.294	2.283	2.408	2.355	2.360	2.357	2.458	2.467	2.286
2007 Average	2.540	2.535	2.679	2.576	2.602	2.615	2.674	2.664	2.508
2008 Average	3.199	3.207	3.323	3.197	3.210	3.195	3.293	3.267	3.157
009 January	2.506	2.537	2.774	2.356	2.346	2.576	2.543	2.389	2.427
February	2.404	2.426	2.693	2.226	2.209	2.429	2.447	2.288	2.268
March	2.237	2.283	2.545	2.166	2.127	2.362	2.334	2.166	2.202
April	2.250	2.246	2.437	2.192	2.143	2.314	2.338	2.187	2.177
May	2.175	2.151	2.370	2.142	2.169	2.225	2.300	2.187	2.190
June	2.295	2.201	2.376	2.371	2.385	2.413	2.428	2.381	2.211
July	2.268	2.077	2.324	2.312	2.285	2.354	2.291	2.322	2.137
August	2.350	2.243	2.378	2.432	2.454	2.490	2.523	2.454	2.257
September	2.333	2.272	2.403	2.386	2.357	2.349	2.455	2.437	2.196
October	2.391	2.373	2.484	2.470	2.537	2.516	2.574	2.541	2.315
November	2.461	2.484	2.604	2.619	2.685	2.645	2.747	2.710	2.520
December	2.486	2.523	2.640	2.634	2.718	2.665	2.733	2.731	2.536
Average	2.382	2.377	2.593	2.358	2.376	2.487	2.504	2.404	2.330
Average	2.502	2.511	2.555	2.550	2.570	2.407	2.304	2.404	2.550
010 January	2.583	2.611	2.753	2.762	2.856	2.764	2.893	2.928	2.692
February	2.536	2.600	2.705	2.729	2.777	2.730	2.845	2.871	2.697
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
May	2.511	2.636	2.710	2.811	2.921	2.736	2.781	2.873	2.680
June	2.479	2.574	2.649	2.716	2.829	2.705	2.691	2.747	2.561
July	2.478	2.532	2.614	2.656	2.728	2.653	2.651	2.715	2.519
August	2.469	2.513	2.619	2.651	2.735	2.634	2.668	2.701	2.543
September	2.539	2.543	2.657	2.686	2.745	2.647	2.721	2.754	2.583
October	2.677	2.642	2.784	2.860	2.942	2.822	2.848	2.912	2.759
November	2.774	2.772	2.924	2.969	3.044	2.946	2.969	3.077	2.892
December	2.910	2.904	3.032	3.126	3.197	3.106	3.147	3.278	3.061
Average	2.639	2.680	2.795	2.850	2.927	2.835	2.894	2.973	2.780
2011 January	3.071	3.102	3.186	3.313	3.368	3.268	3.281	3.458	3.237
	3.188	3.269	3.330	3.493	3.536	3.200	3.428	3.624	3.369
February	3.100	3.209	3.330	3.493	3.000	3.477	3.420	3.024	3.309

(Dollars^a per Gallon, Excluding Taxes)

^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.

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, February 2012, Table 15.

Due to recent budget cuts, EIA is adjusting its data programs. Beginning with the June 2011 Monthly Energy Review, No. 2 distillate fuel oil prices to residences (Tables 9.8a–9.8c) will not be available for March 2011 forward.

		District									
		of			West						
	Delaware	Columbia	Maryland	Virginia	Virginia	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesota
4070 4	0.470	0 507	0.400	0.404	0.400	0.474	0.470	0.405	0.405	0.447	0.470
1978 Average 1980 Average	0.478 0.954	0.507 1.026	0.492 0.979	0.491 0.985	0.462 0.922	0.474 0.919	0.479 0.978	0.485 0.996	0.465 0.958	0.447 0.915	0.478 0.999
1985 Average	1.046	1.143	1.088	1.063	0.922	0.919	1.021	0.990	0.958	0.983	1.019
1990 Average	1.058	1.078	1.119	1.106	0.991	0.981	1.009	0.993	0.961	0.942	1.013
1995 Average	0.870	1.010	0.936	0.844	0.815	0.808	0.860	0.816	0.785	0.812	0.801
1996 Average	0.984	1.178	1.063	0.952	0.960	0.921	0.977	0.912	0.893	0.899	0.909
1997 Average	0.984	1.174	1.057	0.948	0.962	0.913	0.942	0.865	0.870	0.933	0.899
1998 Average	0.858	1.022	0.902	0.856	0.818	0.767	0.804	0.748	0.735	0.801	0.738
1999 Average	0.884	1.011	0.907	0.870	0.789	0.820	0.883	0.793	0.716	0.847	0.774
2000 Average	1.270	w	1.351	1.269	1.251	1.220	NA	1.207	1.095	1.171	1.156
2001 Average	1.234	1.431	1.342	1.202	1.139	1.160	NA	1.133	1.121	1.180	1.122
2002 Average	1.164	Ŵ	1.201	1.057	1.054	1.058	1.109	1.025	0.975	1.073	1.051
2003 Average	1.433	Ŵ	1.455	1.311	1.304	1.284	1.321	1.202	1.198	1.269	1.218
2004 Average	1.570	Ŵ	1.632	1.462	1.493	1.475	1.539	1.537	1.405	1.465	1.433
2005 Average	2.075	Ŵ	2.127	2.044	2.043	2.009	2.053	2.017	2.021	1.993	1.987
2006 Average	2.381	Ŵ	2.398	2.268	2.261	2.244	2.329	2.317	2.312	2.297	2.268
2007 Average	2.584	Ŵ	2.668	2.407	2.478	2.494	2.588	2.557	2.528	2.571	2.587
2008 Average	3.187	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	2.253	W	2.275	1.999	2.042	1.826	1.806	1.822	1.836	1.781	1.735
April	2.267	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	2.421	w	2.473	2.193	2.265	2.130	2.096	2.189	2.155	2.105	2.124
2010 January	2.878	W	2.861	2.594	2.681	2.572	2.526	2.565	2.526	2.466	2.505
February	2.857	W	2.833	2.561	2.714	2.533	2.501	2.510	2.516	2.421	W
March	2.988	W	2.894	2.587	2.712	2.585	2.640	2.614	2.660	2.537	2.580
April	NA	W	2.858	NA	2.676	2.566	2.731	2.679	2.777	2.640	2.668
May	2.853	W	2.808	2.435	2.583	2.574	2.669	NA	2.783	2.567	2.581
June	2.695	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	2.617	W	2.669	2.351	2.547	2.511	2.508	2.550	W	2.514	2.559
September	2.678	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	NA	W	2.985	2.754	2.834	2.802	2.830	2.864	2.915	2.788	2.866
December	3.223	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	3.431	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
•											

Table 9.8b No. 2 Distillate Prices to Residences: Selected South Atlantic and Midwestern States (Dollars^a per Gallon, Excluding Taxes)

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

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

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, February 2012, Table 15.

Due to recent budget cuts, EIA is adjusting its data programs. Beginning with the June 2011 Monthly Energy Review, No. 2 distillate fuel oil prices to residences (Tables 9.8a–9.8c) will not be available for March 2011 forward.

Table 9.8c No. 2 Distillate Prices to Residences: Selected Western States

	Idaho	Washington	Oregon	Alaska	U.S. Average
		-	_		
978 Average	0.436	0.486	0.458	0.532	0.490
980 Average	0.916	1.008	0.973	0.978	0.974
985 Average	0.972	1.011	0.971	1.083	1.053
990 Average	0.974	1.029	0.970	1,101	1.063
995 Average	0.839	0.962	0.894	0.834	0.867
996 Average	0.933	1.080	0.989	0.909	0.989
97 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
02 Average	0.919	1.204	1.060	1.087	1.129
	1.188	1.487	1.303	1.243	1.355
003 Average 004 Average	1.495	1.749	1.594	1.524	1.548
005 Average	2.123	2.385	2.146	2.061	2.052
005 Average	2.391	2.681	2.411	2.395	2.365
	2.598	2.909	2.500	2.535	2.592
007 Average	2.596	2.909	2.500	3.485	3.219
008 Average	3.070	5.401	3.000	3.465	5.219
009 January	1.879	2.388	1.939	2.160	2.426
February	1.762	2.253	1.819	NA	2.309
March	1.674	2.124	1.727	1.946	2.210
April	1.863	2.414	1.986	2.140	2.211
May	1.878	2.473	2.050	2.256	2.167
June	2.148	2.544	2.278	2.506	2.307
July	2.123	2.335	2.149	2.362	2.219
August	2.158	2.489	2.326	2.554	2.369
September	2.273	2.658	2.357	NA	2.334
October	2.333	2.737	2.469	NA	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	2.030	2.475	2.503	2.386
Average	2.040	2.431	2.132	2.303	2.300
010 January	2.392	2.918	2.583	NA	2.763
February	2.412	2.817	2.536	2.790	2.658
March	2.569	2.924	2.664	2.884	2.757
April	2.747	3.105	2.817	2.965	2.787
May	2.675	3.053	2.685	2.958	2.723
June	NA	2.892	2.653	2.891	2.623
July	2.540	NA	NA	2.878	2.584
August	2.598	2.757	2.625	2.901	2.597
September	2.676	NA	2.760	2.944	2.641
October	2.853	3.174	2.871	3.041	2.795
November	2.937	3.195	2.935	3.070	2.926
December	2.980	3.242	2.933	3.134	3.089
Average	2.300	3.039	2.331	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

and U.S. Average (Dollars^a per Gallon, Excluding Taxes)

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. NA=Not available.

Petroleum Prices," at end of section.

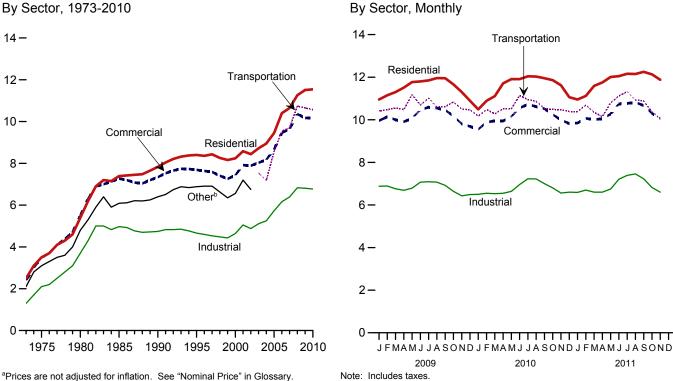
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all

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

available data beginning in 1978.
 Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15.
 2010 and 2011: EIA, Petroleum Marketing Monthly, February 2012, Table 15.

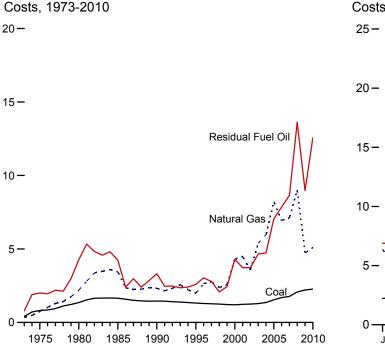
Due to recent budget cuts, EIA is adjusting its data programs. Beginning with the June 2011 Monthly Energy Review, No. 2 distillate fuel oil prices to residences (Tables 9.8a–9.8c) will not be available for March 2011 forward.

Figure 9.2 Average Retail Prices of Electricity (Cents^a per Kilowatthour)



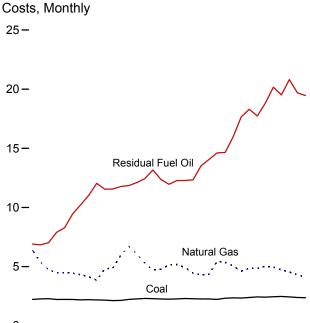
^aPrices are not adjusted for inflation. See "Nominal Price" in Glossary. ^bPublic street and highway lighting, interdepartmental sales, other sales to public authorities, agricultural and irrigation, and transportation including railroads and railways.

Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants (Dollars^a 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 9.9.



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2009 2010 2011 Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.10.

Table 9.9 Average Retail Prices of Electricity

		e ist		– d		
	Residential	Commercial ^b	Industrial ^c	Transportation ^d	Other ^e	Total
73 Average	2.50	2.40	1.30	NA	2.10	2.00
75 Average	3.50	3.50	2.10	NA	3.10	2.90
	5.40	5.50	3.70	NA	4.80	4.70
30 Average						
35 Average	7.39	7.27	4.97	NA	6.09	6.44
00 Average	7.83	7.34	4.74	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
7 Average	8.43	7.59	4.53	NA	6.91	6.85
8 Average	8.26	7.41	4.48	NA	6.63	6.74
	8.16	7.26	4.43	NA	6.35	6.64
99 Average						
00 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
03 Average	8.72	8.03	5.11	7.54		7.44
04 Average	8.95	8.17	5.25	7.18		7.61
	9.45	8.67	5.73	8.57		8.14
05 Average						
06 Average	10.40	9.46	6.16	9.54		8.90
07 Average	10.65	9.65	6.39	9.70		9.13
08 Average	11.26	10.36	6.83	10.74		9.74
09 January	10.95	9.96	6.88	10.42		9.66
February	11.15	10.14	6.89	10.47		9.74
	11.30	10.00	6.76	10.55		9.65
March						
April	11.51	9.91	6.69	10.48		9.57
May	11.77	10.07	6.79	11.18		9.76
June	11.80	10.47	7.07	10.69		10.13
July	11.85	10.59	7.09	11.02		10.30
August	11.96	10.55	7.07	10.61		10.28
	11.95	10.46	6.92	10.61		10.20
September						
October	11.66	10.17	6.64	10.84		9.70
November	11.30	9.81	6.43	10.50		9.37
December	10.89	9.69	6.49	10.47		9.38
Average	11.51	10.17	6.81	10.65		9.82
10 January	10.49	9.55	6.50	10.17		9.28
	10.89	9.89	6.55	10.48		9.47
February						
March	11.11	9.95	6.53	10.28		9.48
April	11.71	9.95	6.55	10.52		9.53
May	11.91	10.15	6.64	10.52		9.72
June	11.91	10.56	6.96	11.14		10.18
July	12.04	10.72	7.23	10.95		10.10
	12.04	10.62	7.22			10.40
August				10.86		
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
11 January						
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
11-Month Average	11.82	10.36	6.92	10.64		10.02
10 11-Month Average	11.58	10.22	6.79	10.58		9.85
IU II-INIOIILII AVEFAGE	11.38	10.22	0./9	10.38		9.85

ents^a per Kilowatthour Including Taxes)

 ^a Prices are not adjusted for inflation. See "Nominal Price" in Glossary.
 ^b Commercial sector. For 1973–2002, prices exclude public street and highway lighting, interdepartmental sales, and other sales to public authorities.
 ^c Industrial sector. For 1973–2002, prices exclude agriculture and irrigation.
 ^d Transportation sector, including railroads and railways.
 ^e Public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and irrigation, and transportation including railroads and railways. and railways.

and railways. NA=Not available. --=Not applicable. Notes: • Beginning in 2003, the category "Other" has been replaced by "Transportation," and the categories "Commercial" and "Industrial" have been redefined. • Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of energy service provider billing and accounting procedures. That lack of correspondence could result in uncharacteristic increases or decreases in the monthly prices. • Prices include State and local taxes, energy or demand charges, customer service charges, environmental surcharges, franchise fees, fuel adjustments, and other miscellaneous charges applied to end-use customers during normal billing operations. Prices do not include deferred charges, credits, or other adjustments, such as fuel or revenue from purchased power, from previous reporting periods. See Note 7, "Electricity Retail Prices," at end of section for plant coverage, and for information on prelimit of Columbia. • Geographic coverage is the 50

States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.

available data beginning in 1973.
Sources: • 1973-September 1977: Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • October 1977-February 1980: Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • March 1980-1982: FERC, Form FERC-5, "Electric Utility Company Monthly Statement."
1983: U.S. Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement." • 1984-1996: EIA, Form EIA-861, "Annual Electric Utility Report." • 1997 forward: EIA, Electric Power Monthly, January 2012. Table 5.3.

2012, Table 5.3.

Table 9.10 Cost of Fossil-Fuel Receipts at Electric Generating Plants

(Dollars^a per Million Btu, Including Taxes)

			Petrole	um			
	Coal	Residual Fuel Oilb	Distillate Fuel Oilc	Petroleum Coke	Totald	Natural Gase	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
980 Average	1.35	4.27	NA	NA	4.35	2.20	1.93
985 Average	1.65	4.24	NA	NA	4.32	3.44	2.09
900 Average	1.45	3.32	5.38	.80	3.35	2.32	1.69
990 Average	1.32	2.59	3.99	.65	2.57	1.98	1.09
995 Average							
996 Average	1.29	3.03	4.87 4.49	.78	3.03	2.64	1.52 1.52
997 Average	1.27	2.79		.91	2.73	2.76	
998 Average	1.25	2.08	3.30	.71	2.02	2.38	1.44
999 Average	1.22	2.44	4.03	.65	2.36	2.57	1.44
000 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74
001 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73
002 Average ^g	1.25	3.73	5.34	.78	3.34	3.56	1.86
003 Average	1.28	4.66	6.82	.72	4.33	5.39	2.28
004 Average	1.36	4.73	8.02	.83	4.29	5.96	2.48
005 Average	1.54	7.06	11.72	1.11	6.44	8.21	3.25
006 Average	1.69	7.85	13.28	1.33	6.23	6.94	3.02
007 Average	1.77	8.64	14.85	1.51	7.17	7.11	3.23
008 Average	2.07	13.62	21.46	2.11	10.87	9.01	4.12
009 January	2.23	6.90	11.67	2.06	6.76	6.38	3.42
February	2.23	6.84	11.36	1.82	6.28	5.38	3.14
	2.29	7.02	10.75	1.63	5.83	4.73	2.98
March	2.29	7.90	11.54	1.20	5.82	4.48	2.85
April							
May	2.23	8.29	12.00	1.68	6.30	4.48	2.93
June	2.22	9.46	13.66	1.58	7.43	4.44	3.01
July	2.19	10.23	14.00	1.63	7.59	4.32	3.02
August	2.21	11.02	14.94	1.81	7.83	4.15	2.99
September	2.18	12.04	15.22	1.36	6.81	3.84	2.80
October	2.17	11.54	15.79	1.55	7.50	4.82	3.04
November	2.13	11.56	15.50	1.30	8.01	4.87	2.96
December	2.14	11.77	15.88	1.61	8.37	5.96	3.40
Average	2.21	8.98	13.22	1.61	7.02	4.74	3.04
010 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
	2.26	12.36	16.54	2.22	9.47	4.79	3.12
May	2.25	11.96	16.12	2.15	9.26	5.12	3.34
June							
July	2.27	12.28	15.89	2.42	9.63	5.18	3.51
August	2.30	12.28	16.24	2.65	9.18	4.92	3.39
September	2.28	12.34	16.53	2.67	9.35	4.45	3.10
October	2.27	13.53	17.14	2.43	9.13	4.30	2.94
November	2.26	14.06	17.43	2.22	10.86	4.35	2.94
December	2.23	14.61	18.56	2.57	11.29	5.43	3.32
Average	2.27	12.57	16.60	2.28	9.54	5.09	3.26
011 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	2.44	18.81	22.89	2.57	13.82	5.03	3.49
July	2.42	20.17	22.96	3.14	12.22	4.96	3.61
August	2.45		22.96	2.95	12.22	4.90	3.44
August		19.51					
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 11-Month Average	2.37 2.40	19.46 18.28	23.33 22.42	2.18 2.85	13.27 12.89	4.08 4.77	3.03 3.31
_							
010 11-Month Average	2.27	12.43	16.37	2.26	9.39	5.06	3.25
009 11-Month Average	2.21	8.77	12.96	1.61	6.90	4.64	3.01

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

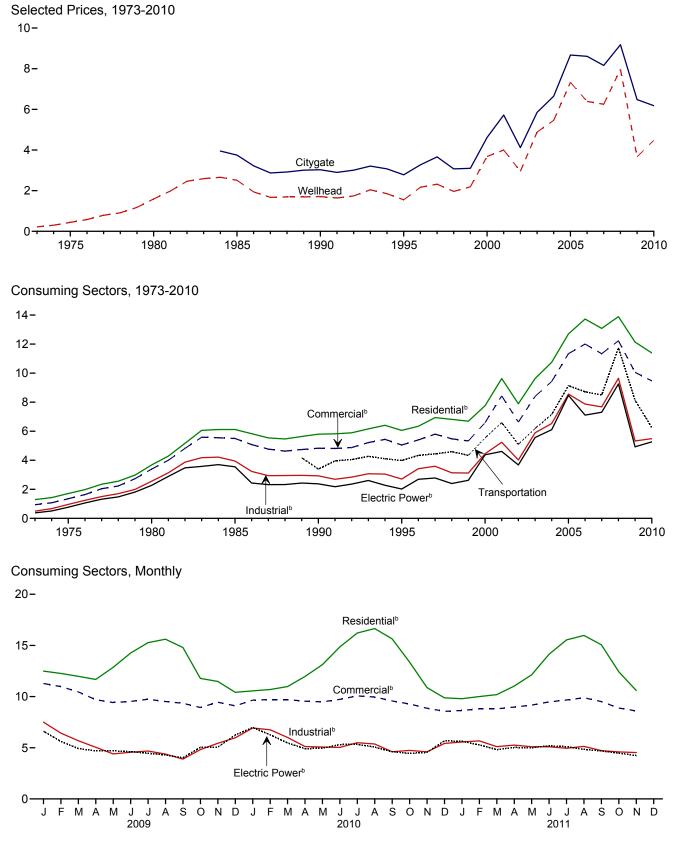
Small amounts of tuel oil no. 4).
 ^c For 1973–2001, electric utility data are for light oil (fuel oil nos. 1 and 2).
 ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil. For 1973–1982, data do not include refined motor oil, bunker oil, and liquefied petroleum gases. For 1973–1989, data do not include

 ^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 drived from fossil fuels.
 f Weighted average of costs shown under "Coal," "Petroleum," and "Natural

Gas." ⁹ Through 2001, data are for electric utilities only. Beginning in 2002, data also include independent power producers, and electric generating plants in the commercial and industrial sectors. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage. NA=Not available.

Notes: • Receipts are purchases of fuel. • Yearly costs are averages of monthly values, weighted by quantities in Btu. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.

Sources: See end of section.



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

Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.11.

Table 9.11 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)

						C	onsuming	Sectorsb			
		0.444	Res	idential	Com	mercial ^c	Ind	ustrial ^d	Transportation	Electr	ric Power ^e
	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 1975 Average 1985 Average 1985 Average 1995 Average 1995 Average 1996 Average 1997 Average 1998 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 Average	.44	NA NA 3.75 3.03 2.78 3.27 3.60 4.62 5.72 4.12 5.72 4.12 5.65 8.67 8.61 8.16 9.18	1.29 1.71 3.68 6.12 5.80 6.64 6.34 6.94 6.82 6.69 7.76 9.63 7.78 9.63 10.75 12.70 13.73 13.08 13.89	NA NA 99.0 99.0 98.8 97.7 95.2 92.6 92.4 97.9 97.5 97.7 98.1 98.1 98.1 98.0 97.5	0.94 1.35 3.39 5.50 5.40 5.40 5.48 5.33 6.59 8.43 8.43 8.43 9.43 11.34 12.00 11.34 12.23	NA NA NA 86.6 76.7 77.6 70.8 67.0 66.1 63.9 66.0 77.4 78.2 78.0 82.1 80.8 80.4 79.9	0.50 .96 3.95 2.93 2.71 3.42 3.59 3.14 4.45 5.24 4.02 5.89 6.58 8.56 7.68 9.65	NA NA NA 68.8 35.2 24.5 19.4 18.1 16.1 18.8 19.8 20.8 22.7 22.1 23.6 24.0 23.4 22.2 20.5	NA NA NA 3.39 3.98 4.34 4.44 4.59 4.34 5.54 6.60 5.10 6.19 7.16 9.14 8.72 8.50 11.75	0.38 .77 2.27 3.55 2.38 2.02 2.69 2.78 2.40 2.62 4.38 4.61 *3.68 5.57 6.11 8.47 7.11 7.31 9.26	92.1 96.1 96.9 94.0 76.8 71.4 68.4 68.0 63.7 58.3 50.5 40.2 83.9 91.2 83.9 91.2 89.8 91.3 93.4 92.2 101.1
2009 January February March April July August September October November December Average	3.70 3.38 3.18 3.23 3.38 3.45 3.37 2.98 3.83 4.20 4.66	7.97 7.26 6.85 5.71 5.49 5.55 5.70 5.61 5.37 5.65 6.34 6.22 6.48	12.49 12.26 11.98 12.86 14.26 15.27 15.61 14.80 11.78 11.48 10.42 12.14	97.6 97.7 97.2 96.8 96.9 96.9 96.6 96.8 97.2 97.6 97.6 97.4	11.28 10.98 10.46 9.70 9.53 9.74 9.52 9.35 8.93 9.45 9.10 10.06	82.4 81.1 80.8 77.7 74.4 73.3 70.5 68.5 69.3 73.3 75.8 80.1 77.8	7.50 6.43 5.69 5.05 4.40 4.56 4.68 4.38 3.89 4.82 5.44 5.97 5.33	20.1 19.9 19.4 18.6 19.0 18.7 18.6 18.3 18.0 17.9 17.8 18.9 18.8	NA NA NA NA NA NA NA NA NA 8.13	6.62 5.62 4.92 4.70 4.62 4.47 4.30 4.02 5.04 5.04 5.06 6.24 4.93	100.9 101.1 101.8 101.6 101.5 101.0 100.8 100.7 100.6 102.4 101.0 100.7 101.1
2010 January February April May July August September October November December Average	5.30 4.70 4.10 4.24 4.27 4.44 4.38 3.83 4.05 4.12	6.84 6.64 6.50 5.88 5.81 6.22 5.72 5.72 5.70 5.48 5.74 6.18	10.56 10.69 10.98 11.97 13.12 14.86 16.21 16.65 15.64 13.37 10.88 9.88 11.39	97.4 97.8 96.2 96.2 96.8 96.4 96.7 96.8 97.4 97.4 97.4	9.65 9.71 9.70 9.55 9.49 9.73 10.07 9.96 9.57 9.28 8.86 8.56 9.47	81.2 81.8 79.7 75.7 73.0 71.9 70.6 69.8 68.5 71.8 77.7 80.2 77.5	6.93 6.76 6.01 5.12 5.07 5.03 5.49 5.37 4.61 4.74 4.60 5.42 5.49	19.0 18.6 18.4 17.7 17.9 18.0 18.3 17.8 17.5 16.8 17.6 17.8 18.0	NA NA NA NA NA NA NA NA NA 6.25	6.98 6.27 5.47 4.96 5.31 5.34 5.06 4.61 4.45 5.68 5.27	101.0 100.5 100.9 100.9 100.6 100.6 100.5 100.7 101.3 101.0 101.3 100.8
2011 January February March April July August September October November 11-Month Average	E 4.23 E 3.90 E 3.98 E 4.12 E 4.19 E 4.27 E 4.20 E 3.82 E 3.62	5.68 5.75 5.68 5.61 5.78 6.08 6.12 6.19 5.93 ^R 5.43 5.24 5.24	9.79 10.00 10.19 11.03 12.13 14.14 15.54 15.98 15.06 R 12.42 10.59 10.98	96.1 96.8 95.5 95.8 95.9 95.9 95.9 95.2 95.1 95.2 94.7 95.7	8.64 8.81 8.97 9.17 9.48 9.67 9.51 ^R 8.88 8.60 8.93	68.4 67.7 64.9 61.7 58.5 56.5 54.8 52.8 52.8 52.0 52.7 61.1 62.0	5.56 5.67 5.11 5.26 5.10 5.09 4.95 5.13 4.72 4.59 4.53 5.08	16.3 16.1 15.6 16.2 15.6 16.5 15.8 15.7 15.6 15.9 16.0	NA NA NA NA NA NA NA NA NA NA	5.63 5.28 4.82 5.03 5.01 5.19 5.11 4.84 4.69 4.47 4.24 4.94	101.5 102.1 101.2 101.8 101.1 101.2 100.9 101.5 101.6 101.2 101.2
2010 11-Month Average 2009 11-Month Average	4.47 3.57	6.26 6.53	11.68 12.47	97.3 97.4	9.58 10.22	77.0 77.4	5.49 5.26	18.0 18.8	NA NA	5.23 4.82	100.8 101.2

^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.
 ^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 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.
 ^f Includes taxes.

Includes taxes. 9 The percentage of the sector's consumption in Table 4.3 for which price data are available. For details on how the percentages are derived, see Table 9.11 Sources at end of section.

 $^{\rm h}$ 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

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 steamelectric 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 and 2011: EIA, *Petroleum Marketing Monthly*, February 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 1.

2010 and 2011: EIA, *Petroleum Marketing Monthly*, February 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 and 2011: EIA, *Petroleum Marketing Monthly*, February 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 and 2011: EIA, *Petroleum Marketing Monthly*, February 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*, January 2012, Table 4.1; and Form EIA-923, "Power Plant Operations Report."

Table 9.11 Sources

All Prices Except Vehicle Fuel and Electric Power

1973–2005: U.S. Energy Information Administration (EIA), *Natural Gas Annual (NGA)*, annual reports and unpublished revisions.

2006 forward: EIA, *Natural Gas Monthly (NGM)*, January 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 and 2011: Estimated by EIA as the average of the three previous annual values.

Percentage of Commercial Sector

1987–2005: 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.

2006 forward: EIA, NGM, January 2012, Table 3.

Percentage of Industrial Sector

1982–2005: 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. 2006 forward: EIA, NGM, January 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).

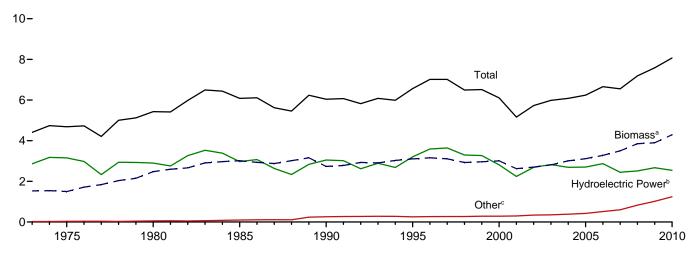
2002-2007: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," divided by the quantity of natural gas consumed by the electric power sector (see *Monthly Energy Review*, Table 7.4b).

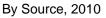
2008 forward: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form EIA-923, "Power Plant Operations Report," divided by the quantity of natural gas consumed by the electric power sector (see *Monthly Energy Review*, Table 7.4b).

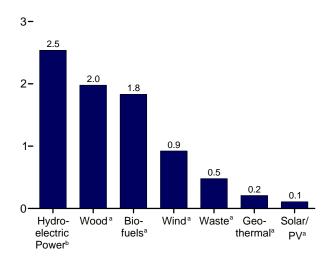
10. Renewable Energy

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

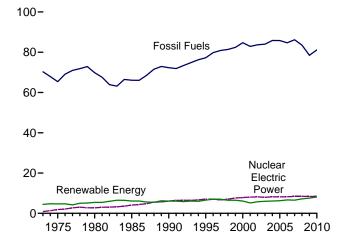
Total and Major Sources, 1973-2010



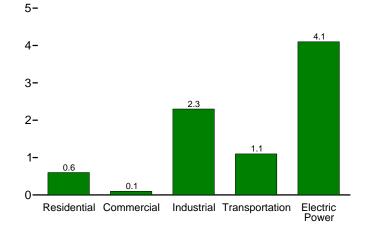




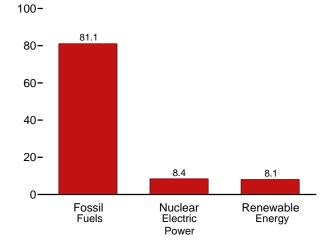
Compared With Other Resources, 1973-2010



By Sector, 2010



Compared With Other Resources, 2010



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

Sources: Tables 1.3 and 10.1-10.2c.

^a See Table 10.1 for definition.

^b Conventional hydroelectric power.

^c Geothermal, solar/PV, and wind.

Table 10.1 Renewable Energy Production and Consumption by Source

(Trillion Btu)

		Production	a					Consumpti	on			
	Bior	nass	Total						Bior	nass		Total
	Bio- fuels ^b	Total ^c	Renew- able Energy ^d	Hydro- electric Power ^e	Geo- thermal ^f	Solar/ PV ^g	Wind ^h	Wood ⁱ	Waste ^j	Bio- fuels ^k	Total	Renew- 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		NA	1,499	4,687
1980 Total 1985 Total	NA 93	2,475 3,016	5,428 6,084	2,900 2,970	53 97	NA (s) 59	NA (s)	2,474 2,687	2 236	NA 93	2,475 3,016	5,428 6,084
1990 Total	111	2,735	6,041	3,046	171	69	29	2,216	408	111	2,735	6,041
1995 Total	198	3,099	6,558	3,205	152		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	46	2,214	540	209	2,963	6,516
2000 Total	233	3,006	6,104	2,811	164	65	57	2,262	511	236	3,008	6,106
2001 Total	254	2,624	5,164	2,242	164	64	70	2,006	364	253	2,622	5,163
2002 Total	308 402	2,705 2,805	5,734 5,982	2,689	171 175	63 62	105 115	1,995 2,002	402 401	303 404	2,701 2,807	5,729 5,983
2003 Total	487	2,998	6,070	2,690	178	63	142	2,121	389	499	3,010	6,082
2005 Total	564	3,104	6,229	2,703	181	63	178	2,136	403	577	3,116	6,242
2006 Total	720	3,226	6,608	2,869	181	68	264	2,109	397	771	3,276	6,659
2007 Total	978	3,489	6,537	2,446	186	76	341	2,098	413	991	3,502	6,551
2008 Total	1,387	3,867	7,205	2,511	192	89	546	2,044	436	1,372	3,852	7,190
2009 January	120	315	627	229	17	8	58	158	37	115	310	622
February	111	291	545	174	16	7	57	146	34	102	283	537
March	120	316	624	213	17	8	69	155	40	118	314	621
April	116	300	649	252	16	8	73	147	37	120	304	653
May	126	315	690	289	17	9	61	152	37	131	319	694
June	127	318	683	285	16	8	55	154	37	129	320	685
July	139	340	643	228	17	9	48	163	39	139	340	643
August	141	345	615	191	17	9	53	166	38	141	346	615
September	136	329	568	169	16	8	45	157	36	134	327	567
October	144	343	627	192	16	8	67	161	38	145	344	627
November	149	345	642	205	17	8	67	158	39	144	340	637
December	154	357	692	241	18	8	67	164	39	148	352	686
Total	1,583	3,915	7,603	2,669	200	98	721	1,881	452	1,567	3,899	7,587
2010 January	152	359	670	218	18	8	67	167	40	142	349	661
February	142	332	609	201	16	8	53	154	36	136	326	603
March	158	366	680	204	18	9	84	167	41	149	357	671
	152	352	659	186	17	9	95	160	40	149	348	656
May	157	358	715	245	18	10	85	162	40	155	356	714
June	152	355	751	291	17	10	79	163	40	154	357	754
July	158	368	700	239	17	10	66	169	41	159	368	700
August	160	371	660	196	18	10	65	170	41	158	369	658
September	155	359	623	168	17	9	69	165	38	152	356	620
October	162	368 369	644 680	173	17 17	9 9	77 95	165 164	40 41	159	365	641 674
November December	163 167	382	723	191 226	18	9	88	173	42	157 162	362 377	718
Total	1,879	4,337	8,116	2,539	208	109	923	1,979	479	1,832	4,291	8,069
2011 January	169	381	748	255	19	9	84	172	40	154	365	733
February	151	341	711	241	18	8	103	154	37	144	335	704
March	170	374	815	310	19	9	103	164	40	159	364	805
April	162	357	814	309	18	10	121	157	38	153	348	805
May	168	367	833	323	19	10	114	158	40 40	163 164	361	827
June	165 170	371 381	821 790	315 308	18 18	10 10	106 72	166 169	42	160	370 371	820 780
August	174	382	739	257	19	11	72	167	41	172	380	737
September	165	368	673	210	18	10	67	163	40	159	362	666
October	^R 175 176	R 377 380	^R 704 736	195 209	19	10 9	104 121	161 162	41 41	^R 166 164	R 368 368	^R 696 724
November	176	380	736	209	18	1 05	121	162	41	164	368	724
11-Month Total	1,845	4,079	8,384	2,930	203		1,066	1,794	440	1,758	3,992	8,297
2010 11-Month Total	1,712	3,955	7,393	2,313	190	100	835	1,806	437	1,671	3,914	7,352
2009 11-Month Total	1,429	3,558	6,911	2,427	182	90	654	1,717	412	1,419	3,548	6,901

^a Production equals consumption for all renewable energy sources except ^a Production equals concernance
 ^b Total biomass inputs to the production of fuel ethanol and biodiesel.
 ^c Wood and wood-derived fuels, biomass waste, and total biomass inputs to the production of fuel ethanol and biodiesel.
 ^d Hydroelectric power, geothermal, solar thermal/photovoltaic, wind, and biomass

biomass. ^e Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6). ^f Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and geothermal heat pump and direct use energy. ^g Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and solar thermal direct use energy. ^h Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6). ⁱ Wood and wood-derived fuels.

^j Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
 ^k Fuel ethanol (minus denaturant) and biodiesel consumption, plus losses and co-products from the production of fuel ethanol and biodiesel. R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes:
 Most data for the residential, commercial, industrial, and transportation sectors are estimates. See notes and sources for Tables 10.2a and 10.2b.
 Stotes:
 Totals may not equal sum of components due to independent rounding.
 Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 1973. Sources: Tables 10.2a–10.4.

Table 10.2a Renewable Energy Consumption: Residential and Commercial Sectors (Trillion Btu)

		Reside	ntial Sector					C	ommercial	Sectora			
			Biomass							Bio	omass		
	Geo- thermal ^b	Solar/ PV ^c	Wood ^d	Total	Hydro- electric Power ^e	Geo- thermal ^b	Solar/ PV ^f	Wind ^g	Wood ^d	Wasteh	Fuel Ethanol ⁱ	Total	Total
1973 Total	NA	NA	354	354	NA	NA	NA	NA	7	NA	NA	7	7
1975 Total	NA	NA	425	425	NA	NA	NA	NA	8	NA	NA	8	8
1980 Total	NA	NA	850	850	NA	NA	NA	NA	21	NA	ŅĄ	21	21
1985 Total	NA	NA	1,010	1,010	NA	NA	NA	NA	24	NA	(s)	24	24
1990 Total 1995 Total	6 7	56 64	580 520	641 591	1	3 5	_	_	66 72	28 40	(s) (s)	94 113	98 118
1996 Total	7	65	520	612		5	_	_	76	40 53	(S) (S)	129	135
1997 Total	8	64	430	502	1	6	_	_	73	58	(s)	131	138
1998 Total	8	64	380	452	1	7	_	_	64	54	(=) (s)	118	127
1999 Total	9	63	390	461	1	7	-	-	67	54	(s)	121	129
2000 Total	9	60	420	489	1	8	-	-	71	47	(s)	119	128
2001 Total	9	59	370	438	1	8	-	-	67	25	(s)	92	101
2002 Total	10	57	380	448	(s)	9	-	-	69	26	(s)	95	104
2003 Total	13 14	57 57	400 410	470 481		11 12	-	Ξ	71 70	29 34	1	101 105	113 118
2004 Total 2005 Total	14	57 58	410 430	481	1	12	-	-	70	34 34	1	105	118
2005 Total	18	63	390	472		14	_	_	65	34	1	103	117
2007 Total	22	70	430	522	i	14	_	_	69	31	2	102	118
2008 Total	26	80	450	556	1	15	(s)	-	73	34	2	109	125
2009 January	3	8	37	47	(s)	1	(s)	(s)	6	3	(s)	9	11
February	3	7	37	47	(S) (S)	1	(S) (S)	(S) (S)	6	3	(S) (S)	8	10
March		8	37	47	(S)	1	(s)	(s)	6	3	(S)	9	11
April		7	35	45	(s)	1	(s)	(s)	6	3	(s)	9	11
May	3	8	37	47	(s)	1	(s)	(s)	6	3	(s)	10	11
June	3	7	35	45	(s)	1	(s)	(s)	6	3	(s)	9	11
July	3	8	37	47	(s)	1	(s)	(s)	6	3	(s)	10	11
August	3	8	37	47	(s)	1	(s)	(s)	6	3	(s)	10	11
September	3	7	35	45	(s)	1	(s)	(s)	6	3	(s)	9	10
October	3	8	37	47	(S)	1	(s)	(s)	6	3	(s)	9	11
November	3 3	7 8	35 37	45 47	(s) (s)	1	(s) (s)	(s) (s)	6 6	3 3	(s)	9 9	11 11
December Total	33	89	430	552	1	17	(s) (s)	(s) (s)	72	36	(s) 3	112	129
							.,	.,					
2010 January	3	8	36	47	(s)	2	(s)	(s)	6	3	(s)	9	11
February	3	7	32	42	(s)	1	(s)	(s)	5	3	(s)	8	10
March	3 3	8 8	36 35	47 45	(s) (s)	2 2	(s) (s)	(s) (s)	6 6	3 3	(s) (s)	9 9	11 11
April May	3	8	36	43	(S)	2	(s) (s)	(S) (S)	6	4	(S) (S)	10	12
June	3	8	35	45	(S)	2	(s)	(s)	6	3	(S)	9	11
July	3	8	36	47	(s)	2	(s)	(s)	6	3	(s)	9	11
August	3	8	36	47	(s)	2	(s)	(s)	6	3	(s)	9	11
September	3	8	35	45	(s)	2	(s)	(s)	6	3	(s)	9	11
October	3	8	36	47	(s)	2	(s)	(s)	6	3	(s)	9	11
November	3	8	35	45	(S)	2	(s)	(s)	6	3	(s)	9	10
December	3 37	8 97	36 420	47 554	(s) 1	2 19	(s)	(s)	6 70	3 36	(s) 3	9 109	11 129
Total	31	97	420	554	1	19	(s)	(s)	70	30	3	109	129
2011 January	3	8	36	47	(s)	2	(s)	(s)	6	3	(s)	9	11
February	3	7	32	42	(s)	1	(s)	(s)	5	3	(s)	9	10
March	3	8	36	47	(s)	2	(s)	(s)	6	3	(s)	9	11
April	3	8	35	45	(s)	2	(s)	(s)	6	3	(s)	9	10
May	3	8	36	47	(s)	2	(s)	(s)	6	3	(s)	9	11
June	3 3	8 8	35 36	45 47	(s) (s)	2 2	(s) (s)	(s) (s)	6 6	3 3	(s) (s)	9 9	11 11
July August	3	8	36 36	47	(S) (S)	2	(S) (S)	(S) (S)	6	3	(S) (S)	9	11
September	3	8	35	47	(S)	2	(s)	(S)	6	3	(s)	9	11
October	3	8	36	43	(S)	2	(s)	(S)	6	3	(s)	9	11
November	3 3	8	35	45	(s)	2	(s)	(s)	õ	3	(s)	9	11
11-Month Total	34	89	384	507	1	17	(s)	(s)	64	33	3	100	118
2010 11-Month Total	34	89	384	507	1	17	(s)	(s)	64	33	3	100	118
2009 11-Month Total	30	82	393	505	i	15	(s)	(s)	66	33	3	102	118

 ^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 electron. commercial, industrial, and electric power sectors. ^d 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. ${}^g\ {\rm Wind}\ {\rm electricity}\ {\rm net}\ {\rm generation}\ ({\rm converted}\ to\ {\rm Btu}\ {\rm using}\ {\rm the}\ {\rm fossil-fuels}\ {\rm heat}$

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). ⁱ The fuel ethanol (minus denaturant) portion of motor fuels, such as E10, consumed by the commercial sector.

NA=Not available. – =No data reported. (s)=Less than 0.5 trillion Btu. Notes: • 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

Ustrict 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 10.2b Renewable Energy Consumption: Industrial and Transportation Sectors (Trillion Btu)

					Trans	portation S	sector						
							Biomass					Biomass	
	Hydro- electric Power ^b	Geo- thermal ^c	Solar/ PV ^d	Wind ^e	Wood ^f	Wasteg	Fuel Ethanol ^h	Losses and Co- products ⁱ	Total	Total	Fuel Ethanol ^j	Bio- diesel	Total
1973 Total 1975 Total 1985 Total 1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 1998 Total 1998 Total 1998 Total 2000 Total 2001 Total	35 32 33 33 31 55 61 58 55 49 42 33	NA NA NA 2 3 3 3 4 4 5	NA NA NA - - - - -	NA NA NA - - - - -	1,165 1,663 1,600 1,645 1,442 1,652 1,683 1,731 1,603 1,620 1,636 1,443	NA NA 230 192 195 224 184 180 171 145 129	NA NA 1 1 1 1 1 1 3	NA NA 42 49 86 61 80 86 90 99 108	1,165 1,063 1,600 1,918 1,684 1,934 1,936 1,996 1,872 1,882 1,881 1,681	1,200 1,096 1,633 1,951 1,717 1,992 2,033 2,057 1,929 1,934 1,928 1,719	NA NA 50 60 112 81 102 113 118 135 141	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NA NA 50 60 112 81 102 113 118 135 142
2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2008 Total	39 43 33 32 29 16 17	5 3 4 4 5 5	- - - - -		1,396 1,363 1,476 1,452 1,472 1,413 1,344	146 142 132 148 130 144 144	3 4 6 7 10 10 12	130 169 203 230 285 377 532	1,676 1,679 1,817 1,837 1,897 1,944 2,031	1,720 1,726 1,853 1,873 1,930 1,964 2,053	168 228 286 327 442 557 786	2 2 3 12 33 46 40	170 230 290 339 475 602 826
2009 January February April June July August September October November December Total	2 1 2 2 2 2 1 1 1 1 2 1 8	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)			98 93 98 97 104 107 101 104 104 104 1,198	14 12 14 12 12 12 12 12 12 14 14 14 154	1 1 1 1 1 1 1 1 1 1 3	46 43 48 50 50 54 55 53 56 57 60 617	159 149 160 153 160 172 175 167 175 174 179 1,982	161 151 162 162 162 173 177 168 177 175 181 2,005	67 58 67 70 77 80 81 75 82 81 81 82 894	(s) 3 3 2 3 3 4 6 6 4 5 40	67 58 70 73 79 78 83 85 80 88 88 85 87 934
2010 January February March April June July August September October December Total	2 2 2 2 2 1 1 1 1 1 1 1 1 6	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)		108 100 109 104 106 106 110 111 109 109 108 114 1,293	16 14 15 15 14 15 14 15 16 16 179	1 1 1 1 1 1 1 1 1 1 1 5	60 56 62 60 62 63 61 64 65 67 742	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 2,251	81 76 83 84 91 91 86 91 86 91 88 92 1,043	(s) 3 2 4 3 2 3 2 3 2 2 2 29	81 79 86 88 92 93 95 93 89 94 90 94 1,072
2011 January February March April July August September October November 11-Month Total	1 2 2 2 2 1 1 1 1 1 16	(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)	114 101 108 105 104 111 111 109 108 106 109 1,186	15 14 15 14 15 15 15 15 15 162	1 1 1 1 1 1 1 1 1 1 1 1 1	66 59 65 62 64 63 64 65 65 65 66 702	197 175 189 182 184 189 191 190 186 188 191 2,064	198 177 192 184 187 191 193 192 188 190 193 2,084	83 81 87 90 92 85 96 83 89 85 954	3 5 7 6 7 9 9 12 8 5 85	86 84 92 90 96 100 95 105 95 ^R 99 97 1,039
2010 11-Month Total 2009 11-Month Total	15 17	4 4	(s) _	Ξ	1,180 1,094	164 141	14 12	675 557	2,033 1,804	2,051 1,824	951 812	27 35	978 847

^a Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. ^b Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

^C Geothermal heat pump and direct use energy.
 ^d Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at industrial plants with capacity of 1

rossin-rules near rate—see rable A6) at industrial plants with capacity of n megawattor 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 the biomast an tire-derived fuels). ^h The fuel ethanol (minus denaturant) portion of motor fuels, such as E10,

consumed by the industrial sector.

consumed by the industrial sector. 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 Btu.

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

(Trillion Btu)

	Hydro- electric	Geo-				Biomass		_
	Powera	thermalb	Solar/PV ^c	Wind ^d	Wood ^e	Waste ^f	Total	Total
973 Total	2.827	20	NA	NA	1	2	3	2.851
975 Total	3,122	34	NA	NA	(s)	2	ž	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
90 Total ^g	3.014	161	4	29	129	188	317	3,524
995 Total	3,149	138	5	33	125	296	422	3,747
	3,149	148	5	33	138	300	422	4.153
96 Total			5					
97 Total	3,581	150	5 5	34	137	309	446	4,216
998 Total	3,241	151		31	137	308	444	3,872
99 Total	3,218	152	5	46	138	315	453	3,874
000 Total	2,768	144	5	57	134	318	453	3,427
01 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
05 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
			9	546		258	423	
008 Total	2,494	146	э	540	177		430	3,630
09 January	228	13	(s)	58	17	21	37	336
February	172	11	(s)	57	15	19	34	276
March	211	13	(3)	69	14	24	38	332
April	250	12	1	73	12	21	33	369
	287	12	1	61	13	22	34	395
May	284	12	1	55	15	22	37	388
June						22		
July	227	12	1	48	16		39	328
August	190	12	1	53	17	23	39	296
September	168	12	1	45	14	21	36	262
October	191	12	1	67	14	21	35	305
November	204	12	(s)	67	15	22	37	320
December	240	13	(s)	67	17	22	40	360
Total	2,650	146	9	721	180	261	441	3,967
010 January	217	13	(s)	67	17	21	39	335
February	199	11	(s)	53	16	20	36	300
March	202	13	1	84	16	22	39	338
April	184	12	1	95	15	21	36	329
	243	13	1	85	14	22	36	378
May								
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
11 January	254	14	(s)	84	16	21	38	391
February	239	13	(3)	103	15	20	35	390
	308	13	1	103	15	20	38	463
March			2			23	30 33	
April	307	13		121	12			476
May	321	14	2	113	13	22	35	486
June	313	13	2	106	15	23	38	473
July	307	13	2	72	16	24	40	434
August	256	13	2	72	16	23	39	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
11-Month Total	2,913	149	17	1,066	159	23 245	405	4,549
010 11-Month Total	2.297	136	11	835	178	241	419	3,697
09 11-Month Total	2,297	130	8	654	163	239	419	3,697

^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).

Wind electricity her generation (converted to bit using the lossification rate—see Table A6).
 ^e Wood and wood-derived fuels.
 ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels).

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

⁹ 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.

		Losses					Traded	-					Consump- tion
	Feed- stock ^a	and Co- products ^b	Dena- turant ^c	Pi	roductiond		Net Imports ^e	Stocks ^{d,f}	Stock Change ^{d,g}	Coi	nsumption	d	Minus Denaturant
	TBtu	TBtu	Mbbl	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu	TBtu
981 Total	13	6	40	1.978	83	7	NA	NA	NA	1.978	83	7	7
985 Total	93	42	294	14,693	617	52	NA	NA	NA	14,693	617	52	51
990 Total	111	49	356	17,802	748	63	NA	NA	NA	17,802	748	63	62
995 Total	198	86	647	32,325	1,358	115	387	2,186	-207	32,919	1,383	117	114
996 Total	141	61 80	464	23,178	973	83 109	313	2,065	-121	23,612 29,899	992	84	82 104
997 Total	186 202	80 86	613 669	30,674 33.453	1,288 1,405	109	85 66	2,925 3.406	860 481	29,899	1,256 1,388	107 118	104
998 Total 999 Total	202	90	698	34,881	1,405	124	87	4,024	618	34,350	1,300	122	119
000 Total	233	99	773	38,627	1,403	138	116	3,400	-624	39,367	1,653	140	137
001 Total	253	108	841	42,028	1,765	150	315	4,298	898	41,445	1,741	148	144
002 Total	307	130	1,019	50,956	2,140	182	306	6,200	1,902	49,360	2,073	176	171
003 Total	400	169	1,335	66,772	2,804	238	292	5,978	-222	67,286	2,826	240	233
004 Total	484	203	1,621	81,058	3,404	289	3,542	6,002	24	84,576	3,552	301	293
005 Total	552	230	1,859	92,961	3,904	331	3,234	5,563	-439	96,634	4,059	344	335
006 Total	688	285	2,326	116,294	4,884	414	17,408	8,760	3,197	130,505	5,481	465	453
007 Total	914	376	3,105	155,263	6,521	553	10,457	10,535	1,775	163,945	6,886	584	569
008 Total	1,300	531	4,433	221,637	9,309	790	12,610	14,226	3,691	230,556	9,683	821	800
009 January	114	46	403	19,561	822	70	388	14,514	288	19,661	826	70	68
February	106	43	409	18,255	767	65	56	15,834	1,320	16,991	714	61	59
March	117	48 46	452	20,121	845 814	72	79	16,411	577	19,623	824	70	68
April	113 123	46 50	427 459	19,374 21,024	814	69 75	166 507	15,322 14,173	-1,089 -1,149	20,629 22,680	866 953	74 81	71 79
May June	123	50 50	459	21,024	887	75	705	13,974	-1,149	22,080	933	78	76
July	123	50 54	503	22.887	961	82	960	14.223	249	23,598	923	84	82
August	135	55	494	23,136	972	82	983	14.671	448	23,671	994	84	82
September	129	53	479	22,218	933	79	310	15,283	612	21,916	920	78	76
October	137	55	515	23,467	986	84	269	14,933	-350	24,086	1,012	86	83
November	141	57	523	24,122	1,013	86	285	15,578	645	23,762	998	85	82
December	146	59	569	25,134	1,056	90	12	16,594	1,016	24,130	1,013	86	83
Total	1,517	616	5,688	260,424	10,938	928	4,720	16,594	2,368	262,776	11,037	936	910
010 January	149	60	541	25,625	1,076	91	-234	18,251	1,657	23,734	997	85	82
February	138	56	496	23,802	1,000	85	-482	19,297	1,046	22,274	936	79	77
March	154	62	537	26,486	1,112	94	-1,104	20,222	925	24,457	1,027	87	85
April	147	59	522	25,384	1,066	90	-927	20,042	-180	24,637	1,035	88	85
May	152	61	534	26,244	1,102	93	-368	19,851	-191	26,067	1,095	93	90
June	149	60	522	25,632	1,077	91	-341	18,565	-1,286	26,577	1,116	95	92
July	154 157	62 63	543 538	26,584	1,117 1,132	95 96	-578 -695	17,809	-756	26,762	1,124 1,121	95 95	93 93
August September	157	63 61	538	26,964 26,221	1,132	96 93	-695	17,380 17,437	-429 57	26,698 25,240	1,121	95 90	88
October	160	64	563	20,221	1,154	93	-924	17,437	-159	26,800	1,126	90 95	93
November	161	65	585	27,747	1,165	99	-923	18,150	872	25,952	1,090	92	90
December	165	67	592	28,457	1,195	101	-1,711	17,941	-209	26,955	1,132	96	93
Total	1,839	741	6,506	316,617	13,298	1,127	-9,115	17,941	1,347	306,155	12,858	1,090	1,061
011 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	62	507	26,591	1,117	95	-2,865	20,807	-633	24,359	1,023	87	85
May	161	64	545	27,756	1,166	99	-1,743	20,387	-420	26,433	1,110	94	92
June	157	63	535	27,064	1,137	96	-1,533	18,833	-1,554	27,085	1,138	96	94
July	160	64	555	27,624	1,160	98	-2,731	18,700	-133	25,026	1,051	89	87
August	163	65 62	575	28,110	1,181	100	-790	17,900	-800	28,120 24,288	1,181	100	97 84
September	154 163	62 65	525 557	26,645	1,119 1,180	95 100	-1,820 -2,388	18,437 18,072	537 -365	24,288 26,069	1,020 1,095	86 93	84
October November	163	66	557 573	28,092 28,335	1,180	100	-2,388	18,072	-365 271	26,069 24,806	1,095	93 88	90
11-Month Total	1,749	701	6,036	20,335 302,335	12,698	1,077	-3,256 -21,915	18,343	403	24,808 280,017	11,042 11,761	997	971
010 11-Month Total	1,674	675	5,914	288,160	12,103	1,026	-7,405	18,150	1,556	279,199	11,726	994	968
09 11-Month Total	1.371	557	5,914	235,290	9,882	838	4,708	15,578	1,350	238,646	10,023	850	826

Table 10.3 Fuel Ethanol Overview

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

^a Total corn and other biomass inputs to the production of undenatured ethanol used for fuel ethanol.
 ^b Losses and co-products from the production of fuel ethanol. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol—these are included in the industrial sector consumption statistics for the appropriate energy source.
 ^c The amount of denaturant in fuel ethanol produced.
 ^d Includes denaturant.
 ^e They they dotta are for fuel ethanol imports only, data for fuel ethanol.

 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.

^g A negative value indicates a decrease in stocks and a positive value indicates an increase. ^h Consumption of fuel ethanol minus denaturant. Data for fuel ethanol minus

denaturant are used to develop data for "Renewable Energy/Biomass" in Tables 10.1–10.2b, as well as in Sections 1 and 2. ^I Derived from the preliminary December 2010 stocks value (17,940 thousand

barrels), not the final December 2010 value (17,941 thousand barrels) that is shown under "Stocks." 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," "Ethanol," "Fuel Ethanol," and "Fuel Ethanol Minus Denaturant" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Columbia

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 1981 Sources: See end of section.

							Trade							
	Feed- stock ^a	Losses and Co- products ^b	Р	roduction		Imports	Exports	Net Imports ^c	Stocksd	Stock Change ^e	Bal- ancing Item ^f	Co	nsumptio	n
	TBtu	TBtu	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu
2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total	1 2 4 12 32 63 88	(s) (s) (s) (s) (s) 1 1	204 250 338 666 2,162 5,963 11,662 16,145	9 10 14 28 91 250 490 678	1 2 4 12 32 62 87	78 191 94 207 1,069 3,342 7,502	39 56 110 124 206 828 6,477 16,128	39 135 -16 -26 1 242 -3,135 -8,626	NA NA NA NA NA NA	NA NA NA NA NA NA	NA NA NA NA NA NA	243 385 322 640 2,163 6,204 8,528 7,519	10 16 14 27 91 261 358 316	1 2 3 12 33 46 40
2009 January February March April May June July August September October November December Total	543344666788 65	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	1,011 780 599 624 689 761 1,030 1,070 1,158 1,364 1,511 1,455 12,054	42 33 25 26 29 32 43 45 49 57 63 61 506	5 4 3 4 4 6 6 6 7 8 8 6 5	261 158 383 52 117 138 58 126 123 159 105 165 1,844	1,150 1,166 203 154 417 366 581 397 224 424 819 431 6,332	-889 -1,009 180 -102 -300 -228 -523 -271 -101 -265 -714 -265 -4,489	664 424 665 632 600 581 511 511 527 553 531 711 711	664 -240 241 -33 -32 -19 -70 0 16 26 -22 180 711	621 61 0 0 0 0 0 0 0 0 0 682	79 73 538 554 421 552 576 799 1,041 1,074 819 1,010 7,537	3 23 23 18 23 24 34 44 45 34 45 34 42 317	(s) (s) 3 3 2 3 3 4 6 4 5 40
2010 January February March April May June July August September October November December Total	3 4 5 4 3 4 3 3 3 2 2 40	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	623 653 806 854 753 606 673 543 564 497 385 409 7,366	26 27 34 32 25 28 23 24 21 16 17 309	3 4 5 4 3 3 3 3 2 2 39	41 31 60 45 80 54 32 52 69 18 30 34 546	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 -138 -59 -89 -32 26 -4 -39	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	30 556 414 720 575 404 644 429 590 415 332 338 5,447	1 23 17 30 24 17 27 18 25 17 14 14 229	(s) 3 4 3 2 3 2 3 2 2 2 2 2 2 9
2011 January February March April June July August September October November 11-Month Total	4 7 8 10 E 12 E 11 RE 13 E 12 E 96	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	740 718 1,220 1,442 1,424 1,562 1,866 F 2,119 F 1,969 F 1,969 F 2,300 E 17,669	31 30 51 60 66 78 F 89 F 83 RF 97 F 97 E 742	4 4 7 8 8 10 F 11 F 11 RF 12 F 12 E 95	49 37 53 52 48 48 62 65 65 65 65 65 66 66 628	217 88 197 222 192 117 142 71 193 132 131 1,701	-169 -51 -144 -169 -80 -7 -127 -127 -49 -65 -1,074	738 869 984 1,012 1,216 1,267 1,663 1,201 1,481 1,436 1,436	⁹ 76 131 115 28 90 114 51 396 -462 280 -45 774	0 0 0 0 0 0 0 0 0 0 0 0	496 536 961 1,245 1,190 1,379 1,736 E 1,716 E 2,304 RE 1,978 E 2,280 E 15,821	21 23 40 52 50 58 73 E 72 E 97 RE 83 E 96 E 664	3 3 5 7 6 7 9 E 9 E 12 RE 11 E 12 E 85
2010 11-Month Total 2009 11-Month Total	38 58	1 1	6,956 10,599	292 445	37 57	512 1,678	2,394 5,901	-1,883 -4,223	676 531	-35 531	0 682	5,108 6,527	215 274	27 35

Table 10.4 **Biodiesel Overview**

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.

е A negative value indicates a decrease in stocks and a positive value indicates an increase.

¹ Beginning in 2009, because of incomplete data coverage and different data sources, "Balancing Item" is used to balance biodiesel supply and disposition. ⁹ Derived from the preliminary December 2010 stocks value (662 thousand barrels), not the final December 2010 value (672 thousand barrels) that is shown under "Stocks."

R=Revised. E=Estimate. F=Forecast. NA=Not available. (s)=Less than 0.5

R=Revised. E=Estimate. F=F0recast. NA=rvot available. (5)=Less train v.o. trillion Btu. Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Biodiesel data in thousand barrels are converted to million gallons by multiplying by 0.42, 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. • Data values preceded by "F" are derived from EIA's Short-Term Integrated Forecasting System. • Totals may not equal sum of components due to independent rounding. • Geographic 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.

Beginning with August 2011, biodiesel production data are not available from the Bureau of the Census; in their place, forecast data from EIA's Short-Term Integrated Forecasting System will be used until survey data from EIA's Monthly Biodiesel Production Report are available.

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

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. (The annual estimate for the current year is set equal to that of the previous year.)

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-heatand-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: 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)*, 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: 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 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, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

2011: 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: 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, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

2011: 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-toproduction 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).

January 2008–December 2009: 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.

January 2010–July 2011: 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).

August 2011 forward: EIA, Short-Term Integrated Forecasting System.

Trade

U.S. Department of Agriculture, imports data for Harmonized Tariff Schedule codes 3824.90.40.20, "Fatty Esters Animal/Vegetable/Mixture" (for data through June 2010), and 3824.90.40.30, "Biodiesel/Mixes" (for data beginning in July 2010); and exports data for Schedule B code 3824.90.40.00, "Fatty Substances Animal/Vegetable/Mixture" (for data through December 2010), and 3824.90.40.30, "Biodiesel <70%" (for data beginning in January 2011). 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)*, Table 1, data for renewable fuels except fuel ethanol.

2011: EIA, *Petroleum Supply Monthly*, 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.

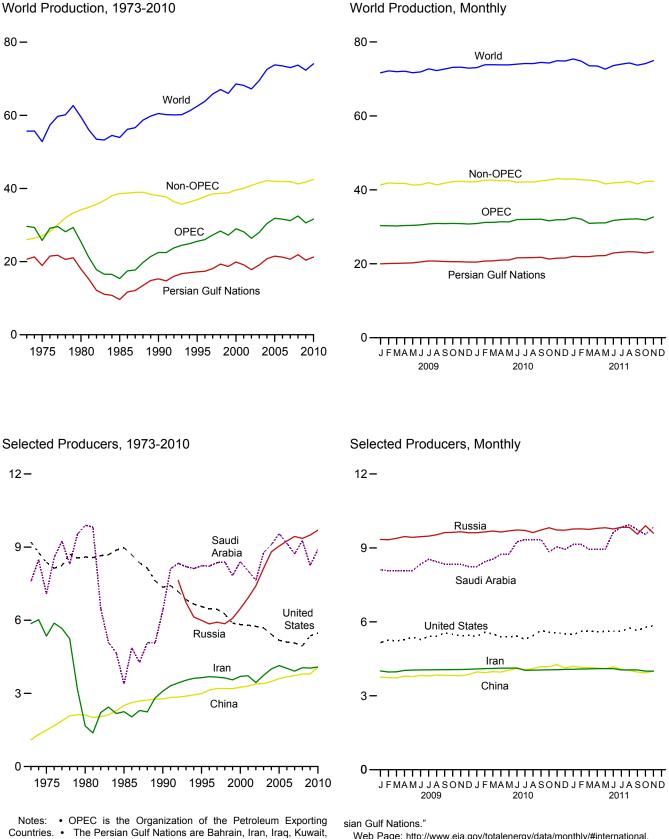
January and February 2009: EIA, PSA, Table 1, data for refinery and blender net inputs of renewable fuels except fuel ethanol.

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

11. International Petroleum

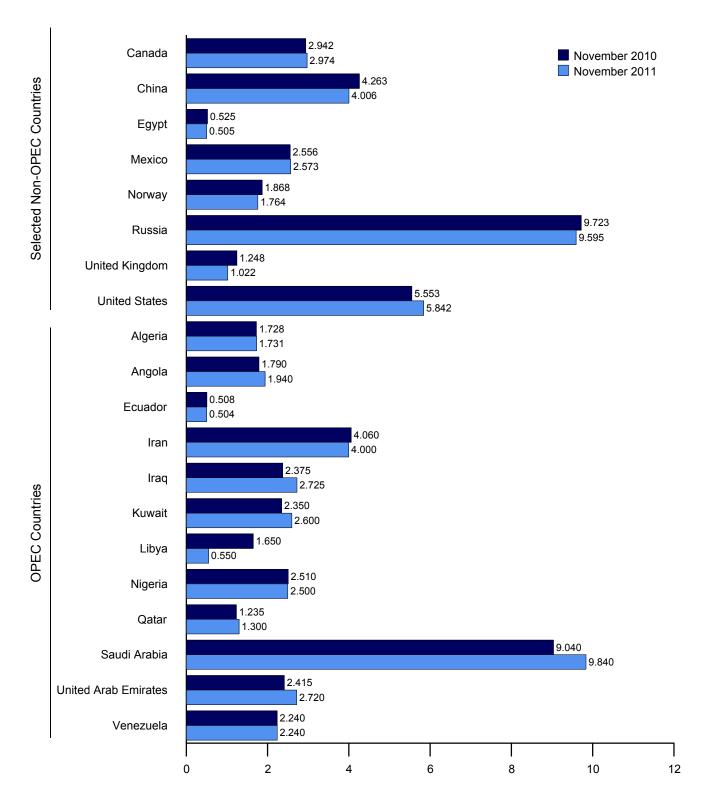
Figure 11.1a World Crude Oil Production Overview

(Million Barrels per Day)



Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Per-

Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Sources: Tables 11.1a and 11.1b.



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	2,010	2,084	1,480	1,783	438	7,075	1,555	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	1,037	231	281	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	15,368
1990 Average	1,175	475	285	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	22,493
1995 Average	1,202	646	392	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	25,540
1996 Average	1,242	709	396	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,018
1997 Average	1,277	714	388	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,292
1998 Average	1,246	735	375	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,366
1999 Average	1,202	745	373	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,224
2000 Average	1,254	746	395	3,696	2,571	2,079	1,410	2,165	737	8,404	2,368	3,155	28,980
2001 Average	1,310	742	412	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,159
2002 Average	1,306	896	393	3,444	2,023	1,894	1,319	2,118	679	7,634	2,082	2,604	26,392
2003 Average	1,611	903	411	3,743	1,308	2,136	1,421	2,275	715	8,775	2,348	2,335	27,980
2004 Average	1,677	1,052	528	4,001	2,011	2,376	1,515	2,329	783	9,101	2,478	2,557	30,408
2005 Average	1,797	1,250	532	4,139	1,878	2,529	1,633	2,627	835	9,550	2,535	2,565	31,871
2006 Average	1,814 1.834	1,413 1,744	536 511	4,028 3.912	1,996 2,086	2,535 2.464	1,681 1,702	2,440 2.350	850 851	9,152 8.722	2,636 2.603	2,511 2.433	31,591 31,210
2007 Average	1,834	1,744	505	3,912	2,086 2,375	2,464 2,586	1,702	2,350 2,165	851 924	8,722 9,261	2,603	2,433 2,394	31,210 32,483
2000 Average	1,025	1,501	505	4,030	2,375	2,500	1,750	2,105	524	3,201	2,001	2,334	52,405
2009 January	1,758	1,915	504	4,007	2,212	2,350	1,650	2,192	860	8,113	2,411	2,340	30,312
February	1,757	1,840	498	3,963	2,313	2,350	1,650	2,162	935	8,068	2,412	2,340	30,288
March	1,757	1,840	497	3,970	2,365	2,350	1,650	2,060	910	8,072	2,412	2,340	30,223
April	1,757	1,840	495	4,030	2,366	2,350	1,650	2,217	910	8,077	2,412	2,240	30,344
May	1,757	1,840	486	4,044	2,418	2,350	1,650	2,212	910	8,081	2,412	2,240	30,399
June	1,756	1,840	491	4,050	2,419	2,350	1,650	2,059	910	8,335	2,412	2,240	30,514
July	1,726	1,890	483	4,053	2,470	2,350	1,650	2,051	910	8,540	2,413	2,240	30,777
August	1,726	1,950	477	4,056	2,472	2,350	1,650	2,193	945	8,440	2,413	2,240	30,912
September	1,726	1,950	475	4,060	2,473	2,350	1,650	2,240	945	8,340	2,413	2,240	30,862
October November	1,726 1,726	1,990 1,990	475 477	4,063 4,067	2,425 2,375	2,350 2,350	1,650 1,650	2,290 2,370	951 962	8,340 8,340	2,413 2,413	2,240 2,140	30,913 30,860
December	1,726	1,990	470	4,007	2,375	2,350	1,650	2,370	974	8.240	2,413	2,140	30,300
Average	1,741	1,907	486	4,037	2,391	2,350	1,650	2,208	927	8,250	2,413	2,239	30,599
2010 January	1,730	2,040	464	4,088	2,475	2,250	1,650	2,480	969	8,240	2,414	2,090	30,889
February	1,729	2,060	470	4,100	2,475	2,250	1,650	2,420	1,036	8,440	2,414	2,140	31,184
March	1,729	2,070	478	4,112	2,375	2,250	1,650	2,430	1,055	8,540	2,414	2,090	31,193
April	1,729	2,070	480	4,120	2,375	2,250	1,650	2,360	1,072	8,740	2,414	2,110	31,371
May	1,729	2,030	478	4,120	2,375	2,250	1,650	2,310	1,091	8,740	2,415	2,140	31,327
June	1,728	1,980	491	4,127	2,425	2,250	1,650	2,410	1,113	9,240	2,415	2,140	31,968
July	1,728	1,970	492	4,033	2,325	2,350	1,650	2,410	1,136	9,340	2,415	2,140	31,989
August	1,728	1,890	485	4,040	2,325	2,350	1,650	2,510	1,164	9,340	2,415	2,140	32,037
September	1,728	1,790	490	4,047	2,375	2,350	1,650	2,550	1,193	9,340	2,415	2,140	32,068
October	1,728	1,790	497	4,053	2,375	2,350	1,650	2,580	1,216	8,840	2,415	2,140	31,634
November	1,728	1,790	508	4,060	2,375	2,350	1,650	2,510	1,235	9,040	2,415	2,240	31,901
December Average	1,728 1,729	1,790 1,939	499 486	4,068 4,080	2,525 2,399	2,350 2,300	1,650 1,650	2,490 2,455	1,235 1,127	8,940 8,900	2,415 2,415	2,240 2,146	31,930 31,626
-			500	4.076								2.240	
2011 January	1,728 1,731	1,790	500 509	4,076 4,084	2,625 2,525	2,350 2,350	1,650 1,340	2,580	1,280 1,280	9,140 9,140	2,520 2,520	2,240 2,240	32,479 32,079
February March	1,731	1,790 1,790	509 501	4,084 4,092	2,525 2,525	2,350 2,450	300	2,570 2,450	1,280	9,140 8,940	2,520 2,620	2,240 2,240	32,079 30,929
April	1,731	1,790	501 504	4,092	2,525	2,450	200	2,450	1,290	8,940 8.940	2,620	2,240	30,929 31.050
Арпі Мау	1,731	1,740	497	4,100	2,525	2,550	200	2,500	1,300	8,940	2,720	2,240	31,050
June	1,731	1,690	497	4,100	2,575	2,550	100	2,570	1,300	9,640	2,720	2,240	31,711
July	1,731	1,030	492	4.050	2,625	2,550	100	2,570	1,300	9.840	2,720	2,240	31,958
August	1,731	1,790	495	4,050	2,625	2,600	0	2,600	1,300	9,940	2,720	2,240	32,091
September	1,731	1,840	496	4,050	2,725	2,600	100	2,600	1,300	9,740	2,720	2,240	32,142
October	1,731	1,790	502	4,000	2,725	2,600	300	2,400	1,300	9,540	2,720	2,240	31,848
November	1,731	1,940	504	4,000	2,725	2,600	550	2,500	1,300	9,840	2,720	2,240	32,650
11-Month Average	1,731	1,776	499	4,064	2,616	2,524	434	2,537	1,296	9,423	2,675	2,240	31,815
2010 11-Month Average	1,729	1,952	485	4,082	2,388	2,296	1,650	2,452	1,117	8,896	2,415	2,137	31,597
2009 11-Month Average	1,743	1,899	487	4,033	2,392	2,350	1,650	2,186	922	8,251	2,412	2,258	30,584

^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 November 2011, 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.

barrels per day from the Abu Safah field produced on behalf of Bahrain. ^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC" 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.

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.

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

	Develop						C ^a Produce	-			Tetal	
	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	18,934	1,430	1,490	235	705	189	9,523	NA	12	8,375	27,039	52,828
1980 Average	17,961	1,435	2,114	595	1,936	486	11,706	NA	1,622	8,597	34,175	59,558
1985 Average 1990 Average	9,630 15,278	1,471 1,553	2,505 2,774	887 873	2,745 2,553	773 1,630	11,585 10,975	NA NA	2,530 1,820	8,971 7,355	38,598 37,999	53,966 60,492
1995 Average	17,208	1,555	2,774	920	2,555	2,766		5,995	2,489	6,560	36,939	62,479
1996 Average	17,367	1,837	3,131	922	2,944	3,091		5,850	2,568	6,465	37,822	63,841
1997 Average	18,095	1,922	3,200	856	3,104	3,142		5,920	2,518	6,452	38,533	65,825
1998 Average	19,337	1,981	3,198	834	3,160	3,011		5,854	2,616	6,252	38,688	67,055
1999 Average	18,667	1,907	3,195	852	2,998	3,019		6,079	2,684	5,881	38,791	66,015
2000 Average	19,892	1,977	3,249	768	3,104	3,222		6,479	2,275	5,822	39,605	68,584
2001 Average	19,098	2,029 2.171	3,300	720 715	3,218 3,263	3,226		6,917	2,282 2.292	5,801 5,746	40,027 40.850	68,186
2002 Average	17,794 19,063	2,171	3,390 3,409	715	3,263 3,459	3,131 3,042		7,408 8,132	2,292	5,746	40,850	67,242 69,519
2004 Average	20,787	2,398	3,485	673	3,476	2,954		8,805	1,845	5,419	42,156	72,565
2005 Average	21,501	2,369	3,609	658	3,423	2,698		9,043	1,649	5,178	41,932	73,803
2006 Average	21,232	2,525	3,673	633	3,345	2,491		9,247	1,490	5,102	41,928	73,519
2007 Average	20,672	2,628	3,729	637	3,143	2,270		9,437	1,498	5,064	41,851	73,061
2008 Average	21,913	2,579	3,790	581	2,839	2,182		9,357	1,391	4,950	41,250	73,733
2009 January	19,989	2,592	3,755	553	2,729	2,195		9,343	1,425	5,154	41,335	71,648
February	20,076	2,684	3,733	550	2,707	2,260		9,331	1,449	5,260	41,880	72,168
March	20,114	2,579	3,726	547	2,697	2,238		9,388	1,451	5,227	41,738	71,961
April	20,179	2,459	3,795	547	2,688	2,072		9,459	1,468	5,273	41,744	72,088
May	20,249 20,511	2,436 2,559	3,775 3,824	544 541	2,655 2,563	1,890 1,850		9,429 9,457	1,390 1,359	5,379 5,281	41,285 41,379	71,684 71,892
June July	20,311	2,559	3,824	538	2,505	2,147		9,457	1,342	5,201	41,949	71,892
August	20,711	2,575	3,844	535	2,587	1,970		9,532	993	5,418	41,348	72,260
September	20,616	2,528	3,826	532	2,643	1,923		9,623	1,119	5,547	41,814	72,676
October	20,577	2,594	3,828	529	2,645	2,077		9,629	1,266	5,501	42,213	73,126
November	20,542	2,725	3,813	526	2,597	2,123		9,654	1,372	5,427	42,317	73,177
December Average	20,464 20,402	2,564 2,579	3,863 3,799	523 539	2,639 2,646	2,073 2,067		9,614 9,495	1,310 1,328	5,451 5,361	42,161 41,762	72,916 72,361
-		2,497	3,968	523	2,660	2,060		9,615	1,379	5,406	42,182	73,071
2010 January February	20,471 20,750	2,497	3,908	523	2,655	2,000		9,648	1,379	5,400	42,182	73,812
March	20,781	2,621	3,981	523	2,641	1,983		9,683	1,429	5,505	42,650	73,843
April	21,007	2,695	3,961	523	2,639	1,967		9,646	1,378	5,390	42,434	73,804
May	21,025	2,745	4,040	523	2,639	1,921		9,691	1,297	5,390	42,478	73,805
June	21,604	2,772	4,108	523	2,592	1,611		9,727	1,076	5,425	42,037	74,006
July	21,634	2,765	4,056	522	2,618	1,864		9,710	1,055	5,288	42,170	74,159
August	21,669	2,783	4,104	522	2,604	1,648		9,623	1,070	5,440	42,102	74,139
September	21,755	2,648 2,690	4,183	522 522	2,615 2,615	1,637 1,952		9,725 9,816	1,194	5,652 5,571	42,404	74,472
October November	21,284 21,510	2,690	4,181 4,263	522 525	2,615	1,952		9,816	1,195 1,248	5,571 5,553	42,674 43,026	74,308 74,927
December	21,510	2,942	4,203	525	2,550	1,886		9,723	1,248	5,507	43,020	74,927
Average	21,257	2,734	4,076	523	2,621	1,869		9,694	1,233	5,474	42,472	74,098
2011 January	22,026	^R 2,870	4,195	522	2,632	1,905		9,769	1,316	^E 5,483	^R 42,932	^R 75,412
February	21,934	2,906	4,147	521	2,602	1,861		9,773	1,085	E 5,612	^R 42,732	^R 74,811
March	21,952	2,854	4,139	517	2,620	1,808		9,753	1,073	E 5,633	R 42,611	^R 73,540
April	22,170	R 2,848	4,127	515	2,621	1,874		9,795	1,164	E 5,594	^R 42,448	^R 73,497
May	22,220 22,920	^R 2,564 ^R 2,664	4,104 4,172	515 515	2,603 2,592	1,607 1,660		9,818 ^R 9,770	1,017 1,020	^E 5,612 ^E 5,624	^R 41,597 ^R 41,889	^R 72,661 ^R 73,600
June July	22,920	^R 2,916	4,172	515	2,592	1,000		9,837	946	^E 5,624	^R 42,037	^R 73,995
August	23,120	R 3,068	4,073	510	2,598	1,714		9,832	756	^E 5,754	R 42,037	^R 74,325
September	23,170	^R 2,983	3,964	505	2,534	1,636		^R 9,557	915	E 5,641	R 41,571	^R 73,713
October	22,920	^R 2,976	3,926	505	2,598	1,756		^R 9,902	1,047	^E 5,784	^R 42,303	^R 74,151
November	23,220	2,974	4,006	505	2,573	1,764		9,595	1,022	^E 5,842	42,304	74,954
11-Month Average	22,633	2,875	4,080	513	2,596	1,756		9,765	1,032	^E 5,654	42,240	74,055
2010 11-Month Average 2009 11-Month Average	21,228 20.396	2,715 2,581	4,072 3,793	523 540	2,621 2,647	1,868 2,067		9,692 9,484	1,236 1,329	5,471 5,352	42,433 41,725	74,030 72,309

^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.

for all years. ^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

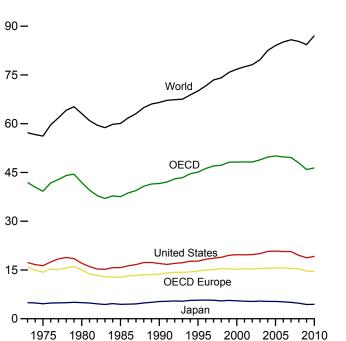
R=Revised. NA=Not available. --=Not applicable. E=Estimate.

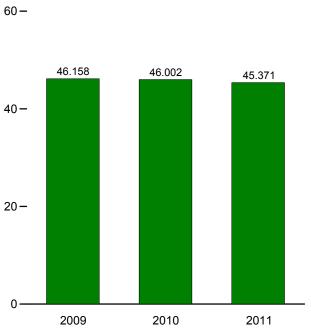
Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World totals due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

Figure 11.2 Petroleum Consumption in OECD Countries (Million Barrels per Day)

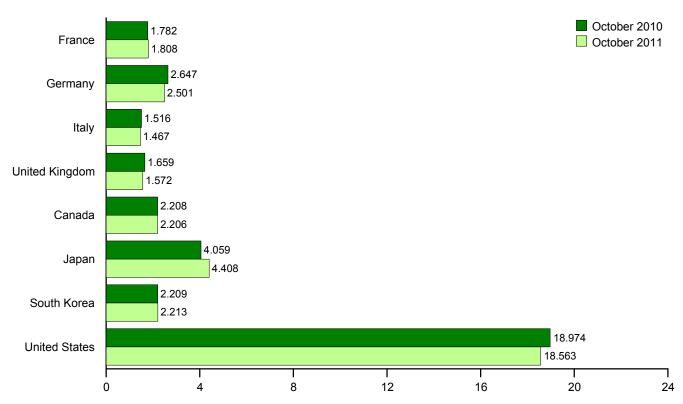




OECD Total, October

By Selected OECD Country

Overview, 1973-2010



Note: OECD is the Organization for Economic Cooperation and Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Source: Table 11.2.

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

	France	Germany ^a	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECDd	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	2,031	2,836	1,891	1,811	15,357	2,016	5,642	2,084	19,519	3,567	48,185	75,819
2000 Average	2,000	2,767	1,854	1,765	15,215	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	2,282	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	47,920	85,318
2009 January	2,032	2,416	1,507	1,723	14,882	2,239	4,850	2,301	19,040	3,569	46,881	NA
February	2,044	2,644	1,585	1,675	15,234	2,230	4,721	2,459	18,822	3,712	47,178	NA
March	1,962	2,785	1,521	1,719	15,179	2,160	4,615	2,190	18,719	3,686	46,548	NA
April	1,842	2,506	1,526	1,686	14,674	2,060	4,267	2,212	18,672	3,645	45,529	NA
May	1,711	2,335	1,480	1,594	13,969	2,065	3,857	2,131	18,211	3,662	43,895	NA
June	1,860	2,373	1,541	1,670	14,681	2,155	4,104	2,080	18,828	3,775	45,623	NA
July	1,881	2,412	1,692	1,639	14,806	2,181	4,035	2,009	18,626	3,793	45,449	NA
August	1,618	2,263	1,415	1,636	13,892	2,168	4,211	2,069	18,949	3,757	45,046	NA
September	1,927	2,550	1,596	1,652	15,105	2,148	4,182	2,037	18,594	3,696	45,762	NA
October	1,887	2,506	1,598	1,633	14,893	2,115	4,337	2,192	18,803	3,819	46,158	NA
November	1,757	2,353	1,500	1,616	14,289	2,161	4,436	2,231	18,753	3,849	45,717	NA
December	1,936	2,299	1,563	1,512	14,415	2,210	5,124	2,370	19,237	3,967	47,323	NA
Average	1,870	2,452	1,543	1,646	14,663	2,157	4,394	2,188	18,771	3,744	45,918	84,336
2010 January	1,785	2,186	1,353	1,578	^R 13,489	2,104	4,766	2,344	18,652	^R 3,498	^R 44,853	NA
February	1,988	2,481	1,518	1,679	^R 14,696	2,229	4,988	2,365	18,850	^R 3,820	^R 46,948	NA
March	1,942	2,530	1,547	1,675	^R 14,809	2,137	4,725	2,237	19,099	R 3,721	^R 46,728	NA
April	1,875	2,286	1,504	1,638	^R 14,231	2,108	4,352	2,232	19.044	R 3,769	^R 45,734	NA
May	1,723	2,379	1,435	1,607	^R 13,888	2,155	3,865	2,153	18,866	^R 3.740	^R 44,667	NA
June	1,866	2,535	1,561	1,590	^R 14,661	2,241	3,992	2,160	19,537	^R 3,840	^R 46,430	NA
July	1,858	2,596	1,643	1,623	^R 14,920	^R 2,183	4,194	2,094	19,319	^R 3,766	^R 46,476	NA
August	1,770	2,572	1,490	1,635	R 14,497	2,335	4,412	2,204	19,662	R 3,613	^R 46,723	NA
September	1,975	2,773	1,608	1,632	^R 15,374	^R 2,265	4,466	2,175	19,438	^R 3,703	^R 47,421	NA
October	1,782	2,647	1,516	1,659	^R 14.896	2,208	4,059	2,209	18,974	R 3,656	^R 46,002	NA
November	1.818	2,611	1,551	1,639	^R 14,978	2,260	4,620	2,203	18,977	R 3,819	R 47,028	NA
December	1,968	2,349	1,615	1,518	^R 14,610	2,200	5,029	2,479	19,722	^R 3,841	^R 47,954	NA
Average	1,861	2,495	1,528	1,622	^R 14,584	2,208	4,452	2,251	19,180	^R 3,731	^R 46,407	^R 87,078
2011 January	1.805	2.246	1.354	1,595	13.634	2,256	4.923	2.427	19.121	3.463	45.823	NA
February	1,951	2,409	1,504	1,646	14,664	2,253	5,093	2,346	18,869	3,403	47,047	NA
March	1,821	2,403	1,446	1,630	14,292	2,242	4,575	2,292	19,248	3,860	46,510	NA
April	1,780	2,283	1,463	1,615	13,939	2,242	4,008	2,232	18,613	3,754	44,437	NA
May	1,766	2,203	1,403	1,549	14,002	2,115	3,801	2,008	18,363	3,734	44,437	NA
June	1,819	2,292	1,420	1,682	14,393	2,130	3,957	2,010	19,277	^R 3,855	^R 45,795	NA
	1,819	2,292	1,479	1,556	14,393	^R 2,204	4,240	2,109	18,555	^R 3,759	^R 45,795	NA
July	1,831	2,425 2,666	1,479	1,556	14,379	R 2,337	4,240 4,439	2,186	18,555	^R 3,759	^R 46,659	NA
August												
September	1,952	2,562	1,543	1,665	R 14,984	R 2,212	4,292	2,238	18,795	R 3,856	R 46,378	NA
October 10-Month Average	1,808 1,836	2,501 2,422	1,467 1,459	1,572 1,611	14,324 14,327	2,206 2,224	4,408 4,369	2,213 2,204	18,563 18,855	3,657 3,755	45,371 45,735	NA NA
-												
2010 10-Month Average 2009 10-Month Average	1,855 1.875	2,498 2,477	1,517 1,546	1,631 1,662	14,539 14,726	2,196 2,152	4,377 4,315	2,216 2,166	19,145 18,726	3,694 3,711	46,167 45,795	NA NA

^a Data are for unified Germany, i.e., the former East Germany and West Germany. b "OECD Europe" consists of Austria, Belgium, Czech Republic, Denmark,

^b "OECD Europe" consists of Austria, Beigrum, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland, 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."

R=Revised. NA=Not available.

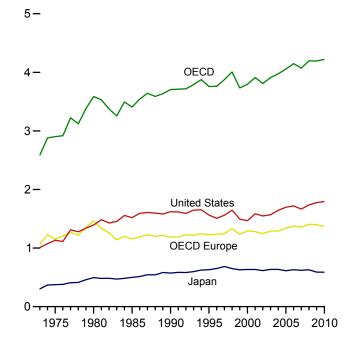
Notes: • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for

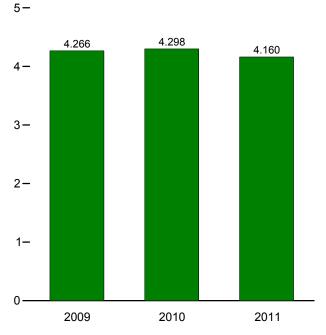
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973. Sources: • United States: Table 3.1. • Chile, East Germany, Former Czechoslovakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, U.S. Territories, and World: 1973-1979—U.S. Energy Information Administration (EIA), International Energy Database. • Countries Other Than United States: 1980-2008—EIA, International Energy Statistics (IES). • OECD Countries, and U.S. Territories: 2009 forward—EIA, IES. • World: 2009 and 2010—EIA, Short Term Energy Outlook, February 7, 2012, Table 3a. • All Other Data:—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries. various issues. Balances in OECD Countries, various issues.

Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)

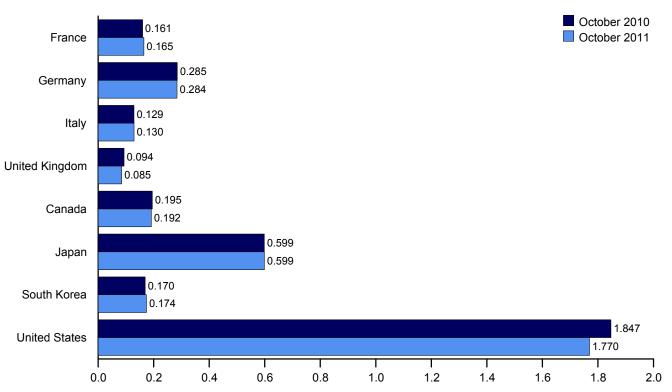
Overview, End of Year, 1973-2010

OECD Stocks, End of Month, October





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)

				United	OECD			South	United	Other	
	France	Germany ^a	Italy	Kingdom	Europeb	Canada	Japan	Korea	States	OECDC	OECE
73 Year	201	181	152	156	1,070	140	303	NA	1.008	67	2,58
75 Year	225	187	143	165	1,154	174	375	NA	1,133	67	2,90
80 Year	243	319	143	168	1,464	164	495	NA	1,133	72	3,58
35 Year	139	277	156	131	1,404	112	495 500	13	1,592	110	3,58
	143	280	143	103	1,154	143	500	64		117	3,40
90 Year	143	302	143	103	1,228	132	631	92	1,621 1,563	113	3,70
95 Year 96 Year	155	302	135	101	1,220	132	651	123	1,503	113	3,75
		299					685				
97 Year	161		129	100	1,246	144		124	1,560	115	3,87
98 Year	169	323	135	104	1,331	139	649	129	1,647	111	4,00
99 Year	160	290	130	101	1,233	142	629	132	1,493	105	3,73
00 Year	170	272	140	100	1,294	144	634	140	1,468	117	3,79
01 Year	165	273	134	113	1,281	154	634	143	1,586	112	3,91
02 Year	170	253	138	104	1,247	155	615	140	1,548	103	3,80
03 Year	179	273	135	100	1,290	165	636	155	1,568	96	3,91
04 Year	177	267	136	101	1,292	154	635	149	1,645	99	3,97
05 Year	185	283	132	95	1,342	168	612	135	1,698	103	4,05
06 Year	182	283	133	103	1,374	169	631	152	1,720	103	4,14
007 Year	180	275	133	90	1,358	175	621	143	1,665	108	4,07
08 Year	179	279	128	99	1,407	174	630	135	1,737	114	4,19
09 January	179	282	136	100	1,413	177	618	149	1,766	115	4,23
February	178	281	128	98	1,412	177	619	157	1,777	107	4,24
March	178	280	131	100	1,415	175	611	155	1,803	109	4,26
April	173	281	132	98	1,405	178	606	152	1,816	114	4,27
May	176	286	133	92	1,403	178	609	149	1,831	112	4,28
June	173	285	129	92	1,403	177	611	149	1,844	110	4.29
July	174	283	127	97	1,398	181	607	157	1,850	108	4,30
August	178	287	130	96	1,415	182	610	160	1,834	111	4.31
September	174	280	129	94	1,400	177	607	167	1,848	117	4,31
October	173	281	130	96	1,382	179	604	167	1,825	109	4,26
November	179	286	130	96	1,408	177	606	162	1,814	109	4.27
December	175	280 284	126	94	1,398	169	589	155	1,776	105	4,19
December					1,550			155	1,770	105	
10 January	182	295	127	95	1,439	172	593	162	1,786	111	4,26
February	175	290	134	99	1,424	174	587	163	1,785	117	4,24
March	172	289	129	93	1,404	180	581	164	1,787	114	4,23
April	172	284	135	95	1,414	181	590	166	1,810	111	4,27
May	173	286	131	99	1,422	177	599	166	1,830	108	4,30
June	170	280	133	96	1,405	178	597	167	1,842	120	4,30
July	168	282	127	96	1,389	186	598	170	1,855	116	4,31
August	171	289	133	93	1,406	195	597	169	1,862	115	4,34
September	163	286	127	95	1,365	^R 195	582	174	1,861	111	4,28
October	161	285	129	94	1,375	195	599	170	1,847	112	4,29
November	170	287	126	92	1,367	197	604	171	1,827	108	4,27
December	168	287	133	89	1,371	196	588	165	1,794	105	4,22
11 January	173	293	140	96	1,413	186	596	168	1,803	105	4,27
February	170	291	131	95	1,386	182	591	162	1,773	108	4,20
March	167	289	132	93	1,374	185	575	170	1,770	105	4,18
April	163	295	132	93	1,360	191	601	173	1,776	108	4,20
May	168	292	130	90	1,364	189	599	170	1,805	110	4.23
June	167	291	130	85	1,355	190	593	175	1,808	107	4,22
July	164	295	130	86	1,348	189	599	173	1,820	107	R 4,22
August	162	288	130	89	^R 1,351	^R 189	598	173	1,820	110	^R 4,23
					^R 1,332	^R 188					R 4,22
September	160	283	130	84			601	174	1,781	105 104	
October	165	284	130	85	1,321	192	599	174	1,770	104	4,16

 $^{\rm a}$ 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 b unified Germany, i.e., the former East Germany and West Germany.
 ^b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France,

Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom, and, for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia.

^c "Other OECD" consists of Australia, New Zealand, and the U.S. Territories,

and, for 1984 forward, Mexico. ^d The Organization for Economic Cooperation and Development (OECD) consists of "OECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD."

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 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, January 18, 2012.

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, February 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, February 2012.

12. Environment

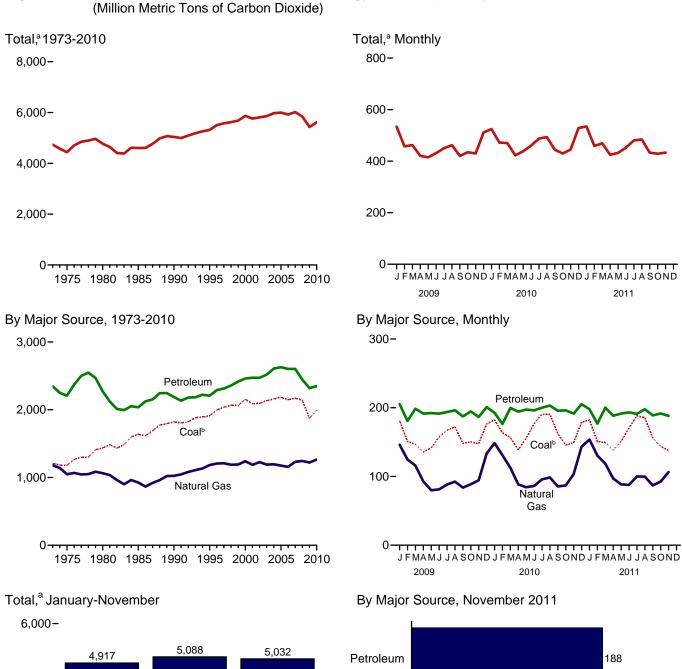
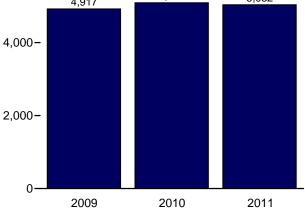
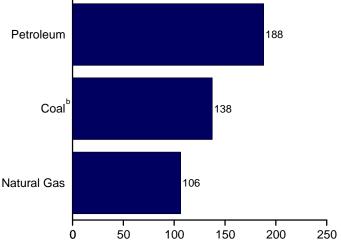


Figure 12.1 Carbon Dioxide Emissions From Energy Consumption by Source



^a Excludes emissions from biomass energy consumption. ^b Includes coal coke net imports.



Web Page: http://www.eia.gov/totalenergy/data/monthly/#environment. Source: Table 12.1.

Table 12.1 Carbon Dioxide Emissions From Energy Consumption by Source

(Million Metric Tons	of Carbon Dioxide ^a)
----------------------	----------------------------------

			Petroleum											
	Coal ^b	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 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1995 Total 1997 Total 1998 Total 1999 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total 2006 Total 2007 Total 2008 Total	1,207 1,181 1,436 1,638 1,821 1,913 1,995 2,064 2,062 2,064 2,062 2,088 2,095 2,136 2,160 2,182 2,140 2,182 2,172 2,139	1,181 1,047 1,063 926 1,025 1,184 1,215 1,211 1,189 1,192 1,241 1,187 1,195 1,175 1,175 1,175 1,233 1,243	6 5 4 3 3 3 3 3 3 2 3 3 2 2 2 2 2 2 2 2 2 2	480 443 446 445 470 498 524 538 555 580 598 598 598 598 610 632 640 648 652 615	155 146 156 178 223 232 234 234 245 254 243 231 240 246 240 246 240 238 226	32 24 17 6 8 9 10 12 11 10 11 6 8 10 10 8 5 2	91 82 87 86 69 78 84 85 75 91 102 98 92 98 98 94 93 94 93	13 11 13 12 13 13 12 13 14 14 14 13 12 12 12 12 11 12	911 900 930 988 1,044 1,063 1,075 1,107 1,127 1,135 1,151 1,183 1,188 1,214 1,214 1,224 1,227 1,166	51 48 46 55 67 75 78 89 93 84 88 94 105 105 105 104 98 92	508 443 453 216 220 152 152 152 152 158 168 168 155 164 125 164 125 129 111	100 97 142 93 127 114 132 138 125 130 117 132 127 142 141 150 148 130	2,346 2,209 2,272 2,035 2,207 2,207 2,313 2,358 2,417 2,473 2,472 2,473 2,472 2,609 2,628 2,609 2,628 2,603 2,603 2,603 2,603	4,733 4,437 4,770 5,039 5,314 5,501 5,555 5,622 5,682 5,682 5,682 5,682 5,759 5,886 5,857 5,977 5,997 5,997 5,919 6,020 5,838
2009 January February March April June July September October December December Total	181 151 147 135 142 158 167 172 172 148 150 148 176 1,876	146 125 116 93 80 81 88 93 84 89 95 133 1,222	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	54 46 49 45 45 45 45 45 45 45 45 45 48 46 51 564	16 15 18 17 17 19 18 17 17 16 17 204	1 (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$) (\$)	9 8 7 6 6 7 7 7 8 10 10 91	1 1 1 1 1 1 1 1 1 1 1 1 0	95 88 96 99 97 101 101 94 98 94 97 1,157	7 7 8 9 9 6 7 8 6 6 7 87	12 6 9 10 7 8 5 7 5 8 7 9 91	11 10 9 8 9 10 9 10 9 8 9 111	205 181 199 191 192 191 194 196 187 195 187 201 2,320	534 458 462 421 415 431 450 462 420 435 430 511 5,429
2010 January February March April May June July August September October November December Total	182 164 157 139 155 177 191 162 146 149 179 1,991	149 131 113 88 84 86 96 99 86 87 103 143 1,265	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	49 46 51 48 48 47 50 50 50 49 55 590	17 15 18 17 18 19 19 19 18 18 18 17 17 210	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	10 9 7 7 7 7 7 7 8 8 11 94	1 1 1 1 1 1 1 1 1 1 1 1	92 84 95 99 97 101 100 96 97 92 96 1,146	5 5 7 6 7 7 8 7 6 7 6 7 6 7	9 7 8 9 7 9 7 8 7 8 7 8 8 96	9 9 11 10 10 10 11 10 9 9 10 120	193 176 200 194 197 196 200 203 196 196 191 205 2,349	525 472 470 423 438 460 488 493 444 430 445 528 5,616
2011 January February March May June July August September October November 11-Month Total	182 151 149 138 151 171 188 185 156 144 138 1,753	154 130 119 97 ^R 89 88 100 100 87 93 106 1,162	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	52 46 53 47 48 50 45 52 50 52 52 52 546	17 15 17 18 19 18 19 17 17 17 192	(s) 1 (s) (s) (s) (s) (s) (s) (s) (s)	10 8 6 7 6 7 7 7 8 8 8 8 3	1 1 1 1 1 1 1 1 1 9	91 84 95 92 95 94 97 96 92 93 89 83 89 1,018	6 4 6 7 7 6 8 6 7 6 70	9 9 7 7 5 5 7 6 6 78	10 9 12 10 9 10 11 10 9 8 10 106	198 177 200 188 192 193 191 198 189 192 188 2,106	535 459 469 425 432 453 480 484 433 429 433 5,032
2010 11-Month Total 2009 11-Month Total	1,812 1,699	1,121 1,089	2 2	535 513	193 187	2 2	84 81	10 9	1,050 1,060	71 81	88 82	110 102	2,144 2,119	5,088 4,917

^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.

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

d

е

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

^g Aviation gasoline blending components, crude oil, motor gasoline blending Availor gasonine plus, performents, clube on, micho gasonine benchng components, pentanes plus, performencial 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.
 ⁱ Excludes emissions from biomass energy consumption. See Table 12.7.

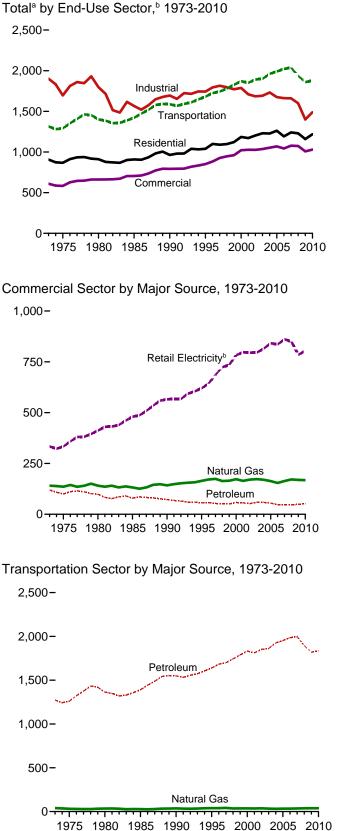
R=Revised. (s)=Less than 0.5 million metric tons.

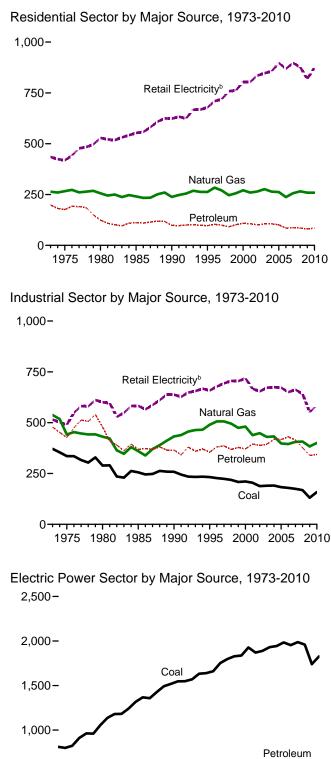
R=Revised. (s)=Less than 0.5 million metric tons.
Notes: Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.
See Note 1, "Emissions of Carbon 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. and the District of Columbia.

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

Sources: See end of section.







^a Excludes emissions from biomass energy consumption.

^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

total electricity retail Sales.

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Web Page: http://www.eia.gov/totalenergy/data/monthly/#environment. Sources: Tables 12.2–12.6.

Natural Gas

1975 1980 1985 1990 1995 2000 2005 2010

Table 12.2	Carbon Dioxide Emissions From Energy Consumption: Residential Sector
	(Million Metric Tons of Carbon Dioxide ^a)

				Petrole	eum	1	Retail	
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Total	Elec- tricity ^e	Total ^f
'3 Total	9	264	147	16	36	199	435	907
75 Total	6	266	132	12	32	176	419	867
0 Total	3	256	96	8	20	124	529	911
5 Total	4	241	80	11	20	111	553	909
0 Total	3	238	72	5	22	98	624	963
5 Total	2	263	66	5	25	96	678	1,039
6 Total	2	284	68	6 7	30	104	710	1,099
7 Total	2	270 247	64 56	8	29	99 91	719 759	1,090 1.097
98 Total	1	247	61	8	27 33	102	759	1,097
99 Total 00 Total	1	271	66	7	35	102	805	1,18
01 Total	i	259	66	7	33	106	805	1,172
02 Total	i	265	63	4	34	101	835	1.203
03 Total	i	276	66	5	34	106	847	1,230
04 Total	1	264	68	6	32	106	856	1.228
05 Total	1	262	62	6	32	101	897	1,261
06 Total	1	237	52	5	28	85	869	1,192
07 Total	1	257	53	3	31	87	897	1,241
08 Total	1	266	49	2	35	85	878	1,229
09 January	(s)	51	6	(s)	3	9	85	146
February	(s)	41	5 5	(s)	3	8	67	116
March	(s)	33	5	(s)	3	8	62	102
April	(s)	21	4	(s)	3	6	53	80
May	(s)	11	3	(s)	3 2	5	56 70	72 82
June	(s)	8	2	(s)	2	5 5 6	83	82 95
July August	(s) (s)	6 6	3	(s) (s)	33	5	85	90
September	(s)	6	3	(s) (s)	3	6	66	78
October	(s)	14	3	(S) (S)	3	6	59	79
November	(s)	20	3	(s)	3	7	57	84
December	(s)	41	2 3 3 3 3 3 5	(s)	4	9	78	129
Total	1	259	44	2	35	8Ĭ	819	1,159
10 January	(s)	51	7	(s)	4	10	91	152
February	(s)	43	6	(s)	3	10	74	126
March	(s)	31	4	(s)	3	7	65	104
April	(s)	17	3 3 3 2 2	(s)	3	5	51	73
May	(s)	11	3	(s)	3	6	59	75
June	(s)	7	3	(s)	3	6	79	93
July	(s)	6	3	(s)	3 3 3	6 6 5 5 7	97	108
August	(s)	6	2	(s)		5	96	107
September	(s) (s)	6 11	23	(s) (s)	3 3	5	72 56	83 73
October November	(S) (S)	24	4	(s) (s)	3	7	56	87
December	(S)	46	6	(S) (S)	4	10	81	138
Total	1	259	46	2	37	85	874	1,219
11 January	(s)	53	5	(s)	4	9	88	149
February	(s)	42	5	(s)	3	8	68	118
March	(s)	33	4	(s)	3	7	60	100
April	(s)	19	2	(s)	3	5	54	78
May	(s)	11 7	2 2 2 2 3	(s)	3	5 5 5 5 6	59	74
June	(s)	7	2	(s)	3 3	5	76	89
July	(s)	6	2	(s)		5	97	108
August	(s)	6	3	(s)	3	6	93	105
September	(s)	7	3 4	(s)	3	6	69	82
October	(s)	12 23	4	(s)	3 3	7 7	54 53	73
November 11-Month Total	(s) 1	23 219	4 37	(s) 1	33	71	770	84 1,061
10 11-Month Total	1	213	40	2	33	74	794	1,082
9 11-Month Total	1	218	39	2	31	71	742	1,031

^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

^c Distillate tuel 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.
 ^f 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 (Million Metric Tons of Carbon Dioxidea)

						Petroleum				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 ^g
1973 Total 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1995 Total 1995 Total 1997 Total 1997 Total 1998 Total 1997 Total 1997 Total 2000 Total 2000 Total 2001 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total	15 14 11 12 11 12 12 9 9 9 9 9 8 10 9 6 7 7	141 136 141 132 164 171 174 165 173 164 170 173 170 163 154 164 171	47 43 38 46 39 35 32 31 32 36 37 32 36 37 32 35 34 33 35 34 29 28 27	5 4 3 2 1 2 2 2 2 2 2 2 2 1 1 1 2 1 1 (s)	9 8 6 6 7 8 8 7 9 9 9 9 9 9 9 10 10 8 8 8 10	6 6 8 7 8 1 2 3 3 2 3 3 4 3 3 3 4 3 3 4 3 3 4 3	NA NA NA S S S S S S S S S S S S S S S S	52 39 44 18 11 11 9 7 6 7 6 9 10 9 6 6 6 6 6	120 100 98 79 73 56 57 54 51 51 58 57 59 58 55 59 58 55 48 47 46	334 333 412 480 566 620 643 686 724 735 783 797 795 796 816 842 836 861 850	609 583 662 704 793 851 883 926 947 960 1,022 1,027 1,026 1,036 1,054 1,054 1,078 1,074
2009 January February March June July September October December December Decamber Decamber	1 (s) (s) (s) (s) (s) (s) (s) 1 6	28 23 19 14 9 7 7 7 7 11 14 23 169	4 3 2 2 2 2 2 2 2 2 2 2 4 30	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1 9	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(s) (s) (s) 0 0 (s) (s) (s) (s) (s) (s)	1 (s) (s) (s) (s) (s) (s) (s) (s) (s) 1 6	6 5 5 4 3 3 3 3 4 4 4 4 6 9	69 58 60 58 62 70 73 76 66 65 60 68 785	103 87 75 75 80 84 86 77 80 78 98 98 1,008
2010 January February March April July August September October November December Total	1 (s) (s) (s) (s) (s) (s) (s) (s) (s) 1 5	27 24 18 9 7 6 7 7 10 16 25 168	4 3 2 2 2 2 2 2 1 2 3 4 32	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	1 1 1 1 1 1 1 1 1 1 9	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(5) (5) (5) (5) (6) (5) (5) (5) (5) (5) (5)	1 (s) (s) (s) (s) (s) (s) (s) (s) 1 7	7 6 4 3 3 4 3 3 4 4 6 51	66 60 59 66 74 80 80 69 62 61 68 804	101 91 82 73 78 85 90 91 79 77 81 100 1,029
2011 January February March April May June July August September October November 11-Month Total	1 1 (s) (s) (s) (s) (s) (s) (s) (s) 5	29 24 20 13 9 7 7 7 8 12 15 149	4 3 2 1 2 2 2 3 3 25	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	1 1 1 1 1 1 1 1 1 8	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(s) (s) (s) 0 0 0 0 (s) (s) (s)	1 1 (s) (s) (s) (s) (s) (s) 1 5	6 5 4 3 2 3 4 4 4 5 42	65 56 59 57 64 71 79 78 66 62 57 714	100 85 83 73 76 82 89 89 78 78 77 911
2010 11-Month Total 2009 11-Month Total	5 5	143 146	27 27	(s) (s)	8 8	3 3	(s) (s)	6 5	45 43	736 716	929 910

^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.

^d Liquefied petroleum gases.
 ^e Finished motor gasoline, excluding fuel ethanol.
 ^f Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.
 ^g Excludes emissions from biomass energy consumption. See Table 12.7. NA=Not available. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic councerses 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.

Carbon Dioxide Emissions From Energy Consumption: Industrial Sector Table 12.4 (Million Metric Tons of Carbon Dioxide^a)

		Coal						Petroleun	n				Detail	
	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 1997 Total	233 227 224 219	3 5	490 506 506 495	86 88 88	1 1 2	45 46 48 39	6 7 7	14 14 15 14	70 68	24 24 21 16	132 138 125	381 386 368	678 694 706	1,795 1,815 1,796
1998 Total 1999 Total 2000 Total	208 211	8 7 7	474 481	86 87	1 1	48 56	7 7	11 11	77 81 74	14 17	130 117	378 370	704 719	1,772 1,788
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	6	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 January	12	(s)	36	11	(s)	5	(s)	1	6	1	11	36	47	130
February	12	(s)	32	8	(s)	4	(s)	1	6	1	10	30	41	115
March	12	(s)	33	8	(s)	4	(s)	1	6	1	9	29	43	117
April	10	(s)	31	5	(s)	3	(s)	1	7	1	8	26	42	109
May	10	(s)	30	6	(s)	3	(s)	1	7	1	9	27	45	111
June	10	(s)	29	6	(s)	3	(s)	1	8	1	8	27	46	111
July	10	(s)	30	4	(s)	3	(s)	1	5	(s)	10	25	47	112
August	11	(s)	31	4	(s)	3	(s)	1	6	1	9	25	50	117
September	11	(s)	30	6	(s)	3	(s)	1	7	(s)	10	28	46	115
October	11	(s)	32	7	(s)	4	(s)	1	5	1	9	28	47	119
November	11	(s)	33	8	(s)	5	(s)	1	5	1	8	28	46	118
December	11	(s)	36	8	(s)	5	(s)	1	6	1	9	31	49	127
Total 2010 January	131	-3	383	80	(s)	46	5	17	73	7	111	339	551	1,401
	12	(s)	37	6	(s)	5	(s)	1	3	1	9	27	46	122
February	13	(s)	34	6	(s)	5	(s)	1	4	1	9	26	44	118
March	13	(s)	35	9	(s)	4	(s)	1	6	1	11	32	46	127
April	13	(s)	32	8	(s)	3	(s)	1	5	1	11	30	45	120
May	13	(s)	32	6	(s)	3	(s)	1	5	1	10	27	51	123
June	13	(s)	31	5	(s)	3	1	1	5	1	10	27	52	123
July	13	(s)	32	4	(s)	3	1	1	5	1	10	25	54	124
August	13	(s)	32	7	(s)	3	(s)	1	6	1	11	30	55	131
September	14	(s)	32	9	(s)	3	(s)	1	6	1	10	31	48	124
October	13	(s)	33	7	(s)	4	(s)	1	5	1	9	27	47	120
November	13	-1	34	8	(s)	4	(s)	1	6	1	9	30	48	124
December	14	-1	37	9	(s)	6	(s)	1	5	1	10	32	50	133
Total	159	-1	401	85	(s)	47	6	16	62	7	120	344	587	1,489
2011 January February	13 13	(s) (s)	39 35	10 7	(s) (s)	5 4	(s) (s)	1	5 3	1	10 9	33 26	48 42	133 116
March	14	(s)	36	10	(s)	4	1	1	5	1	12	33	46	129
April	13	(s)	34	7	(s)	3	(s)	1	5	1	10	28	45	120
May	13	(s)	34	8	(s)	3	(s)	1	6	1	9	28	48	124
June	13	(s)	R 33	8	(s)	3	(s)	1	5	1	10	28	50	124
July	12	(s)	33	4	(s)	3	(s)	1	5	(s)	11	26	54	125
August	13	(s)	34	7	(s)	3	(s)	1	7	(s)	10	29	53	130
September	13	(s)	33	8	(s)	3	(s)	1	5	1	9	27	47	120
October	14	(s)	34	8	(s)	4	(s)	1	6	(s)	8	28	47	124
November	13	(s)	35	9	(s)	4	(s)	1	5	(s)	10	30	46	124
11-Month Total	144	1	381	88	(s)	40	5	15	57	6	106	317	526	1,369
2010 11-Month Total	145	(s)	363	76	(s)	41		15	57	7	110	311	536	1,355
2009 11-Month Total	120	-2	347	72	(s)	40	5	15	67	7	102	308	501	1,274

^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 Liquiding the ordinary of the supplemental gaseous fuels.

Distillate fuel oil, excluding biodiesel.
 Liquefield 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.

^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.

R=Kevic metric tons. 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.

Table 12.5 Carbon Dioxide Emissions From Energy Consumption: Transportation Sector (Million Metric Tons of Carbon Dioxide^a)

						Petr	oleum				Retail	
	Coal	Natural Gas ^b	Aviation Gasoline	Distillate Fuel Oil ^c	Jet Fuel	LPG ^d	Lubri- cants	Motor Gasoline ^e	Residual Fuel Oil	Total	Elec- tricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1985 Total 1995 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2007 Total 2008 Total	(;))))))))))))))))))))))))))))))))))))	39 32 34 28 36 39 41 35 36 35 37 33 33 33 33 33 33 33 33 33 33 33 33	6543333232222222222222	163 155 204 232 268 307 342 352 366 378 387 394 414 434 444 469 472 440	152 145 155 178 223 232 234 238 245 245 245 243 237 231 240 246 238 226	3 3 1 2 1 1 1 1 1 1 1 1 1 2 2 1 3	6666766677766666565 5655	886 889 881 908 967 1,029 1,047 1,057 1,105 1,121 1,127 1,158 1,161 1,185 1,186 1,194 1,201 1,146	57 56 110 62 80 72 67 56 53 52 70 46 53 45 58 66 71 78 72	1,273 1,258 1,363 1,548 1,639 1,683 1,699 1,743 1,743 1,743 1,813 1,813 1,813 1,861 1,926 1,953 1,984 1,999 1,895	2 2 2 3 3 3 3 3 3 4 4 4 5 5 5 5 5 5 5 5	1,315 1,292 1,400 1,421 1,588 1,681 1,725 1,744 1,782 1,828 1,872 1,852 1,852 1,899 1,962 1,991 2,022 2,040 1,937
2009 January February March April June July August September October November December Total	(((((((((((((((((((5 4 3 2 3 3 3 3 3 3 4 38	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	32 29 33 35 35 36 36 36 34 35 33 33 33 404	16 15 18 17 17 19 18 17 16 17 204	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	93 86 94 98 99 100 92 96 92 95 1,137	7 4 7 8 4 6 3 5 3 6 5 7 6 4	149 135 154 154 154 154 157 159 147 155 147 153 147 153 1,818	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	154 139 158 156 157 157 160 162 150 158 150 158 158 1,860
2010 January February March April June July August September October December December Total	(((((((((((((((((((4 3 3 3 3 3 3 3 3 3 3 4 38	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	31 29 35 36 36 37 39 37 37 37 37 34 35 422	17 15 18 17 19 19 19 18 18 17 17 210	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	91 82 94 98 96 99 98 94 96 90 90 94 1,126	6567656665 6 9	145 133 154 159 156 162 161 155 157 149 153 1,836	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	150 137 157 161 159 165 165 158 160 152 158 158 1,879
2011 January February April May June July August September October November 11-Month Total	(5 4 3 3 3 3 3 3 3 3 3 3 35	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	33 30 36 35 37 37 37 39 36 36 37 35 391	17 15 17 18 19 18 19 17 17 17 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	89 83 90 93 93 96 94 90 91 88 1,000	7 7 7 6 5 3 6 5 4 5 9	147 135 153 155 155 155 155 156 149 151 145 1,651	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	152 140 157 154 158 158 158 160 152 154 148 1,690
2010 11-Month Total 2009 11-Month Total	{ ^h { ^h }	34 34	2 2	387 370	193 187	2 2	5 4	1,032 1,042	64 57	1,683 1,664	4 4	1,721 1,702

^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.

^o Liquetied petroleum gases.
 ^e Finished motor gasoline, excluding fuel ethanol.
 ^f Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.
 ^g Evaluate emissions from hiomass energy consumption. See Table 12.7.

⁹ Excludes emissions from biomass energy consumption. See Table 12.7. ^h Beginning in 1978, the small amounts of coal consumed for transportation are

reported as industrial sector consumption.

(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.

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

	Coal			Petro		Non-			
		Natural Gas ^b	Distillate Fuel Oil ^c	Petroleum Coke	Residual Fuel Oil	Total	Geo- thermal	Biomass Waste ^d	Total ^e
973 Total	812	199	20	2	254	276	NA	NA	1,286
975 Total	824	172	17	(s)	231	248	NA	NA	1,244
80 Total	1,137	200	12	(3)	194	207	NA	NA	1,544
985 Total	1,367	166	6	i	79	86	NA	NA	1,619
990 Total	1,548	176	7	3	92	102	(s)	6	1,831
995 Total	1,661	228	8	8	45	61	(s)	10	1,960
96 Total	1,752	205	8	8	50	66	(s)	10	2,033
97 Total	1,797	219	8	10	56	75	(s)	10	2,101
998 Total	1,828	248	10	13	82	105	(s)	10	2,10
99 Total	1,836	240	10	11	76	97	(s)	10	2,192
	1,927	281	13	10	69	91		10	
00 Total	1,870	290	12	10	79	102	(s)	10	2,310
01 Total				18			(s)		2,273
02 Total	1,890	306	9		52	79	(s)	13	2,288
03 Total	1,931	278	12	18	69	98	(s)	11	2,319
04 Total	1,943	297	8	23	69	100	(s)	11	2,352
005 Total	1,984	319	8	25	69	102	(s)	11	2,417
006 Total	1,954	338	5	22	28	56	(s)	12	2,359
007 Total	1,987	372	7	17	31	55	(s)	11	2,426
008 Total	1,959	362	5	16	19	40	(s)	12	2,374
09 January	169	26	1	1	3	5	(s)	1	201
February	138	25	(s)	1	1	3	(s)	1	167
March	134	27	1	1	1	3	(s)	1	165
April	125	24	(s)	1	1	2	(s)	1	153
May	131	28	(s)	1	1	3	(s)	1	163
June	147	35	(S)	1	1	3	(s)	1	186
July	157	42	(S)	1	1	3	(s)	1	203
August	162	46	(s)	1	1	3	(s)	1	211
September	137	37	(s)	1	1	3	(s)	1	178
October	139	29	(s)	1	1	2	(s)	1	171
November	136	25	(s)	1	1	2	(s)	1	164
December	165	28	(s)	1	1	2	(s)	1	196
Total	1,741	373	5	14	14	34	(s)	11	2,159
10 January	169	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	(3)	1	2	4	(s)	1	206
July	103	48	1	2	2	4	(s)	1	230
August	177	48 51	(s)	2	2	4 3	(s)	1	230
	148	38		1	2	2		1	232
September	146	30 31	(s)	1	1	2	(s)	1	166
October			(s)		•		(s)	•	
November	136	27	(s)	1	1	2	(s)	1	165
December	165	31	1	1	1	3	(s)	1	200
Total	1,827	399	6	15	12	33	(s)	11	2,270
11 January	168	29	1	2	1	3	(s)	1	201
February	137	26	(s)	1	1	2	(s)	1	160
March	135	26	(s)	1	1	2	(s)	1	16
April	125	28	(s)	1	1	2	(s)	1	156
May	137	31	(s)	1	1	2	(s)	1	171
June	157	38	(s)	1	1	2	(s)	1	198
July	176	51	(s)	1	1	3	(s)	1	230
August	172	50	(s)	1	1	2	(s)	1	225
September	143	37	(s)	1	1	2	(s)	1	183
October	129	31	(s)	1	(s)	2	(s)	1	163
November	125	29	(s)	1	(s)	2	(s)	1	157
11-Month Total	1,603	378	4	13	7	24	(s)	10	2,015
010 11-Month Total	1,661	369	5	13	11	30	(s)	10	2,071
009 11-Month Total	1,576	344	5	13	14	31	(s)	10	1,963

^a Metric tons of carbon dioxide can be converted to metric tons of carbon ^a Metric tons of carbon dioxide can be converted to metric tons of equivalent by multiplying by 12/44.
 ^b Natural gas, excluding supplemental gaseous fuels.
 ^c Distillate fuel oil, excluding biodiesel.
 ^d Municipal solid waste from non-biogenic sources, and tire-derived fuels.

^a Municipal solid waste from non-biogenic sources, and tire-uenveo tuers.
 ^e Excludes emissions from biomass energy consumption. See Table 12.7.
 NA=Not available. (s)=Less than 0.5 million metric tons.
 Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section.

See "Carbon Dioxide" in Glossary.
 See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section.
 Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section.
 • Totals may not equal sum of components due to independent rounding.
 • Geographic

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

Sources: See end of section

Table 12.7 Carbon Dioxide Emissions From Biomass Energy Consumption

			By Source			By Sector						
	Wood ^b	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 1980 Total	143 140 232	(s) (s) (s)	NA NA NA	NA NA NA	143 141 232	33 40 80	1 1 2	109 100 150	NA NA NA	(s) (s) (s)	143 141 232	
1985 Total 1990 Total 1995 Total 1996 Total	252 208 222 229	14 24 30 32	3 4 8 6	NA NA NA	270 237 260 266	95 54 49 51	2 8 9 10	168 147 166 170	3 4 8 6	1 23 28 30	270 237 260 266	
1997 Total 1998 Total 1999 Total 2000 Total	222 205 208 212	30 30 29 27	7 8 9	NA NA NA NA	259 242 245 248	40 36 37 39	10 9 9	172 160 161 161	7 8 8 9	30 30 30 29	259 242 245 248	
2001 Total 2002 Total 2003 Total 2004 Total	188 187 188 199	33 36 36 35	10 12 16 20	(s) (s) (s) (s)	231 235 240 255	35 36 38 38	9 9 9 10	147 144 141 151	10 12 16 20	31 35 37 36	231 235 240 255	
2005 Total 2006 Total 2007 Total 2008 Total	200 198 197 192	37 36 37 40	23 31 39 55	1 2 3 3	261 267 277 289	40 37 40 42	10 9 9 10	150 151 146 140	23 33 41 57	37 38 39 40	261 267 277 289	
2009 January February March	15 14 15	3 3 4	5 4 5	(s) (s) (s)	23 21 23	3 3 3	1 1 1	11 10 10	5 4 5	3 3 3	23 21 23	
April May June	14 14 14	3 3 3 4	5 5 5	(s) (s) (s)	22 23 23 25	3 3 3 3	1 1 1	10 10 10 11	5 5 5	3 3 3 4	22 23 23 25	
July August September October	15 16 15 15	3 3 3	6 6 5 6	(S) (S) (S) (S)	25 24 25	3 3 3	1 1 1 1	11 11 11	6 6 6	4 3 3	25 24 25	
November December Total	15 15 176	4 4 41	6 6 62	(s) (s) 3	24 25 283	3 3 40	1 1 10	11 11 127	6 6 64	3 4 41	24 25 283	
2010 January February March April	16 14 16 15	4 3 4 4	6 5 6 6	(s) (s) (s)	25 23 25 25	3 3 3 3	1 1 1	12 11 12 11	6 5 6 6	4 3 4 3	25 23 25 25	
May June July	15 15 16	4 4 4	6 6 6	(s) (s) (s)	25 25 26	3 3 3	1 1 1	11 11 12	6 6 6	3 4 4	25 25 26	
August September October November	16 16 16 15	4 3 4 4	6 6 6	(s) (s) (s) (s)	26 25 26 25	3 3 3 3	1 1 1 1	12 12 12 12	6 6 6 6	4 3 3 4	26 25 26 25	
December Total	16 186 16	4 43 4	6 73 6	(s) 2	27 304 26	3 39 3	1 10 1	12 139 12	6 74 6	4 42 3	27 304 26	
2011 January February March April	14 15 15	3 4 3	6 6 6	(s) (s) (s) (s)	24 26 24	3 3 3	1 1 1	11 12 11	6 6 6	3 3 3	24 26 24	
May June July August September	15 16 16 16 15	4 4 4 4 4	6 6 7 6	(s) 1 1 1	25 26 26 27 26	3 3 3 3 3	1 1 1 1	11 12 12 12 12	7 7 7 7 7	3 3 4 4 3	25 26 26 27 26	
October November 11-Month Total	15 15 168	4 4 40	6 6 66	1 1 6	26 26 281	3 3 36	1 1 9	11 12 127	7 7 72	3 3 37	26 26 281	
2010 11-Month Total 2009 11-Month Total	169 161	40 37	66 57	2 3	277 258	36 37	9 9	126 116	67 58	39 37	277 258	

(Million Metric Tons of Carbon Dioxidea)

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

^d Fuel ethanol minus denaturant. ^e Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. ^f Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

industrial electricity-only plants. ^g The electric power

⁹ 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.

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. Sources: See end of section.

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 (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.

Energy-related carbon dioxide emissions account for about 98 percent of U.S. CO_2 emissions. The vast majority of CO_2 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 nonbiomass waste. Other sources of CO_2 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. CO_2 emissions from energy consumption, including the nonfuel use of fossil fuels (excluded are estimates for CO_2 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 CO_2 emissions from biomass can potentially lead to confusion in accounting for and understanding the flow of CO_2 emissions within energy and nonenergy systems. In recognition of this issue, reporting of CO_2 emissions from biomass combustion alongside other energy-related CO_2 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 CO_2 emissions from biomass and energy-related CO_2 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(2008).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— CO_2 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— CO_2 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— CO_2 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 CO_2 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— CO_2 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 CO_2 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 Gasoline ^d		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.

^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.

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 A2. Approximate Heat Content of Petroleum Production, Imports, and Exports (Million Btu per Barrel)

	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	5.800	4.011	5.827	5.959	5.884	5.800	5.773	5.774
975	5.800	3.984	5.821	5.935	5.858	5.800	5.747	5.748
976	5.800	3.964	5.808	5.980	5.856	5.800	5.743	5.745
977	5.800	3.941	5.810	5.908	5.834	5.800	5.796	5.797
978	5.800	3.925	5.802	5.955	5.839	5.800	5.814	5.808
979	5.800	3.955	5.810	5.811	5.810	5.800	5.864	5.832
980	5.800	3.914	5.812	5.748	5.796	5.800	5.841	5.820
981	5.800	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
983	5.800	3.839	5.825	5.677	5.774	5.800	5.800	5.800
984	5.800	3.812	5.823	5.613	5.745	5.800	5.867	5.850
985	5.800	3.815	5.832	5.572	5.736	5.800	5.819	5.814
986	5.800	3.797	5.903	5.624	5.808	5.800	5.839	5.832
987	5.800	3.804	5.901	5.599	5.820	5.800	5.860	5.858
988	5.800	3.800	5.900	5.618	5.820	5.800	5.842	5.840
989	5.800	3.826	5.906	5.641	5.833	5.800	5.869	5.857
990	5.800	3.822	5.934	5.614	5.849	5.800	5.838	5.833
991	5.800	3.807	5.948	5.636	5.873	5.800	5.827	5.823
992	5.800	3.804	5.953	5.623	5.877	5.800	5.774	5.777
992	5.800	3.804	5.954	5.620	5.883	5.800	5.777	5.779
994	5.800	3.794	5.950	5.534	5.861	5.800	5.777	5.779
995	5.800	3.796	5.938	5.483	5.855	5.800	5.740	5.746
996	5.800	3.777	5.947	5.468	5.847	5.800	5.728	5.736
997	5.800	3.762	5.954	5.469	5.862	5.800	5.726	5.730
998	5.800	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
001	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
004	5.800	3.724	5.981	5.475	5.863	5.800	5.753	5.754
005	5.800	3.724	5.977	5.475	5.845	5.800	5.741	5.754
005	5.800	3.724	5.980	5.474	5.842	5.800	5.723	5.743
007	5.800	3.701	5.985	5.503	5.862	5.800	5.749	5.724
007 008	5.800	3.701	5.990	5.503	5.866	5.800	5.762	5.760
008	5.800 5.800	3.706	5.990	5.525	5.860	5.800	5.762	5.762
		3.692	5.988	5.525 5.557	5.882 5.894			
010	5.800					5.800	5.670	5.672
011 ^E	5.800	3.674	5.989	5.557	5.894	5.800	5.670	5.672

^a Includes lease condensate.

Restinate. 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 Pe	troleum ^a C	onsumption b	y Sector		Liquefied	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 ⁱ	Biodiesel	Feed- stock Factori
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
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	^E 4.685	^E 5.267	^E 4.995	^E 5.420	P 6.085	5.297	3.557	5.218	3.561	5.930	5.359	5.433
2011	^E 4.685	^E 5.267	^E 4.995	^E 5.420	^E 6.085	^E 5.297	^E 3.557	^E 5.218	^E 3.561	5.904	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.

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

^c 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.

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. ^g 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.

¹ 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.

¹ 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.

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.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Production			Consumption ^a			
	Marketed	Dry	End-Use Sectors ^b	Electric Power Sector ^c	Total	Imports	Exports
973	1,093	1,021	1,020	1,024	1,021	1,026	1,023
974	1.097	1.024	1.024	1.022	1.024	1.027	1.016
975	1.095	1,021	1,020	1,026	1,021	1,026	1.014
976	1,093	1,020	1,019	1,023	1,020	1,025	1,013
977	1.093	1.021	1.019	1.029	1.021	1.026	1.013
978	1,088	1,019	1,016	1,034	1,019	1,030	1,013
979	1,092	1,021	1,018	1,035	1,021	1,037	1,013
980	1,098	1,026	1,024	1,035	1,026	1,022	1,013
	1,103	1,027	1,025	1,035	1,027	1,014	1,011
	1,107	1,028	1,026	1,036	1,028	1,018	1,011
83	1,115	1,031	1,031	1,030	1,031	1,024	1,010
84	1,109	1,031	1,030	1,035	1,031	1,005	1,010
85	1,112	1,032	1,031	1,038	1.032	1,002	1.011
86	1,110	1,030	1,029	1,034	1,030	997	1,008
87	1,112	1,031	1,031	1,032	1,031	999	1,011
88	1,109	1.029	1.029	1.028	1.029	1.002	1.018
89	1,107	1,031	1,031	^c 1,028	1,031	1,004	1,019
90	1,105	1,029	1,030	1,027	1,029	1,012	1,018
91	1,108	1,030	1,031	1,025	1,030	1,014	1,022
92	1,110	1,030	1,031	1,025	1,030	1,011	1,018
93	1,106	1,027	1,028	1,025	1,027	1,020	1,016
94	1,105	1,028	1,029	1,025	1,028	1,022	1,011
95	1,106	1,026	1,027	1,021	1,026	1,021	1,011
96	1,109	1,026	1,027	1,020	1,026	1,022	1,011
97	1,107	1,026	1,027	1,020	1,026	1,023	1,011
98	1,109	1,031	1,033	1,024	1,031	1,023	1,011
99	1,107	1,027	1,028	1,022	1,027	1,022	1,006
00	1,107	1,025	1,026	1,021	1,025	1,023	1,006
01	1,105	1,028	1,029	1,026	1,028	1,023	1,010
02	1,103	1,024	1,025	1,020	1,024	1,022	1,008
03	1,103	1,028	1,029	1,025	1,028	1,025	1,009
04	1,104	1,026	1,026	1,027	1,026	1,025	1,009
05	1,104	1,028	1,028	1,028	1,028	1,025	1,009
06	1,103	1,028	1,028	1,028	1,028	1,025	1,009
07	1,102	1,027	1,027	1,027	1,027	1,025	1,009
	1,100	1,027	1,027	1,027	1,027	1,025	1,009
	1,101	1,025	1,025	1,025	1,025	1,025	1,009
)10	1,097	1,023	1,023	1,022	1,023	1,025	1,009
)11	E 1,097	E 1,023	E 1,023	E 1,022	E 1,023	^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. 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					Coal Coke			
				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	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
1979	22.434	NA	22.543	26.790	22.690	21.295	21.947	25.000	26.384	24.800
1981	22.308	NA	22.343	26.794	22.585	21.085	21.713	25.000	26.160	24.800
1981	22.239		22.695	26.794	22.565	21.085	21.674	25.000	26.223	24.800
1982		NA	22.695		22.691					24.800
	22.052	NA		26.798		21.133	21.576	25.000	26.291	
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
2003	20.433	12.266	22.324	27.425	22.400	19.980	20.290	25.000	26.108	24.800
2004	20.348	12.093	22.324	26.279	22.473	19.988	20.290	25.000	25.494	24.800
2005	20.348	12.093	22.066	26.279	22.178	19.988	20.246	25.000	25.494 25.453	24.800
2006	20.310	12.080	22.066	26.329	22.050	19.909	20.161	25.000	25.455	24.800
2008	20.208	12.121	21.887	26.281	22.348	19.713	19.977	25.000	25.399	24.800
2009	19.969	11.862	22.059	26.334	21.893	19.521	19.742	25.000	25.633	24.800
2010 ^P	20.192	11.755	21.254	26.296	21.909	19.612	19.858	25.000	25.713	24.800
2011 ^E	20.192	11.755	21.254	26.296	21.909	19.612	19.858	25.000	25.713	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 ^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

^c Includes transportation. Excludes 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 tuilities 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.

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 A6. Approximate Heat Rates for Electricity, and Heat Content of Electricity

		Approximate Heat Rates ^a for Electricity Net Generation						
		Fossil	Fuels ^b			Noncombustible		
	Coal ^c	Petroleum ^d	Natural Gas ^e	Total Fossil Fuels ^{f,g}	Nuclear ^h	Renewable Energy ^{g,i}	Heat Content ^j o Electricity ^k	
973	NA	NA	NA	10.389	10.903	10.389	3,412	
974		NA	NA	10,309	11,161	10,442	3,412	
975		NA	NA	10,406	11,013	10,406	3,412	
976		NA	NA	10,400	11.047	10,373	3,412	
		NA	NA		10.769			
977				10,435	-,	10,435	3,412	
978		NA	NA	10,361	10,941	10,361	3,412	
979		NA	NA	10,353	10,879	10,353	3,412	
980		NA	NA	10,388	10,908	10,388	3,412	
981		NA	NA	10,453	11,030	10,453	3,412	
982		NA	NA	10,454	11,073	10,454	3,412	
983		NA	NA	10,520	10,905	10,520	3,412	
984		NA	NA	10,440	10,843	10,440	3,412	
985		NA	NA	10,447	10,622	10,447	3,412	
986		NA	NA	10,446	10,579	10,446	3,412	
987		NA	NA	10,419	10,442	10,419	3,412	
988	NA	NA	NA	10,324	10,602	10,324	3,412	
989		NA	NA	10,432	10,583	10,432	3,412	
990	NA	NA	NA	10.402	10.582	10.402	3.412	
991		NA	NA	10.436	10.484	10.436	3.412	
992		NA	NA	10.342	10.471	10.342	3.412	
993		NA	NA	10,309	10.504	10,309	3.412	
994		NA	NA	10,316	10,452	10,316	3,412	
995		NA	NA	10.312	10,507	10,312	3.412	
996		NA	NA	10,340	10,503	10,340	3,412	
997		NA	NA	10,213	10,494	10.213	3.412	
998		NA	NA	10,197	10,491	10,197	3.412	
999	NA	NA	NA	10,137	10,451	10,226	3.412	
000	NA	NA	NA	10,220	10,430	10,201	3,412	
		10.742	10,051	^b 10.333	10,429	10,333	3,412	
001 002		10,742	9,533	10,333	-, -	10,333	3,412	
					10,442			
003		10,610	9,207	10,241	10,421	10,241	3,412	
004		10,571	8,647	10,022	10,427	10,022	3,412	
005		10,631	8,551	9,999	10,436	9,999	3,412	
006	- ,	10,809	8,471	9,919	10,436	9,919	3,412	
		10,794	8,403	9,884	10,485	9,884	3,412	
		11,015	8,305	9,854	10,453	9,854	3,412	
2009		10,923	8,160	9,760	10,460	9,760	3,412	
2010		10,984	8,185	9,756	10,452	9,756	3,412	
011	^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.

^c Includes anthracite, bituminous coal, subbituminous coal, lignite, and, beginning in 2002, waste coal and coal synfuel.

^d Includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.

e 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).

⁹ 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.

Used as the thermal conversion factor for nuclear electricity net generation.

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.

^j 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. 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 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. However, because U.S. commerce involves other nations, most of which use metric units of measure, the U.S. Government is committed to the transition to the metric system, as stated in the Metric Conversion Act of 1975 (Public Law 94–168), amended by the Omnibus Trade and Competitiveness Act of 1988 (Public Law 100–418), and Executive Order 12770 of July 25, 1991.

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).

U.S. Unit		Equivalent in Metric Units				
1 short ton (2.000 lb)	=	0.907 184 7	metric tons (t)			
	=	1.016 047	metric tons (t)			
	=	0.453 592 37ª	kilograms (kg)			
	=	0.384 647 ^b	kilograms uranium (kgU)			
1 ounce, avoirdupois (avdp oz)	=	28.349 52	grams (g)			
1 barrel of oil (bbl)	=	0.158 987 3	cubic meters (m ³)			
1 cubic yard (yd ³)	=	0.764 555	cubic meters (m ³)			
1 cubic foot (ft ³)	=	0.028 316 85	cubic meters (m ³)			
1 U.S. gallon (gal)	=	3.785 412	liters (L)			
1 ounce, fluid (fl oz)	=	29.573 53	milliliters (mL)			
1 cubic inch (in ³)	=	16.387 06	milliliters (mL)			
1 mile (mi)	=	1.609 344ª	kilometers (km)			
1 yard (yd)	=	0.914 4ª	meters (m)			
1 foot (ft)	=	0.304 8ª	meters (m)			
1 inch (in)	=	2.54ª	centimeters (cm)			
1 acre	=	0.404 69	hectares (ha)			
1 square mile (mi ²)	=	2.589 988	square kilometers (km ²)			
1 square yard (yd ²)	=	0.836 127 4	square meters (m ²)			
1 square foot (ft ²)	=	0.092 903 04ª	square meters (m ²)			
1 square inch (in ²)	=	6.451 6ª	square centimeters (cm ²)			
1 British thermal unit (Btu)°	=	1,055.055 852 62ª	joules (J)			
1 calorie (cal)	=	4.186 8ª	joules (J)			
1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)			
32 degrees Fahrenheit (°F)	=	0ª	degrees Celsius (°C)			
212 degrees Fahrenheit (°F)	=	100ª	degrees Celsius (°C)			
	 1 short ton (2,000 lb) 1 long ton 1 pound (lb) 1 pound uranium oxide (lb U₃O₈) 1 ounce, avoirdupois (avdp oz) 1 barrel of oil (bbl) 1 cubic yard (yd³) 1 cubic foot (ft³) 1 U.S. gallon (gal) 1 ounce, fluid (fl oz) 1 cubic inch (in³) 1 mile (mi) 1 yard (yd) 1 foot (ft) 1 inch (in) 1 acre 1 square mile (mi²) 1 square foot (ft²) 1 square inch (in²) 1 British thermal unit (Btu)^c 1 calorie (cal) 1 kilowatthour (kWh) 32 degrees Fahrenheit (°F) 	1 short ton $(2,000 \text{ lb})$ =1 long ton=1 pound (lb)=1 pound uranium oxide (lb U ₃ O ₈)=1 ounce, avoirdupois (avdp oz)=1 barrel of oil (bbl)=1 cubic yard (yd ³)=1 cubic foot (ft ³)=1 cubic foot (ft ³)=1 ounce, fluid (fl oz)=1 cubic inch (in ³)=1 mile (mi)=1 yard (yd)=1 foot (ft)=1 acre=1 square mile (mi ²)=1 square foot (ft ²)=1 square inch (in ²)=1 kilowatthour (kWh)=32 degrees Fahrenheit (°F)=	1 short ton (2,000 lb) = 0.907 184 7 1 long ton = 1.016 047 1 pound (lb) = 0.453 592 37 ^a 1 pound uranium oxide (lb U ₃ O ₈) = 0.884 647 ^b 1 ounce, avoirdupois (avdp oz) = 28.349 52 1 barrel of oil (bbl) = 0.158 987 3 1 cubic yard (yd ³) = 0.764 555 1 cubic foot (ft ³) = 0.028 316 85 1 U.S. gallon (gal) = 3.785 412 1 ounce, fluid (fl oz) = 29.573 53 1 cubic inch (in ³) = 16.387 06 1 mile (mi) = 1.609 344 ^a 1 yard (yd) = 0.304 8 ^a 1 inch (in) = 2.54 ^a 1 acre = 0.404 69 1 square mile (mi ²) = 0.836 127 4 1 square foot (ft ²) = 0.092 903 04 ^a 1 square inch (in ²) = 1.055.055 852 62 ^a 1 calorie (cal) = 1.055.055 852 62 ^a 1 calorie (cal) = 3.6 ^a 32 degrees Fahrenheit (°F) = 0 ^a			

^aExact conversion.

^bCalculated by the U.S. Energy Information Administration.

^eThe Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. ^eTo 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.

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.

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	Μ	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	Y	10 ⁻²⁴	yocto	у

Table B2. Metric Prefixes

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)	=	1,000ª	kilograms (kg)		
Wood	1 cord (cd)	=	1.25 ^b	shorts tons		
	1 cord (cd)	=	128ª	cubic feet (ft ³)		

^aExact conversion.

^bCalculated by the U.S. Energy Information Administration.

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

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.

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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 (C_4H_8) 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, nonpoisonous 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 (C_2H_6) . 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 issued 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, $(CH_3)_3COCH_3$, 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 selfservice.

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 heavywalled 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 woodderived 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 energy. 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 (C_3H_6) 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 horse-power.

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.