December 2013 Monthly Energy Review





Monthly Energy Review

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

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

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

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

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Data Displayed: For tables beginning in 1949, annual data are usually displayed only in 5-year increments between 1950 and 2000 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: In 2013, EIA expanded the MER to incorporate annual data as far back as 1949 in those data tables that were previously published in both the *Annual Energy Review (AER)* and MER. Analysts may wish to use the data in this report in conjunction with the AER which offers annual data beginning in 1949 for many related supplemental data series that are not 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 no later than the last work day of the month at http://www.eia.gov/totalenergy/data/monthly.

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Monthly Energy Review December 2013

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

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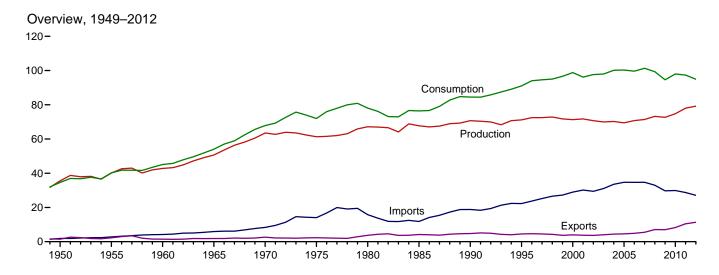
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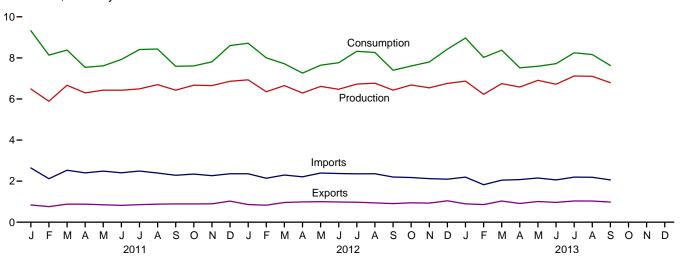
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1. Energy Overview

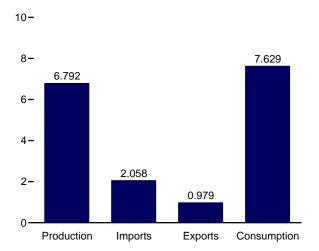
Figure 1.1 Primary Energy Overview (Quadrillion Btu)



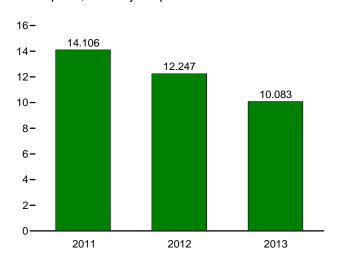
Overview, Monthly







Net Imports, January-September



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

Table 1.1 Primary Energy Overview

		Prod	uction			Trade				Consu	mption	
	Fossil Fuels ^a	Nuclear Electric Power	Renew- able Energy ^b	Total	Imports	Exports	Net Imports ^c	Stock Change and Other ^d	Fossil Fuels ^e	Nuclear Electric Power	Renew- able Energy ^b	Total ^f
1950 Total 1955 Total	32.563 37.364	0.000	2.978 2.784	35.540 40.148	1.913 2.790	1.465 2.286	0.448 .504	-1.372 444	31.632 37.410	0.000	2.978 2.784	34.616 40.208
1960 Total	39.869	.006	2.928	42.803	4.188	1.477	2.710	427	42.137	.006	2.928	45.086
1965 Total	47.235	.043	3.396	50.674	5.892	1.829	4.063	722	50.577	.043	3.396	54.015
1970 Total	59.186	.239	4.070	63.495	8.342	2.632	5.709	-1.367	63.522	.239	4.070	67.838
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 57.540	6.104 7.075	6.041 6.558	70.705 71.174	18.817 22.260	4.752 4.511	14.065 17.750	284 2.105	72.332 77.259	6.104 7.075	6.041 6.560	84.485 91.029
1995 Total 2000 Total	57.340 57.366	7.862	6.104	71.174	28.973	4.006	24.967	2.105	84.731	7.862	6.106	98.814
2001 Total	58.541	8.029	5.164	71.735	30.157	3.771	26.386	-1.953	82.902	8.029	5.163	96.168
2002 Total	56.834	8.145	5.734	70.713	29.408	3.669	25.739	1.193	83.699	8.145	5.729	97.645
2003 Total	56.033	R 7.960	5.947	R 69.939	31.061	4.054	27.007	.998	84.014	R 7.960	5.948	97.943
2004 Total	55.942	R 8.223	6.069	R 70.234	33.544	4.434	29.110	.817	85.819	R 8.223	6.081	R 100.161
2005 Total	55.044	8.161	6.229	69.434	34.709	4.560	30.149	.698	85.794	8.161	6.242	100.282
2006 Total	55.938	8.215	6.599	R 70.751	34.679	4.873	29.806	929	84.702	8.215	6.649	R 99.629
2007 Total	56.436	R 8.459	6.528	R 71.422	34.704	5.483	29.220	.675	86.211	R 8.459	6.541	R 101.317
2008 Total	57.587	R 8.426	7.219	R 73.233	32.993	7.063	25.931	.129	83.551	R 8.426	7.202	R 99.292
2009 Total	56.670	R 8.355	7.655	R 72.680	29.706	6.966	22.740	824	78.487	R 8.355	7.638	R 94.596
2010 Total	58.207	8.434	8.128	74.769	29.877	8.234	21.643	1.604	81.412	8.434	8.081	98.016
2011 January	4.982	.761	.747	6.490	2.642	.841	1.801	1.035	7.824	.761	.731	9.326
February	4.501	.678	.710	5.889	2.116	.759	1.357	.890	6.747	.678	.703	8.136
March	5.165	.687	.816	6.668	2.528	.880	1.648	.065	6.880	.687	.806	8.381
April	4.912	.571	.813	6.296	2.401	.878	1.523	280	6.157	.571	.804	7.539
May	5.002 4.920	.597 .683	.832 .825	6.431 6.427	2.487 2.407	.847 .818	1.640 1.588	459 091	6.178 6.407	.597 .683	.826 .824	7.613 7.925
June July	4.941	.757	.792	6.490	2.493	.854	1.639	.278	6.852	.757	.782	8.408
August	5.209	.746	.742	6.697	2.395	.879	1.515	.217	6.927	.746	.741	8.430
September	5.054	.700	.677	6.431	2.285	.892	1.393	235	6.209	.700	.670	7.589
October	5.302	.663	.708	6.673	2.344	.891	1.453	515	6.240	.663	.699	7.611
November	5.238	.675	.738	6.650	2.264	.894	1.370	212	6.398	.675	.727	7.808
December	5.339	.752	.770	6.861	2.358	1.026	1.333	.408	7.078	.752	.761	8.602
Total	60.563	8.269	9.170	78.002	28.720	10.459	18.261	1.103	79.896	8.269	9.074	97.366
2012 January	R 5.402	R .758	R.773	R 6.933	2.361	.858	1.502	.276	R 7.190	R .758	R .752	R 8.711
February	R 4.987	R.669	R .694	R 6.350	2.142	.830	1.313	R .340	R 6.642	R .669	R.682	R 8.003
March	R 5.213	R .647	R .793	6.653	2.296	.960	1.336	R274	R 6.272	R .647	R .786	R 7.715
April	^R 4.940 ^R 5.155	.585 ^R .651	R .766 R .807	R 6.291 R 6.612	2.211 2.392	.987 1.000	1.224 1.393	R257 R359	^R 5.898 ^R 6.177	.585 ^R .651	R .762 R .804	^R 7.258 ^R 7.646
May June	R 5.155	R .683	R .773	R 6.473	2.392	.985	1.386	R092	R 6.296	R .683	R .773	R 7.766
July	R 5.257	R .724	R .744	R 6.725	2.354	.973	1.381	R .217	R 6.835	R.724	R .745	R 8.323
August	R 5.325	R .729	R .713	R 6.768	2.361	.940	1.420	R .076	R 6.798	R .729	R.719	R 8.264
September	R 5.110	R .676	R .645	R 6.431	2.199	.906	1.293	R326	R 6.064	R .676	R .644	R 7.398
October	R 5.377	R .626	R .679	R 6.681	2.176	.944	1.232	R307	R 6.284	R .626	R .684	^R 7.606
November	^R 5.264	R .594	R .684	R 6.543	2.119	.930	1.189	R .068	6.507	R .594	R.684	R 7.799
December	^R 5.270 ^R 62.317	^R .719 ^R 8.062	.767 R o o o o	^R 6.756 ^R 79.216	2.093	1.043 11.357	1.050	R .620	^R 6.931 ^R 77.894	^R .719 ^R 8.062	.764 8 .798	R 8.425
Total			R 8.838		27.075		15.718					
2013 January	R 5.340	R .748	R .780	R 6.869	2.194	.894	1.300	R .802	7.429	R .748	R .779	R 8.970
February	R 4.890	R .644	R .693	R 6.227	1.826	.858	.968	R .826	6.670	^R .644 ^R .660	R .694	^R 8.021 ^R 8.377
March	^R 5.334 ^R 5.192	R .660 R .595	R .756 R .796	^R 6.750 ^R 6.583	2.047 2.074	1.031 .912	1.016 1.162	R .612 R230	6.947 6.112	N.660 R.595	R .756 R .798	R 7.516
April May	R 5.192	R .659	R .845	R 6.911	2.074	1.008	1.162	R460	6.077	R .659	R .845	R 7.596
June	R 5.216	R .696	R .807	R 6.720	2.154	.964	1.146	R093	6.199	R .696	R .808	R 7.721
July	5.580	R .739	R .799	R 7.117	2.197	1.036	1.161	R027	6.697	R .739	R .796	R 8.251
August	R 5.635	R .748	R .723	7.106	2.186	1.029	1.158	R100	6.676	R .748	R .721	R 8.163
September	E 5.421	.690	.681	E 6.792	E 2.058	E.979	E 1.079	242	E 6.240	.690	.684	E 7.629
9-Month Total	E 48.016	6.178	6.881	E 61.074	E 18.794	^E 8.711	E 10.083	1.088	^E 59.048	6.178	6.881	^E 72.245
2012 9-Month Total	46.406	6.123	6.708	59.236	20.687	8.439	12.247	399	58.172	6.123	6.665	71.084
2011 9-Month Total	44.685	6.180	6.954	57.818	21.754	7.648	14.106	1.421	60.180	6.180	6.888	73.345

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

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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

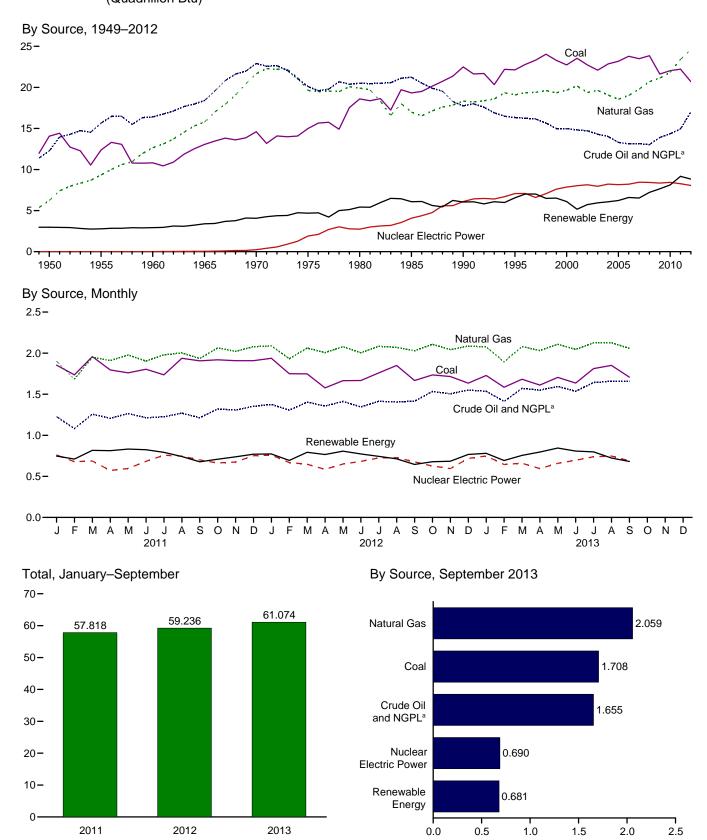
Sources: • Production: Table 1.2. • Trade: Tables 1.4a and 1.4b. • Stock Change and Other: Calculated as consumption minus production and net imports.

• Consumption: Table 1.3.

Selected years of data from 1949 through 1972 have been added to this table. For all years of data from 1949 through 2013, see the "Web Page" cited above.

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

Figure 1.2 Primary Energy Production (Quadrillion Btu)



^a Natural gas plant liquids.

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

Table 1.2 Primary Energy Production by Source

		F	ossil Fuels					-	Renewabl	e Energy	a		
	Coalb	Natural Gas (Dry)	Crude Oil ^c	NGPLd	Total	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total
1950 Total 1955 Total 1965 Total 1965 Total 1967 Total 1970 Total 1970 Total 1970 Total 1980 Total 1980 Total 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2007 Total 2008 Total 2007 Total 2008 Total 2009 Total 2009 Total	12.370 10.817 13.055 14.607 14.989 18.598 19.325 22.488 22.130 22.735 23.547 22.732 22.094 22.852 23.790 23.493 23.851 21.624	6.233 9.345 12.656 15.775 21.666 19.640 19.908 16.980 18.326 19.662 20.166 19.382 19.633 19.074 18.556 19.022 19.786 20.703 21.139 21.806	11.447 14.410 14.935 16.521 20.401 17.729 18.249 18.992 15.571 13.887 12.358 12.282 12.160 11.960 11.550 10.969 10.771 10.748 10.613 11.333 11.581	0.823 1.240 1.461 1.883 2.512 2.374 2.254 2.241 2.175 2.442 2.611 2.5547 2.559 2.346 2.334 2.356 2.409 2.419 2.574 2.781	32.563 37.364 39.869 47.235 59.186 54.733 58.560 57.539 58.540 57.366 58.541 56.834 56.033 55.942 55.044 55.938 56.436 57.587 56.670 58.207	0.000 .000 .006 .043 .239 1.900 2.739 4.076 6.104 7.075 7.862 8.145 R 7.960 8 8.223 8.161 8.215 R 8.459 R 8.459 R 8.435 8 8.434	1.415 1.360 1.608 2.059 2.634 3.155 2.990 3.205 2.811 2.689 2.793 2.688 2.703 2.868 2.703 2.869 2.446 2.511 2.551	NA (s) .002 .006 .034 .053 .097 .171 .152 .164 .171 .173 .178 .181 .181 .186 .192 .200 .208	NA NA NA NA NA (s) .059 .066 .063 .063 .063 .063 .063 .063 .063	NA NA NA NA NA (s) .023 .057 .070 .105 .113 .142 .264 .341 .546 .721	1.562 1.424 1.320 1.335 1.431 1.499 2.475 3.016 2.735 3.099 3.006 2.705 2.805 2.998 3.104 3.216 3.480 3.881 3.967 4.332	2.978 2.784 2.928 3.396 4.070 4.687 5.428 6.084 6.041 6.558 6.104 5.734 5.947 6.229 6.529 6.528 7.219 8.7.25 8.128	35.540 40.148 42.803 50.674 63.495 61.320 67.705 67.698 70.705 71.174 71.332 70.713 69.939 R 70.234 69.434 R 70.751 R 71.422 R 73.233 R 72.680 74.769
Petron January February March April May June July August September October November December Total	1.958 1.795 1.760 1.804 1.736 1.937 1.907 1.919 1.909 1.908	1.901 1.684 1.950 1.909 1.977 1.903 1.979 2.003 1.935 2.063 2.022 2.079 23.406	.986 .875 1.007 .966 1.010 .972 .975 1.016 .973 1.057 1.046 1.084	.241 .207 .250 .241 .254 .251 .254 .239 .263 .263 .268 2.970	4.982 4.501 5.165 4.912 5.002 4.920 4.941 5.209 5.054 5.302 5.238 5.339 60.563	.761 .678 .687 .571 .597 .683 .757 .746 .700 .663 .675 .752	.248 .234 .303 .303 .317 .312 .304 .250 .208 .192 .201 .231	.018 .017 .018 .017 .018 .017 .018 .018 .017 .018 .018	.013 .014 .014 .015 .015 .015 .015 .014 .015	.083 .102 .102 .121 .114 .107 .073 .073 .067 .102 .121 .104	.384 .345 .379 .358 .368 .374 .383 .386 .371 .381 .385 .404	.747 .710 .816 .813 .832 .825 .792 .742 .677 .708 .770 9.170	6.490 5.889 6.668 6.296 6.431 6.427 6.490 6.697 6.431 6.653 6.650 6.861 78.002
2012 January February March April May June July August September October November December Total	R1.750 R1.748 R1.577 R1.664 R1.667 R1.760 1.850 R1.666 R1.735 R1.716	E 2.089 E 1.931 E 2.062 E 2.007 E 2.079 E 2.084 E 2.070 E 2.029 E 2.108 E 2.043 E 2.086 E 24.592	1.103 R 1.049 1.132 R 1.094 R 1.138 R 1.087 R 1.148 R 1.143 R 1.248 R 1.225 R 1.274 R 13.774	.272 .256 .272 .263 .273 .258 .266 .271 .272 .286 .280 .276 3.246	R 5.402 R 4.987 R 5.213 R 4.940 R 5.155 R 5.017 R 5.257 R 5.325 R 5.110 R 5.377 R 5.264 R 5.270 R 62.317	R .758 R .669 R .647 .585 R .651 R .683 R .724 R .729 R .676 R .626 R .594 R .719	R .220 R .193 R .247 R .250 R .273 R .254 R .252 R .219 R .168 R .178 R .219	R .017 R .016 R .018 R .017 R .018 R .017 R .018 R .018 R .018 R .018 R .018 R .019 R .019	.017 .019 .019 .021 .021 .021 .020 .020 R .020 R .020 R .234	R .130 R .105 R .133 R .121 R .119 R .114 R .084 .081 .084 .081 R .120 R .111 .138 R 1.340	R .388 R .363 R .377 R .358 R .376 R .369 R .375 R .356 R .358 R .358 R .372	R .773 R .694 R .793 R .766 R .807 R .773 R .744 R .713 R .645 R .6679 R .684 .767	R 6.933 R 6.350 6.653 R 6.291 R 6.612 R 6.473 R 6.725 R 6.768 R 6.431 R 6.543 R 6.543 R 6.756
2013 January	1.682 1.611 1.705 1.635 1.812 1.851 1.708 15.318	E 2.076 E 1.894 E 2.081 E 2.032 E 2.108 E 2.044 E 2.126 E 2.126 F 2.059 E 18.545	RE 1.266 RE 1.158 RE 1.289 RE 1.276 RE 1.312 RE 1.260 RE 1.351 R1.354 E 1.356 E 11.623	.270 .253 .283 .273 .283 .276 .291 .303 .299 2.530	R 5.340 R 4.890 R 5.334 R 5.192 R 5.407 R 5.216 5.580 E 5.421 E 48.016	R .748 R .644 R .660 R .595 R .659 R .696 R .739 R .748 .690	R .239 R .195 R .196 R .236 R .272 R .260 R .259 R .206 .161 2.023	.019 R .017 .019 R .018 .019 .019 .019 .019 .018 .168	R .022 .022 .026 .026 .027 R .027 .027 .029 .028 .235	R .138 R .132 R .149 R .165 R .156 R .131 R .106 R .092 .112 1.180	.361 .327 .367 .352 .371 .370 .387 .378 .363 3.276	R .780 R .693 R .756 R .796 R .845 R .807 R .799 R .723 .681 6.881	R 6.869 R 6.227 R 6.750 R 6.583 R 6.911 R 6.720 R 7.117 7.106 E 6.792
2012 9-Month Total 2011 9-Month Total		E 18.355 17.242	10.028 8.780	2.404 2.177	46.406 44.685	6.123 6.180	2.075 2.479	.157 .159	.175 .129	.971 .841	3.330 3.347	6.708 6.954	59.236 57.818

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.
F=Forecast.

Selected years of data from 1949 through 1972 have been added to this table. For all years of data from 1949 through 2013, see the "Web Page" cited above.

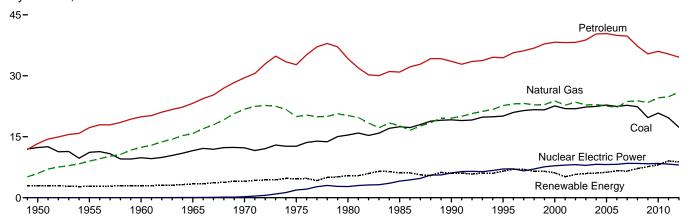
Notes: • See "Primary Energy Production" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

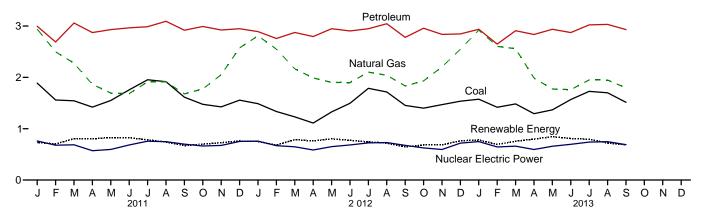
Figure 1.3 Primary Energy Consumption (Quadrillion Btu)

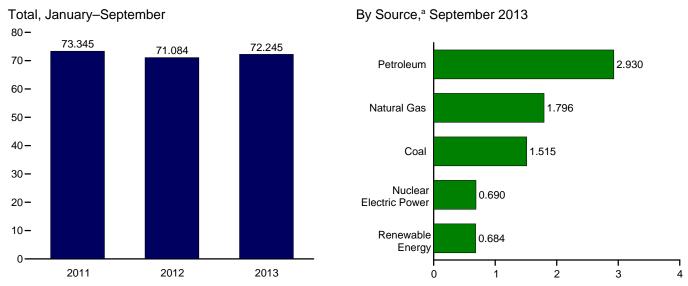
By Source, a 1949-2012



By Source,^a Monthly

4-





^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

(Qu	auriiiori	Dia)										
		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
1950 Total	12.347	5.968	13.315	31.632	0.000	1.415	NA	NA	NA	1.562	2.978	34.616
1955 Total	11.167	8.998	17.255	37.410	.000	1.415	NA NA	NA NA	NA NA	1.424	2.784	40.208
1960 Total	9.838	12.385	19.919	42.137	.006	1.608	(s)	NA	NA	1.320	2.928	45.086
1965 Total	11.581	15.769	23.246	50.577	.043	2.059	.002	NA	NA	1.335	3.396	54.015
1970 Total	12.265	21.795	29.521	63.522	.239	2.634	.006	NA	NA	1.431	4.070	67.838
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 22.580	22.671 23.824	34.438 38.262	77.259 84.731	7.075 7.862	3.205 2.811	.152 .164	.069 .066	.033 .057	3.101 3.008	6.560 6.106	91.029 98.814
2000 Total 2001 Total	21.914	23.624	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	R 7.960	2.793	.173	.062	.113	2.807	5.948	97.943
2004 Total	22.466	22.923	40.292	85.819	R 8.223	2.688	.178	.063	.142	3.010	6.081	R 100.161
2005 Total	22.797	22.565	40.388	85.794	8.161	2.703	.181	.063	.178	3.117	6.242	100.282
2006 Total	22.447	22.239	39.955	84.702	8.215	2.869	.181	.068	.264	3.267	6.649	R 99.629
2007 Total	22.749	23.663	39.774	86.211	R 8.459	2.446	.186	.076	.341	3.492	6.541	R 101.317
2008 Total	22.387	23.843	37.280	83.551	R 8.426	2.511	.192	.089	.546	3.865	7.202	R 99.292
2009 Total 2010 Total	19.691 20.834	23.416 24.575	35.403 36.010	78.487 81.412	R 8.355 8.434	2.669 2.539	.200 .208	.098 .126	.721 .923	3.950 4.285	7.638 8.081	^R 94.596 98.016
	1.888	2.940	2.996	7.824	.761	.248	.018	.013	.083	.368	.731	9.326
2011 January February	1.560	2.497	2.689	6.747	.678	.234	.018	.013	.102	.338	.703	8.136
March	1.544	2.276	3.058	6.880	.687	.303	.018	.013	.102	.368	.806	8.381
April	1.421	1.863	2.872	6.157	.571	.303	.017	.014	.121	.349	.804	7.539
May	1.550	1.695	2.931	6.178	.597	.317	.018	.015	.114	.362	.826	7.613
June	1.757	1.684	2.964	6.407	.683	.312	.017	.015	.107	.373	.824	7.925
July	1.953	1.913	2.986	6.852	.757	.304	.018	.015	.073	.373	.782	8.408
August	1.916	1.914	3.093	6.927	.746	.250	.018	.015	.073	.385	.741	8.430
September	1.614	1.677	2.917	6.209	.700	.208	.017	.014	.067	.364	.670	7.589
October	1.475 1.425	1.773 2.053	2.992 2.922	6.240 6.398	.663 .675	.192 .201	.018 .018	.015 .014	.102 .121	.372 .374	.699 .727	7.611 7.808
November December	1.556	2.574	2.922	7.078	.752	.231	.018	.014	.104	.394	.761	8.602
Total	19.658	24.860	35.368	79.896	8.269	3.103	.212	.171	1.168	4.420	9.074	97.366
2012 January	R 1.488	2.809	2.891	R 7.190	R .758	R .220	R .017	.017	R .130	R .367	R .752	R 8.711
February	1.335	R 2.550	2.757	R 6.642	R .669	R .193	R .016	.017	R .105	R .351	R .682	R 8.003
March	R 1.230	R 2.165	2.874	R 6.272	R .647	R .247	R .018	.019	R .133	R .370	R.786	R 7.715
April	R 1.110	R 1.989	2.794	R 5.898	.585	R .250	R .017	.019	R .121	R .354	R .762	R 7.258
May	^R 1.326 ^R 1.495	R 1.903 R 1.898	2.947 2.904	^R 6.177 ^R 6.296	R .651 R .683	R .273 R .254	R .018 R .017	.021 .021	R .119 R .114	R .373 R .367	R .804 R .773	^R 7.646 ^R 7.766
June July	R 1.786	R 2.102	2.944	R 6.835	R .724	R .252	R.018	.021	R .084	R .369	R .745	R 8.323
August	R 1.714	R 2.040	3.044	R 6.798	R .729	R .219	R .018	.021	.081	R .380	R .719	R 8.264
September	1.452	R 1.834	2.780	R 6.064	R .676	R .168	R .018	.020	.084	R .355	R .644	R 7.398
October	R 1.400	R 1.931	2.956	R 6.284	R .626	.157	R.018	R .020	R .120	R .368	R .684	R 7.606
November	R 1.469	R 2.204	2.837	6.507	R .594	R .178	R .018	.019	R .111	R .358	R .684	R 7.799
December	1.535	R 2.549	2.847	R 6.931	R.719	R .219	R .019	R .020	.138	R .369	.764	R 8.425
Total	R 17.339	R 25.974	34.577	R 77.894	R 8.062	R 2.629	R .212	R .234	R 1.340	R 4.383	R 8.798	^R 94.915
2013 January	1.574	2.920	2.936	7.429	^R .748 ^R .644	R .239 R .195	.019 R .017	R .022	R .138 R .132	.360	R .779 R .694	^R 8.970 ^R 8.021
February March	1.417 1.483	2.604 2.557	2.648 2.909	6.670 6.947	R .660	R.195	.017	.022 .026	R .149	.327 .367	R .756	R 8.377
April	1.292	1.986	2.836	6.112	R .595	R .236	R .018	.026	R 165	.353	R 798	R 7.516
May	1.368	1.773	2.937	6.077	R .659	R .272	.019	027	K 156	.372	R .845	R 7.596
June	1.569	1.761	2.872	6.199	R 696	R .260	.019	R .027	R 131	.371	R 808	^R 7.721
July	1.727	1.950	3.022	6.697	R .739	R .259	.019	.027	^R .106	.385	R.796	^R 8.251
August	1.699	1.947	3.032	6.676	R .748	R .206	.019	.029	R .092	.375	R .721	R 8.163
September	1.515	F 1.796	2.930	E 6.240	.690	.161	.018	.028	.112	.366	.684	E 7.629
9-Month Total	13.644	E 19.294	26.122	E 59.048	6.178	2.023	.168	.235	1.180	3.276	6.881	E 72.245
2012 9-Month Total 2011 9-Month Total	12.936 15.202	19.289 18.459	25.938 26.507	58.172 60.180	6.123 6.180	2.075 2.479	.157 .159	.175 .129	.971 .841	3.288 3.280	6.665 6.888	71.084 73.345

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

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

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

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

Selected years of data from 1949 through 1972 have been added to this table. For all years of data from 1949 through 2013, see the "Web Page" cited above.

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 biotuble are included in Plainagen." petroleum—biofuels are included in "Biomass."

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

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.

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

Imports by Source, 1949–2012
353025201510-

1980

1985

1990

1995

Exports by Source, 1949-2012

1960

1965

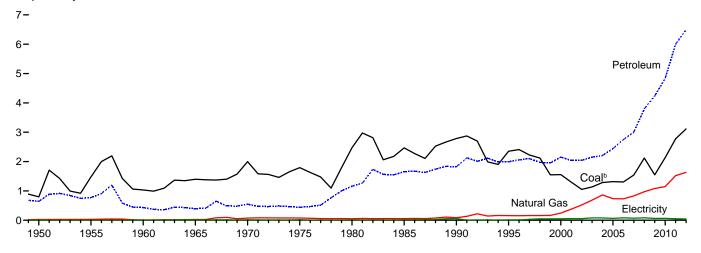
1970

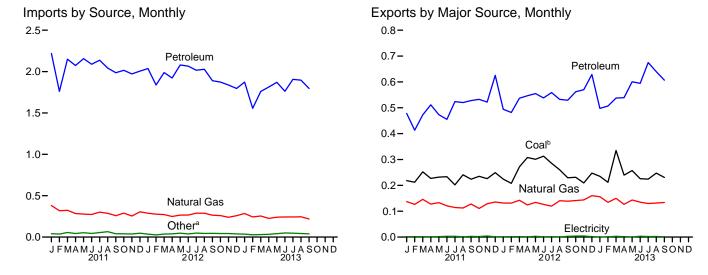
1975

1955

5-

1950





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

^b Includes coal coke.

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

Natural Gas

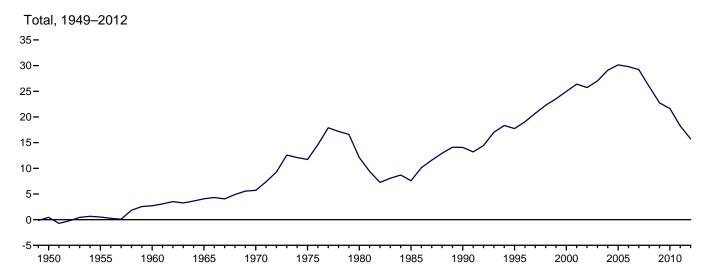
2005

2010

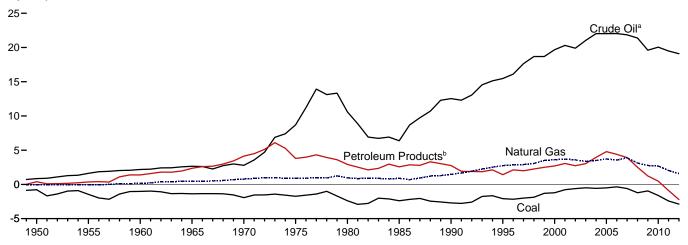
Othera

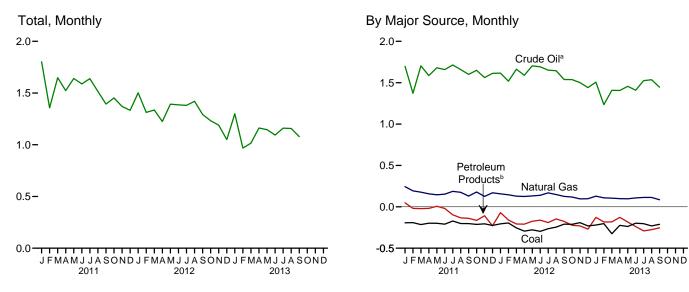
2000

Figure 1.4b Primary Energy Net Imports









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

blending components. Does not include biofuels.

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

Sources: Tables 1.4a and 1.4b.

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

Table 1.4a Primary Energy Imports by Source

					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Total	Biofuels ^c	Electricity	Total
1950 Total	0.009	0.011	0.000	1.056	0.830	1.886	NA	0.007	1.913
1955 Total	.008	.003	.011	1.691	1.061	2.752	NA	.016	2.790
1960 Total	.007	.003	.161	2.196	1.802	3.999	NA	.018	4.188
1965 Total	.005	.002	.471	2.654	2.748	5.402	NA	.012	5.892
1970 Total	.001	.004	.846	2.814	4.656	7.470	NA	.021	8.342
1975 Total	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032
1980 Total	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796
1985 Total	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781
1990 Total	.067	.019	1.551	12.766	4.351	17.117	NA	.063	18.817
1995 Total	.237	.095	2.901	15.669	3.211	18.881	.001	.146	22.260
2000 Total	.313	.094	3.869	19.783	4.749	24.531	(s)	.166	28.973
2001 Total	.495	.063	4.068	20.348	5.051	25.398	.002	.131	30.157
2002 Total	.422	.080	4.104	19.920	4.754	24.674	.002	.125	29.408
2003 Total	.626	.068	4.042	21.060	5.159	26.219	.002	.104	31.061
2004 Total	.682	.170	4.365	22.082	6.114	28.197	.013	.117	33.544
2005 Total	.762	.088	4.450 4.291	22.091 22.085	7.157	29.248	.012	.150	34.709 34.679
2006 Total 2007 Total	.906 .909	.101 .061	4.291 4.723	22.085 21.914	7.084 6.868	29.169 28.781	.066 .055	.146 .175	34.679 34.704
2008 Total	.855	.089	4.084	21.448	6.237	27.685	.035	.175	32.993
2009 Total	.566	.009	3.845	19.699	5.383	25.082	.027	.178	29.706
2010 Total	.484	.030	3.834	20.140	5.231	25.371	.004	.154	29.877
2011 January	.025	.001	.381	1.710	.509	2.219	(a)	.015	2.642
2011 January	.025	.001	.319	1.770	.384	1.761	(s)	.013	2.042
February	.038	.002	.323	1.710	.439	2.149	(s)	.013	2.528
March April	.028	.004	.285	1.593	.480	2.073	(s) (s)	.013	2.401
May	.033	.004	.278	1.687	.469	2.156	(s)	.017	2.487
June	.024	.004	.273	1.665	.424	2.089	.001	.015	2.407
July	.030	.003	.301	1.728	.410	2.137	.001	.021	2.493
August	.039	.005	.287	1.664	.378	2.042	.002	.019	2.395
September	.021	.003	.258	1.607	.379	1.986	.003	.014	2.285
October	.023	.002	.289	1.659	.356	2.015	.002	.013	2.344
November	.020	.002	.255	1.572	.399	1.971	.003	.012	2.264
December	.024	.004	.305	1.622	.383	2.005	.005	.015	2.358
Total	.327	.035	3.555	19.595	5.010	24.605	.019	.178	28.720
2012 January	.018	.003	.288	1.630	.407	2.037	(s)	.014	2.361
February	.012	.002	.277	1.531	.308	1.839	(s)	.012	2.142
March	.016	.004	.272	1.676	.312	1.988	.002	.014	2.296
April	.014	.007	.249	1.597	.325	1.923	.001	.017	2.211
May	.023	.004	.265	1.718	.361	2.080	.002	.019	2.392
June	.017	.001	.266	1.700	.365	2.065	.004	.018	2.371
July	.021	.001	.288	1.665	.351	2.016	.004	.023	2.354
August	.015	.001	.288	1.656	.372	2.028	.007	.022	2.361
September	.020	.002	.264	1.550	.339	1.889	.007	.017	2.199
October	.020	.001	.260	1.549	.324	1.874	.007	.015	2.176
November	.018	.001	.240	1.513	.323	1.837	.007	.016	2.119
December	.017	.002	.258	1.453	.343	1.796	.005	.015	2.093
Total	.212	.028	3.216	19.239	4.132	23.371	.045	.202	27.075
2013 January	.015	(s)	.285	1.520	.354	1.873	.004	.017	2.194
February	.009	.001	.243	1.255	.301	1.556	.001	.016	1.826
March	.009	(s)	.254	1.426	.334	1.760	.006	.018	2.047
April	.016	(s)	.226	1.429	.385	1.814	.003	.016	2.074
May	.020	.001	.241	1.479	.391	1.870	.004	.019	2.154
June	.028	(s)	.243	1.430	.332	1.762	.006	.020	2.058
July	.020	(s)	.243	1.543	.363	1.906	.006	.022	2.197
August	.016	.001	.245	1.548	.348	1.896	.006	.022	2.186
September	.019	(s)	F.219	1.463	.333	1.796	.006	.018	E 2.058
9-Month Total	.152	.003	E 2.199	13.091	3.140	16.232	.042	.166	^E 18.794
2012 9-Month Total 2011 9-Month Total	.156 .260	.024 .028	2.458 2.706	14.723 14.741	3.141 3.872	17.865 18.613	.027 .009	.156 .139	20.687 21.754

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

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

and CSV files) for all available annual data beginning in 1949 and monthly data

and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • Coal: Tables 6.1 and A5. • Coal Coke: 1949–1975—U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook. 1976–1980—U.S. Energy Information Administration (EIA), Form EIA-5/5A, "Coke and Coal Chemicals—Monthly/Annual." 1981 forward—EIA, Quarterly Coal Report, quarterly reports and Table A5. • Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.3b, 10.3, 10.4, and A2. • Biofuels: Tables 10.3, 10.4 and A3. • Electricity: Tables 7.1 and A6.

Selected years of data from 1949 through 1972 have been added to this table. For all years of data from 1949 through 2013, see the "Web Page" cited above.

Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.
 Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.
 Fuel ethanol (minus denaturant) and biodiesel.
 E=Estimate. NA=Not available. F=Forecast. (s)=Less than 0.5 trillion Btu. Notes:
 See "Primary Energy" in Glossary.
 Totals may not equal sum of components due to independent qualities. components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

					Exports					Net Imports ^a
					Petroleum					
	Coal	Coal Coke	Natural Gas	Crude Oil ^b	Petroleum Products ^c	Total	Biofuelsd	Electricity	Total	Total
1950 Total	0.786	0.010	0.027	0.202	0.440	0.642	NA	0.001	1.465	0.448
1955 Total	1.465	.013	.032	.067	.707	.774	NA	.002	2.286	.504
1960 Total	1.023	.009	.012	.018	.413	.431	NA	.003	1.477	2.710
1965 Total	1.376	.021	.027	.006	.386	.392	NA	.013	1.829	4.063
1970 Total	1.936	.061	.072	.029	.520	.549	NA	.014	2.632	5.709
1975 Total	1.761 2.421	.032 .051	.074 .049	.012 .609	.427 .551	.439 1.160	NA NA	.017 .014	2.323 3.695	11.709 12.101
1980 Total 1985 Total	2.421	.028	.049	.432	1.225	1.657	NA NA	.014	4.196	7.584
1990 Total	2.430	.026	.087	.230	1.594	1.824	NA NA	.055	4.752	14.065
1995 Total	2.318	.034	.156	.200	1.791	1.991	NA NA	.012	4.511	17.750
2000 Total	1.528	.028	.245	.106	2.048	2.154	NA	.051	4.006	24.967
2001 Total	1.265	.033	.377	.043	1.996	2.039	(s)	.056	3.771	26.386
2002 Total	1.032	.020	.520	.019	2.023	2.042	(s)	.054	3.669	25.739
2003 Total	1.117	.018	.686	.026	2.124	2.151	.001	.082	4.054	27.007
2004 Total	1.253	.033	.862	.057	2.151	2.208	.001	.078	4.434	29.110
2005 Total	1.273	.043	.735	.067	2.374	2.442	.001	.065	4.560	30.149
2006 Total	1.264	.040	.730	.052	2.699	2.751	.005	.083	4.873	29.806
2007 Total	1.507	.036	.830	.058	2.949	3.007	.036	.069	5.483	29.220
2008 Total	2.071 1.515	.049 .032	.972 1.082	.061 .093	3.739 4.147	3.800 4.240	.089 .035	.083 .062	7.063 6.966	25.931 22.740
2009 Total 2010 Total	2.101	.032	1.147	.088	4.750	4.838	.047	.065	8.234	21.643
2011 January	.218	.001	.137	.013	.460	.473	.006	.005	.841	1.801
February	.212	.002	.126	.005	.403	.408	.005	.005	.759	1.357
March	.252	.001	.146	.007	.461	.467	.008	.005	.880	1.648
April	.227	.001	.128	.007	.499	.506	.011	.005	.878	1.523
May June	.232 .233	.002 .003	.133 .121	.007 .006	.462 .444	.469 .451	.007 .006	.004 .004	.847 .818	1.640 1.588
July	.202	.003	.121	.013	.506	.520	.011	.004	.854	1.639
August	.241	.003	.112	.006	.511	.517	.005	.003	.879	1.515
September	.224	.003	.128	.006	.518	.524	.010	.003	.892	1.393
October	.235	.002	.110	.009	.520	.529	.011	.003	.891	1.453
November	.226	.004	.129	.011	.507	.518	.013	.004	.894	1.370
December	.249	.001	.136	.010	.613	.622	.014	.003	1.026	1.333
Total	2.751	.024	1.521	.100	5.904	6.004	.108	.051	10.459	18.261
2012 January February	.224 .208	.001 .002	.132 .131	.014 .012	.477 .467	.491 .479	.008 .007	.003 .003	.858 .830	1.502 1.313
March	.271	.002	.142	.013	.520	.533	.008	.004	.960	1.336
April	.308	.001	.124	.007	.535	.542	.007	.004	.987	1.224
May	.301	.003	.134	.015	.536	.551	.007	.004	1.000	1.393
June	.313	.001	.126	.008	.526	.534	.007	.004	.985	1.386
July	.285	.001	.119	.014	.542	.556	.008	.003	.973	1.381
August	.260	.001	.141	.011	.519	.530	.006	.003	.940	1.420
September	.229	.003	.139	.012	.514	.526	.006	.003	.906	1.293
October	.231	.004	.141	.012	.547	.559	.006	.003	.944	1.232
November	.209	.004	.144	.013	.555	.567	.004	.003	.930	1.189
December Total	.247 3.088	.002 . 024	.160 1.633	.013 .143	.613 6.350	.625 6.493	.005 .078	.004 .041	1.043 11.357	1.050 15.718
2013 January	.235	.001	.156	.013	.481	.494	.005	.003	.894	1.300
February	.212	.001	.134	.020	.484	.504	.004	.003	.858	.968
March	.335	.003	.150	.018	.516	.534	.006	.003	1.031	1.016
April	.240	.002	.127	.023	.512	.535	.005	.004	.912	1.162
May	.257	(s)	.143	.022	.575	.598	.006	.003	1.008	1.146
June	.226	.003	.135	.021	.571	.592	.006	.003	.964	1.094
July	.224	.002	.130	.018	.654	.671	.005	.003	1.036	1.161
August	.247 .231	.002 .001	.131 F .134	.012	.625	.637 .604	.008 .007	.003	1.029 E .979	1.158 E 1.079
September 9-Month Total	.231 2.206	.001 . 015	E 1.240	.017 .164	.587 5.004	.604 5.169	.007 . 052	.003 . 029	E 8.711	E 10.083
2012 9-Month Total 2011 9-Month Total	2.400 2.041	.015 .017	1.189 1.146	.106 .070	4.635 4.264	4.741 4.334	.063 .070	.032 .041	8.439 7.648	12.247 14.106

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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • Coal: Tables 6.1 and A5. • Coal Coke: 1949–1975—U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook. 1976–1980—U.S. Energy Information Administration (EIA), Form EIA-5/5A, "Coke and Coal Chemicals—Monthly/Annual." 1981 forward—EIA, Quarterly Coal Report, quarterly reports and Table A5. • Natural Gas: Tables 4.1 and A4.

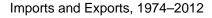
• Crude Oil and Petroleum Products: Tables 3.3b, 10.4, and A2. • Biofuels: Tables 10.3, 10.4 and A3. • Electricity: Tables 7.1 and A6.

Selected years of data from 1949 through 1972 have been added to this table. For all years of data from 1949 through 2013, see the "Web Page" cited above.

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

ethanol (minus denaturant) and biodiesel.
E=Estimate. NA=Not available. F=Forecast. (s)=Less than 0.5 trillion Btu.

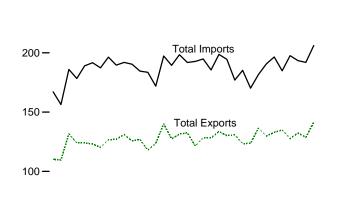
Figure 1.5 Merchandise Trade Value (Billion Dollars^a)

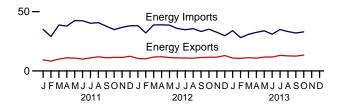


2,000 – 1,500 – Total Imports 1,000 – Total Exports Energy Exports Energy Imports

Imports and Exports, Monthly

250 -





Trade Balance, 1974-2012

1980

1975

1985

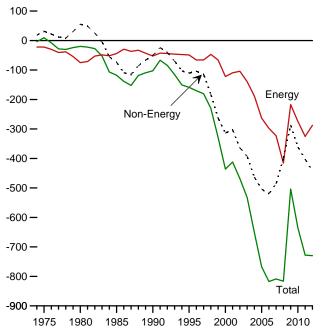
1990

1995

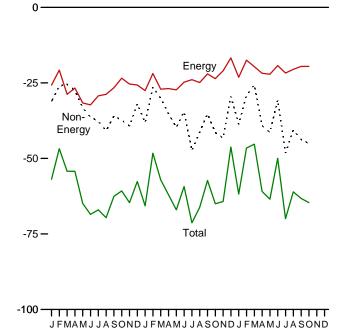
2000

2005

2010



Trade Balance, Monthly



2013

^{2011 2012}

^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)

Exports			Petroleumb)		Energy ^c		Non- Energy	1	otal Merchandis	е
1975 Total 9907 25,197 2-4,288 4,470 26,476 22,006 31,575 106,856 99,305 9,91980 Total 2,833 78,637 7-75,803 7,962 8,2924 7-4,942 55,246 22,566 24,526 1,91985 Total 4,707 50,475 4-5,768 9,971 53,917 4-3,046 73,765 218,815 336,526 -117,71990 Total 6,901 61,583 5-46,822 12,233 64,661 52,422 30,068 335,532 49,608 102,747 7-1995 Total 6,327 54,586 4-46,674 10,336 39,109 4-4,718 11,		Exports	Imports	Balance	Exports	Imports	Balance		Exports	Imports	Balance
1980 Total 2,833 78,637 7-5,803 7,992 82,924 7-4,942 55,246 225,566 245,262 1-19,1985 Total 4,707 50,475 4-5,768 9,971 53,977 43,946 7-73,765 218,815 33,652 1-17,71990 Total 6,901 61,583 5-4,682 12,233 64,661 52,428 50,068 393,592 496,088 102,747 1995 Total 6,901 10,192 119,551 -109,099 13,179 135,967 1-10,505 34,467	1974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884
1980 Total	1975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551
1999 Total 6,901 61,563 -44,682 12,233 64,661 -52,428 -50,068 393,592 496,088 -102,747 -109,050 100,388 591,09 -48,751 -100,050 594,742 743,543 -158,42000 Total 10,192 119,251 -109,059 13,179 135,367 -122,188 -133,916 731,918 1,218,022 -436,12000 Total 8,808 102,747 -43,873 -124,941 21,233 -109,429 -302,470 729,100 11,409,999 -44,12002 Total 8,509 102,663 -44,694 11,541 115,748 -104,207 3-344,056 533,101 1,161,366 -468,120 11,161,366 -468,120	1980 Total	2,833			7,982	82,924	-74,942		225,566	245,262	-19,696
1995 Total 6,321 54,388 -48,047 10,388 59,109 -48,751 -110,050 584,742 743,543 -158,6200 Total 10,192 119,251 -109,059 131,779 135,367 -122,188 -313,916 781,918 12,180,22 -34,6200 Total 8,868 102,747 493,879 12,494 121,923 -109,429 -302,470 729,100 1,140,999 -411,161,366 -488,2003 Total 10,209 132,433 -122,224 13,768 153,298 1-39,530 320,820 72,471 1,257,121 -552,2004 Total 13,130 179,266 -166,136 16,642 20,660 -188,018 462,912 818,775 1,649,704 -650,12005 Total 15,155 250,668 -220,913 26,488 239,72 -228,323 5-60,425 11,489,704 -650,12005 Total 15,155 250,668 -220,913 26,488 239,72 -228,323 5-60,425 11,489,704 -650,12005 Total 15,155 250,668 -220,913 26,488 239,72 -228,323 5-60,425 11,481,99 11,481,99 1,956,962 -968,700 Total 61,695 449,847 -388,152 76,075 491,855 -404,857 -402,857 -4	1985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
2000 Total 10,192 119,251 -109,059 13,179 135,367 -122,188 313,916 781,918 1,218,022 -435,2001 Total 8,868 102,747 493,879 112,494 121,923 -109,429 -302,479 -302,719 11,409,999 -411,2002 Total 8,569 102,663 -94,094 11,541 115,748 -104,207 -304,656 693,103 1,161,366 -468,2003 Total 10,209 132,433 -122,224 11,568 13,768 153,288 -139,530 -392,260 693,103 1,161,366 -468,200 13,100 179,266 -166,136 18,642 205,660 -188,018 -462,912 818,775 1,469,704 -650,700 100 100 100 100 100 100 100 100 100	1990 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496
2001 Total 8,868 102,747	1995 Total	6,321	54,368		10,358	59,109				743,543	-158,801
2002 Total		10,192	119,251	-109,059	13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104
2003 Total 10,209 132,433 -122,224 13,768 153,298 -139,530 -392,820 724,771 1,257,121 -532,2004 Total 13,130 179,266 166,136 186,642 0,660 -186,136 46,219 1818,757 1,469,704 -650,5005 Total 191,55 250,068 -23,0913 26,488 289,723 -263,235 -504,242 905,578 1,673,455 -767, 2005 Total 33,293 32,7620 -224,327 41,725 364,987 -323,262 -485,501 1,148,199 1,956,962 -808, 2008 Total 61,695 449,847 -388,152 -76,075 491,885 -415,810 -400,981 1,287,442 2,103,641 -816, 2008 Total 44,509 25,1833 -207,324 54,536 271,739 -217,203 -286,579 1,055,643 1,559,625 -503,120 Total 64,753 333,472 -268,719 80,625 348,982 -274,357 -361,062 1,278,495 1,913,857 -355, 2011 January 7,453 33,050 2,5597 9,281 35,010 -22,729 -31,133 110,186 167,048 -66,753 1,913,857 -46,76,75 491,913,875 -46,76,75 491,913,875 -47,922 1,913,857 -47,922 1,913,857 -47,922 1,913,857 -47,922 1,913,857 -47,922 1,913,857 -47,922 1,913,857 -47,922 1,913,857 -48,923 1,913,857	2001 Total	8,868	102,747	-93,879	12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899
2004 Total 13,130 179,266 -166,136 18,642 206,660 -188,018 -462,912 818,775 1,469,704 -560, 2005 Total 19,155 250,068 -230,913 26,488 289,723 -262,255 -504,22 905,578 1,673,455 -767, 2006 Total 28,171 299,714 -271,543 34,711 332,500 -297,789 -519,515 1,036,635 1,853,938 -817, 2007 Total 33,293 327,620 -294,327 41,725 384,997 -322,262 -485,515 1,036,635 1,853,938 -817, 2008 Total 61,695 449,847 -388,152 76,075 491,885 -415,810 -400,389 1,287,442 2,103,641 -816, 2008 Total 44,909 251,833 -207,324 54,536 271,739 -217,203 -286,379 1,056,043 1,559,625 -503, 2010 Total 64,753 333,472 -268,179 80,625 354,982 -274,357 -361,005 1,278,495 1,913,857 -535, 2011 January 7,453 33,360 -25,597 9,281 35,010 -25,729 -31,133 110,186 167,048 -56, 167,179 -179,	2002 Total	8,569	102,663	-94,094	11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263
2005 Total 19,155 250,088 -230,913 26,488 299,723 -263,255 -504,242 905,778 1,673,455 -767,2007 2006 Total 33,293 327,620 -294,327 41,725 364,987 -322,262 -485,501 1,148,199 1,956,962 -808,1005 2008 Total 61,695 449,847 -381,152 76,075 491,885 -415,810 400,389 1,287,442 2,103,641 -816,200 2010 Total 64,753 333,472 -268,719 80,625 277,392 -217,203 -286,379 1,966,043 1,559,625 -603,1 2011 January 7,453 33,050 -25,597 9,281 35,010 -25,729 -31,133 110,166 167,048 -56,62 February 6,619 27,551 -20,932 8,307 29,062 -20,755 -26,021 110,539 156,315 -46,1 April 9,075 36,457 -27,382 11,117 37,803 -26,666 -27,561 124,066 188,959	2003 Total	10,209	132,433	-122,224	13,768	153,298	-139,530	-392,820	724,771	1,257,121	-532,350
2007 Total	2004 Total	13,130	179,266	-166,136	18,642	206,660	-188,018	-462,912	818,775	1,469,704	-650,930
2007 Total 33,293 327,620 -294,327 41,725 364,987 -323,262 485,501 1,148,199 1,956,962 -808, 2008 Total 616,95 449,847 -388,152 76,075 491,885 -415,810 400,389 1,287,442 2,103,641 -816, 2009 Total 44,509 251,833 -207,324 54,536 271,739 -217,203 -286,379 1,056,043 1,559,625 -503, 2011 Total 64,753 333,472 -268,719 80,625 344,982 -274,357 -361,005 1,278,495 1,913,857 -635, 2011 January 7,453 33,050 -25,597 9,281 35,010 -25,729 -31,133 110,186 167,048 -56,186,197,197,197,197,197,197,197,197,197,197	2005 Total	19,155	250,068	-230,913	26,488	289,723	-263,235	-504,242	905,978	1,673,455	-767,477
2007 Total 33,293 327,620 -294,327 41,725 364,987 -323,262 485,501 1,148,199 1,956,962 -808, 2008 Total 616,95 449,847 -388,152 76,075 491,885 -415,810 400,389 1,287,442 2,103,641 -816, 2009 Total 44,509 251,833 -207,324 54,536 271,739 -217,203 -286,379 1,056,043 1,559,625 -503, 2011 Total 64,753 333,472 -268,719 80,625 344,982 -274,357 -361,005 1,278,495 1,913,857 -635, 2011 January 7,453 33,050 -25,597 9,281 35,010 -25,729 -31,133 110,186 167,048 -56,186,197,197,197,197,197,197,197,197,197,197	2006 Total	28,171	299,714	-271,543	34,711	332,500	-297,789	-519,515	1,036,635	1,853,938	-817,304
2000 Total 64,509 251,833 2-207,324 54,536 271,739 -217,203 -286,379 1,056,043 1,559,625 -503,2010 Total 64,753 333,472 -268,719 80,625 354,982 -274,357 -361,005 1,278,495 1,913,857 -635,2011 January 7,453 33,050 -25,597 9,281 35,010 -25,729 311,133 110,186 167,048 -56,640 1,000 1,		33,293	327,620	-294,327	41,725	364,987	-323,262	-485,501	1,148,199	1,956,962	-808,763
2009 Total	2008 Total	61,695	449,847	-388,152	76,075	491,885	-415,810	-400,389	1,287,442	2,103,641	-816,199
Page	2009 Total	44,509	251,833	-207,324	54,536	271,739	-217,203	-286,379	1,056,043	1,559,625	-503,582
February 6,619 27,551 -20,932 8,307 29,062 -20,755 -26,021 109,539 156,315 -46,1	2010 Total	64,753	333,472	-268,719	80,625	354,982	-274,357	-361,005	1,278,495	1,913,857	-635,362
March											-56,862
April 9,075 36,457 -27,382 11,117 37,803 -26,686 -27,561 124,047 178,294 -54,1 May 8,795 41,002 -32,207 10,823 42,470 -31,647 -33,241 124,066 188,94 -644, June 8,039 40,872 -32,833 10,040 42,305 -32,265 -36,271 123,047 191,582 -68,1 July 9,098 38,622 -29,524 10,935 40,224 -29,289 -37,730 120,245 187,265 -67,0 August 9,935 39,063 -29,128 11,962 40,732 -28,770 -40,843 126,734 196,347 -69,1 September 9,203 36,467 -27,264 11,129 37,741 -26,612 -35,827 127,031 189,570 -62,2 October 9,606 33,467 -23,861 11,436 34,857 -23,421 -37,352 131,088 191,861 60,0 November 9,593 35,665 -26,072 11,447 36,821 -25,374 -39,266 125,693 190,323 -64,1 December 10,545 36,811 -26,266 12,996 38,064 -25,688 -31,940 126,891 194,519 -57,7 Total 105,844 436,145 -330,301 128,873 453,872 -324,999 402,766 1,480,290 2,208,055 -727,7 2012,January 8,706 36,947 -28,241 10,583 38,146 -27,563 -88,120 117,839 183,522 -66,5 February 8,690 31,043 -22,353 10,203 32,092 -21,889 -66,381 123,609 171,866 48, March 9,925 37,963 -28,038 11,766 38,832 -27,066 -30,011 140,233 197,310 -57,4 April 10,094 38,079 -27,985 12,004 38,861 -26,867 -35,155 127,405 189,417 -62,4 May 9,546 37,668 -28,122 11,304 38,603 -27,299 -39,729 131,342 198,370 -67,4 July 9,135 33,742 -24,607 10,876 34,777 -24,758 -35,155 127,405 199,417 -62,4 Movember 10,038 34,108 -24,070 11,567 35,159 -23,592 41,423 133,600 188,614 -65,6 November 10,038 34,108 -24,070 11,567 35,159 -23,592 41,423 133,600 188,614 -65,6 November 10,038 34,108 -24,070 11,567 35,159 -23,592 41,423 133,600 188,614 -66,6 November 10,038 34,108 -24,070 11,567 35,159 -23,592 41,423 133,600 188,614 -66,6 November 10,038 34,108 -24,070 11,567 35,159 -23,592 41,423 133,600 188,614 -66,6 November 10,038 34,108 -24,070 11,567 35,159 -23,592 41,423 133,600 188,614 -66,6 November 10,038 34,108 -24,070 11,567 35,159 -23,592 41,423 133,600 188,614 -66,6 November 10,038 34,108 -24,070 11,567 32,514 -29,999 123,666 130,444 11,66,6 November 10,038 34,108 -24,070 11,567 34,579 23,592 44,599											-46,776
May 8 795 41,002 -32,207 10,823 42,470 -31,647 -33,241 124,066 188,954 -64,1 June 8,039 40,872 -23,833 10,40 42,305 -32,265 -36,271 123,047 191,582 -68,8 July 9,908 38,622 -29,524 10,935 40,224 -29,289 -37,730 120,245 187,265 -67,6 August 9,935 39,063 -29,128 11,962 40,732 -28,770 -40,843 126,734 196,647 -69,67 September 9,203 36,647 -27,264 11,129 37,714 -26,612 -39,927 127,031 189,570 -62,62 October 9,506 35,665 26,072 11,447 36,821 -25,744 -39,256 125,693 190,923 36,61 125,874 -39,256 125,693 190,923 36,61 125,874 -39,256 125,693 190,923 36,61 125,874 -39,256 125,693 190,923 36											-54,254
Jurie 8,039 40,872 -32,833 10,040 42,305 -32,265 -36,271 123,047 191,582 -68,8 July 9,998 38,622 -29,524 10,935 40,224 -29,289 -37,730 120,245 187,265 -67, August 9,935 39,063 -29,128 11,962 40,732 -28,770 -40,843 126,734 196,347 -69,1 September 9,203 36,467 -27,264 11,129 37,741 -26,612 -35,927 127,031 189,570 -62, October 9,606 33,467 -23,861 11,436 34,857 -23,421 -37,352 131,088 191,861 -60, November 9,593 35,665 -26,072 11,447 36,821 -25,374 -39,256 125,693 190,323 -644, December 10,545 36,831 -26,286 123,996 38,084 -25,688 -31,940 126,891 184,519 -57, Total 105,844 436,145 -330,301 128,873 453,872 -324,999 -402,766 1,480,290 2,208,055 -727, Total 9,925 37,963 -28,038 11,766 38,822 -27,563 -38,120 117,839 183,522 -65,4 February 8,690 31,043 -22,353 10,203 32,092 -21,889 -26,368 123,609 171,866 -48,4 March 9,925 37,963 -28,038 11,766 38,821 -26,867 -30,011 140,233 197,310 -57,4 April 10,094 38,079 -27,985 12,004 38,861 -26,857 -35,155 127,405 189,417 -62,1 July 9,135 33,742 -24,607 10,876 34,797 -23,921 131,342 198,370 -67,1 July 9,135 33,742 -24,607 10,876 34,797 -23,921 43,337 124,547 191,851 -59,3 July 9,135 33,740 -22,644 11,087 35,777 -24,758 34,546 132,547 191,851 -59,3 July 9,135 33,740 -24,607 10,876 34,797 -23,921 47,375 121,412 192,707 -71,1 August 9,129 31,380 -21,091 11,627 32,611 -20,984 43,264 130,182 194,431 -64, November 10,289 31,380 -21,091 11,627 32,611 -20,984 43,264 130,182 194,431 -64, November 11,359 28,535 -17,176 12,998 29,729 -41,433 133,600 186,614 -65, November 11,359 28,535 -17,176 12,998 29,729 -41,43 31,3500 186,614 -65, November 11,359 28,535 -17,176 12,998 29,729 -41,433 13,500 186,614 -66, November 11,359 28,535 -17,176 12,998 29,729 -41,433 13,500 186,614 -66, November 11,359 28,535 -17,176 12,998 29,729 -41,433 13,500 186,614 -66, November 11,359 28,535 -17,176 12,998 29,729 -41,430 13,547 12,948 130,756 176,975 -46, November 11,359 28,535 -17,177 10,634 28,104 -17,472 -29,099 123,606 170,717 -46, November 10,588 41,499 29,											-54,247
July 9,088 38,622 -29,524 10,935 40,224 -29,289 -37,730 120,245 187,265 -67,7 August 9,935 39,063 -29,128 11,962 40,732 -23,2770 -40,843 126,734 196,347 -69,1 September 9,203 36,467 -27,264 11,129 37,741 -26,612 -35,927 127,031 189,570 -62,2 October 9,606 33,467 -23,861 11,436 34,857 -23,421 -37,352 131,088 191,861 -60,1 November 9,593 35,665 -26,072 11,447 36,821 -25,374 -39,256 125,693 190,323 -64,1 December 10,545 36,831 -26,286 12,396 38,084 -25,588 -31,940 126,891 184,519 -57,7 Total 105,844 436,145 -330,301 128,873 453,872 -324,999 -402,766 1,480,290 2,208,655 -727,7 2012 January 8,706 36,947 -28,241 10,583 38,146 -27,563 -38,120 117,839 183,522 -65,6 February 8,690 31,043 -22,353 10,203 32,092 -21,889 -26,388 123,609 171,866 -48, March 9,925 37,963 -28,038 11,766 38,832 -27,066 -30,011 140,233 197,310 -57, April 10,094 38,079 -27,985 12,004 38,861 -26,857 -35,155 127,405 189,417 -62,1 May 9,546 37,668 -28,122 11,304 38,603 -27,299 -39,729 131,342 198,370 -67,1 June 9,173 34,897 -22,4607 10,876 34,797 -23,921 -47,375 121,412 192,707 -71,1 August 9,129 34,636 -25,507 10,793 35,672 -24,758 -34,546 132,547 191,851 -59,3 July 9,135 33,742 -24,607 10,876 34,797 -23,921 -47,375 121,412 192,707 -71,4 August 9,129 34,636 -25,507 10,793 35,672 -24,758 -34,546 132,547 191,851 -59,3 July 9,135 33,742 -24,607 10,876 34,797 -23,921 -47,375 121,412 192,707 -71,4 August 9,129 34,380 -21,091 11,627 32,611 -20,984 -43,264 130,182 194,431 -64,5 October 10,038 34,108 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,6 Total 111,584 411,409 -295,561 136,023 423,591 -26,7568 -442,043 1,545,709 2,275,320 -729,4 2013 January 8,881 8,891 8,2361 8-23,480 10,825 33,967 -23,142 -38,655 123,390 185,187 -61,6 February 8,915 26,622 -17,707 10,634 28,106 -17,472 -29,099 123,606 170,177 -46,6 March 8,899 9,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,887 -45,4 August 10,761 31,993 -21,232 12,737 33,250 -20,513 -40,537 122,360 179,759 -66,6 September 10,513 30,788 -22,290 11,720 33,856 -22,155 -44,057 130,066 170,											-64,888
August 9,935 39,083 -29,128 11,962 40,732 -28,770 -40,843 126,734 196,347 -69,855											-68,536
September 9,203 36,467 -27,264 11,129 37,741 -26,612 -35,927 127,031 189,570 -62,1 Cotober 9,606 33,467 -22,861 11,436 34,857 -23,421 -37,352 131,088 191,861 -60,0 November 9,593 35,665 -26,072 11,447 36,821 -25,374 -39,256 125,693 190,323 -64,6 December 10,545 36,831 -26,286 12,396 38,084 -25,688 -31,940 126,891 184,519 -57,6 Total 105,844 436,145 -330,301 128,873 38,146 -27,563 -38,120 117,839 183,522 -65,6 February 8,690 31,043 -22,353 10,203 32,092 -21,889 -26,368 123,609 171,866 -48,6 March 9,925 37,963 -28,038 11,766 38,832 -27,066 -30,011 140,233 197,310 -57,6 May 9,546 37,668 -28,122 11,304 38,603 -27,299 -39,729 131,342 198,370 -67,9 July 9,135 33,742 -24,607 10,876 34,797 -23,921 -47,375 121,412 192,707 -71,2 August 9,129 34,636 -25,507 10,876 34,797 -23,921 -47,375 121,412 192,707 -71,2 August 9,129 34,636 -25,507 10,793 35,672 -24,879 -41,303 128,587 194,651 -59, September 9,766 32,410 -22,644 11,283 33,313 -22,030 -35,259 128,198 185,488 -57,2 October 10,038 34,108 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -66,6 November 10,289 31,380 -24,091 11,627 32,611 -29,88 -442,043 1,545,709 2,275,320 -729,4 April 10,289 31,380 -24,091 11,627 32,611 -29,88 -442,043 1,545,709 2,275,320 -729,4 April 8,881 -82,361 -22,367 10,737 32,544 -21,607 -39,116 129,786 -176,975 -46,6 April 8,889 29,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,687 -45,4 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,3 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,3 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,3 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,3 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,3 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,3 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,3 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 12											-67,019
October 9.606 33,467 -23,861 11,436 34,857 -23,421 -37,352 131,088 191,861 -60. November 9,593 35,665 -26,072 11,447 36,821 -25,374 -39,256 125,693 190,323 -64,6 December 10,545 36,831 -26,286 12,396 38,084 -25,688 -31,940 126,891 184,519 -57,6 Total 105,844 436,145 -330,301 128,873 453,872 -324,999 -402,766 1,480,290 2,208,055 -727,7 2012 January 8,706 36,947 -28,241 10,583 38,146 -27,563 -38,120 117,839 183,522 -65,68 February 8,680 31,043 -22,383 10,203 32,092 -21,889 -26,388 123,609 171,866 -48,2 March 9,925 37,963 -28,038 11,766 38,832 -27,066 -30,011 140,233 197,310 -57,4 March											-69,613
November 9.593 35.665 -26.072 11,447 36.821 -25.374 -39.256 125.693 190.323 -6.44 December 10,545 36.831 -26.286 12.396 38.084 -25.688 -31,940 126.891 184,519 -57.6 Total 105,644 436,145 -330,301 128,873 453,872 -324,999 -402,766 1,480,290 2,208,055 -727.7 2012 January 8,706 36,947 -28,241 10,583 38,146 -27,563 -38,120 117,839 183,522 -66,6 February 8,690 31,043 -22,353 10,203 32,092 -21,889 -26,388 123,609 171,866 -48.6 March 9,925 37,963 -28,038 11,766 38,832 -27,066 -30,011 140,233 197,310 -57,0 April 10,094 38,079 -27,985 12,004 38,861 -26,857 -35,155 127,405 189,417 -62,0 May 9,546 37,668 -28,122 11,304 38,603 -27,299 -39,729 131,342 198,370 -67,0 Jule 9,173 34,897 -25,724 11,019 35,777 -24,758 -34,546 132,547 191,851 -59,3 July 9,135 33,742 -24,607 10,876 34,797 -23,921 -47,375 121,412 192,707 -71,4 August 9,129 34,636 -25,507 10,793 35,675 -24,879 -41,303 128,587 194,769 -66,6 September 9,766 32,410 -22,644 11,283 33,313 -22,030 -35,259 128,198 185,488 -57,4 October 10,038 34,108 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,6 November 10,289 31,380 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,6 November 10,289 31,380 -24,070 11,567 35,159 -23,592 -41,243 133,600 198,614 -65,6 November 10,289 31,380 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,6 November 10,289 31,380 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,6 November 10,289 31,380 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,6 November 10,289 31,380 -24,070 11,567 35,159 -23,592 -41,423 133,600 170,177 -46,6 March 8,899 29,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,687 -45,4 April 8,876 31,072 -22,367 10,737 32,541 -48,771 -29,999 123,600 170,177 -46,5 March 8,899 29,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,687 -45,4 April 8,876 31,072 -22,367 10,737 32,544 -19,620 -25,653 136,414 181,687 -45,4 April 8,876 31,072 -22,367 10,737 32,544 -19,620 -25,653 136,414 181,687 -45,4 April 8,876 31,072 -22,367 10,737 32,540 -19,533 -45,667 133,003 186,488 -63,4 April 8,876											-62,539
December											-60,773
Total 105,844 436,145 -330,301 128,873 453,872 -324,999 -402,766 1,480,290 2,208,055 -727,73 2012 January 8,706 36,947 -28,241 10,583 38,146 -27,563 -38,120 117,839 183,522 -65,6 February 8,690 31,043 -22,353 10,203 32,092 -21,889 -26,368 123,609 171,866 -48,444 March 9,925 37,963 -28,038 11,766 38,832 -27,066 -30,011 140,233 197,310 -57,64 April 10,094 38,079 -27,985 12,004 38,861 -26,857 -35,155 127,405 189,417 -62,1 May 9,546 37,668 -28,122 11,304 38,603 -27,299 -39,729 131,342 198,370 -67,0 July 9,135 33,742 -24,607 10,876 34,797 -23,921 -47,375 121,412 192,707 -71,2 August <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-64,630</td></t<>											-64,630
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February 8,690 31,043 -22,353 10,203 32,092 -21,889 -26,368 123,609 171,866 -48, March 9,925 37,963 -28,038 11,766 38,832 -27,066 -30,011 140,233 197,310 -57, April 10,094 38,079 -27,985 12,004 38,861 -26,857 -35,155 127,405 189,417 -62,0 May 9,546 37,668 -28,122 11,304 38,603 -27,299 -39,729 131,342 198,370 -67,0 June 9,173 34,897 -25,724 11,019 35,777 -24,758 -34,546 132,547 191,851 -593, July 9,135 33,742 -24,607 10,876 34,797 -23,921 47,375 121,412 192,707 -71,2 August 9,129 34,636 -25,507 10,793 35,672 -24,879 -41,303 128,587 194,769 -66, September 9,766 32,410 -22,644 11,283 33,313 -22,030 -35,259 128,198 185,488 -57,2 October 10,038 34,108 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,6 November 10,289 31,380 -21,091 11,627 32,611 -20,984 -43,264 130,182 194,431 -64,2 December 11,359 28,535 -17,176 12,998 29,729 -16,731 -29,488 130,756 176,975 -46,5 Total 115,848 411,409 -295,561 136,023 423,591 -287,568 -442,043 1,545,709 2,275,320 -729,6 March 8,891 29,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,687 -45,2 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,9 May 9,621 32,523 -22,902 11,720 33,856 -22,136 -41,350 133,003 196,488 -63,4 August 10,761 31,933 -21,232 12,737 32,502 -19,539 R-43,690 R-12,8667 R-19,159 D,448 11,772 31,036 -19,264 -30,691 134,819 184,774 -49,5 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,0 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,0 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,0 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,0 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,0 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,0 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,0 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,0 July 11,132 33,468 -22,336 13,153 34,994 -21,741 -48,177 127,610 197,	Total	105,844	436,145	-330,301	128,873	453,872	-324,999	-402,766	1,480,290	2,208,055	-727,765
March 9,925 37,963 -28,038 11,766 38,832 -27,066 -30,011 140,233 197,310 -57,1 April 10,094 38,079 -27,985 12,004 38,861 -26,857 -35,155 127,405 189,417 -62,0 May 9,546 37,668 -28,122 11,304 38,603 -27,299 -39,729 131,342 198,370 -67,0 June 9,173 34,897 -25,724 11,019 35,777 -24,758 -34,546 132,547 191,851 -59,3 July 9,135 33,742 -24,607 10,876 34,797 -23,921 -47,375 121,412 192,707 -71,1 August 9,129 34,636 -25,507 10,793 35,672 -24,879 -41,303 128,587 194,769 -66,7 September 9,766 32,410 -22,644 11,283 33,313 -22,030 -35,259 128,198 185,488 -57,29,488 185,488 -57,29,488											-65,683
April 10,094 38,079 -27,985 12,004 38,861 -26,857 -35,155 127,405 189,417 -62,0 May 9,546 37,668 -28,122 11,304 38,603 27,299 -39,729 131,342 198,370 -67,0 June 9,173 34,897 -25,724 11,019 35,777 -24,758 -34,546 132,547 191,851 -593, July 9,135 33,742 -24,607 10,876 34,797 -23,921 -47,375 121,412 192,707 -71,2 August 9,129 34,636 -25,507 10,793 35,672 -24,879 -41,303 128,557 194,769 -66,5 September 9,766 32,410 -22,644 11,283 33,313 -22,030 -35,259 128,198 185,488 -57,2 October 10,038 34,108 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,0 November 10,289 31,380 -21,091 11,627 32,611 -20,984 -43,264 130,182 194,431 -64,2 December 11,359 28,535 -17,176 12,998 29,729 -16,731 -29,488 130,756 176,975 -46,5 Total 115,848 411,409 -295,561 136,023 423,591 -287,568 -442,043 1,545,709 2,275,320 -729,6 March 8,899 29,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,687 -45,2 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,9 May 9,621 32,523 -22,902 11,720 33,856 -22,130 -41,350 13,030 196,618 -63,4 August 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,9 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,9 Loctober 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,087 141,483 206,103 -64,6 Loctober 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,087 141,483 206,103 -64,6 Loctober 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,087 141,483 206,103 -64,6 Loctober 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,087 141,483 206,103 -64,6 Loctober 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,085 11,311,045 1,897,866 -586,6 Loctober 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,085 11,311,045 1,897,866 -586,6 Loctober 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,085 11,311,045 1,897,866 -586,6 Loctober 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,085 11,311,045 1,897,866 -586,6 Loctober 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,085 11,311,045 1,897,866 -586,6 Loctober 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,085										,	-48,257
May											-57,077
June 9,173 34,897 -25,724 11,019 35,777 -24,758 -34,546 132,547 191,851 -59,3 July 9,135 33,742 -24,607 10,876 34,797 -23,921 -47,375 121,412 192,707 -71,2 August 9,129 34,636 -25,507 10,793 35,672 -24,879 -41,303 128,587 194,769 -66,5 September 9,766 32,410 -22,644 11,283 33,313 -22,030 -35,259 128,198 185,488 -57,2 October 10,038 34,108 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,6 November 10,289 31,380 -21,091 11,627 32,6611 -20,984 -43,264 130,182 194,431 -64,2 December 11,359 28,535 -17,176 12,998 29,729 -16,731 -29,488 130,756 176,975 -46,5 Total											-62,012
July 9,135 33,742 -24,607 10,876 34,797 -23,921 -47,375 121,412 192,707 -71,2 August 9,129 34,636 -25,507 10,793 35,672 -24,879 -41,303 128,587 194,769 -66,7 September 9,766 32,410 -22,644 11,283 33,313 -22,030 -35,259 128,198 185,488 -57,3 October 10,038 34,108 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,6 November 10,289 31,380 -21,091 11,627 32,611 -20,984 -43,264 130,182 194,431 -64,2 December 11,359 28,535 -17,176 12,998 29,729 -16,731 -29,488 130,756 176,975 -46,5 Total 115,848 411,409 -295,561 136,023 423,591 -287,568 -442,043 1,545,709 2,275,320 -729,6											-67,028
August 9,129 34,636 -25,507 10,793 35,672 -24,879 -41,303 128,587 194,769 -66, September September 9,766 32,410 -22,644 11,283 33,313 -22,030 -35,259 128,198 185,488 -57,20 October 10,038 34,108 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,70 November 10,289 31,380 -21,091 11,627 32,611 -20,984 -43,264 130,182 194,431 -64,2 December 11,359 28,535 -17,176 12,998 29,729 -16,731 -29,488 130,756 176,975 -46,6 Total 115,848 411,409 -295,561 136,023 423,591 -287,568 -442,043 1,545,709 2,275,320 -729,6 2013 January b 8,881 b 32,361 b -23,480 10,825 33,967 -23,142 -38,655 123,390 185,187 -61, <td></td> <td>-59,304</td>											-59,304
September 9,766 32,410 -22,644 11,283 33,313 -22,030 -35,259 128,198 185,488 -57,2 October October 10,038 34,108 -24,070 11,567 35,159 -23,592 -41,423 133,600 198,614 -65,0 October November 10,289 31,380 -21,091 11,627 32,611 -20,984 -43,264 130,182 194,431 -64,2 October December 11,359 28,535 -17,176 12,998 29,729 -16,731 -29,488 130,756 176,975 -46,2 October Total 115,848 411,409 -295,561 136,023 423,591 -287,568 -442,043 1,545,709 2,275,320 -729,6 2013 January 8,881 53,361 5-23,480 10,825 33,967 -23,142 -38,655 123,390 185,187 -61,7 February 8,915 26,622 -17,707 10,634 28,106 -17,472 -29,099 123,606 170,177 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-71,296</td></td<>											-71,296
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November 10,289 31,380 -21,091 11,627 32,611 -20,984 -43,264 130,182 194,431 -64,2 December 11,359 28,535 -17,176 12,998 29,729 -16,731 -29,488 130,756 176,975 -46,2 Total 115,848 411,409 -295,561 136,023 423,591 -287,568 -442,043 1,545,709 2,275,320 -729,6 2013 January b 8,881 b 32,361 b -23,480 10,825 33,967 -23,142 -38,655 123,390 185,187 -61,7 February 8,915 26,622 -17,707 10,634 28,106 -17,472 -29,099 123,606 170,177 -46,5 March 8,899 29,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,687 -45,2 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,3											-57,289
December 11,359 28,535 -17,176 12,998 29,729 -16,731 -29,488 130,756 176,975 -46,7 Total 115,848 411,409 -295,561 136,023 423,591 -287,568 -442,043 1,545,709 2,275,320 -729,6 2013 January b 8,881 b 32,361 b -23,480 10,825 33,967 -23,142 -38,655 123,390 185,187 -61,7 February 8,915 26,622 -17,707 10,634 28,106 -17,472 -29,099 123,606 170,177 -46,6 March 8,899 29,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,687 -45,2 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,9 May 9,621 32,523 -22,902 11,720 33,856 -22,136 -41,350 133,003 196,488 -63,4 <											-65,015
Total 115,848 411,409 -295,561 136,023 423,591 -287,568 -442,043 1,545,709 2,275,320 -729,00 2013 January b 8,881 b 32,361 b -23,480 10,825 33,967 -23,142 -38,655 123,390 185,187 -61,7 February 8,915 26,622 -17,707 10,634 28,106 -17,472 -29,099 123,606 170,177 -46,5 March 8,899 29,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,687 -45,2 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,3 May 9,621 32,523 -22,902 11,720 33,856 -22,136 -41,350 133,003 196,488 -63,4 June 9,841 29,659 -19,818 11,772 31,036 -19,264 -30,691 134,819 184,774 -49,54											-64,248
February 8,915 26,622 -17,707 10,634 28,106 -17,472 -29,099 123,606 170,177 -46,8 March 8,899 29,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,687 -45,2 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,3 May 9,621 32,523 -22,902 11,720 33,856 -22,136 -41,350 133,003 196,488 -63,4 June 9,841 29,659 -19,818 11,772 31,036 -19,264 -30,691 134,819 184,774 -49,5 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,2 August 10,761 31,993 -21,232 12,737 33,250 -20,513 -40,537 132,326 193,376 -61,6 September <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-46,219 -729,611</td></td<>											-46,219 -729,611
February 8,915 26,622 -17,707 10,634 28,106 -17,472 -29,099 123,606 170,177 -46,8 March 8,899 29,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,687 -45,2 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,3 May 9,621 32,523 -22,902 11,720 33,856 -22,136 -41,350 133,003 196,488 -63,4 June 9,841 29,659 -19,818 11,772 31,036 -19,264 -30,691 134,819 184,774 -49,5 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,2 August 10,761 31,993 -21,232 12,737 33,250 -20,513 -40,537 132,326 193,376 -61,5 September <td< td=""><td>2013 January</td><td>b 8 881</td><td>^b 32 361</td><td>b -23 480</td><td>10 825</td><td>33 967</td><td>-23 142</td><td>-38 655</td><td>123 390</td><td>185 187</td><td>-61,797</td></td<>	2013 January	b 8 881	^b 32 361	b -23 480	10 825	33 967	-23 142	-38 655	123 390	185 187	-61,797
March 8,899 29,308 -20,409 11,224 30,844 -19,620 -25,653 136,414 181,687 -45,2 April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,5 May 9,621 32,523 -22,902 11,720 33,856 -22,136 -41,350 133,003 196,488 -63,4 June 9,841 29,659 -19,818 11,772 31,036 -19,264 -30,691 134,819 184,774 -49,5 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,5 August 10,761 31,993 -21,232 12,737 32,032 -19,533 -45,697 132,326 193,376 -61,6 September 10,511 30,758 -20,247 12,493 32,032 -19,533 -45,087 141,483 206,103 -64,6 October <td< td=""><td></td><td>-,</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-46,571</td></td<>		-,									-46,571
April 8,705 31,072 -22,367 10,737 32,544 -21,807 -39,116 129,728 190,651 -60,6 May 9,621 32,523 -22,902 11,720 33,856 -22,136 -41,350 133,003 196,488 -63,4 June 9,841 29,659 -19,818 11,772 31,036 -19,264 -30,691 134,819 184,774 -49,5 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,5 August 10,761 31,993 -21,232 12,737 33,250 -20,513 -40,537 132,326 193,376 -61,6 September 10,511 30,758 -20,247 12,493 32,032 -19,539 8-43,690 R 128,667 R 191,895 R -63,4 October 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,087 141,483 206,103 -64,6 10-Month Total 98,598 309,386 -210,789 118,702 323,470 -204,767											-45,273
May 9,621 32,523 -22,902 11,720 33,856 -22,136 -41,350 133,003 196,488 -63,4 June 9,841 29,659 -19,818 11,772 31,036 -19,264 -30,691 134,819 184,774 -49,9 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,8 August 10,761 31,993 -21,232 12,737 33,250 -20,513 -40,537 132,326 193,376 -61,6 September 10,511 30,758 -20,247 12,493 32,032 -19,539 R-43,690 R 128,667 R 191,895 R -63,2 October 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,087 141,483 206,103 -64,6 10-Month Total 98,598 309,386 -210,789 118,702 323,470 -204,767 -382,055 1,311,045 1,897,866 -586,8											-60,923
June 9,841 29,659 -19,818 11,772 31,036 -19,264 -30,691 134,819 184,774 -49,61 July 11,132 33,468 -22,336 13,153 34,894 -21,741 -48,177 127,610 197,528 -69,6 August 10,761 31,993 -21,232 12,737 33,250 -20,513 -40,637 132,326 193,376 -61,6 September 10,511 30,758 -20,247 12,493 32,032 -19,539 R-43,690 R 128,667 R 191,895 R-63,2 October 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,087 141,483 206,103 -64,6 10-Month Total 98,598 309,386 -210,789 118,702 323,470 -204,767 -382,055 1,311,045 1,897,866 -586,8											-63,486
July											-49,955
August											-69,918
September 10,511 30,758 -20,247 12,493 32,032 -19,539 R -43,690 R 128,667 R 191,895 R -63,690 October 11,332 31,623 -20,291 13,407 32,940 -19,533 -45,087 141,483 206,103 -64,6 10-Month Total 98,598 309,386 -210,789 118,702 323,470 -204,767 -382,055 1,311,045 1,897,866 -586,8											-61,050
October											R -63,229
10-Month Total 98,598 309,386 -210,789 118,702 323,470 -204,767 -382,055 1,311,045 1,897,866 -586,6											-64,620
2012 10 Month Total 94 202 351 493 -257 291 111 397 361 252 -249 854 -369 289 1 284 770 1 903 914 -619 4											-586,821
	2012 10-Month Total	94,202	351,493	-257,291	111,397	361,252	-249,854	-369,289	1,284,770	1,903,914	-619,144 -605,507

R=Revised.

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

Puerto Rico, and the Virgin Islands.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual and monthly data beginning in 1974.

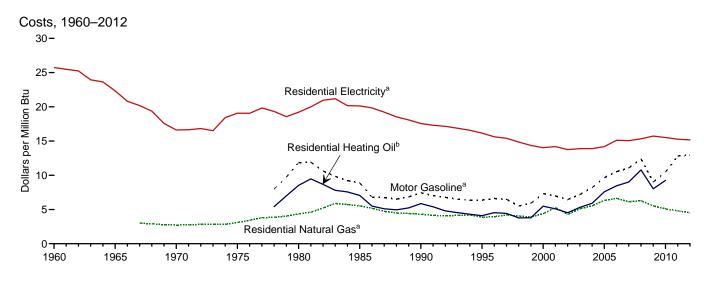
Sources: See end of section.

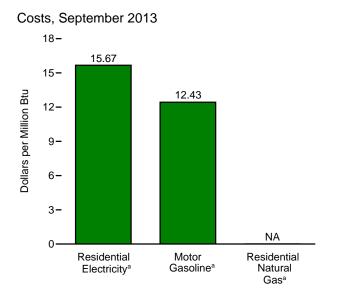
 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b Through 2012, data are for crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels. Beginning in 2013, data are for petroleum products and preparations.

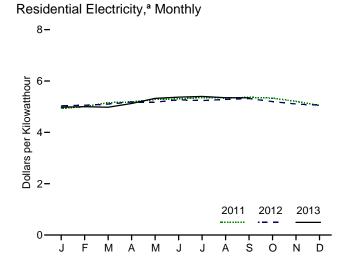
^c Petroleum, coal, natural gas, and electricity.

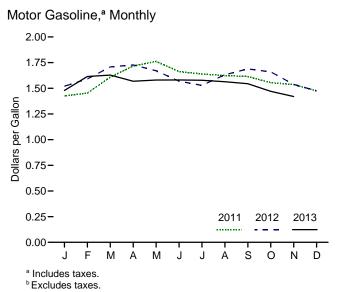
Notes: • Monthly data are not adjusted for seasonal variations. • See Note, "Merchandise Trade Value," at end of section. • Totals may not equal sum of

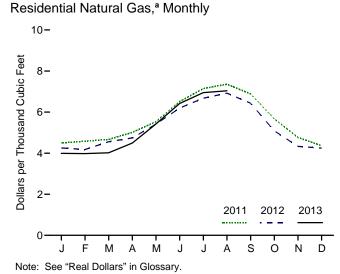
Figure 1.6 Cost of Fuels to End Users in Real (1982–1984) Dollars











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

NA=Not available.

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

	Consumer Price Index, All Urban Consumers ^a	Motor G	Basoline ^b		dential ng Oil ^c		lential II 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 per Million Btu
1960 Average	29.6	NA	NA	NA	NA	NA	NA	8.8	25.74
1965 Average		NA	NA	NA	NA	NA	NA	7.6	22.33
1970 Average		NA	NA	NA	NA	2.81	2.72	5.7	16.62
1975 Average		NA	NA	NA	NA	3.18	3.12	6.5	19.07
1980 Average	82.4	1.482	11.85	1.182	8.52	4.47	4.36	6.6	19.21
1985 Average	107.6	1.112	8.89	0.979	7.06	5.69	5.52	6.87	20.13
1990 Average	130.7	0.931	7.44	0.813	5.86	4.44	4.31	5.99	17.56
1995 Average	152.4	0.791	6.37	0.569	4.10	3.98	3.87	5.51	16.15
2000 Average	172.2	0.908	7.32	0.761	5.49	4.51	4.39	4.79	14.02
2001 Average	177.1	0.864	6.97	0.706	5.09	5.44	5.28	4.84	14.20
2002 Average		0.801	6.46	0.628	4.52	4.39	4.28	4.69	13.75
2003 Average	184.0	0.890	7.18	0.736	5.31	5.23	5.09	4.74	13.89
2004 Average	188.9	1.018	8.20	0.819	5.91	5.69	5.55	4.74	13.89
2005 Average		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
2007 Average	207.342	1.374	11.06	1.250	9.01	6.31	6.14	5.14	15.05
2008 Average	215.303	1.541	12.40	1.495	10.78	6.45	6.28	5.23	15.33
2009 Average	214.537	1.119	9.01	1.112	8.02	5.66	5.52	5.37	15.72
2010 Average	218.056	1.301	10.47	1.283	9.25	5.22	5.11	5.29	15.51
2011 January	220.223	1.425	11.47	1.476	10.64	4.50	4.40	4.94	14.47
February	221.309	1.453	11.69	1.540	11.11	4.58	4.48	5.00	14.65
March	223.467	1.608	12.95	NA	NA	4.67	4.57	5.16	15.11
April	224.906	1.718	13.83	NA	NA	5.01	4.90	5.19	15.21
May	225.964	1.762	14.18	NA	NA	5.53	5.41	5.28	15.47
June	225.722	1.663	13.38	NA	NA	6.51	6.37	5.30	15.54
July		1.639	13.19	NA	NA	7.14	6.99	5.35	15.68
August		1.624	13.07	NA	NA	7.36	7.20	5.34	15.64
September		1.615	13.00	NA	NA	6.89	6.74	5.36	15.72
October	226.421	1.555	12.52	NA	NA	5.68	5.55	5.34	15.64
November	226.230	1.536	12.36	NA	NA	4.77	4.66	5.21	15.26
December		1.475	11.87	NA	NA	4.36	4.27	5.05	14.81
Average	224.939	1.590	12.80	NA	NA	4.90	4.80	5.21	15.27
2012 January	226.665	1.521	12.24	NA	NA	4.25	4.16	5.03	R 14.75
February	227.663	1.591	12.80	NA	NA	4.18	4.09	5.06	R 14.82
March	229.392	1.708	13.75	NA	NA	4.56	4.46	^R 5.10	R 14.95
April		1.728	13.91	NA	NA	4.74	4.64	5.18	R 15.18
May		1.670	13.44	NA	NA	5.41	5.30	^R 5.18	R 15.18
June		1.570	12.63	NA	NA	6.20	6.06	5.27	15.44
July		1.529	12.30	NA	NA	6.67	6.53	5.24	15.35
August	230.379	1.632	13.13	NA	NA	6.92	6.77	5.28	15.48
September	231.407	1.689	13.59	NA	NA	6.44	6.30	R 5.32	R 15.58
October		1.660	13.36	NA	NA	5.09	4.98	5.20	15.24 R 14.06
November		1.539	12.38	NA	NA	4.33	4.24	5.10	R 14.96
December		1.475	11.87	NA	NA	4.25	4.16	5.06	14.83
Average	229.594	1.609	12.95	NA	NA	4.65	4.55	5.17	15.17
2013 January	230.280	1.480	11.91	NA	NA	3.99	3.90	4.98	14.60
February	232.166	1.614	12.99	NA	NA	3.98	3.89	5.00	14.66
March		1.629	13.11	NA	NA	4.02	3.93	4.98	14.59
April		1.568	12.62	NA	NA	4.49	4.40	5.13	15.02
May		1.581	12.72	NA	NA	5.42	5.31	5.32	15.60
June		1.582	12.73	NA	NA	6.42	6.28	5.37	15.74
July	233.596	1.578	12.70	NA	NA	6.95	6.80	5.40	15.82
August	233.877	1.564	12.59	NA	NA	7.04	6.89	5.35	15.68
September		1.544	12.43	NA	NA	NA	NA	^R 5.35	R 15.67
October		1.470	11.83	NA	NA	NA	NA	NA	NA
November	233.069	1.420	11.43	NA	NA	NA	NA	NA	NA

 $^{^{\}rm a}\,$ Data are U.S. city averages for all items, and are not seasonally adjusted. $^{\rm b}\,$ Includes taxes.

b Includes taxes.
c Excludes taxes.
R=Revised. NA=Not available.
Notes: • See "Real Dollars" in Glossary. • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • Annual averages may not equal average of months due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

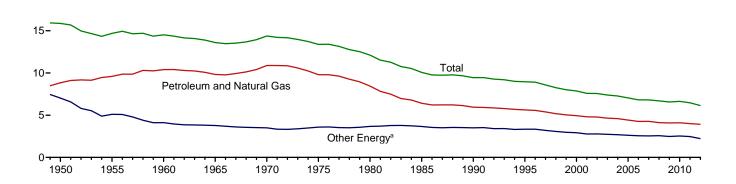
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 1960 and monthly data

beginning in 1995.

Sources: • Fuel Prices: Tables 9.4 (All Grades), 9.8, and 9.10, adjusted by the CPI; and Monthy Energy Review, September 2012, Table 9.8c. • 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.

Selected years of data from 1960 through 1972 have been added to this table. For all years of data from 1973 through 2013, see the "Web Page" cited above.

Figure 1.7 Primary Energy Consumption per Real Dollar of Gross Domestic Product, 1949–2012 (Thousand Btu per Chained (2009) Dollar)



Note: See "Real Dollars" in Glossary.

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

Source: Table 1.7.

20-

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

	E	nergy Consumptio	n	Gross Domestic	Energy Cons	sumption per Real D	ollar of GDP
	Petroleum and Natural Gas	Other Energy ^a	Total	Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total
		Quadrillion Btu		Billion Chained (2009) Dollars	Thousand	Btu per Chained (200	09) Dollar
950	19.284	15.332	34.616	2,181.9	8.84	7.03	15.86
955	26.253	13.955	40.208	2,736.4	9.59	5.10	14.69
960	32.305	12.782	45.086	3.105.8	10.40	4.12	14.52
965	39.014	15.001	54.015	3,972.9	9.82	3.78	13.60
970	51.315	16.523	67.838	4.717.7	10.88	3.50	14.38
975	52.680	19.284	71.965	5.379.5	9.79	3.58	13.38
980	54.440	23.627	78.067	6.443.4	8.45	3.67	12.12
985	48.628	27.764	76.392	7,585.7	6.41	3.66	10.07
990	53.155	31.330	84.485	8,945.4	5.94	3.50	9.44
995	57.110	33.920	91.029	10,163.7	5.62	3.34	8.96
000	62.086	36.729	98.814	12,565.2	4.94	2.92	7.86
001	60.958	35.210	96.168	12,684.4	4.81	2.78	7.58
002	61.734	35.911	97.645	12,909.7	4.78	2.78	7.56
003	61.642	36.301	97.943	13,270.0	4.65	2.74	7.38
004	63.215	R 36.946	R 100.161	13,774.0	4.59	2.68	7.27
005	62.953	37.328	100.282	14,235.6	4.42	2.62	7.04
006	62.194	_ 37.435	R 99.629	14,615.2	4.26	2.56	6.82
007	63.437	^R 37.881	^R _101.317	14,876.8	4.26	2.55	6.81
800	61.123	R 38.169	R 99.292	14,833.6	4.12	2.57	6.69
009	58.819	R 35.777	R 94.596	14,417.9	4.08	2.48	6.56
010	60.584	37.432	98.016	14,779.4	4.10	2.53	6.63
011	60.228	37.139	97.366	15,052.4	4.00	2.47	6.47
012	^R 60.551	R 34.364	^R 94.915	15,470.7	R 3.91	2.22	6.14

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

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary (Excel and CSV files) for all available annual data beginning in 1949.
Sources: • Energy Consumption: Table 1.3. • Gross Domestic Product: U.S. Department of Commerce, Bureau of Economic Analysis, National Income and Product Accounts (December 05, 2013), Table 1.1.6.

Selected years of data from 1949 through 1972 have been added to this table. For all years of data from 1973 through 2013, see the "Web Page" cited above.

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 Columbia.

Figure 1.8 Motor Vehicle Fuel Economy, 1949–2011 (Miles per Gallon)

25Light-Duty Vehicles, Short Wheelbase^a

20Light-Duty Vehicles, Long Wheelbase^b

105-

1980

1985

1990

1995

2000

2005

2010

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

1965

1960

Source: Table 1.8.

1955

1950

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

1970

1975

		ght-Duty Vehic Short Wheelbas			ight-Duty Vehicl Long Wheelbas		н	eavy-Duty Truc	ks ^c	A	II Motor Vehicle	es ^d
	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy	Mileage	Fuel Consumption	Fuel Economy
	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon	Miles per Vehicle	Gallons per Vehicle	Miles per Gallon
1950	9,060	603	15.0	(e)	(e)	(e)	10,316	1,229	8.4	9,321	725	12.8
1955	9,447	645	14.6	(e)	(e)	(e)	10,576	1,293	8.2	9,661	761	12.7
1960 1965	9,518	668	14.3	(e)	(e)	(e)	10,693	1,333	8.0	9,732	784 707	12.4 12.5
1905	9,603 9,989	661 737	14.5 13.5	8,676	866	10.0	10,851 13,565	1,387 2,467	7.8 5.5	9,826 9,976	787 830	12.5
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.0
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1990	10.504	520	20.2	11.902	738	16.1	23,603	3,953	6.0	11.107	677	16.4
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1
2002	12,202	555	22.0	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9
2003	12,325	556	22.2	11,287	697	16.2	28,093	4,215	6.7	12,208	718	17.0
2004	12,460	553	22.5	11,184	690	16.2	27,023	4,057	6.7	12,200	714	17.1
2005	12,510	567	22.1	10,920	617	17.7	26,235	4,385	6.0	12,082	706	17.1
2006	12,485	554	22.5	10,920	612	17.8	25,231	4,304	5.9	12,017	698	17.2
2007	^a 10,710	a 468	a 22.9	^b 14,970	b 877	b 17.1	c 28,290	¢ 4,398	6.4	11,915	693	17.2
2008	10,290	435	23.7	15,256	880	17.3	28,573	4,387	6.5	11,631	667	17.4
2009	10,391	442	23.5	15,252	882	17.3	26,274	4,037	6.5	11,631	661	17.6
2010	10,650	456	23.3	15,474	901	17.2	26,604	4,180	6.4	11,866	681	17.4
2011 ^P	10,614	460	23.1	14,596	855	17.1	26,016	4,126	6.3	11,640	666	17.5

^a Through 1989, data are for passenger cars and motorcycles. For 1990–2006, data are for passenger cars only. Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase less than or equal to 121 inches.

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

Sources: • Light-Duty Vehicles, Short Wheelbase: 1990–1994—U.S. Department of Transportation, Bureau of Transportation Statistics 1998, Table 4-13. • All Other Data: 1949–1994—Federal Highway Administration (FHWA), Highway Statistics, annual reports, Table VM-10.14.

Selected years of data from 1949 through 1972 have been added to this table. For all years of data from 1949 through 2013, see the "Web Page" cited above.

wheelbase less than or equal to 121 inches.

^b For 1966–2006, data are for vans, pickup trucks, and sport utility vehicles.

Beginning in 2007, data are for light-duty vehicles (passenger cars, light trucks, vans, and sport utility vehicles) with a wheelbase greater than 121 inches.

^c For 1949–1965, data are for single-unit trucks with 2 axles and 6 or more tires, combination trucks, and other vehicles with 2 axles and 4 tires that are not passenger cars. For 1965–2006, data are for single-unit trucks with 2 axles and 6 or more tires, and combination trucks. Beginning in 2007, data are for single-unit trucks with 2 axles and 6 or more tires (or a gross vehicle weight rating exceeding 10,000 pounds), and combination trucks.

^d Includes buses and motorcycles, which are not separately displayed.

e Included in "Heavy-Duty Trucks."

P=Preliminary

Table 1.9 Heating Degree-Days by Census Division

			November					Cumulative hrough Nove		
				Percent	Change				Percent	Change
Census Divisions	Normala	2012	2013	Normal to 2013	2012 to 2013	Normala	2012	2013	Normal to 2013	2012 to 2013
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	727	774	782	8	1	1,384	1,282	1,386	(c)	8
Middle Atlantic New Jersey, New York, Pennsylvania	667	774	732	10	-1	1,384	1,282	1,386	(s) -1	3
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	757	739	822	9	6	1,193	1,146	1,401	5	(s)
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	840	749	867	3	16	1,447	1,420	1,446	(s)	2
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	339	414	384	13	-7	528	594	558	6	-6
East South Central Alabama, Kentucky, Mississippi, Tennessee	449	514	538	20	5	695	792	751	8	-5
West South Central Arkansas, Louisiana, Oklahoma, Texas	293	239	361	23	51	385	358	450	17	26
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	676	526	588	-13	12	1,219	923	1,035	-15	12
Pacific ^b California, Oregon, Washington	396	330	340	-14	3	690	523	547	-21	5
U.S. Average ^b	539	539	570	6	6	922	891	913	-1	2

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

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. 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 Climatology Series 5-1 (heating degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

b Excludes Alaska and Hawaii.

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

Table 1.10 Cooling Degree-Days by Census Division

			November				January	Cumulative through No		
				Percent	Change				Percent	Change
Census Divisions	Normala	2012	2013	Normal to 2013	2012 to 2013	Normal ^a	2012	2013	Normal to 2013	2012 to 2013
New England Connecticut, Maine, Massachusetts, New Hampshire,										
Rhode Island, Vermont	0	0	0	NM	NM	417	611	615	47	1
Middle Atlantic New Jersey, New York, Pennsylvania	0	0	0	NM	NM	656	895	806	23	-10
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	0	0	0	NM	NM	709	999	749	6	-25
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	0	0	0	NM	NM	927	1,218	974	5	-20
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,										
West Virginia	55	32	65	NM	NM	1,931	2,172	2,032	5	-6
East South Central Alabama, Kentucky, Mississippi, Tennessee	6	1	2	NM	NM	1,544	1,783	1,579	2	-11
West South Central Arkansas, Louisiana, Oklahoma, Texas	31	50	35	NM	NM	2,439	2,898	2,645	8	-9
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	4	14	9	NM	NM	1,243	1,522	1,502	21	-1
Pacific ^b California, Oregon, Washington	4	5	0	NM	NM	703	905	878	25	-3
U.S. Average ^b	15	14	17	NM	NM	1,209	1,478	1,336	11	-10

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

 $\mbox{NM=Not}$ meaningful (because "Normal" is less than 100 or ratio is incalculable).

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

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

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

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

b Excludes Alaska and Hawaii.

Energy Overview

Note. Merchandise Trade Value. Imports data presented are based on the customs values. Those values do not include insurance and freight and are consequently lower than the cost, insurance, and freight (CIF) values, which are also reported by the Bureau of the Census. All exports data, and imports data through 1980, 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.

1993–2009: "U.S. International Trade in Goods and Services," Annual Revisions.

2010–2012: "U.S. International Trade in Goods and Services," 2012 Annual Revisions.

2013: "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.

1994–2009: "U.S. International Trade in Goods and Services," Annual Revisions.

2010–2012: "U.S. International Trade in Goods and Services," 2012 Annual Revisions.

2013: "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.

1993–2009: "U.S. International Trade in Goods and Services," Annual Revisions.

2010–2012: "U.S. International Trade in Goods and Services," 2012 Annual Revisions.

2013: "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.

1992–2009: "U.S. International Trade in Goods and Services," Annual Revisions.

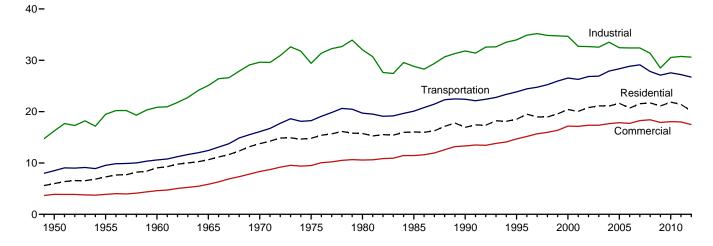
2010–2012: "U.S. International Trade in Goods and Services," 2012 Annual Revisions.

2013: "U.S. International Trade in Goods and Services," FT-900, monthly.

2. Energy Consumption by Sector

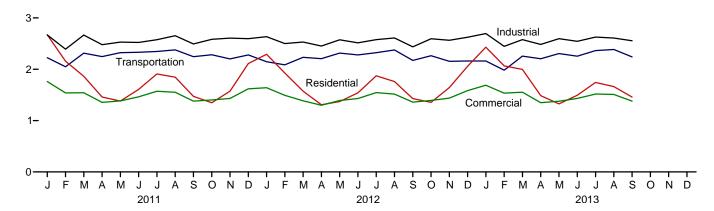
Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1949–2012

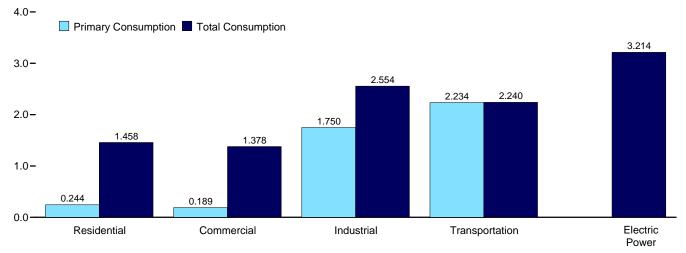


Total Consumption by End-Use Sector, Monthly

4-



By Sector, September 2013



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

Source: Table 2.1.

Table 2.1 Energy Consumption by Sector

(Trillion Btu)

Primary® Total					End-Us	e Sectors				Electric Power		
Primary® Total Primary®		Resid	ential	Comm	erciala	Indus	strialb	Transpe	ortation			
1985 Total		Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye		Primary Total ^h
1985 Total	1950 Total	4.829	5.989	2.834	3.893	13.890	16.241	8.383	8.492	4.679	(s)	34,616
1980 Total											(s)	40,208
1985 Total											(s)	45,086
1970 Total												54,015
1975 Total												67,838
1980 Total	1975 Total	7,990	14,813	4,059	9,492	21,434	29,413	18,210	18,245	20,270	`í	71,965
1985 Total		7,439		4,105	10,578	22,595	32,039	19,659	19,697	24,269	-1	78,067
1990 Total 6,557 16,945 3,896 13,320 21,180 31,810 22,366 22,420 430,495 -9 1995 Total 6,936 18,519 4,191 14,690 22,719 33,971 23,791 2	1985 Total	7,148		3,732	11,451	19,443		20,041	20,088			76,392
1995 Total	1990 Total	6,557	16,945	3,896	13,320	21,180	31,810	22,366	22,420	^d 30,495	-9	84,485
2001 Total	1995 Total	6,936	18,519	4,101	14,690	22,719	33,971	23,791	23,846	33,479		91,029
2002 Total 6,912 20,791 4,132 17,345 21,799 32,662 26,781 26,842 38,016 5 2003 Total 7,238 21,125 4,298 17,346 21,536 32,555 26,845 26,919 38,028 -1 P. 2004 Total 6,993 21,092 4,232 17,659 22,412 33,519 27,817 27,895 38,712 -6 P. 2005 Total 6,990 21,626 4,051 17,857 21,411 32,446 28,751 28,830 39,638 (s) 1 2006 Total 6,6168 20,888 37,47 P.17,710 21,536 32,401 28,751 28,830 39,428 (s) P. 2006 Total 6,668 P. 21,642 3,922 P. 18,256 21,379 P. 32,404 28,275 29,316 40,380 -1 P. 2008 Total 6,696 21,695 4,098 P. 18,465 20,553 31,362 27,747 27,829 39,978 1 P. 2008 Total 6,666 21,111 4,053 17,891 18,776 28,488 27,022 29,116 P. 38,076 (s) P. 2009 Total 6,666 21,111 4,053 17,891 18,776 28,488 27,027 27,560 39,627 7 2009 Total 6,666 21,111 4,053 17,891 18,776 28,488 27,027 27,560 39,627 7 2009 Total 7,000 P. 2009 P. 200		7,159	20,425	4,278	17,175	22,824	34,664	26,489	26,548	38,062		98,814
2003 Total 7,238 21,125 4,298 17,346 21,536 32,555 26,845 26,919 38,028 -1 2005 Total 6,993 21,029 4,232 17,659 22,412 33,519 2,817 27,895 38,712 -6 8,12005 Total 6,699 21,626 4,051 17,857 21,411 32,446 28,272 28,353 39,638 (s) 17,006 Total 6,668 20,688 3,747 817,710 21,536 32,2401 28,71 28,830 39,638 (s) 17,006 Total 6,668 21,636 3,922 818,256 21,379 82,401 29,029 29,116 840,380 -1 8,2007 Total 6,666 21,111 4,053 17,891 18,776 28,488 27,7025 27,107 836,076 (s) 87,000 Total 6,666 21,111 4,053 17,891 18,776 28,488 27,7025 27,107 836,076 (s) 87,000 Total 6,666 21,111 4,053 17,891 18,776 28,488 27,7025 27,107 836,076 (s) 87,000 Total 6,566 21,111 4,053 17,891 18,776 28,488 27,7025 27,107 836,076 (s) 87,000 Total 6,566 21,111 4,053 17,891 18,776 28,488 27,025 27,107 836,076 (s) 87,000 Total 6,506 21,111 4,053 17,891 18,776 28,488 27,025 27,107 836,076 (s) 87,000 Total 6,506 21,111 4,053 17,891 18,776 28,488 27,025 27,107 836,076 (s) 87,000 18,0	2001 Total										-6	96,168
2004 Total 6,993 21,092 4,232 17,659 22,412 33,519 27,817 27,895 38,712 66 8,1000 Total 6,909 21,626 4,051 17,857 21,411 32,446 28,272 28,353 39,638 (s) 1,2006 Total 6,688 21,542 3,922 81,770 21,536 32,401 28,751 28,330 39,638 (s) 8,2007 Total 6,608 21,694 3,922 81,826 30,942 81,950 21,379 81,324,404 29,029 29,116 40,380 -1 8,1000 Total 6,6916 21,695 4,098 81,8405 20,553 31,362 27,747 27,829 39,978 1 8,2009 Total 6,666 21,111 4,053 17,891 18,776 22,488 27,225 27,107 38,076 (s) 8,2009 Total 6,666 21,111 4,053 17,891 18,776 24,882 27,252 27,107 38,076 (s) 8,2009 Total 6,6595 21,853 4,013 18,065 20,296 30,543 27,479 27,580 39,627 7 30,200 10 Total 8,200 10 Tota	2002 Total	6,912	20,791	4,132	17,345	21,799	32,662	26,781	26,842	38,016	5	97,645
2005 Total	2003 Total	7,238	21,125	4,298	17,346	21,536	32,555	26,845	26,919	38,028	-1	97,943
2005 Total	2004 Total	6,993	21,092		17,659	22,412		27,817	27,895	38,712	-6	R 100,161
2006 Total 6,168 20,688 3,747 R17,710 21,536 32,041 28,751 28,830 39,428 (s) R2007 Total 6,608 P21,542 3,922 R18,256 21,379 R32,404 29,029 29,116 R40,380 -1 R,2008 Total 6,916 21,695 4,098 18,405 20,553 31,362 27,747 27,829 39,978 1 R 2008 Total 6,666 21,111 4,053 17,891 18,776 28,488 27,025 27,107 88,076 (s) R 2010 Total 6,6595 21,853 4,013 18,053 20,296 30,543 27,479 27,560 39,627 7 R 2011 January 1,160 2,670 633 1,760 1,835 2,688 2,218 2,225 3,477 3 2 R 2011 January 9,42 2,158 529 1,539 1,518 2,291 2,291 2,041 2,048 3,006 (s) March 760 1,862 447 1,542 1,801 2,685 2,391 2,041 2,048 3,069 -2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2 A 2					17,857							100,282
2007 Total 6,608	2006 Total				R 17,710							R 99,629
2008 Total 6,696 21,695 4,098 18,005 20,553 31,362 27,747 27,829 39,978 1 8 7 8 2010 Total 6,666 21,111 4,053 17,891 18,776 28,488 27,705 27,107 538,076 (s) 8 2010 Total 6,695 21,853 4,013 18,053 20,296 30,543 27,479 27,560 39,627 7 2 2 2 2 2 1,111 4,013 18,053 20,296 30,543 27,479 27,560 39,627 7 2 2 2 2 2 1,111 4,013 18,053 20,296 30,543 27,479 27,560 39,627 7 3 2 2 2 2 2 1,111 4,013 18,053 20,296 30,543 27,479 27,560 39,627 7 3 2 2 3 2 3 3 4,013 18,053 20,296 30,543 27,479 27,560 39,627 7 3 3 3 2 3 2 3 3 3,006 (s) 8 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	2007 Total				R 18,256							R ₁₀₁ ,317
2011 January.	2008 Total										1	R 99,292
2011 January	2009 Total										(s)	R 94,596
February 942 2,158 529 1,539 1,618 2,391 2,041 2,048 3,006 (s) March 760 1,862 447 1,542 1,801 2,665 2,306 2,313 3,069 -2 2,240 2,247 2,895 -1 2,491 2,491 2,491 2,491 2,491 2,491 2,495 -1 2,491 2,491 2,491 2,495 -1 2,491 2,491 2,491 2,491 2,495 -1 2,491 2,491 2,491 2,495 -1 2,491 2,491 2,491 2,495 -1 2,491 2,491 2,491 2,491 2,491 2,495 -1 2,491 2,491 2,491 2,495 -1 2,491	2010 Total	6,595	21,853	4,013	18,053	20,296	30,543	27,479	27,560	39,627	7	98,016
April 474 1,460 297 1,354 1,634 2,479 2,240 2,247 2,895 -1 May 325 1,380 220 1,382 1,642 2,528 2,316 2,323 3,111 -1 June 257 1,608 196 1,463 1,623 2,522 2,323 2,330 3,523 2 July 225 1,908 186 1,571 1,632 2,575 2,340 2,347 4,008 6 August 244 1,846 203 1,551 1,726 2,653 2,370 2,377 3,883 5 September 256 1,473 210 1,379 1,651 2,493 2,238 2,244 3,234 (s) October 374 1,347 284 1,401 1,715 2,582 2,276 2,282 2,963 -1 November 585 1,572 366 1,431 1,749 2,605 2,195 2,201 2,916 -2 December 872 2,111 501 1,618 1,743 2,595 2,273 2,280 3,215 -1 Total 6,483 21,395 4,071 17,990 20,368 30,758 27,136 27,217 39,301 8 2012 January 992 R 2,291 553 R 1,639 R 1,816 R 2,633 2,140 2,147 R 3,210 (s) February 834 R 1,927 478 R 1,492 R 1,707 R 2,500 2,079 2,086 R 2,906 -2 March 562 R 1,573 341 R 1,344 R 1,707 R 2,550 2,077 2,086 R 2,906 -2 March 562 R 1,573 341 R 1,344 R 1,701 R 2,529 2,277 2,233 R 2,889 -5 April 413 R 1,308 272 R 1,298 R 1,629 R 2,452 2,199 2,205 R 2,750 -5 May 297 R 1,370 212 R 1,390 R 1,674 R 2,574 2,308 2,314 R 3,157 -2 June 252 R 1,541 193 R 1,430 R 1,634 R 2,574 2,308 2,344 R 3,157 -2 June 252 R 1,541 193 R 1,430 R 1,634 R 2,574 2,308 2,344 R 3,157 -2 June 252 R 1,541 193 R 1,545 R 1,668 2,577 R 2,316 2,370 R 3,732 R 3 August 247 R 1,760 R 205 R 1,515 R 1,708 R 2,609 R 2,370 2,376 R 3,732 R 3 September 248 R 1,429 202 R 1,580 R 1,581 R 1,583 R 2,609 R 2,370 2,376 R 3,732 R 3 September 838 R 2,057 473 R 1,584 R 1,786 R 2,683 2,155 2,171 R 3,160 2 October 377 R 1,356 275 R 1,393 R 1,754 R 2,565 2,148 2,154 R 2,986 (s) December 838 R 2,057 473 R 1,584 R 1,786 R 2,683 2,154 R 2,160 R 3,174 R 1,760 R 2,431 R 1,349 R 1,545 R 1,629 R 2,370 2,376 R 3,732 R 3 July 233 R 1,444 R 3,38 R 1,517 1,746 R 2,685 2,154 2,161 R 3,297 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,245 2,199 2,265 R 2,566 R 3,057 -5 April 509 R 1,485 311 R 1,349 1,688 R 2,484 2,197 2,204 R 2,666 R 3,669 R 2,966 (s) December 838 R 2,057 473 R 1,584 R 1,786 R 2,685 2,154 2,161 R 3,297 -4 February 926 R 2,066 516 R 1,537 R 1,576 R 2,286 R 2,057 2,285 R 3,												9,326
April 474 1,460 297 1,354 1,634 2,479 2,240 2,247 2,895 -1 May 325 1,380 220 1,382 1,642 2,528 2,316 2,323 3,111 -1 June 257 1,608 196 1,463 1,623 2,522 2,323 2,330 3,523 2 July 225 1,908 186 1,571 1,632 2,575 2,340 2,347 4,008 6 August 244 1,846 203 1,551 1,726 2,655 2,340 2,347 4,008 6 August 244 1,846 203 1,551 1,726 2,655 2,340 2,347 4,008 6 Cotober 374 1,347 284 1,401 1,715 2,582 2,276 2,282 2,963 -1 November 585 1,572 366 1,431 1,749 2,605 2,195 2,201 2,916 -2 December 872 2,111 501 1,618 1,743 2,595 2,273 2,280 3,215 -1 Total 6,483 21,395 4,071 17,990 20,368 30,758 27,136 27,217 39,301 8 2012 January 992 R 2,291 553 R 1,639 R 1,816 R 2,633 2,140 2,147 R 3,210 (s) February 834 R 1,927 478 R 1,492 R 1,707 R 2,500 2,079 2,086 R 2,906 -2 March 562 R 1,573 341 R 1,344 R 1,707 R 2,550 2,077 2,086 R 2,906 -2 March 562 R 1,573 341 R 1,344 R 1,701 R 2,529 2,227 2,233 R 2,889 -5 April 413 R 1,308 272 R 1,298 R 1,629 R 2,452 2,199 2,205 R 2,750 -5 May 297 R 3,370 212 R 1,390 R 1,674 R 2,574 2,308 2,314 R 3,157 -2 June 252 R 1,541 193 R 1,430 R 1,634 R 2,574 2,308 2,344 R 3,157 -2 June 252 R 1,541 193 R 1,430 R 1,634 R 2,574 2,308 2,344 R 3,157 -2 June 252 R 1,541 193 R 1,430 R 1,638 R 2,515 2,272 2,278 R 3,409 2 July 239 R 1,873 R 1,87 R 1,535 R 1,639 R 1,634 R 2,594 2,155 2,171 R 3,160 2 July 239 R 1,873 R 1,87 R 1,545 R 1,658 R 2,515 2,272 2,278 R 3,409 2 July 239 R 1,873 R 1,87 R 1,545 R 1,658 R 2,515 2,272 2,278 R 3,409 2 July 239 R 1,873 R 1,87 R 1,545 R 1,658 R 2,515 2,272 2,278 R 3,409 2 July 239 R 1,873 R 1,87 R 1,545 R 1,658 R 2,515 2,272 2,278 R 3,409 2 July 239 R 1,873 R 1,87 R 1,545 R 1,658 R 2,515 2,272 2,278 R 3,921 R 5 August 247 R 1,760 R 2,05 R 1,515 R 1,708 R 2,609 R 2,370 2,376 R 3,732 R 3 September 248 R 1,429 202 R 1,540 R 1,550 R 2,565 2,144 R 2,161 R 3,297 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,485 2,145 R 2,160 R 3,174 1 R 2,160 C 2 October 377 R 1,356 275 R 1,393 R 1,764 R 2,565 2,148 2,154 R 2,996 (s) December 838 R 2,057 473 R 1,584 R 1,790 R 2,245 2,248 2,256 R 3,057 -5 April 509											(s)	8,136
May 325 1,380 220 1,382 1,642 2,528 2,316 2,323 3,111 -1 June 257 1,608 196 1,463 1,623 2,525 2,323 2,330 3,523 2 July 235 1,908 186 1,571 1,632 2,575 2,340 2,347 4,008 6 August 244 1,846 203 1,551 1,726 2,653 2,370 2,347 4,008 6 September 256 1,473 210 1,379 1,651 2,493 2,238 2,244 3,234 (s) October 374 1,347 284 1,401 1,715 2,582 2,276 2,282 2,963 -1 November 585 1,572 366 1,431 1,743 2,605 2,196 2,201 2,963 -1 Total 6,483 21,31 50 1,618 1,743 2,595 2,273<												8,381
June 257 1,608 196 1,463 1,623 2,522 2,323 2,330 3,523 2 July 235 1,908 186 1,571 1,632 2,575 2,340 2,347 4,008 6 August 244 1,846 203 1,551 1,726 2,553 2,370 2,377 3,883 5 September 256 1,473 210 1,379 1,651 2,483 2,238 2,244 3,234 (s) October 374 1,347 284 1,401 1,715 2,582 2,76 2,282 2,963 -1 November 585 1,572 366 1,431 1,749 2,605 2,195 2,201 2,916 -2 December 872 2,111 501 1,618 1,743 2,595 2,273 2,280 3,215 -1 Total 6,483 21,395 4,071 17,990 20,368 30,758 27,136 27,217 39,301 8 2012 January 992 8,291 553 81,639 81,816 82,633 2,140 2,147 83,210 (s) February 834 81,927 478 81,492 81,707 82,500 2,079 2,086 82,906 -2 March 562 81,573 341 81,334 81,701 82,529 2,227 2,233 82,889 -5 April 413 81,308 272 81,298 81,629 81,629 2,227 2,233 82,889 -5 May 297 81,370 212 81,390 81,674 82,574 2,308 2,314 83,157 -2 June 252 81,541 193 81,430 81,638 82,654 2,308 2,314 83,157 -2 June 252 81,541 193 81,430 81,638 82,654 2,308 2,314 83,157 -2 June 252 81,541 193 81,430 81,638 82,657 82,722 2,72 8,3409 2 July 239 81,873 8187 81,430 81,638 82,659 82,772 2,316 2,322 83,921 85 August 247 81,760 8205 81,515 81,688 82,609 82,370 2,376 83,732 83 September 248 81,429 202 81,380 81,754 82,655 2,272 2,728 83,409 2 October 377 81,356 275 81,393 81,754 82,655 2,148 2,154 82,986 (s) December 838 82,057 473 81,554 81,666 2,577 82,316 2,322 83,921 85 August 247 81,760 8205 81,515 81,768 82,669 82,370 2,376 83,732 83 September 838 82,057 473 81,554 81,668 2,663 2,154 82,154 82,942 (s) November 632 81,643 379 81,554 81,668 82,669 2,154 82,154 82,940 (s) November 632 87,643 379 81,354 81,767 82,665 2,148 2,154 82,940 (s) November 838 82,057 473 81,554 81,668 82,669 2,154 82,154 82,940 (s) November 838 82,057 473 81,554 81,668 82,669 2,154 82,548 2,264 82,942 (s) November 838 82,057 473 81,554 81,668 82,669 2,154 82,548 2,264 82,942 (s) November 838 82,057 473 81,554 81,668 82,669 2,154 82,548 2,254 82,940 82,154 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,946 82,94												7,539
July 235 1,908 186 1,571 1,632 2,575 2,340 2,347 4,008 6 August 244 1,846 203 1,551 1,726 2,653 2,370 2,377 3,883 5 September 256 1,473 210 1,379 1,651 2,493 2,238 2,244 3,234 (s) October 374 1,347 284 1,401 1,715 2,582 2,276 2,282 2,963 -1 November 585 1,572 366 1,431 1,749 2,605 2,195 2,201 2,916 -2 December 872 2,111 501 1,618 1,743 2,595 2,273 2,280 3,215 -1 Total 6,483 21,395 4,071 17,990 20,368 30,758 27,136 27,217 39,301 8 2012 January 992 R 2,291 553 R 1,639 R 1,816 R 2,633 2,140 2,147 R 3,210 (s) February 834 R 1,927 478 R 1,492 R 1,707 R 2,500 2,079 2,086 R 2,906 -2 February 834 R 1,927 478 R 1,392 R 1,707 R 2,500 2,079 2,086 R 2,906 -2 April 413 R 1,308 272 R 1,288 R 1,629 R 2,452 2,199 2,205 R 2,750 -5 May 297 R 1,370 212 R 1,390 R 1,638 R 2,515 2,72 2,72 2,78 R 3,409 2 Julne 252 R 1,541 193 R 1,430 R 1,638 R 2,515 2,72 2,72 R 3,409 2 July 239 R 1,873 R 187 R 1,545 R 1,656 2,577 R 2,316 2,322 R 3,921 R 5 August 247 R 1,760 R 205 R 1,515 R 1,708 R 2,600 R 2,370 R 3,732 R 3 September 248 R 1,429 202 R 1,360 R 1,621 R 2,436 2,165 2,171 R 3,160 2 October 377 R 1,356 275 R 1,393 R 1,744 R 2,565 2,148 2,154 R 2,896 (s) December 838 R 2,057 473 R 1,544 R 1,744 R 2,565 2,148 2,154 R 2,896 (s) December 838 R 2,057 473 R 1,544 R 1,766 R 2,633 R 2,445 1,975 1,981 R 2,916 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,												7,613
August 244 1,846 203 1,551 1,726 2,653 2,370 2,377 3,883 5 September 256 1,473 210 1,379 1,651 2,493 2,238 2,244 3,234 (s) October 374 1,347 284 1,401 1,715 2,582 2,276 2,282 2,963 -1 November 585 1,572 366 1,431 1,749 2,605 2,195 2,201 2,916 -2 December 872 2,111 501 1,618 1,743 2,595 2,273 2,280 3,215 -1 Total 6,483 21,395 4,071 17,990 20,368 30,758 27,136 27,217 39,301 8 2012 January 992 R 2,291 553 R 1,639 R 1,816 R 2,633 2,140 2,147 R 3,210 (s) February 834 R 1,927 478 R 1,492 R 1,707 R 2,500 2,079 2,086 R 2,906 -2 March 562 R 1,573 341 R 1,384 R 1,701 R 2,529 2,227 2,233 R 2,889 -5 April 413 R 1,308 272 R 1,298 R 1,629 R 2,452 2,199 2,205 R 2,750 -5 May 297 R 1,370 212 R 1,390 R 1,674 R 2,574 2,308 2,314 R 3,157 -2 June 255 R 1,541 193 R 1,430 R 1,638 R 2,515 2,272 2,278 R 3,409 2 July 239 R 1,873 R 187 R 1,545 R 1,668 R 2,517 R 2,316 R 3,322 R 3 September 248 R 1,429 202 R 1,360 R 1,624 R 2,569 2,370 2,376 R 3,732 R 3 September 248 R 1,429 202 R 1,360 R 1,624 R 2,594 2,456 2,111 R 3,160 2 October 377 R 1,356 275 R 1,993 R 1,754 R 2,594 R 2,258 2,264 R 2,942 (s) November 632 R 1,643 379 R 1,474 R 2,565 2,148 2,154 R 2,896 (s) December 838 R 2,057 473 R 1,555 1,744 R 2,565 2,148 2,154 R 2,896 (s) December 838 R 2,057 473 R 1,555 1,744 R 2,565 2,148 2,154 R 2,896 (s) December 838 R 2,057 473 R 1,556 275 R 1,993 R 1,754 R 2,693 R 2,260 R 3,057 -5 April 5,931 R 20,122 R 3,770 R 17,472 R 20,435 R 30,612 26,634 R 2,6710 R 38,146 R -1 Total 5,931 R 20,122 R 3,770 R 17,472 R 20,435 R 30,612 26,634 R 2,6710 R 38,146 R -1 February 926 R 2,066 516 R 1,539 1,688 R 2,484 2,197 2,204 R 2,817 -7 April 509 R 1,485 311 R 1,349 1,688 R 2,484 2,197 2,204 R 2,817 -7 April 509 R 1,485 311 R 1,349 1,688 R 2,484 2,197 2,204 R 2,817 -7 April 509 R 1,485 311 R 1,349 1,688 R 2,484 2,197 2,204 R 2,817 -7 April 509 R 1,485 311 R 1,349 1,688 R 2,484 2,197 2,204 R 2,817 -7 April 509 R 1,485 311 R 1,349 1,688 R 2,484 2,197 2,204 R 2,817 -7 April 509 R 1,485 311 R 1,349 1,688 R 2,484 2,197 2,204 R 2,817 -7 April 509 R 1,485 311 R 1,349												7,925
September 256												8,408
October 374 1,347 284 1,401 1,715 2,582 2,276 2,282 2,963 -1 November 585 1,572 366 1,431 1,743 2,595 2,201 2,916 -2 December 872 2,111 501 1,618 1,743 2,595 2,273 2,280 3,215 -1 Total 6,483 21,395 4,071 17,990 20,368 30,758 27,136 27,217 39,301 8 2012 January 992 R2,291 553 R 1,639 R 1,639 R 1,816 R 2,633 2,140 2,147 R 3,210 (s) February 834 R 1,927 478 R 1,492 R 1,701 R 2,500 2.079 2.086 R 2,906 -2 March 562 R 1,573 341 R 1,384 R 1,701 R 2,500 2.277 2.233 R 2,889 -5 April 413 R 1,303 272 R 1,384	August											8,430
November 585												7,589
December 872 2,111 501 1,618 1,743 2,595 2,273 2,280 3,215 -1 Total 6,483 21,395 4,071 17,990 20,368 30,758 27,136 27,217 39,301 8 2012 January 992 R 2,291 553 R 1,639 R 1,816 R 2,633 2,140 2,147 R 3,210 (s) February 834 R 1,927 478 R 1,492 R 1,707 R 2,500 2,079 2,086 R 2,906 -2 March 562 R 1,573 341 R 1,384 R 1,707 R 2,500 2,079 2,086 R 2,906 -2 April 413 R 1,308 272 R 1,298 R 1,629 R 2,452 2,199 2,205 R 2,750 -5 May 297 R 1,370 212 R 1,390 R 1,674 R 2,574 2,308 2,314 R 3,157 -2 June 252 R 1,541 193 R 1,430 R 1,638 R 2,515 2,272 2,278 R 3,409 2 July 239 R 1,873 R 187 R 1,545 R 1,686 2,577 R 2,316 2,322 R 3,921 R 5 August 247 R 1,760 R 205 R 1,515 R 1,708 R 2,609 R 2,370 2,376 R 3,732 R 3 September 248 R 1,429 202 R 1,360 R 1,621 R 2,436 2,165 2,171 R 3,160 2 October 377 R 1,356 275 R 1,393 R 1,754 R 2,594 R 2,588 2,646 R 2,942 (s) November 632 R 1,643 379 R 1,438 R 1,744 R 2,565 2,148 2,154 R 2,896 (s) December 838 R 2,057 473 R 1,584 R 1,786 R 2,623 2,154 R 2,160 R 3,174 1 Total 5,931 R 20,122 R 3,770 R 17,472 R 20,435 R 30,612 26,634 R 26,710 R 38,146 R 1 Total 5,931 R 20,122 R 3,770 R 17,472 R 20,435 R 30,612 26,634 R 26,710 R 38,146 R 1 March 837 R 1,997 474 R 1,553 1,765 R 2,576 2,249 2,256 R 3,057 -5 April 1,067 R 2,431 572 R 1,688 1,884 R 2,695 2,154 2,161 R 3,297 -4 March 837 R 1,997 474 R 1,553 1,765 R 2,576 2,249 2,256 R 3,057 -5 April 1,067 R 2,431 572 R 1,688 1,884 R 2,695 2,154 2,161 R 3,297 -4 March 837 R 1,997 474 R 1,553 1,765 R 2,576 2,249 2,256 R 3,057 -5 April 3,104 233 R 1,744 183 R 1,349 1,688 R 2,484 2,197 2,204 R 2,817 -7 May 318 R 1,325 219 R 1,377 R 1,720 R 2,595 2,299 2,306 R 3,046 -6 June 241 R 1,493 181 R 1,339 1,78 R 1,509 E 2,554 E 2,234 E 2,254 R 3,376 -3 July 233 R 1,744 183 R 1,517 1,746 R 2,627 2,357 2,363 R 3,733 (s) August 231 R 1,662 188 R 1,509 1,728 R 2,560 2,490 2,256 R 3,057 -5 April 244 E 1,458 E 189 E 1,378 E 1,5652 E 23,128 E 20,091 E 20,151 29,094 E -31 E	November											7,611 7,808
Total 6,483 21,395 4,071 17,990 20,368 30,758 27,136 27,217 39,301 8 2012 January 992	December					1,749						8,602
February 834 R 1,927 478 R 1,492 R 1,707 R 2,500 2,079 2,086 R 2,906 -2 March 562 R 1,573 341 R 1,384 R 1,701 R 2,529 2,227 2,233 R 2,889 -5 April 413 R 1,308 272 R 1,298 R 1,629 R 2,452 2,199 2,205 R 2,750 -5 May 297 R 1,370 212 R 1,390 R 1,674 R 2,574 2,308 2,314 R 3,157 -2 June 252 R 1,541 193 R 1,430 R 1,638 R 2,515 2,272 2,278 R 3,409 2 July 239 R 1,873 R 187 R 1,545 R 1,656 2,577 R 2,316 2,322 R 3,921 R 5 Agust 247 R 1,760 R 205 R 1,515 R 1,708 R 2,609 R 2,370 2,376 R 3,732 R 3 September 248 R 1,429 202 R 1,360 R 1,621 R 2,436 2,165 2,171 R 3,160 2 October 377 R 1,356 275 R 1,393 R 1,754 R 2,594 R 2,258 2,264 R 2,942 (s) November 632 R 1,643 379 R 1,438 R 1,744 R 2,565 2,148 2,154 R 2,896 (s) December 838 R 2,057 473 R 1,584 R 1,786 R 2,623 2,154 R 2,160 R 3,174 1 Total 5,931 R 20,122 R 3,770 R 1,742 R 20,435 R 30,612 26,634 R 26,710 R 38,146 R -1 Pebruary 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 March 837 R 1,997 474 R 1,553 1,765 R 2,576 2,249 2,256 R 3,057 -5 April 509 R 1,485 311 R 1,349 1,688 R 2,444 2,197 2,204 R 2,817 -7 May 318 R 1,325 219 R 1,377 R 1,720 R 2,595 2,299 2,306 R 3,046 -6 July 233 R 1,744 183 R 1,517 1,746 R 2,627 2,357 2,363 R 3,733 (s) August 231 R 1,662 188 R 1,509 1,728 R 2,608 2,379 2,385 R 3,639 -1 July 233 R 1,744 183 R 1,517 1,746 R 2,627 2,357 2,363 R 3,733 (s) September E 244 R 1,458 R 189 E 1,378 E 1,576 E 2,5436 2,091 E 20,151 29,094 E -31 E	Total											97,366
February	2012 January	992	R 2.291	553	R 1.639	R 1.816	R 2.633	2.140	2.147	R 3.210	(s)	R 8,711
March 562 R1,573 341 R1,384 R1,701 R2,529 2,227 2,233 R2,889 -5 April 413 R1,308 272 R1,298 R1,629 R2,452 2,199 2,205 R2,750 -5 May 297 R1,370 212 R1,390 R1,674 R2,574 2,308 2,314 R3,157 -2 June 252 R1,541 193 R1,430 R1,638 R2,515 2,272 2,278 R3,409 2 July 239 R1,873 R187 R1,545 R1,656 2,577 R2,316 2,322 R3,921 R5 August 247 R1,760 R205 R1,515 R1,708 R2,609 R2,370 2,376 R3,732 R3 September 248 R1,429 202 R1,360 R1,621 R2,436 2,165 2,171 R3,160 2 Octaber 377 R1,356 275 R1,393 R1,754	February		R 1,927		R 1,492	R 1.707	R 2,500				-2	R 8.003
April 413 R1,308 272 R1,298 R1,629 R2,452 2,199 2,205 R2,750 -5 May 297 R1,370 212 R1,390 R1,674 R2,574 2,308 2,314 R3,157 -2 June 252 R1,541 193 R1,430 R1,638 R2,515 2,272 2,788 R3,409 2 July 239 R1,873 R187 R1,545 R1,656 2,577 R2,316 2,322 R3,921 R5 August 247 R1,760 R205 R1,514 R1,666 2,577 R2,316 2,322 R3,921 R5 September 248 R1,429 202 R1,360 R1,621 R2,436 2,165 2,171 R3,160 2 October 377 R1,356 275 R1,393 R1,754 R2,594 R2,258 2,264 R2,942 (s) November 632 R1,643 379 R1,438 R1,754 R2,594 R2,258 2,264 R2,942 (s) December 838 R2,057 473 R1,584 R1,786 R2,623 2,148 2,154 R2,896 (s) December 838 R2,057 473 R1,584 R1,786 R2,623 2,154 R2,160 R3,174 1 Total 5,931 R20,122 R3,770 R1,472 R20,435 R30,612 26,634 R26,710 R38,146 R-1 R2013 January 1,067 R2,431 572 R1,688 1,884 R2,695 2,154 2,161 R3,297 -4 February 926 R2,066 516 R1,534 1,693 R2,445 1,975 1,981 R2,916 -4 March 837 R1,997 474 R1,553 1,765 R2,576 2,249 2,256 R3,057 5 April 509 R1,485 311 R1,349 1,688 R2,484 2,197 2,204 R2,817 -7 May 318 R1,325 219 R1,377 R1,720 R2,595 2,299 2,306 R3,066 -6 July 233 R1,744 183 R1,349 1,688 R2,484 2,197 2,204 R2,817 -7 May 323 R1,744 183 R1,349 1,688 R2,484 2,197 2,204 R2,817 -7 May 323 R1,744 183 R1,349 1,688 R2,484 2,197 2,204 R2,817 -7 May 323 R1,744 183 R1,349 1,688 R2,484 2,197 2,204 R2,817 -7 May 323 R1,744 183 R1,349 1,688 R2,484 2,197 2,204 R2,817 -7 May 323 R1,744 183 R1,517 1,746 R2,627 2,357 2,363 R3,733 (s) August 231 R1,662 188 R1,509 1,728 R2,608 2,379 2,385 R3,639 -1 July 233 R1,744 183 R1,517 1,746 R2,627 2,357 2,363 R3,733 (s) August 231 R1,662 188 R1,509 1,728 R2,608 2,379 2,385 R3,639 -1 September E244 E1,458 E189 E1,378 E1,565 E23,128 E20,091 E20,151 29,094 E-31 E			R 1,573		R 1,384	R 1,701	R 2,529			R 2,889	-5	R 7,715
May 297 R 1,370 212 R 1,390 R 1,674 R 2,574 2,308 2,314 R 3,157 -2 June 252 R 1,541 193 R 1,430 R 1,638 R 2,515 2,272 2,278 R 3,409 2 July 239 R 1,873 R 187 R 1,545 R 1,656 2,577 R 2,316 2,322 R 3,409 2 July 239 R 1,873 R 187 R 1,545 R 1,666 2,577 R 2,316 2,322 R 3,409 2 August 247 R 1,760 R 205 R 1,515 R 1,708 R 2,609 R 2,370 2,376 R 3,732 R 3 September 248 R 1,429 202 R 1,360 R 1,621 R 2,436 2,165 2,171 R 3,160 2 October 377 R 1,356 275 R 1,380 R 1,744 R 2,565 2,148 2,154 R 2,896 (s) November 632 R 1,643 379 <			R 1,308	272	R 1,298	R 1,629	R 2,452			R 2,750	-5	R 7,258
June 252 R 1,581 193 R 1,430 R 1,638 R 2,515 2,272 2,278 R 3,409 2 July 239 R 1,873 R 187 R 1,545 R 1,666 2,577 R 2,310 2,322 R 3,422 R 3 August 247 R 1,760 R 205 R 1,515 R 1,708 R 2,609 R 2,370 2,376 R 3,732 R 3 September 248 R 1,429 202 R 1,360 R 1,621 R 2,436 2,165 2,171 R 3,160 2 October 377 R 1,356 275 R 1,393 R 1,754 R 2,594 R 2,258 2,264 R 2,942 (s) November 632 R 1,643 379 R 1,438 R 1,786 R 2,595 2,148 2,154 R 2,896 (s) December 838 R 2,057 473 R 1,584 R 1,786 R 2,665 2,144 2,160 R 3,174 1 Total 5,931 R 20,122 R 3,77			R 1,370	212	R 1,390	R 1,674	R 2,574	2,308		^R 3,157	-2	R 7,646
July 239 R1,873 R187 R1,545 R1,656 2,577 R2,316 2,322 R3,921 R5 August 247 R1,760 R205 R1,515 R1,708 R2,609 R2,370 2,376 R3,732 R3 September 248 R1,429 202 R1,360 R1,621 R2,436 2,165 2,171 R3,160 2 October 377 R1,356 275 R1,393 R1,754 R2,594 R2,258 2,264 R2,942 (s) November 632 R1,643 379 R1,438 R1,744 R2,595 2,148 2,154 R2,896 (s) December 838 R2,057 473 R1,584 R1,786 R2,623 2,154 R2,160 R3,174 1 Total 5,931 R20,122 R3,770 R17,472 R20,435 R30,612 26,634 R26,710 R38,146 R-1 R 1013 January 1,067 R2,431 572 <td></td> <td></td> <td>R 1,541</td> <td>193</td> <td>R 1,430</td> <td>R 1,638</td> <td>R 2,515</td> <td>2,272</td> <td></td> <td>R 3,409</td> <td>2</td> <td>R 7,766</td>			R 1,541	193	R 1,430	R 1,638	R 2,515	2,272		R 3,409	2	R 7,766
August 247 R 1,760 R 205 R 1,515 R 1,708 R 2,609 R 2,370 2,376 R 3,732 R 3 September 248 R 1,429 202 R 1,360 R 1,621 R 2,436 2,165 2,171 R 3,160 2 October 377 R 1,356 275 R 1,393 R 1,754 R 2,594 R 2,258 2,264 R 2,942 (s) November 632 R 1,643 379 R 1,438 R 1,744 R 2,565 2,148 2,154 R 2,896 (s) December 838 R 2,057 473 R 1,584 R 1,786 R 2,623 2,154 R 2,160 R 3,174 1 Total 5,931 R 20,122 R 3,770 R 17,472 R 20,435 R 30,612 26,634 R 26,710 R 38,146 R -1 2013 January 1,067 R 2,431 572 R 1,688 1,884 R 2,695 2,154 2,161 R 3,297 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,	July		R 1,873	^R 187	R 1.545	^R 1,656	2 577	R 2,316	2,322	R 3,921	^R 5	R 8 323
September 248 R 1,429 202 R 1,360 R 1,621 R 2,436 2,165 2,171 R 3,160 2 October 377 R 1,356 275 R 1,393 R 1,754 R 2,594 R 2,258 2,264 R 2,942 (s) November 632 R 1,643 379 R 1,438 R 1,744 R 2,565 2,148 2,154 R 2,886 (s) December 838 R 2,057 473 R 1,584 R 1,786 R 2,623 2,154 R 2,160 R 3,174 1 Total 5,931 R 20,122 R 3,770 R 17,472 R 20,435 R 3,0612 26,634 R 26,710 R 38,146 R - 1 R 2013 January 1,067 R 2,431 572 R 1,688 1,884 R 2,695 2,154 2,616 R 3,297 -4 February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 February 926	August		R 1,760	^R 205	^R 1,515	R 1,708	R 2,609	R 2,370		R 3,732		R 8,264
October 377 K1,356 275 K1,393 K1,754 K2,594 K2,258 2,264 K2,942 (s) November 632 R1,643 379 R1,438 R1,744 R2,565 2,148 2,154 R2,896 (s) December 838 R2,057 473 R1,584 R1,786 R2,623 2,154 R2,160 R3,174 1 Total 5,931 R20,122 R3,770 R17,472 R20,435 R30,612 26,634 R2,6710 R38,146 R-1 R 2013 January 1,067 R2,431 572 R1,688 1,884 R2,695 2,154 2,161 R3,297 -4 February 926 R2,066 516 R1,534 1,693 R2,445 1,975 1,981 R2,916 -4 Harch 837 R1,997 474 R1,553 1,669 R2,445 1,975 1,981 R2,916 -4 April 509 R1,485 311	September				R 1,360	R 1,621	^R 2,436	2,165				R 7,398
November 632	October		R 1,356		R 1,393	R 1,754	R 2,594					R 7,606
Total 5,931 \$20,122 \$3,770 \$17,472 \$20,435 \$30,612 26,634 \$26,710 \$38,146 \$-1 \$8 2013 January 1,067 \$2,431 572 \$1,688 1,884 \$2,695 2,154 2,161 \$3,297 -4 February 926 \$2,066 516 \$1,534 1,693 \$2,445 1,975 1,981 \$2,916 -4 March 837 \$1,997 474 \$1,553 1,765 \$2,576 2,249 2,256 \$3,057 -5 April 509 \$1,485 311 \$1,349 1,688 \$2,484 2,197 2,204 \$2,817 -7 May 318 \$1,325 219 \$1,377 \$1,720 \$2,595 2,299 2,306 \$3,046 -6 June 241 \$1,493 181 \$1,432 1,678 \$2,543 2,248 2,254 \$3,376 -3 July 233 \$2,144 183 \$1,517<	November		R 1,643			R 1,744	R 2,565		2,154		(s)	R 7,799
2013 January 1,067 R2,431 572 R1,688 1,884 R2,695 2,154 2,161 R3,297 -4 February 926 R2,066 516 R1,534 1,693 R2,445 1,975 1,981 R2,916 -4 March 837 R1,997 474 R1,553 1,765 R2,576 2,249 2,256 R3,057 -5 April 509 R1,485 311 R1,349 1,688 R2,484 2,197 2,204 R2,817 -7 May 318 R3,255 219 R1,377 R1,720 R2,595 2,299 2,306 R3,046 -6 June 241 R1,493 181 R1,432 1,678 R2,543 2,248 2,254 R3,376 -3 July 233 R1,744 183 R1,517 1,746 R2,627 2,357 2,363 R3,733 (s) August 231 R1,662 188 R1,509 1,728 R2,608 2,379 2,385 R3,639 -1 September 244 E1,458 E189 E1,378 E1,750 E2,554 E2,234 E2,240 3,214 E-1 9-Month Total E4,606 E15,660 E2,833 E13,337 E15,652 E23,128 E20,091 E20,151 29,094 E-31 E			R 2,057	473	^R 1,584	^R 1,786			^R 2,160	^R 3,174	_ 1	R 8,425
February 926 R 2,066 516 R 1,534 1,693 R 2,445 1,975 1,981 R 2,916 -4 March 837 R 1,997 474 R 1,553 1,765 R 2,576 2,249 2,256 R 3,057 -5 April 509 R 1,485 311 R 1,349 1,688 R 2,484 2,197 2,204 R 2,817 -7 May 318 R 1,325 219 R 1,377 R 1,720 R 2,595 2,299 2,306 R 3,046 -6 June 241 R 1,493 181 R 1,432 1,678 R 2,543 2,248 2,254 R 3,376 -3 July 233 R 1,744 183 R 1,517 1,746 R 2,627 2,357 2,363 R 3,733 (s) August 231 R 1,662 188 R 1,509 1,728 R 2,608 2,379 2,335 R 3,639 -1 September E 2,44 E 1,458 E 189 E 1,378 <td>Total</td> <td>5,931</td> <td>^R 20,122</td> <td>₹ 3,770</td> <td>^R 17,472</td> <td>^R 20,435</td> <td>₹ 30,612</td> <td>26,634</td> <td>₹ 26,710</td> <td>^R 38,146</td> <td>^R-1</td> <td>R 94,915</td>	Total	5,931	^R 20,122	₹ 3,770	^R 17,472	^R 20,435	₹ 30,612	26,634	₹ 26,710	^R 38,146	^R -1	R 94,915
March 837 R 1,997 474 R 1,553 1,765 R 2,576 2,249 2,256 R 3,057 -5 April 509 R 1,485 311 R 1,349 1,688 R 2,484 2,197 2,204 R 2,817 -7 May 318 R 1,325 219 R 1,377 R 1,772 R 1,772 R 1,777 R 1,720 R 2,595 2,299 2,306 R 3,046 -6 June 241 R 1,493 181 R 1,432 1,678 R 2,543 2,248 2,254 R 3,376 -3 July 233 R 1,744 183 R 1,517 1,746 R 2,627 2,357 2,363 R 3,733 (s) August 231 R 1,662 188 R 1,509 1,728 R 2,608 2,379 2,385 R 3,639 -1 September E 2,44 E 1,458 E 189 E 1,378 E 1,750 E 2,554 E 2,234 E 2,240 3,214 E -1 9-Month Total												R 8,970 R 8,021
April			° ∠,066		1,534 R 4,550							
May			^1,997		1,553 R 4 040		``2,5/6 R 2 404			"3,057 R 2 247	-5	R 8,377
June 241 R1,493 181 R1,432 1,678 R2,543 2,248 2,254 R3,376 -3 July 233 R1,744 183 R1,517 1,746 R2,627 2,357 2,363 R3,733 (s) August 231 R1,662 188 R1,509 1,728 R2,608 2,379 2,385 R3,639 -1 September E244 E1,458 E189 E1,378 E1,750 E2,554 E2,234 E2,240 3,214 E-1 9-Month Total E4,606 E15,660 E2,833 E13,337 E15,652 E23,128 E20,091 E20,151 29,094 E-31 E 2012 9-Month Total 4,084 15,072 2,644 13,055 15,150 22,826 20,075 20,132 29,133 -1			1,485 R 4 225		1,349 R 1 277	1,688 R 4,700	∠,484 R o 505			2,817 R 2,040		R 7,516
July 233 R 1,744 183 R 1,517 1,746 R 2,627 2,357 2,363 R 3,733 (s) August 231 R 1,662 188 R 1,509 1,728 R 2,608 2,379 2,385 R 3,639 -1 September E 244 E 1,458 E 189 E 1,378 E 1,750 E 2,554 E 2,234 E 2,240 3,214 E -1 9-Month Total E 4,606 E 15,660 E 2,833 E 13,337 E 15,652 E 23,128 E 20,091 E 20,151 29,094 E -31 E 012 9-Month Total 4,084 15,072 2,644 13,055 15,150 22,826 20,075 20,132 29,133 -1			1,325 R 4 400		"1,3// R4 420		`` 2,595 R 0,540					R 7,596
August			`` 1,493 R 4 744		1,43Z		∠,543 R a coz					R 7,72
September E244 E1,458 E189 E1,378 E1,750 E2,554 E2,234 E2,240 3,214 E-1 9-Month Total E4,606 E15,660 E2,833 E13,337 E15,652 E23,128 E20,091 E20,151 29,094 E-31 E 2012 9-Month Total 4,084 15,072 2,644 13,055 15,150 22,826 20,075 20,132 29,133 -1			1,744 R4 660		"1,517 R 4 500		2,62/ R a coo					R 8,251
9-Month Total		231 E 244	1,002 E 1 450	188 E 190	E 1 279	1,728 E 1 750	E 2 554	∠,3/9 E 2 224	∠,385 E 2 240		-1 E 4	E 7,629
		E 4,606			E 13,337	E 15,652			E 20,151			E 72,24
	2012 9-Month Total	4,084	15,072	2.644	13.055	15.150	22.826	20.075	20.132	29.133	-1	71,084
												73,345

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

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. E=Estimate. (s)=Less than 0.5 trillion Btu and greater than -0.5

Inflinor Btu.

Notes: • Data are estimates, except for the electric power sector. • See Note 2,
"Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

• See Note 2, "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 Base: See http://wwww.eia.gov/totalenergy/data/monthy/t/consumption.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973. Sources: Tables 1.3 and 2.2–2.6.

Selected years of data from 1949 through 1972 have been added to this table. For all years of data from 1949 through 2013, see the "Web Page" cited above.

and commercial electricity-only plants.

b Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

^c Electricity-only and combined-heat-and-power (CHP) plants within the NAICS

²² category whose primary business is to sell electricity, or electricity and heat, to

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

⁰ Through 1988, data are for electric utilities only. Beginning in 1969, data are for electric utilities and independent power producers.

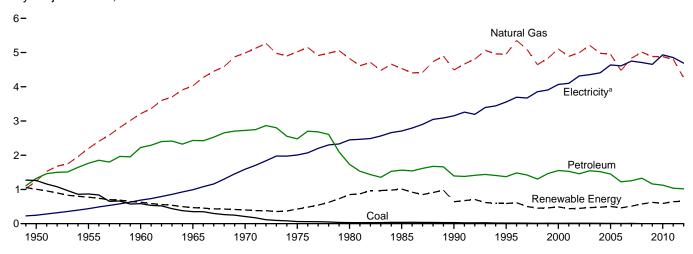
^e See "Primary Energy Consumption" in Glossary.

^f Total energy consumption in the end-use sectors consists of primary energy consumption, electricity retail sales, and electrical system energy losses. See Note 1, "Electrical System Energy Losses," at end of section.

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

Figure 2.2 Residential Sector Energy Consumption (Quadrillion Btu)

By Major Source, 1949-2012

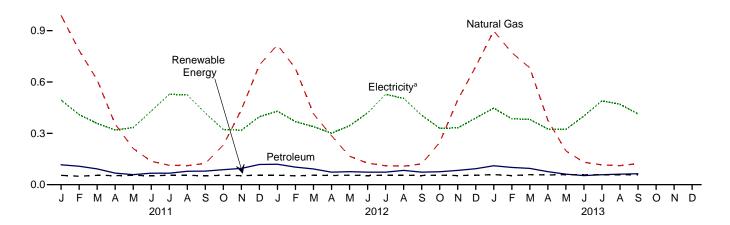


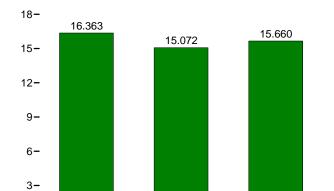
By Major Source, Monthly

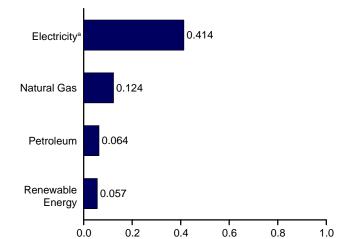
Total, January-September

2011

1.2-







By Major Source, September 2013

2012

2013

^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)

				Primary	/ Consumpt	iona						
		Fossil	Fuels				le Energy ^b			1	Electrical	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Electricity Retail Sales ^d	System Energy Losses ^e	Total
1950 Total	1,261 867 585	1,240 2,198 3,212	1,322 1,767 2,227	3,824 4,833 6,024	NA NA NA	NA NA NA NA	1,006 775 627 468	1,006 775 627	4,829 5,608 6,651	246 438 687 993	913 1,232 1,701	5,989 7,278 9,039
1965 Total 1970 Total 1975 Total 1980 Total	352 209 63 31	4,028 4,987 5,023 4,825	2,432 2,725 2,479 1,734	6,811 7,922 7,564 6,589	NA NA NA	NA NA NA	401 425 850	468 401 425 850	7,279 8,322 7,990 7,439	1,591 2,007 2,448	2,367 3,852 4,817 5,866	10,639 13,766 14,813 15,753
1985 Total 1990 Total 1995 Total 2000 Total	39 31 17 11	4,534 4,491 4,954 5,105	1,565 1,394 1,374 1,554	6,138 5,916 6,345 6,670	NA 6 7 9	NA 56 64 61	1,010 580 520 420	1,010 641 591 489	7,148 6,557 6,936 7,159	2,709 3,153 3,557 4,069	6,184 7,235 8,026 9,197	16,041 16,945 18,519 20,425
2001 Total	12 12 12 11 8	4,889 4,995 5,209 4,981 4,946	1,529 1,457 1,547 1,520 1,451	6,430 6,464 6,768 6,513 6,406	9 10 13 14 16	59 57 57 57 58	370 380 400 410 430	438 448 470 481 504	6,868 6,912 7,238 6,993 6,909	4,100 4,317 4,353 4,408 4,638	9,074 9,562 9,534 R 9,691 10,079	20,042 20,791 21,125 21,092 21,626
2006 Total	6 8 NA NA NA	4,476 4,835 5,010 4,883 4,878	1,224 1,254 1,330 1,161 1,126	5,706 6,097 6,340 6,044 6,004	18 22 26 33 37	63 70 80 89 114	380 420 470 500 440	462 512 577 622 591	6,168 6,608 6,916 6,666 6,595	4,611 4,750 4,708 4,656 4,933	9,909 R 10,183 R 10,070 9,789 10,326	20,688 R 21,542 21,695 21,111 21,853
2011 January February March	NA NA NA	989 785 613	116 108 93	1,106 893 705	3 3 3 3	13 12 13	38 35 38	55 49 55	1,160 942 760	495 410 358	1,015 806 745	2,670 2,158 1,862
April May June July	NA NA NA NA	354 211 137 113	68 59 67 67	421 270 205 180	3 3 3 3	13 13 13 13	37 38 37 38	53 55 53 55	474 325 257 235	320 333 430 528	666 722 920 1,145	1,460 1,380 1,608 1,908
August September October November	NA NA NA NA	111 124 232 437	78 79 88 95	190 203 319 532	3 3 3 3	13 13 13 13	38 37 38 37	55 53 55 53	244 256 374 585	525 419 323 318	1,077 798 650 670	1,846 1,473 1,347 1,572
December Total	NA NA	699 4,804	118 1,036	818 5,840	3 40	13 153	38 450	55 643	872 6,483	397 4,855	842 10,057	2,111 21,395
2012 January February March	NA NA NA	817 680 414	119 103 92	936 782 506	3 3 3	16 15 16	36 33 36	55 52 55	992 834 562	R 430 368 R 339 301	R 870 R 725 R 673 R 594	R 2,291 R 1,927 R 1,573 R 1,308
April May June July	NA NA NA NA	286 166 126 111	73 76 73 73	359 242 199 184	3 3 3	16 16 16	34 36 34 36	53 55 53 55	413 297 252 239	R 344 R 419 R 527	R 728 R 869 R 1,106	R 1,370 R 1,541 R 1,873
August	NA NA NA NA	108 121 247 495 690	83 73 75 83 93	192 195 322 578 783	3 3 3 3	16 16 16 16	36 34 36 34 36	55 53 55 53 55	247 248 377 632 838	505 R 405 330 R 331 R 390	R 1,009 R 775 R 648 R 680 829	R 1,760 R 1,429 R 1,356 R 1,643 R 2,057
Total	NA	4,260	1,018	5,278	40	193	420	652	5,931	4,690	R 9,501	R 20,122
February February March April	NA NA NA NA NA	898 772 683 376 198	111 101 95 76 61	1,009 872 778 452 259	3 3 3 3	20 18 20 19 20	36 32 36 35 36	59 53 59 57 59	1,067 926 837 509 318	448 385 382 325 323	R 915 R 755 R 779 R 651 R 685	R 2,431 R 2,066 R 1,997 R 1,485 R 1,325
May June July August September	NA NA NA NA	131 116 111 F 124	53 58 62 64	184 174 172 ^E 188	3 3 3 3	19 20 20 19	35 36 36 35	57 59 59 57	241 233 231 E 244	402 489 470 414	R 850 R 1,021 R 960 800	R 1,493 R 1,744 R 1,662 E 1,458
9-Month Total 2012 9-Month Total 2011 9-Month Total	NA NA NA	E 3,408 2,830 3,438	680 766 735	E 4,089 3,595 4,172	30 30 30	174 144 115	314 314 337	518 488 481	E 4,606 4,084 4,653	3,637 3,639 3,817	7,417 7,349 7,893	15,660 15,072 16,363

section.

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

Notes: • Data are estimates, except for electricity retail sales. • See Note 2, "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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

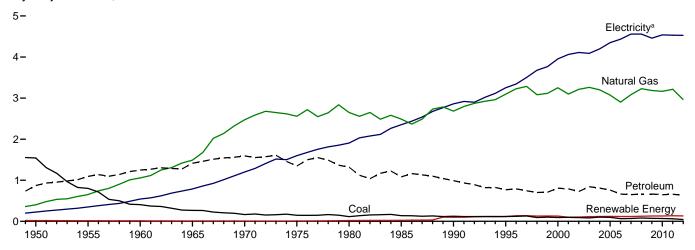
Sources: Tables 2.6, 3.8a, 4.3, 6.2, 7.6, 10.2a, A4, A5, and A6.

Selected years of data from 1949 through 1972 have been added to this table. For all years of data from 1949 through 2013, see the "Web Page" cited above.

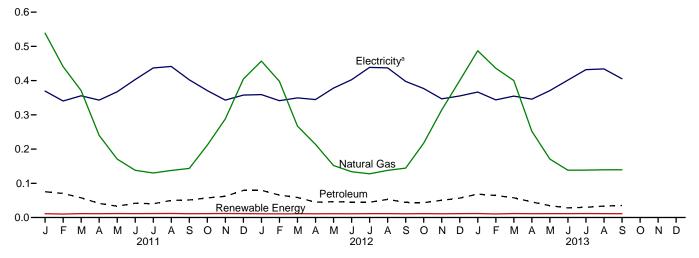
 ^a See "Primary Energy Consumption" in Glossary.
 ^b See Table 10.2a for notes on series components.
 ^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 ^d Electricity retail sales to ultimate customers reported 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 1, "Electrical System Energy Losses," at end of

Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)

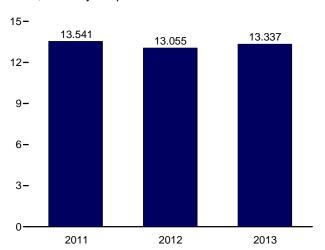




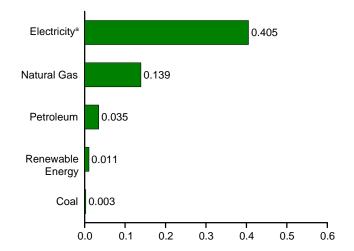
By Major Source, Monthly







By Major Source, September 2013



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

Source: Table 2.3.

^a Electricity retail sales.

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

					Primary (Consump	tiona							
		Fossi	l Fuels			R	enewabl	le 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	System Energy Losses ⁹	Total
1950 Total	1,542	401	872	2,815	NA	NA	NA	NA	19	19	2,834	225	834	3,893
1955 Total	801 407	651 1,056	1,095 1,248	2,547	NA NA	NA NA	NA NA	NA NA	15 12	15 12	2,561 2,723	350	984 1,344	3,895
1960 Total 1965 Total	265	1,056	1,246	2,711 3,168	NA NA	NA NA	NA NA	NA NA	9	9	3,177	543 789	1,344	4,609 5.845
1970 Total	165	2,473	1,592	4,229	NA	NA	NA	NA	8	8	4,237	1,201	2,908	8,346
1975 Total	147	2,558	1,346	4,051	NA	NA	NA	NA	8	8	4,059	1,598	3,835	9,492
1980 Total	115	2,651	1,318	4,084	NA	NA	NA	NA	21	21	4,105	1,906	4,567	10,578
1985 Total	137	2,488	1,083	3,708	NA	NA	NA	NA	24	24	3,732	2,351	5,368	11,451
1990 Total	124	2,682 3.096	991 769	3,798 3,982	1	3 5	Ξ	-	94 113	98 118	3,896 4.101	2,860 3,252	6,564 7.338	13,320 14,690
1995 Total 2000 Total	117 92	3,096	769 807	3,962 4,150	1	5 8	Ξ	_	113	128	4,101	3,252	7,336 8,942	17,175
2001 Total	97	3,232	790	3.984	i	8	_	_	92	101	4.084	4.062	8.990	17,173
2002 Total	90	3,212	726	4,028	(s)	9	_	_	95	104	4,132	4,110	9,104	17,345
2003 Total	82	3,261	842	4,185	`1	11	_	_	101	113	4,298	4,090	8,958	17,346
2004 Total	103	3,201	809	4,113	1	12	_	-	105	118	4,232	4,198	9,229	17,659
2005 Total	97	3,073	761	3,932	1	14	_	-	105	120	4,051	4,351	9,455	17,857
2006 Total	65	2,902 3,085	663 649	3,629	1	14 14	-	_	103 103	118 118	3,747 3,922	4,435 4,560	9,529 R 9,774	R 17,710 R 18,256
2007 Total 2008 Total	70 81	3,065	664	3,805 3,973	1	15	(e)	_	103	125	3,922 4,098	4,558	9,749	R 18,405
2009 Total	73	3,187	664	3,924	i	17	(s) (s)	(s)	112	129	4,053	4,460	9,378	17,891
2010 Total	70	3,165	649	3,883	1	19	(s)	(s)	111	130	4,013	4,539	9,501	18,053
2011 January	8	539	75	622	(s)	2	(s)	(s)	9	11	633	369	757	1,760
February	7	441	70	518	(s)	2	(s)	(s)	9	10	529	340	670	1,539
March	7	371	58	436	(s)	2	(s)	(s)	10	11	447	356	740	1,542
April	5	240	41	286	(s)	2	(s)	(s)	9	11	297	343	714	1,354
May	5 5	171 138	33 42	209 185	(s)	2	(s)	(s)	10 10	12 11	220 196	367 403	795 863	1,382 1,463
June July	4	130	42 40	175	(s) (s)	2	(s) (s)	(s) (s)	10	12	186	403	948	1,463
August	4	138	50	191	(s)	2	(s)	(s)	10	12	203	441	906	1,551
September	4	143	51	198	(s)	2	(s)	(s)	9	11	210	402	767	1,379
October	4	212	57	273	(s)	2	(s)	(s)	10	11	284	371	747	1,401
November	4	288	62	354	(s)	2	(s)	(s)	10	11	366	343	722	1,431
December Total	5 62	405 3,214	79 659	489 3,935	(s) (s)	2 20	(s) 1	(s) (s)	10 115	12 136	501 4,071	358 4,531	759 9,387	1,618 17,990
2012 January	5	457	79	542	(s)	2	(s)	(s)	9	11	553	359	R 727	R 1.639
February	5	398	65	468	(s)	2	(s)	(s)	9	R 10	478	R 341	R 672	R 1,492
March	R 4	267	58	330	(s)	2	(s) (s)	(s)	9	11	341	R 350	R 694	R 1,384
April	3	214	45	261	(s)	2	(s)	(s)	9	11	272	R 345	R 681	R 1,298
May	3	152	46	201	(s)	2	(s)	(s)	9	11	212	R 378	R 800	R 1,390
June	3	134 128	45 45	182 175	(s)	2 2	(s)	(s)	9 9	11 11	193 ^R 187	R 403 R 439	^R 834 ^R 920	R 1,430 R 1,545
July August	3	128	45 53	175	(s) (s)	2	(s)	(s) (s)	9	11	R 205	R 439	R 873	R 1,545
September	3	144	44	191	(s)	2	(s) (s)	(s)	9	11	202	R 398	R 761	R 1,360
October	3	217	43	264	(s)	2	(s)	(s)	9	11	275	R 377	R 741	R 1,393
November	_ 4	314	50	369	(s)	2	(s)	(s)	. 9	_ 11	379	R 347	R 711	R 1.438
December Total	R 5 44	400 2.963	57 631	461 3,638	(s) (s)	2 20	(s) 1	(s) 1	R 9 R 110	R 11 R 132	473 R 3,770	R 355 R 4,528	^R 756 ^R 9,174	R 1,584
		,		•	` ,		· ·	-						
2013 January	5 5	487 436	68 64	561 505	(s)	2 2	(s)	(s)	10 9	12 10	572 516	366 344	^R 749 ^R 674	R 1,688 R 1,534
February March	5	436 400	58	463	(s) (s)	2	(s) (s)	(s) (s)	10	10	516 474	344 355	R 724	R 1,553
April	3	252	45	300	(s)		(s)	(s)	9	11	311	346	R 692	R 1.349
May	3	171	34	208	(s)	2	(s) (s)	(s)	9	11	219	371	R 787	R 1,377
	3	138	28	169	(s)	2	(s)	(s)	9	11	181	402	R 850	R 1,432
June	3	139	30	171	(s)	2	(s)	(s)	9	12	183	432	R 902	R 1,517
June July											188			
June July August	3	140 F 120	34	176 F 470	(s)	2	(s)	(s)	9	11	F 400	434	R 887	F 4 272
June July		140 F 139 E 2,302	34 35 397	176 E 178 E 2,731	(S) (S) (S)	2 15	(s) (s) 2	(s) (s) 1	9 84	11 101	E 189 E 2,833	405 3,455	784 7,050	E 1,378
June	3	F 139	35	E 178	(s)	2	(s) (s) 2	(s) (s) 1 (s)	9	11	E 189	405	784	R 1,509 E 1,378 E 13,337

R=Revised. E=Estimate. NA=Not available. - =No data reported. F=Forecast. (s)=Less than 0.5 trillion Btu.

(s)=Less than 0.5 trillion Btu.

Notes: • Data are estimates, except for coal totals beginning in 2008; hydroelectric power; solar/PV; wind; and electricity retail sales beginning in 1979.
• The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "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.

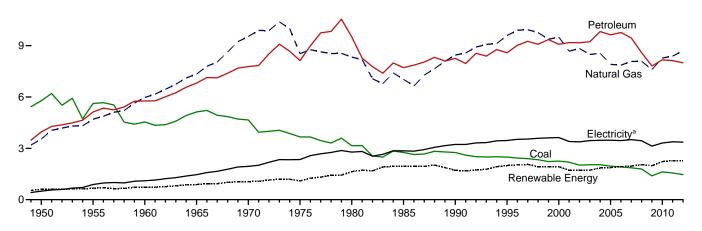
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: Tables 2.6, 3.8a, 4.3, 6.2, 7.6, 10.2a, A4, A5, and A6.

<sup>a See "Primary Energy Consumption" in Glossary.
b 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.
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 1, "Electrical System Energy Losses," at end of section.</sup>

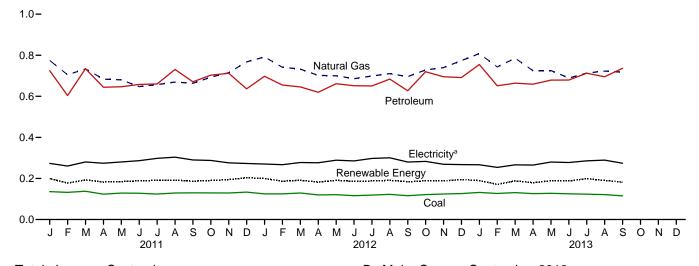
Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

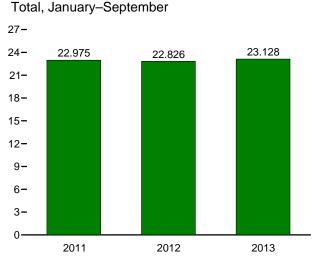
By Major Source, 1949-2012

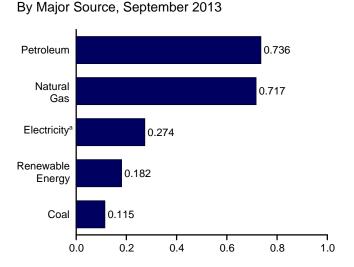
12-



By Major Source, Monthly







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

Table 2.4 Industrial Sector Energy Consumption

(Trillion Btu)

	IIOH Du	<i>ч,</i>												
					Primar	y Consum	ptiona							
		Fossi	I Fuels			R	enewable	e Energy ^t	0			Elec-	Electrical	
	Coal	Natural Gas ^c	Petro- leum ^d	Totale	Hydro- electric Power ^f	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	tricity Retail Sales	Electrical System Energy Lossesh	Total ^e
1950 Total	5,781	3,546	3,960	13,288	69	NA	NA	NA	532	602	13,890	500	1,852	16,241
1955 Total 1960 Total	5,620 4.543	4,701 5.973	5,123 5.766	15,434 16,277	38 39	NA NA	NA NA	NA NA	631 680	669 719	16,103 16,996	887 1.107	2,495 2.739	19,485 20.842
1965 Total	5,127	7,339	6,813	19,260	33	NA	NA	NA	855	888	20,148	1,463	3,487	25,098
1970 Total	4,656	9,536	7,776	21,911	34	NA	NA	NA	1,019	1,053	22,964	1,948	4,716	29,628
1975 Total 1980 Total	3,667 3,155	8,532 8,333	8,127 9,509	20,339 20,962	32 33	NA NA	NA NA	NA NA	1,063 1,600	1,096 1,633	21,434 22,595	2,346 2,781	5,632 6,664	29,413 32,039
1985 Total	2.760	7,032	7,714	17.492	33	NA	NA	NA	1,918	1,951	19,443	2.855	6,518	28.816
1990 Total	2,756	8,451	8,251	19,463	31	2	_	_	1,684	1,717	21,180	3,226	7,404	31,810
1995 Total	2,488	9,592	8,586	20,727	55	3	-	-	1,934	1,992	22,719	3,455	7,796	33,971
2000 Total	2,256	9,500	9,075	20,896 20,075	42 33	4 5	_	-	1,881 1,681	1,928 1,719	22,824 21,794	3,631 3,400	8,208 7,526	34,664 32,720
2001 Total 2002 Total	2,192 2,019	8,676 8,832	9,178 9,168	20,075	39	5	_	_	1,676	1,719	21,794	3,379	7,320	32,662
2003 Total	2,041	8,488	9,230	19,811	43	3	_	_	1,679	1,725	21,536	3,454	7,565	32,555
2004 Total	2,047	8,550	9,825	20,559	33	4	-	-	1,817	1,853	22,412	3,473	R 7 ,635	33,519
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 2007 Total	1,914 1,865	7,861 8,074	9,770 9,451	19,606 19,414	29 16	4 5	_	_	1,897 1,944	1,930 1,965	21,536 21,379	3,451 3,507	^R 7,414 ^R 7,518	32,401 R 32,404
2008 Total	1,793	8,083	8,588	18,506	17	5	_	_	2,026	2,047	20,553	3,444	7,365	31,362
2009 Total	1,392	7,609	7,813	16,791	18	4	_	-	1,963	1,985	18,776	3,130	6,582	28,488
2010 Total	1,631	8,278	8,172	18,075	16	4	(s)	-	2,201	2,221	20,296	3,313	6,934	30,543
2011 January	136	775	725	1,636	1	(s)	(s)	(s)	197	199	1,835	273	560	2,668
February	132	705	604	1,441	2	(s)	(s)	(s)	175	177	1,618	260	512	2,391
March	138 123	734 683	735 644	1,608 1,451	2 2	(s) (s)	(s) (s)	(s) (s)	191 180	193 182	1,801 1,634	280 274	583 571	2,665 2.479
April May	129	680	646	1,457	2	(s)	(s)	(s)	182	185	1,642	280	607	2,528
June	128	647	658	1,434	1	(s)	(s)	(s)	187	189	1,623	286	613	2,522
July	124	657	660	1,441	1	(s)	(s)	(s)	190	191	1,632	298	646	2,575
August	129	669	731	1,533	1	(s)	(s)	(s)	191	192	1,726	304 290	623	2,653 2,493
September October	130 130	663 693	670 703	1,464 1,525	1	(s) (s)	(s) (s)	(s) (s)	185 189	187 190	1,651 1,715	288	552 579	2,493
November	129	715	712	1,555	1	(s)	(s)	(s)	192	194	1,749	276	581	2,605
December	134	768	636	1,540	2	(s)	(s)	(s)	201	203	1,743	273	579	2,595
Total	1,561	8,389	8,124	18,086	17	4	(s)	(s)	2,261	2,283	20,368	3,382	7,007	30,758
2012 January	R 125	792	698	R 1,616	R 3	(s)	(s)	(s)	R 197	R 200	R 1,816	R 270	R 547	R 2,633
February March	125 R 129	741 732	655 R 646	1,521 1,510	2 2	(s) (s)	(s) (s)	(s) (s)	^R 184 ^R 189	R 187 R 191	R 1,707 R 1,701	^R 267 ^R 277	^R 526 ^R 550	R 2,500 R 2,529
April	120	702	620	1,447	2	(s)	(s)	(s)	R 180	R 182	R 1,629	R 276	^R 546	R 2,452
May	121	700	661	1,483	2	(s)	(s)	(s)	R 189	R 191	R 1,674	R 289	R 611	R 2,574
June	116	686	R 651	1,453	R 2	(s)	(s)	(s)	R 184	R 186	R 1,638	R 285	R 591	R 2,515
July August	119 122	699 710	^R 650 ^R 684	1,468 1,517	1	(s) (s)	(s) (s)	(s) (s)	^R 186 ^R 189	^R 188 ^R 191	^R 1,656 ^R 1,708	R 298 R 301	^R 624 ^R 601	2,577 R 2,609
September	R 116	696	627	R 1,438	R 2	(s)	(s)	(s)	R 182	R 184	R 1,621	R 280	R 535	R 2,436
October	121	728	R 720	1,566	R 2	(s)	(s)	(s)	R 186	R 188	R 1,754	R 283	R 557	R 2,594
November	124	740	695	1,556	2	(s)	(s)	(s)	R 186	R 188	R 1,744	269	R 552	R 2,565
December Total	127 R 1,465	774 8,699	R 691 R 7,998	R 1,592 R 18,166	2 R 22	(s) 4	(s) (s)	(s) (s)	R 192 R 2,242	R 195 R 2,269	R 1,786 R 20,435	R 267 R 3,363	^R 569 ^R 6,814	R 2,623 R 30,612
		,	,						•	,	·		,	•
2013 January	132 127	808 743	755 651	1,694 1,522	3 4	(s)	(s) (s)	(s) (s)	186 168	190 171	1,884 1,693	267 254	^R 545 ^R 498	^R 2,695 ^R 2,445
February March	131	743 785	664	1,522	3	(s) (s)	(S) (S)	(s)	185	188	1,765	254 266	R 544	R 2,576
April	126	725	659	1,509	2	(s)	(s)	(s)	177	180	1.688	265	R 531	R 2,484
May	128	725	679	1,532	3	(s)	(s)	(s)	185	188	R 1,720	280	R 594	R 2,595
June	125	689	679	1,490	3	(s)	(s)	(s)	185	188	1,678	278	R 588	R 2,543
July August	123 121	713 723	712 695	1,547 1,537	3 2	(s) (s)	(s) (s)	(s) (s)	195 188	199 190	1,746 1,728	286 289	R 596 R 591	R 2,627 R 2,608
September	115	F 717	736	E 1,568	2	(s)	(S) (S)	(s)	179	182	E 1,750	209	530	E 2.554
9-Month Total	1,128	E 6,629	6,230	E 13,976	25	3	(s)	(s)	1,647	1,676	E 15,652	2,459	5,017	E 23,128
2012 9-Month Total 2011 9-Month Total	1,093 1,169	6,457 6,213	5,892 6,073	13,452 13,466	17 13	3 3	(s) (s)	(s) (s)	1,678 1,679	1,698 1,695	15,150 15,161	2,544 2,546	5,133 5,268	22,826 22,975

See "Primary Energy Consumption" in Glossary

R=Revised. E=Estimate. NA=Not available. -=No data reported. F=Forecast.

K=Reviseu. E=Estimate. NA-invit available. - 110 data reported. 1 - 10 data. (s)=Less than 0.5 trillion Btu.

Notes: • Data are estimates, except for coal totals; hydroelectric power in 1949–1978 and 1989 forward; solar/PV; wind; and electricity retail sales. • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 2, "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. Veb Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption (Excel and CSV files) for all available annual data beginning in 1949 and monthly 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.

b See Trimiary Energy Consumption" in Glossary.

b See Table 10.2b 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 Includes coal coke net imports, which are not separately displayed. See Tables 1.4a and 1.4b.

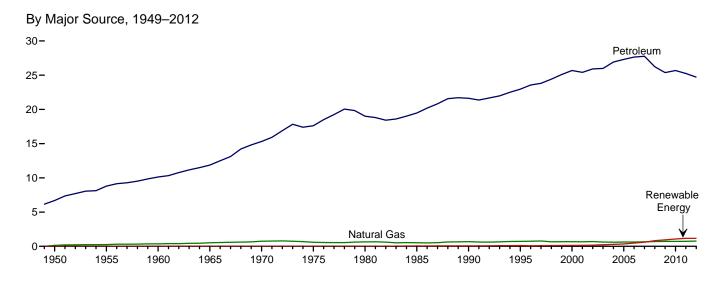
f Conventional hydroelectric power.

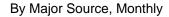
g Electricity retail sales to ultimate customers reported by electric utilities and,

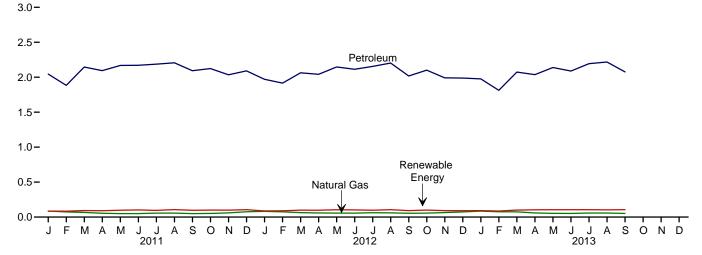
⁹ Electricity retail sales to unimate customers reponed by electric unimies and, beginning in 1996, other energy service providers.

¹ 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 1, "Electrical System Energy Losses," at end of

Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)









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

Table 2.5 Transportation Sector Energy Consumption

(Trillion Btu)

			Primary Cor						
		Fossi	l Fuels		Renewable Energy ^b	Total	Electricity Retail	Electrical System	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Primary	Sales ^e	Energy Losses ^f	Total
950 Total	1,564	130	6,690	8,383	NA	8,383	23	86	8,492
955 Total	421	254	8,799	9,474	NA	9,474	20	56	9,550
960 Total	75	359	10,125	10,560	NA	10,560	10	26	10,596
965 Total	16	517	11,866	12,399	NA	12,399	10	24	12,432
970 Total	7	745	15,310	16,062	NA	16,062	11	26	16,098
975 Total	(9)	595 650	17,615 19,009	18,210	NA NA	18,210	10 11	24 27	18,245 19,697
980 Total 985 Total	(9)	519	19,472	19,659 19,992	50	19,659 20,041	14	32	20,088
990 Total	(3)	680	21,626	22,306	60	22,366	16	37	22,420
995 Total	\g\	724	22,955	23,679	112	23,791	17	38	23,846
000 Total	\g\	672	25,682	26,354	135	26,489	18	42	26,548
001 Total	(9)	658	25,412	26,070	142	26,213	20	43	26,275
002 Total	(g)	699	25,913	26,612	170	26,781	19	42	26,842
003 Total	(g)	627	25,987	26,615	230	26.845	23	51	26,919
004 Total	(g)	602	26,925	27,527	290	27,817	25	54	27,895
005 Total	(e)	624	27,309	27,933	339	28,272	26	56	28,353
006 Total	(g)	625	27,651	28,276	475	28,751	25	54	28,830
007 Total	(g)	663	27,763	28,427	602	29,029	28	60	29,116
008 Total	(g)	692	26,230	26,922	825	27,747	26	56	27,829
009 Total	(g)	715	25,375	26,090	935	27,025	27	56	27,107
010 Total	(g)	719	25,686	26,405	1,075	27,479	26	55	27,560
011 January	(9)	87	2,045	2,132	86	2,218	2	5	2,225
February	(9)	74	1,883	1,957	84	2,041	2	4	2,048
March	(9)	67	2,146	2,213	93	2,306	2	5	2,313
April	(9)	55	2,095	2,150	90	2,240	2	4	2,247
May	(g)	50	2,168	2,218	98	2,316	2	5	2,323
June	(g) (g)	50	2,171	2,221	103	2,323	2	5 5	2,330
July	(9)	56 56	2,187 2.207	2,244 2,263	96 107	2,340 2.370	2 2	5 4	2,347 2.377
August September	(9)	49	2,207	2,203	96	2,370	2	4	2,377
October	(9)	52	2,093	2,176	100	2,236	2	4	2,244
November	(9)	60	2,035	2,095	99	2,276	2	4	2,202
December	(9)	76	2,091	2,167	105	2,273	2	5	2,280
Total	(g)	732	25,246	25,978	1,158	27,136	26	54	27,217
012 January	(9)	82	1,971	2,053	87	2,140	2	R 4	2,147
February	(g)	74	1,916	1,990	89	2,079	2	4	2,086
March	(g)	64	2,064	2,128	99	2,227	2	4	2,233
April	(g)	59	2,042	2,101	98	2,199	2	4	2,205
May	(g)	56	2,147	2,204	104	2,308	2	4	2,314
June	(9)	56	2,114	2,170	102	2,272	2	4	2,278
July	(9)	62	2,155	2,217	.98	R 2,316	2	5	2,322
August	(g)	60	2,203	2,264	106	R 2,370	2	4	2,376
September	(g)	54	2,018	2,073	92	2,165	2	4	2,171
October	(g) (g)	57	2,101	2,158	100	R 2,258	2	4	2,264
November	(9)	65 74	1,992 R 1,988	2,056 R 2,062	92 91	2,148 2.154	2 2	4 R 4	2,154 R 2,160
December Total	(g)	764 764	24,712	25,476	1,158	26,634	R 25	R 51	R 26,710
	` ,				,	,			
013 January	(g)	85 76	1,976	2,061	92	2,154	2	5	2,161
February	(9)	76 75	1,813 2.074	1,888 2.149	87 101	1,975 2.249	2 2	4 4	1,981 2,256
March April	(9)	75 59	2,074	2,149 2.095	101	2,249 2.197	2	4	2,256
May	(9)	53	2,037	2,192	102	2,197	2	R 4	2,204
June	(9)	52	2,139	2,192	107	2,248	2	5	2,300
July	(9)	58	2,194	2,252	105	2,357	2	5	2,363
August	(9)	58	2,218	2.276	103	2.379	2	4	2,385
September	(9)	F 52	2,076	E 2,127	106	E 2,234	2	4	E 2,240
9-Month Total	(g)	^E 566	18,616	^E 19,182	910	^E 20,091	20	40	E 20,151
012 9-Month Total	(g)	568	18.631	19.199	876	20.075	19	38	20.132

^a See "Primary Energy Consumption" in Glossary.

section.

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

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

Notes: • Data are estimates, except for coal totals through 1977; and electricity retail sales beginning in 1979. • See Note 2, "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

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

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

b See Table 10.2b for notes on series components.

See Table 10.2b for notes on series components.

Natural gas only; does not include supplemental gaseous fuels—see Note 3, "Supplemental Gaseous Fuels," at end of Section 4. Data are for natural gas consumed in the operation of pipelines (primarily in compressors) and small amounts consumed as vehicle fuel—see Table 4.3.

Does not include biofuels that have been blended with petroleum—biofuels

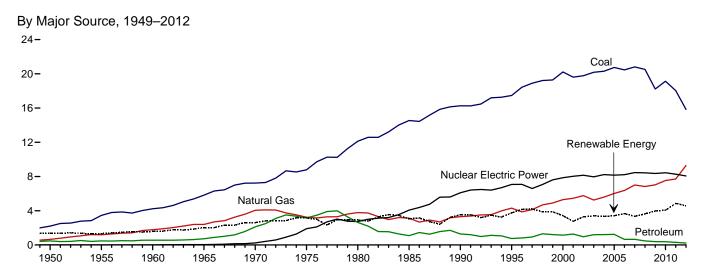
amounts consumed as vehicle fuel—see Table 4.3.

^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.

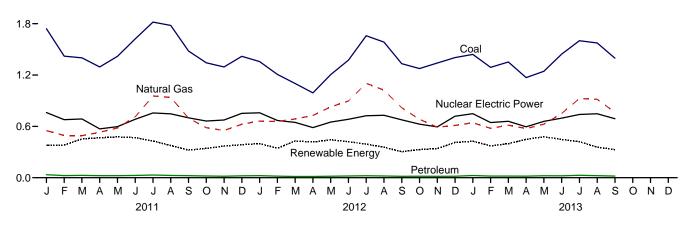
^t Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Note 1, "Electrical System Energy Losses," at end of

Figure 2.6 Electric Power Sector Energy Consumption (Quadrillion Btu)

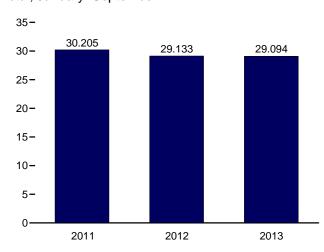


By Major Source, Monthly

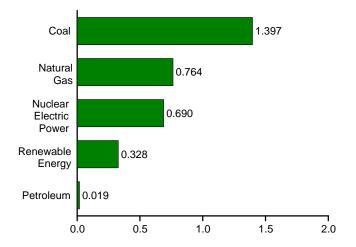
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Total, January-September



By Major Source, September 2013



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

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Electric Power Sector Energy Consumption Table 2.6

(Trillion Btu)

						Prima	ry Consum	ptiona					
		Fossil	Fuels					Renewab	le Energy ^b			Fire	
	Coal	Natural Gas ^c	Petro- leum	Total	Nuclear Electric Power	Hydro- electric Power ^d	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Elec- tricity Net Imports ^e	Total Primary
1950 Total	2,199	651	472	3,322	0	1,346	NA	NA	NA	5	1,351	6	4,679
1955 Total	3,458	1,194	471	5,123	0	1,322	NA (-)	NA	NA	3	1,325	14	6,461
1960 Total	4,228 5,821	1,785 2,395	553 722	6,565 8,938	6 43	1,569 2,026	(s) 2	NA NA	NA NA	2	1,571 2,031	15 (s)	8,158 11,012
1970 Total	7,227	4,054	2,117	13,399	239	2,600	6	NA	NA	4	2,609	(s) 7	16,253
1975 Total	8,786	3,240	3,166	15,191	1,900	3,122	34	NA	NA	2	3,158	21	20,270
1980 Total	12,123	3,778	2,634	18,534	2,739	2,867	53	NA	NA	4	2,925	71	24,269
1985 Total	14,542	3,135	1,090	18,767	4,076	2,937	97	(s)	(s)	14	3,049	140	26,032
1990 Total	16,261 17,466	3,309 4,302	1,289 755	20,859 22,523	6,104 7,075	3,014 3,149	161 138	4 5	29 33	317 422	3,524 3,747	8 134	30,495 33,479
1995 Total 2000 Total		5,293	1,144	26,658	7,862	2,768	144	5	57	453	3,427	115	38,062
2001 Total		5,458	1,277	26,348	8,029	2,209	142	6	70	337	2,763	75	37,215
2002 Total		5,767	961	26,511	8,145	2,650	147	6	105	380	3,288	72	38,016
2003 Total	20,185	5,246	1,205	26,636	^R 7,960	2,749	146	5	113	397	3,411	22	38,028
2004 Total		5,595	1,212	27,112	R 8,223	2,655	148	6	142	388	3,339	39	38,712
2005 Total		6,015	1,235	27,986	8,161	2,670	147 145	6	178	406	3,406	85 63	39,638
2006 Total 2007 Total		6,375 7,005	648 657	27,485 28,470	8,215 ^R 8,459	2,839 2,430	145	5 6	264 341	412 423	3,665 3,345	63 107	39,428 R 40,380
2008 Total		6,829	468	27,810	R 8,426	2,494	146	9	546	435	3,630	112	39,978
2009 Total	18,225	7,022	390	25,638	R 8,355	2,650	146	9	721	441	3,967	116	R 38,076
2010 Total	19,133	7,528	378	27,039	8,434	2,521	148	12	923	459	4,064	89	39,627
2011 January	1,741	550	35	2,326	761	247	13	(s)	83	37	381	9	3,477
February	1,421	493	24	1,938	678	233	12	1	102	35	382	8	3,006
March April	1,401 1,294	491 531	28 24	1,920 1,849	687 571	301 301	13 12	2	102 121	36 32	453 467	8 7	3,069 2,895
May	1,418	582	24	2,024	597	315	13	2	114	34	477	12	3,111
June	1,623	712	26	2,361	683	311	12	2	107	37	469	11	3,523
July	1,819	955	32	2,806	757	303	12	2	73	39	429	16	4,008
August	1,780	938	27	2,745	746	249	12	2	73	39	376	16	3,883
September	1,481 1.343	696 585	24 20	2,201	700	207 191	12 12	2	67 102	37 36	323 343	10 10	3,234 2.963
October November	1,343	552	20 18	1,949 1,864	663 675	191	12	1	102	36 36	343 369	8	2,963
December	1,419	625	22	2.066	752	229	13	i	103	39	385	12	3,215
Total	18,035	7,712	303	26,050	8,269	3,085	149	17	1,167	437	4,855	127	39,301
2012 January	R 1,357	R 662	R 24	R 2,042	R 758	R 217	R 12	1	R 130	R 39	R 398	11	R 3,210
February	R 1,207	^R 657 ^R 687	18	R 1,883 R 1,802	^R 669 ^R 647	^R 191 ^R 244	^R 11 ^R 12	1 2	^R 105 ^R 133	^R 36 ^R 37	R 344 R 429	9 10	R 2,906 R 2,889
March April	1,101 ^R 992	R 728	15 ^R 14	R 1,734	585	R 248	R 12	3	R 121	R 33	R 417	13	R 2,750
May	R 1,204	R 828	17	R 2.050	R 651	R 271	R 12	R 4	R 119	R 36	R 442	15	R 3,157
June	R 1,374	^R 896	20	R 2.291	^R 683	R 252	R 12	5	R 114	R 38	^R 421	14	R 3,409
July	R 1,659	R 1,103	23	^R 2,785	^R 724	R 251	^R 13	5	R 84	R 40	R 392	19	R 3,921
August	R 1,586	R 1,023	R 20	R 2,628	R 729	R 218	^R 12 ^R 12	4	R 81	R 40 R 38	R 355	19	R 3,732
September October	R 1,332 R 1,275	^R 818 ^R 682	17 17	R 2,167 R 1,974	^R 676 ^R 626	R 166 R 155	R 12	4 4	84 ^R 120	R 38	R 304 330	14 12	R 3,160 R 2,942
November	R 1,341	R 591	R 17	R 1.948	R 594	R 176	R 13	3	R 111	R 38	R 341	13	R 2,896
December	1.403	R 611	R 18	R 2,032	R 719	R 217	^R 13	R 3	138	R 40	R 412	11	R 3,174
Total	R 15,831	R 9,287	R 219	R 25,337	R 8,062	R 2,606	R 148	R 40	R 1,339	R 453	^R 4,586	161	R 38,146
2013 January	1,441	642	26	2,108	R 748	R 236	14	3	R 138	37	R 427	14	R 3,297
February	1,290 1,352	577 614	19 19	1,886 1,985	^R 644 ^R 660	^R 191 ^R 193	13 14	4 6	^R 132 ^R 149	32 37	R 373 R 397	13 14	R 2,916 R 3,057
March April	1,352	574	19	1,762	R 595	R 233	13	6	R 165	31	R 448	12	R 2,817
May	1,170	626	23	1,892	R 659	R 269	R 13	7	R 156	35	R 480	16	R 3,046
June	1,444	750	22	2,216	R 696	R 257	14	8	^R 131	36	R 446	17	R 3.376
July	1,601	925	28	2,554	^R 739	^R 256	14	7	R 106	39	R 422	18	R 3,733
August	1,575	917	24	2,515	R 748	R 204	14	9	R 91	39	R 357	19	R 3,639
September 9-Month Total	1,397 12,514	764 6,389	19 198	2,181 19,101	690 6,178	158 1,997	13 120	9 59	111 1,179	37 322	328 3,677	15 138	3,214 29,094
2012 9-Month Total 2011 9-Month Total	11,812	7,402 5,948	168 244	19,382 20,170	6,123 6,180	2,058 2,466	109 111	29 13	970 841	337 326	3,504 3,757	124 98	29,133 30,205

See "Primary Energy Consumption" in Glossary.

R=Revised. 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 2, "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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

data beginning in 1973. Sources: Tables 3.8c, 4.3, 6.2, 7.1, 7.2b, 10.2c, A4, A5, and A6.

a See Primary Energy Consumption in Glossary.

b See Table 10.2c for notes on series components.

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

Conventional hydroelectric power.

Net imports equal imports minus exports.

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

Energy Consumption by Sector

Note 1. 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 steamelectric cycle. Part of the energy input-to-output losses is a result of imputing fossil energy equivalent inputs for hydroelectric, geothermal, solar thermal, photovoltaic, and wind energy sources. 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.

Note 2. Energy Consumption Data and Surveys. Most of the data in this section of the *Monthly Energy Review*

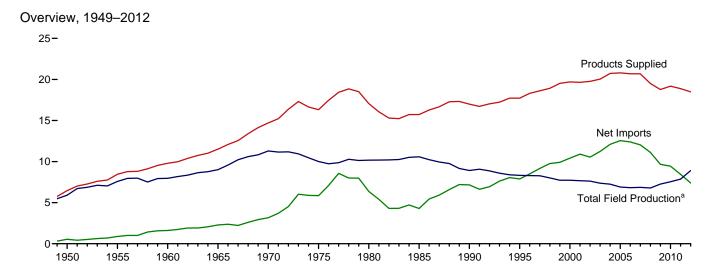
(MER) are developed from a group of energy-related surveys, typically called "supply surveys," conducted by the U.S. Energy Information Administration (EIA). Supply surveys are directed to suppliers and marketers of specific energy sources. They measure the quantities of specific energy sources produced, 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.

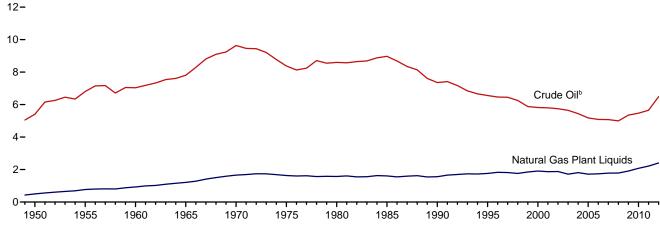
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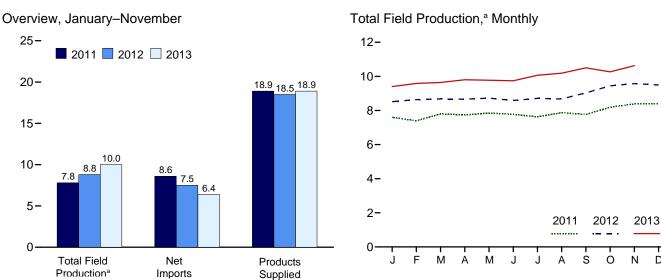
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Figure 3.1 Petroleum Overview (Million Barrels per Day)



Crude Oil and Natural Gas Plant Liquids Field Production, 1949-2012





 $^{^{\}rm a}$ Crude oil, including lease condensate, and natural gas plant liquids field production.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.1.

^b Includes lease condensate.

Table 3.1 **Petroleum Overview**

		Fie	ld Product	tiona					Trade				
	48 States ^d	Crude Oil ^b Alaska	o,c Total	NGPL ^e	Total	Renew- able Fuels and Oxy- genates ^f	Process- ing Gain ^g	lm- ports ^h	Ex- ports	Net Imports ⁱ	Stock Change	Adjust- ments ^{c,k}	Petroleum Products Supplied
1950 Average 1955 Average 1960 Average 1970 Average 1970 Average 1970 Average 1980 Average 1980 Average 1990 Average 1990 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 Average 2007 Average 2008 Average 2008 Average 2007 Average 2008 Average 2008 Average 2008 Average 2009 Average 2009 Average	6,807 7,034 7,774 9,408 8,183 6,980 7,146 5,582 5,076 4,851 4,839 4,759 4,675 4,533 4,317 4,347	0 0 2 30 229 1,617 1,825 1,773 1,484 970 963 985 974 908 864 741 722 683 645 600	5,407 7,035 7,804 9,637 8,375 8,371 7,355 6,560 5,822 5,744 5,649 5,441 5,181 5,088 5,077 5,000	499 771 929 1,210 1,660 1,633 1,573 1,609 1,762 1,911 1,868 1,880 1,719 1,739 1,784 1,784 1,910 2,074	5,906 7,578 7,965 9,014 11,297 10,077 10,170 10,581 8,914 8,322 7,733 7,670 7,624 7,369 6,898 6,898 6,898 6,783 7,545	NA NA NA NA NA NA NA NA NA NA NA NA NA N	2 34 146 359 460 359 460 597 557 683 774 948 903 957 974 1,051 989 994 993 979	850 1,248 1,815 2,468 3,419 6,056 6,909 5,067 8,018 8,835 11,459 11,530 12,264 13,714 13,714 13,717 13,468 12,915 11,691 11,793	305 368 202 187 259 209 544 781 857 971 1,040 971 1,027 1,048 1,165 1,317 1,433 1,802 2,024 2,353	545 880 1,613 2,281 3,161 5,846 4,286 7,161 7,886 10,419 10,546 11,238 12,097 12,549 12,390 12,036 11,114 9,667 9,441	-56 (s) -83 -83 -103 -322 -140 -103 -325 -105 -56 -209 -145 -195 -105 -148 -195 -195 -195	-51 -37 -8 -10 -16 41 64 200 338 496 532 501 529 509 542 510 640 803 225 269	6,458 8,455 9,797 11,512 14,697 16,322 17,056 15,768 16,788 17,725 19,701 20,034 20,731 20,802 20,687 20,680 19,498 18,771 19,180
Pebruary February March April May June July August September October November December Average	4,775 4,992 4,948 5,037 5,033 4,968 5,122 5,010 5,311 5,417 5,437	464 611 611 606 582 553 453 526 585 566 593 592 561	5,482 5,386 5,603 5,554 5,619 5,587 5,420 5,648 5,595 5,877 6,010 6,028 5,652	2,114 2,009 2,195 2,186 2,234 2,188 2,206 2,227 2,171 2,313 2,373 2,358 2,216	7,596 7,394 7,797 7,740 7,852 7,775 7,627 7,876 7,765 8,190 8,383 8,387 7,869	982 972 1,002 996 992 1,015 1,004 1,027 1,011 1,023 1,076 1,085 1,016	1,019 954 1,019 1,013 1,085 1,106 1,122 1,133 1,123 1,084 1,113 1,134 1,176	12,165 10,674 11,755 11,746 11,807 11,806 11,685 11,161 11,226 11,005 11,156 10,983 11,436	2,750 2,634 2,733 3,071 2,735 2,716 3,053 3,002 3,174 3,107 3,159 3,667 2,986	9,415 8,039 9,022 8,674 9,072 9,090 8,632 8,159 8,051 7,898 7,315 8,450	484 -1,033 -139 105 884 59 231 -644 -492 -371 23 -646 -121	383 416 254 270 303 256 552 510 405 231 471 153 350	18,911 18,809 19,234 18,588 18,420 19,182 18,705 19,349 18,848 18,796 19,019 18,721 18,882
Polyage Process of September October November December Average	R 5,657 R 5,726 R 5,732 R 5,754 R 5,754 R 5,969 R 5,901 R 6,067 R 6,392 R 6,488 R 6,529	593 582 567 552 546 493 415 404 502 547 553 555 526	6,135 R 6,239 R 6,294 R 6,285 R 6,331 R 6,247 R 6,384 R 6,305 R 6,569 R 7,041 R 7,084 R 6,489	2,384 2,401 2,385 2,379 2,393 2,338 2,327 2,371 2,462 2,507 2,536 2,415 2,408	8,519 R 8,640 R 8,678 R 8,664 R 8,724 R 8,585 R 8,711 R 8,676 R 9,031 R 9,446 R 9,577 R 9,499 R 8,897	1,022 1,013 991 1,002 1,017 1,003 928 954 920 901 913 904 964	1,053 1,064 1,074 1,027 1,089 1,100 1,065 1,045 1,001 1,006 1,032 1,152 1,059	10,910 10,490 10,605 10,611 11,117 11,424 10,794 10,880 10,475 10,047 10,181 9,644 10,598	2,870 2,994 3,116 3,272 3,207 3,216 3,237 3,081 3,164 3,255 3,404 3,636 3,205	8,041 7,496 7,489 7,339 7,910 8,208 7,556 7,798 7,312 6,793 6,777 6,008 7,393	726 -179 519 33 366 478 91 -401 631 -304 11 -85 158	395 R 251 R 449 R 213 R 215 R 439 R 346 R 281 R 459 R 256 R 239 R 472 R 335	18,304 18,643 18,164 18,211 18,589 18,857 18,515 19,156 18,092 18,705 18,528 18,120 18,490
2013 January February March April May June July August September October November 11-Month Average	RE 6,591 RE 6,636 RE 6,809 RE 6,783 RE 6,757 RE 7,020 RE 7,104 RE 7,283 E 7,244	E 549 E 541 E 533 E 523 E 515 E 486 E 493 E 428 RE 511 E 520 E 535 E 512	RE 7,043 RE 7,132 RE 7,169 RE 7,332 RE 7,298 RE 7,242 RE 7,513 RE 7,532 E 7,794 E 8,002 E 7,439	2,657	RE 9,404 RE 9,585 RE 9,644 RE 9,800 RE 9,773 RE 10,063 RE 10,189 RE 10,500 E 10,267 E 10,628 E 9,964	894 908 949 973 1,011 1,033 1,020 1,004 R 998 E 1,010 E 1,046 E 986	1,119 998 1,035 1,088 1,058 1,096 1,139 1,129 E 1,157 E 1,073 E 1,123 E 1,093	10,042 9,235 9,456 10,076 10,052 9,790 10,243 10,197 R 9,979 E 9,644 E 9,551 E 9,848	2,882 3,243 3,111 3,208 3,467 3,545 3,892 3,700 8 3,631 E 3,406 E 3,413 E 3,410	7,160 5,992 6,345 6,868 6,585 6,245 6,351 6,498 E 6,349 E 6,238 E 6,138 E 6,438	185 -777 79 444 353 87 -6 98 8 370 E-318 E-924 E-38	R 253 R 397 R 583 R 268 R 477 R 617 R 467 R 369 R 482 E 464 E 125 E 410	18,646 18,659 18,476 18,553 18,551 18,724 19,046 19,091 E 19,370 E 19,370 E 19,984 E 18,929
2012 11-Month Average 2011 11-Month Average	5,911 5,059	523 558	6,434 5,618	2,407 2,203	8,841 7,820	969 1,009	1,051 1,071	10,686 11,478	3,165 2,923	7,521 8,556	180 -73	322 368	18,524 18,897

a Crude oil production on leases, and natural gas liquids (liquefied petroleum - Groue on production on leases, and natural gas liquids (liquefled 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."

b Includes lease condensate.

Includes lease condensate.

b Includes lease condensate.

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

d United States excluding Alaska and Hawaii.

e Natural gas plant liquids.
f Renewable fuels and oxygenate plant net production.
g Refinery and blender net production minus refinery and blender net inputs. See Table 3.2.
h Includes Strategic Petroleum Reserve imports. See Table 3.3b.

Net imports equal imports minus exports.

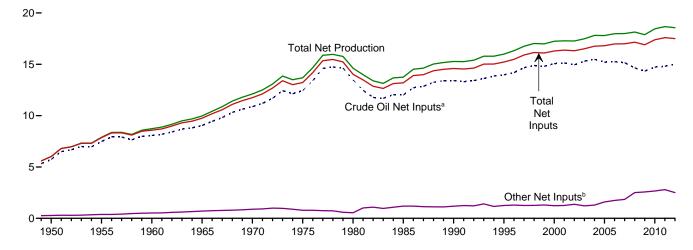
J A negative value indicates a decrease in stocks and a positive value indicates an increase. The current month stock change estimate is based on the change from the previous month's estimate, rather than the stocks values shown in Table

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 Home Heating Oil Reserve. See Table 3.4. k An adjustment for crude oil, hydrogen, oxygenates, renewable fuels, other hydrocarbons, motor gasoline blending components, finished motor gasoline, and distillate fuel oil. See EIA's Petroleum Supply Monthly, Appendix B, "PSM Explanatory Notes," for further information. R=Revised. E=Estimate. NA=Not available. (s)=Less than 500 barrels per day and greater than -500 barrels per day. 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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

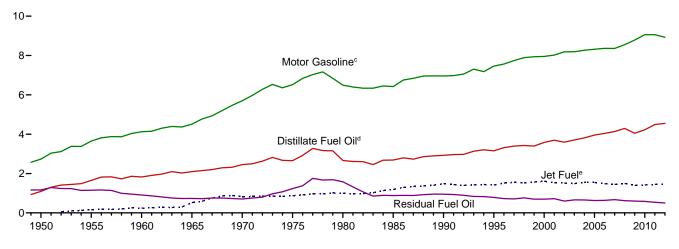
beginning in 1973.
Sources: See end of section.

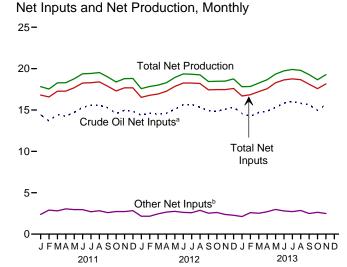
Figure 3.2 Refinery and Blender Net Inputs and Net Production (Million Barrels per Day)

Net Inputs and Net Production, 1949-2012



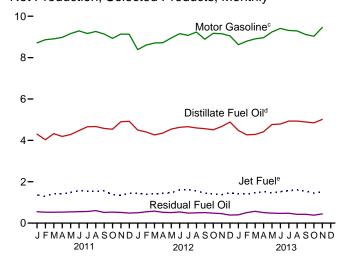
Net Production, Selected Products, 1949–2012





^a Includes lease condensate.





sel) blended into distillate fuel oil.

^b Natural gas plant liquids and other liquids.

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

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

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

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

	Refin	ery and Ble	ender Net I	nputsa			Refinery	and Blen	der Net Pro	ductionb		
							LPG	c				
	Crude Oil ^d	NGPLe	Other Liquids ^f	Total	Distillate Fuel Oil ⁹	Jet Fuel ^h	Propane ⁱ	Total	Motor Gasoline ^j	Residual Fuel Oil	Other Products ^k	Total
1950 Average 1955 Average 1960 Average 1960 Average 1965 Average 1970 Average 1970 Average 1980 Average 1980 Average 1990 Average 1995 Average 2001 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2006 Average 2006 Average 2006 Average	5,739 7,480 8,067 9,043 10,870 12,442 13,481 12,002 13,409 15,067 15,128 14,947 15,304 15,304 15,242 15,156	259 345 455 618 763 710 462 509 467 471 380 429 419 429 419 501 505	19 32 61 88 121 72 81 713 775 849 825 941 791 866 1,149 1,238	6,018 7,857 8,583 9,750 11,754 13,225 14,025 13,192 14,589 15,220 16,295 16,382 16,316 16,513 16,762 16,811 16,981	1,093 1,651 1,823 2,096 2,454 2,653 2,661 2,925 3,155 3,580 3,695 3,592 3,707 3,814 4,040 4,133	(h) 155 241 523 827 871 999 1,189 1,488 1,416 1,606 1,530 1,514 1,484 1,546 1,411 1,546 1,444	NA NA NA NA 234 269 295 404 503 556 572 570 584 543 562	80 119 212 293 345 311 330 391 499 654 705 667 671 658 645 573 627 655	2,735 3,648 4,126 4,507 5,699 6,518 6,419 6,959 7,459 7,951 8,022 8,183 8,194 8,364 8,318 8,364 8,358	1,165 1,152 908 736 706 1,235 1,580 950 788 696 721 601 660 655 628 635 673	947 1,166 1,420 1,814 2,082 2,097 2,559 2,153 2,452 2,522 2,705 2,651 2,712 2,780 2,887 2,782 2,728	6,019 7,891 8,729 9,970 12,113 13,685 14,622 13,750 15,272 15,994 17,243 17,285 17,273 17,487 17,487 17,875 17,975
2007 Average 2008 Average 2009 Average 2010 Average	14,648 14,336 14,724	485 485 442	2,019 2,082 2,219	17,153 16,904 17,385	4,294 4,048 4,223	1,493 1,396 1,418	519 537 560	630 623 659	8,548 8,786 9,059	620 598 585	2,561 2,431 2,509	18,146 17,882 18,452
2011 January	14,423 13,676 14,451 14,231 14,718 15,294 15,589 15,556 15,275 14,570 14,960 14,842 14,806	549 515 460 448 432 444 417 437 494 524 599 566 490	1,835 2,388 2,350 2,606 2,535 2,522 2,288 2,396 2,100 2,205 2,118 2,270 2,300	16,807 16,579 17,261 17,285 17,685 18,260 18,294 18,388 17,870 17,298 17,677 17,678 17,678	4,303 4,033 4,326 4,189 4,283 4,471 4,656 4,668 4,576 4,539 4,902 4,919 4,492	1,362 1,298 1,431 1,422 1,479 1,560 1,553 1,553 1,378 1,341 1,449	561 512 528 542 563 567 557 553 569 540 564 564 552	431 472 636 781 815 847 820 791 603 480 377 368 619	8,714 8,866 8,908 8,978 9,157 9,289 9,166 9,264 9,140 8,932 9,141 9,128 9,058	552 529 526 534 538 553 563 604 516 530 516 486	2,464 2,335 2,454 2,394 2,496 2,638 2,661 2,652 2,605 2,525 2,513 2,462 2,518	17,826 17,533 18,280 18,298 18,770 19,366 19,416 19,522 18,993 18,382 18,790 18,812 18,673
Page 2012 January February March April May June July August September October November December Average	14,374 14,615 14,476 14,609 15,097 15,637 15,665 15,325 14,910 14,843 15,085 15,330 14,999	512 532 445 451 432 442 439 436 523 622 646 509	1,644 1,627 2,008 2,208 2,317 2,182 2,149 2,436 2,003 1,997 1,747 1,627 1,997	16,531 16,774 16,929 17,269 17,846 18,261 18,253 18,197 17,436 17,462 17,460 17,604 17,505	4,500 4,408 4,263 4,352 4,547 4,632 4,660 4,660 4,510 4,669 4,884 4,550	1,437 1,402 1,412 1,434 1,469 1,610 1,613 1,560 1,450 1,419 1,374 1,466 1,471	531 542 545 558 568 585 569 543 522 541 550 579 553	421 503 688 835 858 841 848 779 553 470 364 390 630	8,385 8,606 8,705 8,720 8,950 9,157 9,073 9,237 8,888 9,176 9,156 9,051 8,926	500 548 577 525 509 538 486 495 508 481 458 388 501	2,341 2,372 2,359 2,430 2,603 2,583 2,640 2,571 2,474 2,474 2,471 2,578 2,487	17,584 17,838 18,004 18,295 18,936 19,360 19,319 19,242 18,438 18,468 18,492 18,756 18,756
2013 January	14,569 14,246 14,703 14,865 15,300 15,833 16,040 15,803 E 14,951 E 15,662 E 15,662	541 501 488 427 379 426 427 444 R 560 RF 595 F 634 E 493	1,580 2,094 2,035 2,275 2,606 2,376 2,295 2,413 R 1,926 RE 2,038 E 1,856 E 2,136	16,690 16,841 17,226 17,567 18,286 18,634 18,761 18,660 R 18,113 RF 17,584 F 18,152 E 17,871	4,476 4,267 4,285 4,415 4,767 4,788 4,933 4,931 R 4,889 E 4,849 E 5,014 E 4,695	1,421 1,403 1,463 1,526 1,451 1,523 1,562 1,606 R 1,544 E 1,450 E 1,511 E 1,497	543 535 557 561 574 566 575 583 R 575 RE 705 E 726 E 591	417 485 652 820 869 848 865 837 R 634 F 481 F 366 E 663	8,624 8,794 8,908 8,963 9,241 9,409 9,314 9,291 R 9,120 E 9,033 E 9,462 E 9,107	399 508 571 509 483 469 477 423 R 428 E 385 E 446 E 463	2,472 2,382 2,380 2,422 2,532 2,693 2,750 2,701 R 2,655 RE 2,459 E 2,477 E 2,540	17,810 17,839 18,260 18,655 19,343 19,731 19,900 19,789 R 19,270 RE 18,657 E 19,275 E 18,964
2012 11-Month Average 2011 11-Month Average	14,968 14,803	496 483	2,031 2,303	17,495 17,589	4,519 4,452	1,471 1,449	550 551	652 642	8,915 9,051	511 542	2,478 2,523	18,546 18,660

gasoline.

k Asphalt and road oil, kerosene, lubricants, petrochemical feedstocks, petroleum coke, still gas (refinery gas), waxes, and miscellaneous products. Through 1964, also includes kerosene-type jet fuel. Beginning in 1964, also includes finished aviation gasoline and special naphthas. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. 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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

and CSV files) for all available annual data beginning in 1973. beginning in 1973.

Sources: • 1949–1975: 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. • 1981–2012: EIA, Petroleum Supply Annual, annual reports. • 2013: 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.

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

Liquefied petroleum gases. Includes lease condensate.

d Includes lease condensate.

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

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

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

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

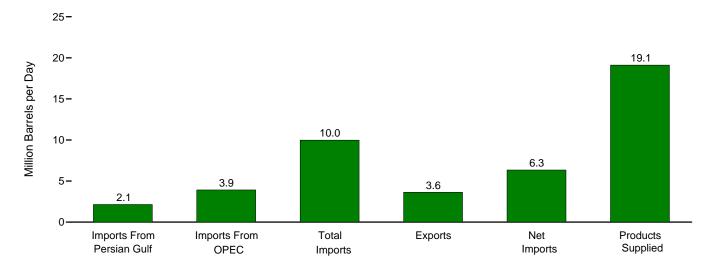
Beginning in 1965, includes kerosene-type jet fuel. (Through 1964, kerosene-type jet fuel is included with kerosene in "Other Products.") For 1952—2004, also includes naphtha-type jet fuel. (Through 1951, naphtha-type jet fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil. Beginning in 2005, naphtha-type jet fuel is included in "Other Products.")

Includes propylene.

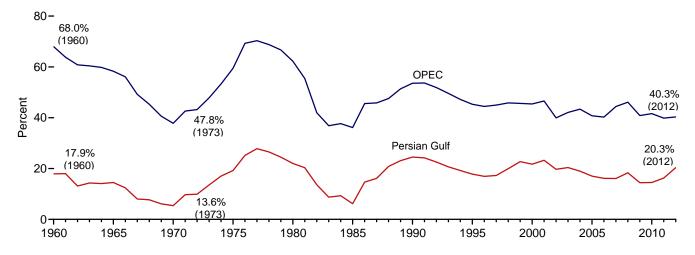
Finished motor gasoline. Through 1963, also includes aviation gasoline and special naphthas. Beginning in 1993, also includes fuel ethanol blended into motor

Figure 3.3a Petroleum Trade: Overview

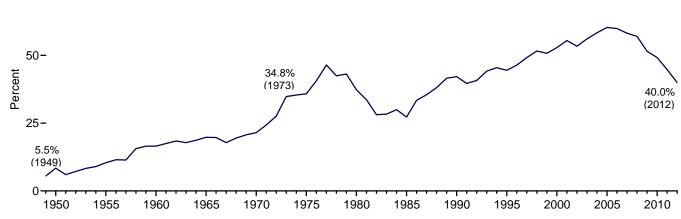
Overview, September 2013



Imports From OPEC and Persian Gulf as Share of Total Imports, 1960–2012



Net Imports as Share of Products Supplied, 1949–2012



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

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Table 3.3a Petroleum Trade: Overview

								As Sh Products	are of Supplied			nare of mports
	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Exports	Net Imports	Products Supplied	Imports From Persian Gulf ^a	Imports From OPECb	Imports	Net Imports	Imports From Persian Gulf ^a	Imports From OPEC ^b
		-	Thousand Ba	rrels per Day	/				Per	cent		
50 Average	NA	NA	850	305	545	6,458	NA	NA	13.2	8.4	NA	NA
55 Average	NA	NA	1,248	368	880	8,455	NA	NA	14.8	10.4	NA	NA
60 Average65 Average	326 359	1,233 1,439	1,815 2,468	202 187	1,613 2,281	9,797 11.512	3.3 3.1	12.6 12.5	18.5 21.4	16.5 19.8	17.9 14.5	68.0 58.3
70 Average	184	1,294	3,419	259	3,161	14.697	1.3	8.8	23.3	21.5	5.4	37.8
5 Average	1,165	3,601	6,056	209	5,846	16,322	7.1	22.1	37.1	35.8	19.2	59.5
30 Average	1,519	4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	22.0	62.2
35 Average	311	1,830	5,067	781	4,286	15,726	2.0	11.6	32.2	27.3	6.1	36.1
00 Average	1,966	4,296 4.002	8,018	857 949	7,161 7.886	16,988	11.6 8.9	25.3 22.6	47.2 49.8	42.2 44.5	24.5 17.8	53.6
95 Average 90 Average	1,573 2,488	5,203	8,835 11,459	1.040	10.419	17,725 19,701	12.6	26.4	49.6 58.2	52.9	21.7	45.3 45.4
1 Average	2,761	5,528	11,871	971	10,900	19,649	14.1	28.1	60.4	55.5	23.3	46.6
02 Average	2,269	4,605	11,530	984	10,546	19,761	11.5	23.3	58.3	53.4	19.7	39.9
J3 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
04 Average	2,493	5,701	13,145	1,048	12,097	20,731	12.0	27.5	63.4	58.4	19.0	43.4
05 Average	2,334	5,587	13,714	1,165	12,549	20,802	11.2	26.9	65.9	60.3	17.0	40.7
06 Average	2,211 2,163	5,517 5,980	13,707 13,468	1,317 1,433	12,390 12,036	20,687 20,680	10.7 10.5	26.7 28.9	66.3 65.1	59.9 58.2	16.1 16.1	40.2 44.4
07 Average 08 Average	2,163	5,954	12,915	1,433	11,114	19,498	12.2	30.5	66.2	57.0	18.4	46.1
09 Average	1,689	4,776	11,691	2,024	9,667	18,771	9.0	25.4	62.3	51.5	14.4	40.9
10 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
I1 January	1,681	4,909	12,165	2,750	9,415	18,911	8.9	26.0	64.3	49.8	13.8	40.4
February	1,495	4,530	10,674	2,634	8,039	18,809	7.9	24.1	56.7	42.7	14.0	42.4
March	1,667 1,704	4,638 4,548	11,755 11,746	2,733 3,071	9,022 8,674	19,234 18,588	8.7 9.2	24.1 24.5	61.1 63.2	46.9 46.7	14.2 14.5	39.5 38.7
April May	1,704	4,619	11,746	2,735	9,072	18,420	10.0	25.1	64.1	49.2	15.6	39.1
June	2,033	4.894	11,806	2,716	9,090	19,182	10.6	25.5	61.5	47.4	17.2	41.5
July	2,167	4,939	11,685	3,053	8,632	18,705	11.6	26.4	62.5	46.1	18.5	42.3
August	1,910	4,656	11,161	3,002	8,159	19,349	9.9	24.1	57.7	42.2	17.1	41.7
September	2,039	4,326	11,226	3,174	8,051	18,848	10.8	23.0	59.6	42.7	18.2	38.5
October	1,904 1,944	4,296 4,206	11,005 11,156	3,107 3,159	7,898 7,998	18,796 19,019	10.1 10.2	22.9 22.1	58.5 58.7	42.0 42.1	17.3 17.4	39.0 37.7
November December	1,921	4,200	10,983	3,667	7,315	18,721	10.2	21.9	58.7	39.1	17.4	37.7
Average	1,861	4,555	11,436	2,986	8,450	18,882	9.9	24.1	60.6	44.8	16.3	39.8
12 January	2,158	4,159	10,910	2,870	8,041	18,304	11.8	22.7	59.6	43.9	19.8	38.1
February	1,948 2,209	3,989 4,301	10,490 10,605	2,994 3,116	7,496 7,489	18,643 18,164	10.4 12.2	21.4 23.7	56.3 58.4	40.2 41.2	18.6 20.8	38.0 40.6
March April	2,209	4,402	10,603	3,272	7,469	18,211	12.2	24.2	58.3	40.3	21.1	41.5
May	2,628	4,730	11,117	3,207	7,910	18,589	14.1	25.4	59.8	42.6	23.6	42.5
June	2,395	4,655	11,424	3,216	8,208	18,857	12.7	24.7	60.6	43.5	21.0	40.7
July	2,154	4,387	10,794	3,237	7,556	18,515	11.6	23.7	58.3	40.8	20.0	40.6
August	2,071	4,385	10,880	3,081	7,798	19,156	10.8	22.9	56.8	40.7	19.0	40.3
September	2,071 2,142	4,272 4,187	10,475 10,047	3,164 3,255	7,312	18,092 18,705	11.4	23.6 22.4	57.9 53.7	40.4 36.3	19.8 21.3	40.8 41.7
October November	2,142	4,107	10,047	3,255	6,793 6,777	18,528	11.5 11.3	22.4	55.7 55.0	36.6	20.6	41.7
December	1,751	3,556	9,644	3,636	6,008	18,120	9.7	19.6	53.2	33.2	18.2	36.9
Average	2,156	4,271	10,598	3,205	7,393	18,490	11.7	23.1	57.3	40.0	20.3	40.3
13 January	1,798	3,850	10,042	2,882	7,160	18,646	9.6	20.6	53.9	38.4	17.9	38.3
February	1,831	3,094	9,235	3,243	5,992 6.345	18,659 18.476	9.8 11.3	16.6 20.1	49.5 51.2	32.1 34.3	19.8 22.1	33.5
March April	2,087 1,804	3,713 3,780	9,456 10.076	3,111 3,208	6,345 6.868	18,476 18.553	11.3 9.7	20.1	51.2 54.3	34.3 37.0	17.9	39.3 37.5
May	2,135	4,045	10,076	3,467	6,585	18,551	11.5	21.8	54.3	35.5	21.2	40.2
June	1,894	3,825	9,790	3,545	6,245	18,724	10.1	20.4	52.3	33.4	19.3	39.1
July	1,927	3,793	10,243	3,892	6,351	19,046	10.1	19.9	53.8	33.3	18.8	37.0
August	2,160	3,900	10,197	3,700	6,498	19,091	11.3	20.4	53.4	34.0	21.2	38.2
September	R 2,146	R 3,921	R 9,979	R 3,631	R 6,349	R 19,116	R 11.2	R 20.5	R 52.2	R 33.2 E 32.2	R 21.5	R 39.3
October	NA NA	NA NA	E 9,644 E 9,551	E 3,406 E 3,413	E 6,238 E 6,138	E 19,370 E 19,984	NA NA	NA NA	E 49.8 E 47.8	E 32.2	NA NA	NA NA
November 11-Month Average	NA NA	NA NA	E 9,848	E 3,413	E 6,438	E 18,929	NA NA	NA NA	E 52.0	E 34.0	NA NA	NA NA
12 11-Month Average	2,193	4,337	10,686	3,165	7,521	18,524	11.8	23.4	57.7	40.6	20.5	40.6

receipts from U.S. territories.

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

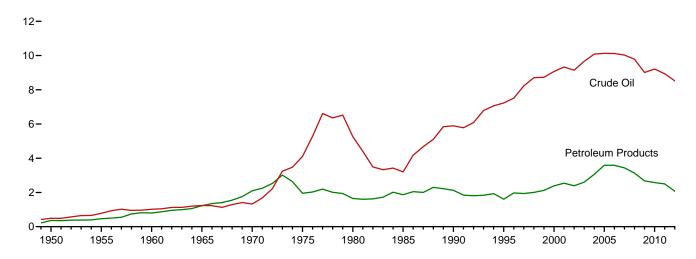
and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • 1949–1975: 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. • 1981–2012: EIA, Petroleum Supply Annual, annual reports, and unpublished revisions. • 2013: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations.

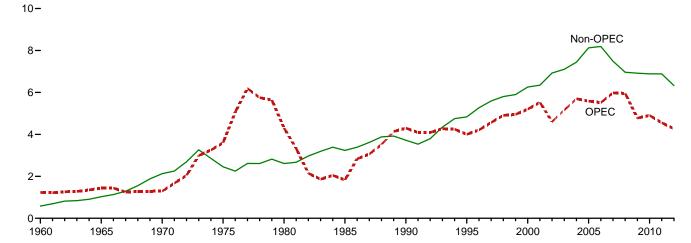
a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. See Table 3.3c for notes on which countries are included in the data.
R=Revised. E=Estimate. NA=Not available.
Notes: • For the feature article "Measuring Dependence on Imported Oil," published in the August 1995 Monthly Energy Review, see http://www.eia.gov/totalenergy/data/monthly/pdf/historical/imported_oil.pdf.
• Beginning in October 1977, data include Strategic Petroleum Reserve imports. See Table 3.3b. • Annual averages may not equal average of months due to independent rounding. • U.S. geographic coverage is the 50 states and the District of Columbia. U.S. exports include shipments to U.S. territories, and imports include

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

Overview, 1949-2012

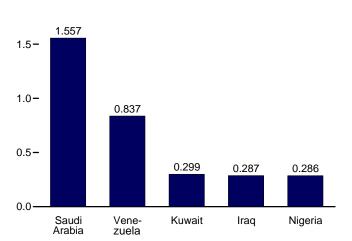


OPEC and Non-OPEC, 1960-2012

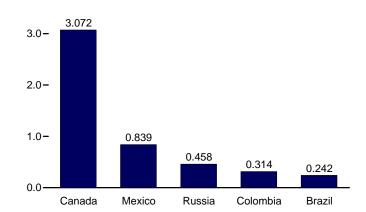


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From Selected OPEC Countries, September 2013



From Selected Non-OPEC Countries, September 2013



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

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Table 3.3b Petroleum Trade: Imports and Exports by Type

Total Distillate Part Propose* Total Distillate Part Propose* Total Distillate Part Propose* Total Distillate Part Propose* Total Distillate Part Distillate Disti						lm	ports						Exports	
1950 Average		Cruc	de Oil ^a			LPG	b					L .		
1960 Average		SPRC	Total			Propanee	Total			Otherg	Total			Total
1960 Average					(d)			(s)						
1965 Average														
1970 Average	1965 Average													
1975 Average	1970 Average													
1980 Average 18 3,201 200 300 69 216 140 939 130 6,909 227 258 544 148 80 Average 18 3,201 200 300 675 187 342 510 550 5067 204 577 879 1918 Average 1 6 7 7,200 1393 106 102 146 2265 187 708 8,335 100 55 855 489 200 Average 8 8 9,071 205 148 148 145 206 454 205 187 708 18,311 149 90 1,000 Average 11 9,326 344 148 145 206 454 205 187 708 18,315 120 951 971 1,000 Average 16 9,140 277 10,000 Average 16 9,140 277 10,000 Average 17 7,000 Average 16 9,140 277 10,000 Average 17 10,000 Average 18 9,140 277 10,000 Average 52 10,126 329 190 233 328 603 530 1,600 1,600 1,701 1,500	1975 Average													
1988 Average	1980 Average													
1995 Average — 7,230 193 106 102 146 265 187 708 8,835 95 855 949 2000 Average	1985 Average													
2000 Average	1990 Average	_2/												
2001 Average 116 9,328 344 148 145 206 454 225 1,095 11,871 20 951 971 202 Average 16 9,140 267 107 148 128 548 249 1,095 11,871 20 951 971 202 Average 7 1,095 11,	2000 Average	_ 8												
2002 Average	2001 Average													971
2004 Average 77 10,088 325 127 209 263 496 426 1,419 13,145 27 1,021 1,048 205 Average 52 10,126 329 190 233 328 603 530 1,681 3,074 32 1,133 1,165 2006 Average 7 10,031 305 186 187 222 332 475 350 1,881 3,406 27 1,455 1,455 2007 Average 7 10,031 305 187 187 1885 13,406 27 1,455 1,455 2007 Average 7 10,031 303 21 182 223 332 475 350 1,881 3,406 27 1,455 1,455 2007 Average 7 10,031 303 203 187 182 223 333 1,165 2007 Average 7 9,132 228 81 147 182 223 331 1,655 11,691 44 1,980 2,024 2010 Average 7 9,183 337 65 175 207 102 411 1,800 11,733 42 2,311 2,325 2011 January 7 9,183 337 65 175 207 102 411 1,865 11,691 1,733 42 2,311 2,325 2011 January 7 8,184 30 1,865 187 1,745 187 187 187 187 187 187 187 187 187 187	2002 Average	16												
2005 Average	2003 Average													
2006 Average	2004 Average			325					426			27		
2007 Average 7 10,031 304 217 182 247 413 372 1,865 13,468 27 1,405 1,433 2008 Average 56 9,013 225 81 147 182 223 331 1,635 11,991 44 1,980 2,024 2010 Average — 9,213 228 98 121 153 134 366 1,600 11,793 42 2,311 2,353 2011 January — 9,183 337 65 175 207 102 411 1,500 1,773 42 2,311 2,353 2011 January — 9,183 337 65 175 207 102 411 1,500 1,774 30 2,604 2,341 3,436 1,436	2005 Average													
2008 Average 19 9,783 213 103 185 253 302 349 1193 12,915 29 1,773 1,802 2009 Average 56 9,013 228 88 121 153 134 366 1,600 11,983 42 2,311 2,553 2011 January - 9,183 337 65 175 207 102 411 1,680 12,165 72 2,678 2,750 March - 9,183 337 65 175 201 119 364 1,532 10,674 30 2,604 2,634 March - 9,183 190 65 157 165 133 378 1,680 11,755 36 2,688 2,733 April - 9,183 190 65 157 165 133 378 1,680 37 2,688 2,733 Juh - 9,276 157 82														
2009 Average 56 9,013 225 81 147 182 223 331 1,635 11,691 44 1,980 2,024 2210 Average — 9,213 228 98 121 153 134 366 1,600 11,793 42 2,311 2,353 2011 January — 8,183 337 65 175 201 119 364 1,532 10,674 30 2,664 2,634 Average — 1,000 10,000	2008 Average	19	9,783	213	103	185	253	302	349	1,913	12,915	29	1,773	1,802
2010 Average — 9,213	2009 Average	56	9,013	225	81	147	182	223	331	1,635	11,691	44	1,980	2,024
February	2010 Average	-	9,213	228	98	121	153	134	366	1,600	11,793	42	2,311	2,353
March		_												
April — 6,839 191 80 96 115 138 424 1,959 11,746 41 3,031 3,071 May — 9,059 170 91 74 101 137 306 1,942 11,807 37 2,698 2,735 June — 9,235 127 82 62 89 130 353 1,789 11,806 36 2,680 2,716 July — 9,276 157 95 61 85 92 246 1,733 11,685 73 2,980 3,053 August — 8,936 148 66 73 101 106 231 1,573 11,161 34 2,969 3,005 September — 8,914 179 58 109 132 99 277 1,567 11,26 35 3,139 3,174 October — 8,907 128 61 95 118 66 286 1,440 11,005 51 3,057 3,107 November — 8,724 138 72 110 129 74 341 1,677 11,156 64 3,094 3,159 December — 8,711 175 21 152 177 60 330 1,509 10,983 53 3,614 3,667 Average — 8,935 179 69 110 135 105 328 1,686 11,436 47 2,939 2,986 Average — 8,935 179 69 110 135 105 328 1,686 11,436 47 2,939 2,986 Average — 8,562 142 41 125 155 46 228 1,315 10,490 73 2,921 2,994 April — 8,562 142 41 125 155 46 228 1,315 10,490 73 2,921 2,994 April — 8,636 98 45 115 143 33 252 1,404 10,615 71 3,045 3,116 April — 8,636 98 45 115 143 33 252 1,404 10,610 71 81 3,231 3,272 June — 9,193 87 42 102 130 37 32 247 1,505 10,794 77 3,160 3,237 August — 8,861 117 48 115 134 32 227 1,505 10,794 77 3,160 3,237 August — 8,665 117 48 86 80 100 124 23 23 1,339 1,435 10,407 73 3,213 3,212 3,214 3,214 3,214 3,214 3,214 3,215 3,214 3,2	March	_												
May	April	_												
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October - 8,907 128 61 95 118 66 286 1,440 11,005 51 3,057 3,107 November - 8,721 138 72 110 129 74 341 16,77 11,156 64 3,094 3,159 December - 8,711 175 21 152 177 60 330 1,509 10,983 53 3,614 3,667 2012 January - 8,527 157 6 146 169 80 330 1,641 10,910 78 2,791 2,870 February - 8,562 142 41 125 155 46 228 1,315 10,490 73 2,921 2,994 March - 8,636 98 45 115 143 33 252 1,404 10,605 71 3,045 3,172 June - 9,193 87 <t< td=""><td>September</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	September													
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December	November	_						74	341			64		
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August - 8,665 112 124 85 109 34 244 1,593 10,880 60 3,021 3,081 September - 8,381 86 84 100 124 23 257 1,521 10,475 68 3,096 3,164 October - 8,108 88 106 91 116 26 236 1,388 10,047 67 3,188 3,255 November - 8,183 188 46 138 158 32 236 1,339 10,181 73 3,331 3,404 December - 7,604 190 59 161 182 64 178 1,367 9,644 71 3,565 3,636 Average - 8,527 126 55 116 141 44 256 1,450 10,598 67 3,137 3,205 2013 January - 7,953 213 46 184 207 40 238 1,345 10,042 73 2,809<														
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Average - 8,527 126 55 116 141 44 256 1,450 10,598 67 3,137 3,205 2013 January - 7,953 213 46 184 207 40 238 1,345 10,042 73 2,809 2,882 February - 7,270 174 61 166 186 19 196 1,331 9,235 124 3,119 3,243 March - 7,460 146 18 141 164 56 300 1,312 9,456 101 3,010 3,111 April - 7,726 238 74 110 130 35 259 1,614 10,076 132 3,075 3,208 May - 7,737 168 83 81 98 24 186 1,757 10,052 125 3,342 3,467 July - 7,730 120 76	November	-												
2013 January 7,953	December	-												
February — 7,270		-	0,327							1,450	•		3,13 <i>1</i>	
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April - 7,726 238 74 110 130 35 259 1,614 10,076 132 3,075 3,208 May - 7,737 168 83 81 98 24 186 1,757 10,052 125 3,342 3,467 July - - 7,730 120 76 110 131 70 173 1,490 9,790 120 3,425 3,455 July - 8,071 107 75 87 108 53 249 1,580 10,243 98 3,794 3,892 August - 8,099 123 124 85 109 68 292 1,383 10,197 66 3,634 3,704 September - R7,911 R132 R68 R87 R108 R40 R229 R1,490 R9,979 R99 R3,532 R3,631 October - E7,630 E137 E57 E127 NA E36 E174 NA E9,644 E56	February													
May — 7,737 168 83 81 98 24 186 1,757 10,052 125 3,342 3,467 June — 7,730 120 76 110 131 70 173 1,490 9,790 120 3,425 3,545 July — 8,071 107 75 87 108 53 249 1,580 10,243 98 3,794 3,892 August — 8,099 123 124 85 109 68 292 1,383 10,197 66 3,634 3,700 September — R,7,911 R 132 R 68 R 87 R 108 R 40 R 229 R 1,490 R 9,979 R 99 R 3,532 R 3,631 October — E 7,630 E 137 E 57 E 127 NA E 36 E 174 NA E 9,644 E 56 E 3,350 E 3,406 November — E 7,745 E 145 E 65 E 133 NA E 50 E 187 NA E 9,551 E 57 E 3,350 E 3,413 11-Month Average — E 7,762 E 155 E 68 E 119 NA E 45 <td></td> <td>_</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>300 250</td> <td></td> <td></td> <td></td> <td></td> <td></td>		_							300 250					
June - 7,730 120 76 110 131 70 173 1,490 9,790 120 3,425 3,545 July - 8,071 107 75 87 108 53 249 1,580 10,243 98 3,794 3,892 August - 8,099 123 124 85 109 68 292 1,383 10,197 66 3,634 3,700 September - R,7911 R,132 R,68 R,87 R,108 R,40 R,229 R,1,490 R,979 R,99 R,3,532 R,3,631 October - E,7,630 E,137 E,57 E,127 NA E,36 E,174 NA E,9,644 E,56 E,3,350 E,3,406 November - E,7,745 E,145 E,65 E,133 NA E,50 E,187 NA E,9,551 E,57 E,3,357 E,3,410 2012 11-Month Average - E,7,762 E,155 E,68 E,119 NA E,45 E,226 NA E,9,848 E,95 E,3,315 E,3,410		_												
July — 8,071 107 75 87 108 53 249 1,580 10,243 98 3,794 3,892 August — 8,099 123 124 85 109 68 292 1,383 10,197 66 3,634 3,700 September — R7,911 R132 R68 R87 R108 R40 R229 R1,490 R9,979 R99 R3,532 R3,631 October — — E7,630 E137 E57 E127 NA E36 E174 NA E9,644 E56 E3,350 E3,406 November — E7,762 E155 E68 E119 NA E45 E226 NA E9,848 E95 E3,351 E3,410 2012 11-Month Average — 8,612 120 54 112 137 42 263 1,457 10,686 67 3,098 3,165		_			76		131		173	1,490	9,790	120	3,425	
September — R7,911 R132 R68 R87 R108 R40 R229 R1,490 R9,979 R9,983 R9,624 E5,7 E3,405 E3,400 </td <td>July</td> <td>_</td> <td>8,071</td> <td></td> <td>75</td> <td></td> <td></td> <td></td> <td>249</td> <td></td> <td></td> <td></td> <td></td> <td></td>	July	_	8,071		75				249					
October		-		123		₂ 85			292	1,383		66	3,634	
November		_	11 / ,911 E 7 620	132 E 127		∿8/ E 127			F 174			F 50	113,532 E 2 250	1 3,631 E 3 406
11-Month Average - +7,762 +155 +68 +119 NA +45 +226 NA +9,848 +95 +3,315 +3,410 2012 11-Month Average - 8,612 120 54 112 137 42 263 1,457 10,686 67 3,098 3,165	November	_	= 7,030 E 7 745	E 145	E 65	E 133		E 50	E 187		= 9,044 E 9 551	E 57	= 3,350 E 3 357	= 3,400 E 3 413
		_	E 7,762	E 155	E 68	E 119		E 45	E 226		E 9,848		E 3,315	E 3,410
	2012 11-Month Average 2011 11-Month Average	_	8,612 8,956	120 179	54 73	112 106	137 131	42 109	263 328	1,457 1,702	10,686 11,478	67 46	3,098 2,876	3,165 2,923

Includes lease condensate

includes finished aviation gasoline and special naphthas. Beginning in 1981, also includes motor gasoline blending components. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. NA=Not available. — =Not applicable. — =No data reported. (s)=Less than 500 barrels per day.

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/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • 1949–1975: 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. • 1981–2012: EIA, Petroleum Supply Annual, annual reports, and unpublished revisions. • 2013: 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. Monthly Energy Review data system calculations.

a Includes lease condensate.
 b Liquefied petroleum gases.
 c "SPR" is the Strategic Petroleum Reserve, which began in October 1977.
 Through 2003, includes crude oil imports by SPR only; beginning in 2004, includes crude oil imports by SPR, and crude oil imports into SPR by others.
 d Beginning in 1965, includes kerosene-type jet fuel. (Through 1964, kerosene-type jet fuel is included with kerosene in "Other.") For 1956–2004, also includes naphtha-type jet fuel. (Through 1955, naphtha-type jet fuel is included in "Motor Gasoline." Beginning in 2005, naphtha-type jet fuel is included in "Other.")
 e Includes propolene.

[&]quot;Motor Gasoline." Beginning in 2005, naphtha-type jet ruei is included in Guiei.)

e Includes propylene.
f Finished motor gasoline. Through 1955, also includes naphtha-type jet fuel.
Through 1963, also includes aviation gasoline and special naphthas. Through 1980, also includes motor gasoline blending components.
g Asphalt and road oil, aviation gasoline blending components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, unfinished oils, waxes, other hydrocarbons and oxygenates, and miscellaneous products.
Through 1964, also includes kerosene-type jet fuel. Beginning in 1964, also

Table 3.3c Petroleum Trade: Imports From OPEC Countries

Part	(1110	dodina Be	211010 POI	- Duy/								
1985 Average		Algeria ^a	Angola ^b	Ecuadorc	Iraq	Kuwait ^d	Libya ^e	Nigeria ^f			Other ^g	
1965 Average	1960 Average	(a)	(b)	(°)	22	182	(e)	(f)	84	011	34	1 233
1970 Average		}a{	}b{					}f ⟨				
1975 Average		۱ / 8	} b {					} f 〈				
1890 Average			}b∫					` '				
1985 Average			}b∫									
1990 Average	1985 Average		}b{									
1995 Average 224 (°) (°) 0 218 0 627 1,344 1,480 98 4,002 2000 Average 225 (°) (°) 550 272 0 895 1,562 1,553 11,548 72 5,228 2002 Average 2284 (°) (°) 459 228 0 627 1,552 1,553 11,538 33 4,605 2002 Average 382 (°) (°) 459 228 0 627 1,552 1,538 33 4,605 2005 Average 4478 (°) (°) 553 185 87 1,114 1,463 1,419 38 5,517 2007 Average 657 (°) (°) 553 185 87 1,114 1,463 1,419 38 5,517 2007 Average 548 513 221 627 210 103 988 1,529 1,149 358 5,517 <t< th=""><th></th><th>280</th><th>(b)</th><th>49</th><th>518</th><th>86</th><th>0</th><th>800</th><th>1.339</th><th>1.025</th><th>199</th><th>4.296</th></t<>		280	(b)	49	518	86	0	800	1.339	1.025	199	4.296
2000 Average		234			0	218	Ó	627		1,480	98	
2001 Average		225	(b)	(°)	620	272	Ó	896				5,203
2004 Average		278			795	250	0	885	1,662	1,553	105	5,528
2004 Average	2002 Average	264				228	0	621	1,552	1,398	83	4,605
2004 Average	2003 Average	382			481		0	867	1,774	1,376	61	5,162
2007 Average		452				250		1,140			70	5,701
2007 Average 670 S08 (°) 484 181 117 1,134 1,381 39 5,980 2008 Average 548 513 221 627 210 103 988 1,529 1,189 26 5,954 2009 Average 493 460 185 450 182 79 809 1,004 1,063 50 4,776 2011 January 565 316 238 433 147 57 1,022 1,101 1,030 - 4,909 February 406 370 255 263 118 36 978 1,114 989 - 4,530 March 500 280 182 398 161 322 1,101 1,030 - 4,909 February 406 277 169 519 78 1 922 1,101 1,000 - 4,530 Mari 402 393 393 219		478	()	\ ,		243	56	1,166	1,537	1,529	47	5,587
2008 Average 548 513 221 627 210 103 988 1,529 1,189 28 5,954 2009 Average 493 460 185 450 182 79 809 1,004 1,663 50 4,776 2010 Average 510 393 212 415 197 70 1,023 1,096 988 3 4,906 2011 January 565 316 238 433 147 57 1,022 1,101 1,003 - 4,909 February 406 370 255 263 118 36 978 1,114 989 - 4,530 April 466 277 169 519 78 1 922 1,107 1,009 - 4,538 April 466 277 169 519 78 1 922 1,107 1,009 4 4,638 May 391 356 <t< td=""><th>2006 Average</th><td>657</td><td></td><td></td><td></td><td>185</td><td>87</td><td>1,114</td><td></td><td>1,419</td><td>38</td><td>5,517</td></t<>	2006 Average	657				185	87	1,114		1,419	38	5,517
2009 Average	2007 Average											
2011 January 566 316 238 433 147 57 1,022 1,101 1,030 - 4,906 2011 January 565 316 238 433 147 57 1,022 1,101 1,030 - 4,909 4,530 4,906 4,530												
Pebruary	2009 Average											4,776
February	2010 Average	510	393	212	415	197	70	1,023	1,096	988	3	4,906
February	2011 January										_	
April 466 277 169 519 78 1 922 1,107 1,009 - 4,548 May 391 366 158 422 200 (s) 854 1,203 1,016 19 4,619 June 297 373 219 559 238 35 853 1,169 1,084 68 4,894 July 354 407 172 596 228 - 884 13,26 954 18 4,939 August 298 331 309 637 165 1 892 1,075 914 32 4,656 September 291 304 305 404 145 2 580 1,479 806 11 4,326 October 173 439 178 490 278 2 693 1,120 906 17 4,296 November 260 340 181 395 302 10 703 1,222 767 26 4,206 December 297 357 106 380 231 9 534 1,310 868 - 4,003 Average 358 346 206 459 191 15 818 1,195 951 16 4,555 Pebruary 256 220 244 271 252 29 353 1,420 934 - 3,989 March 325 255 253 201 395 253 201 395 253 1,420 934 - 4,001 April 259 253 201 395 253 201 395 253 1,420 934 - 4,001 April 259 253 201 395 253 201 395 253 1,420 934 - 4,002 April 259 253 201 395 255 488 1,540 861 7 4,402 May 300 229 248 271 395 255 256 848 1,540 861 7 4,402 May 300 259 253 201 395 255 68 483 1,597 904 7 4,402 May 300 259 253 201 395 255 68 483 1,597 904 7 4,402 May 300 259 253 201 395 255 68 483 1,597 904 7 4,402 May 300 259 253 251 576 375 304 110 372 1,466 794 17 4,665 July 213 285 176 375 304 110 372 1,466 1,000 7 4,367 August 303 153 180 550 301 126 504 1,220 1,048 - 4,365 September 175 237 218 461 310 67 468 1,291 1,038 6 4,228 December 179 116 155 489 276 30 516 1,316 1,076 18 4,228 December 179 116 155 489 276 30 516 1,316 1,076 18 4,228 December 179 116 155 489 276 30 516 1,316 1,076 18 4,228 December 179 116 155 482 254 66 1441 1,365 960 9 4,271 2013 June 88 271 202 245 253 261 361 144 1,365 960 9 4,271 2013 June 88 271 202 245 258 257 159 543 1,258 951 4 4 1,472 201 3,486 1,000 7 4,387 August 30 3 153 180 476 305 61 441 1,365 960 9 4,271 2013 June 160 167 322 455 258 267 140 318 977 334 1,277 796 7 3,776 2012 9Month Average 242 233 180 476 305 267 149 306 1,318 924 - 3,380 4,366 246 246 255 287 299 35 286 1,577 837 - 3,921 294 309 309 150 240 4,318 894 - 3,393 39 4,366 246 246 255 287 299 35 286 1,577 837 - 3,921 294 309 309 150 240 4,318 894 - 3,393 39 4,366 206 204 4,346 4,366 226 255 287 299 35 286 1,577 837 -		406	370	255	263	118	36	978	1,114	989	_	4,530
May 391 356 158 422 200 (s) 854 1,203 1,016 69 4,619 Juln 297 373 219 559 228 — 884 1,326 954 18 4,939 July 354 407 172 596 228 — 884 1,326 954 18 4,939 August 298 331 309 637 165 1 892 1,075 914 32 4,656 September 291 304 305 404 145 2 580 1,479 806 11 4,206 October 173 439 178 490 278 2 693 1,120 906 17 4,206 December 297 357 106 380 231 9 534 1,195 951 16 4,206 December 297 357 106 380 <th>March</th> <td>500</td> <td>280</td> <td>182</td> <td>398</td> <td>161</td> <td>32</td> <td>913</td> <td>1,108</td> <td>1,065</td> <td>_</td> <td>4,638</td>	March	500	280	182	398	161	32	913	1,108	1,065	_	4,638
June 297 373 219 559 238 35 853 1,169 1,084 68 4,894 July 354 407 172 596 228 — 884 1,326 954 18 4,939 August 288 331 309 637 165 1 892 1,075 914 32 4,656 September 291 304 305 404 145 2 580 1,179 914 32 4,656 October 173 439 178 490 278 2 693 1,120 906 17 4,236 October 260 340 181 395 302 10 703 1,222 767 26 4,206 December 297 357 106 380 231 9 534 1,310 868 — 4,033 Average 358 346 206 459 191 15 818 1,195 951 16 4,555 2012 January 269 385 100 374 319 5 444 1,423 751 41 4,159 February 266 230 244 271 252 29 353 1,400 934 — 3,989 March 325 175 174 386 454 60 374 1,399 884 — 4,301 April 259 253 201 395 235 68 483 1,597 904 7 4,402 May 300 249 199 675 407 65 428 1,540 861 7 4,402 May 300 249 199 675 407 65 428 1,540 861 7 4,402 May 300 249 199 675 407 65 428 1,540 861 7 4,430 Julne 213 285 176 375 304 110 372 1,466 1,080 7 4,385 September 175 237 218 461 310 67 468 1,291 1,038 6 4,226 December 179 116 155 462 254 10 30 516 1,316 1,076 18 4,228 December 179 116 155 462 254 10 30 516 1,316 1,076 18 4,228 December 179 116 155 462 254 16 248 1,310 1,328 6 4,271 December 179 116 155 462 254 16 248 1,310 1,328 60 1,378 December 179 116 155 462 254 16 248 1,310 1,328 60 1,328 December 179 116 155 462 254 16 248 1,346 1,367 1,038 6 4,272 December 179 116 155 462 254 16 248 1,346 1,076 18 4,228 December 179 116 155 462 254 16 248 1,344 1,365 960 9 4,271 2013 Junuary 194 223 240 419 389 276 30 516 1,316 1,076 18 4,228 December 179 116 155 462 254 16 248 1,344 1,365 960 9 4,271 2013 Junuary 194 223 240 419 389 20 479 979 898 10 3,850 Average 242 233 180 476 305 61 441 1,365 960 9 4,271 2013 Junuary 194 223 240 419 389 20 479 979 898 10 3,850 Average 242 233 180 476 305 61 441 1,365 960 9 4,271 2013 Junuary 194 223 240 419 389 260 479 979 898 10 3,850 Average 242 233 180 476 305 61 441 1,365 960 9 4,271 2013 Junuary 194 223 240 419 389 20 479 979 898 10 3,850 Average 242 233 180 476 305 61 441 1,365 960 9 4,271 2013 Junuary 194 223 240 479 389 20 479 979 898 10 3,850 Average 242 233 180 476 305 61 441 1,365 960 9 4,271 201	April	466	277	169			1	922		1,009	_	4,548
July 354 407 172 596 228 — 884 1,326 954 18 4,939 August 288 331 309 637 1655 1 882 1,075 914 32 4,656 September 291 304 305 404 145 2 580 1,479 806 11 4,326 Clober 173 439 178 490 278 2 693 1,120 906 17 4,226 Clober 297 357 406 181 395 302 10 703 1,222 767 26 4,206 December 297 358 346 206 499 191 15 818 1,195 951 16 4,555 2012 January 269 385 100 374 319 5 494 1,423 751 41 4,159 February 256 230 244 271 252 29 353 1,420 934 — 3,989 March 325 175 174 386 454 60 374 1,369 984 — 4,301 April 259 253 201 395 235 68 483 1,597 904 7 4,402 June 236 378 248 668 250 93 515 1,456 794 17 4,655 September 175 237 218 461 310 67 488 1,291 1,038 6 4,387 August 303 153 180 550 301 126 504 1,220 1,048 — 4,387 August 303 153 180 550 301 126 504 1,220 1,048 — 4,387 Avgust 199 157 157 148 228 December 179 116 155 462 254 16 248 1,034 1,092 — 3,556 Avgrage 242 233 180 476 305 489 277 440 2,200 1,048 — 4,387 Avgrage 242 233 180 476 305 489 260 1,034 1,032 4,034 1,034 1,092 — 3,556 Avgrage 242 233 180 476 305 255 20 255 1,032 601 3,034 1,036 99 4,271 2013 June 199 157 151 489 276 305 161 1,366 170 1,038 6 4,272 Clober 186 183 122 593 287 59 543 1,258 951 4 4,182 December 179 116 155 462 254 16 248 1,034 1,092 — 3,556 Avgrage 242 233 180 476 305 255 20 255 1,032 601 1,008 7 - 3,780 Avgrage 242 233 180 476 305 507 74 405 1,009 347 - 3,780 Avgrage 242 233 180 476 305 507 74 405 1,009 347 - 3,780 Avgrage 242 233 180 476 305 507 74 403 1,284 763 8 3,713 April 160 167 322 455 238 77 4 403 1,284 763 8 3,713 April 160 167 322 455 288 277 119 366 1,411 3,365 960 9 4,271 2013 January 194 223 240 419 389 20 479 979 898 10 3,850 June 88 271 202 228 217 119 366 1,411 3,309 44 - 3,780 June 88 271 202 228 217 119 366 1,411 3,309 44 - 3,780 June 88 271 202 228 217 119 366 1,411 3,309 44 - 3,780 June 88 271 202 288 277 119 366 1,411 3,309 44 - 3,780 June 88 271 202 288 277 119 366 1,411 3,309 44 - 3,780 June 88 271 202 288 277 119 366 1,411 3,309 44 - 3,780 June 88 271 202 288 277 119 366 1,411 3,420 933 9 4,366 204 294 309 35 36 36 1,557 837 - 3,92	May	391						854	1,203	1,016	19	4,619
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2012 January 269 385 100 374 319 5 494 1,423 751 41 4,159 February 256 230 244 271 252 29 353 1,420 934 — 3,989 March 325 175 174 386 454 60 374 1,369 984 — 4,301 April 259 253 201 395 235 68 483 1,597 904 7 4,402 May 300 249 199 675 407 65 428 1,540 861 7 4,730 June 236 378 248 668 250 93 515 1,456 794 17 4,655 July 213 285 176 375 304 110 372 1,466 1,080 7 4,387 August 303 153 180 550 301 126 504 1,220 1,048 — 4,385 September 175 237 218 461 310 67 468 1,291 1,038 6 4,272 October 186 183 122 593 287 59 543 1,258 951 4 4,187 November 199 157 151 489 276 30 516 1,316 1,076 18 4,228 December 179 116 155 462 254 16 248 1,034 1,092 — 3,556 Average 242 233 180 476 305 61 441 1,365 960 9 4,271 2013 January 194 223 240 419 389 20 479 979 898 10 3,850 February 179 160 167 322 455 238 74 403 1,284 763 8 3,713 April 160 167 322 455 238 74 403 1,284 763 8 3,713 April 160 167 322 455 238 76 405 1,094 779 898 10 3,850 February 194 223 240 419 389 20 479 979 898 10 3,850 February 194 223 240 419 389 20 479 979 898 10 3,850 February 194 177 198 174 529 255 20 255 1,032 601 14 3,094 March 74 98 218 426 367 74 403 1,284 763 8 3,713 April 160 167 322 455 238 76 405 1,109 847 — 3,780 May 168 328 178 321 361 125 395 1,440 720 10 4,045 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16 3,825 June 88 271 202 228 217 119 366 1,431 887 16												
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2013 January											-	
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July 112 242 198 299 309 150 240 1,318 924 - 3,793 August 105 376 349 397 420 67 167 1,332 678 10 3,900 September 136 226 255 287 299 35 286 1,557 837 - 3,921 9-Month Average 118 237 238 372 319 77 334 1,277 796 7 3,776 2012 9-Month Average 260 260 193 463 316 70 444 1,420 933 9 4,366												
August 105 376 349 397 420 67 167 1,332 678 10 3,900 September 136 226 255 287 299 35 286 1,557 837 - 3,921 9-Month Average 118 237 238 372 319 77 334 1,277 796 7 3,776 2012 9-Month Average 260 260 193 463 316 70 444 1,420 933 9 4,366											16	
September 136 226 255 287 299 35 286 1,557 837 - 3,921 9-Month Average 118 237 238 372 319 77 334 1,277 796 7 3,776 2012 9-Month Average 260 260 193 463 316 70 444 1,420 933 9 4,366											-	
9-Month Average 118 237 238 372 319 77 334 1,277 796 7 3,776 2012 9-Month Average 260 260 193 463 316 70 444 1,420 933 9 4,366											10	
2012 9-Month Average 260 260 193 463 316 70 444 1,420 933 9 4,366	September										-	
	9-Month Average								,			3,776

Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. Petroleum imports not classified as "OPEC" on this table are included on Table 3.3d. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil. • Includes imports for the Strategic Petroleum Reserve, which began in October 1977. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 october 1975.

web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum (Excel and CSV files) for all available annual data beginning in 1960 and monthly data beginning in 1973.

beginning in 1973.
Sources: • 1960–1972: Bureau of Mines, *Minerals Yearbook*, annual reports.
• 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.
• 1981–2012: EIA, *Petroleum Supply Annual*, annual reports.
• 2013: EIA, *Petroleum Supply Monthly*, monthly reports.

Algeria joined OPEC in 1969. For 1960–1968, Algeria is included in "Total Non-OPEC" on Table 3.3d.
 Angola joined OPEC in January 2007. For 1960–2006, Angola is included in "Total Non-OPEC" on Table 3.3d.
 Ecuador was a member of OPEC from 1973–1992, and rejoined OPEC in November 2007. For 1960–1972 and 1993–2007, Ecuador is included in "Total

Non-OPEC" on Table 3.3d.

d Through 1970, includes half the imports from the Neutral Zone between Through 1970, includes half the imports from the Neutral Zone between Kuwait and Saudi Arabia. Beginning in 1971, imports from the Neutral Zone are reported as originating in either Kuwait or Saudi Arabia depending on the country reported to U.S. Customs.

Libya joined OPEC in 1962. For 1960 and 1961, Libya is included in "Total Non-OPEC" on Table 3.3d.

Non-OPEC" on Table 3.3d.

Jincludes these countries in the years indicated: Gabon (1975–1994), before self-(1962) 2009, trop (1966) forward). Octor (1964 forward) and United September 1964.

Indonesia (1962–2008), Iran (1960 forward), Qatar (1961 forward), and United Arab Emirates (1967 forward).

 ^{– =}No data reported. (s)=Less than 500 barrels per day.

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

	Brazil	Canada	Colombia	Mexico	Nether- lands	Norway	Russiaa	United Kingdom	U.S. Virgin Islands	Other	Total Non-OPEC
1960 Average	1	120	42	16	NA	NA	0	(s)	NA	NA	581
1965 Average	0	323	51	48	1	0	Ŏ	(s)	0	606	1,029
1970 Average	2	766	46	42	39	Ŏ	3	11	189	1,027	2,126
1975 Average	5	846	9	71	19	17	14	14	406	1,052	2,454
1980 Average	3	455	4	533	2	144	1	176	388	903	2,609
1985 Average	61	770	23	816	58	32	8	310	247	913	3.237
1990 Average	49	934	182	755	55	102	45	189	282	1,128	3,721
1995 Average	8	1,332	219	1,068	15	273	25	383	278	1,233	4.833
2000 Average	51	1,807	342	1,373	30	343	72	366	291	1,581	6,257
2001 Average	82	1,828	296	1,440	43	341	90	324	268	1,631	6,343
	116	1,971	260	1,547	66	393	210	478	236	1,649	6.925
2002 Average	108	2,072	195	1,623	87	270	254	440	288	1,766	7,103
2003 Average	104	2,138	176	1,665	101	244	298	380	330	2.008	7,103 7,444
2004 Average										,	
2005 Average	156	2,181	196	1,662	151	233	410	396	328	2,413	8,127
2006 Average	193	2,353	155	1,705	174	196	369	272	328	2,446	8,190
2007 Average	200	2,455	155	1,532	128	142	414	277	346	1,839	7,489
2008 Average	258	2,493	200	1,302	168	102	465	236	320	1,416	6,961
2009 Average	309	2,479	276	1,210	140	108	563	245	277	1,307	6,915
2010 Average	272	2,535	365	1,284	108	89	612	256	253	1,112	6,887
2011 January	263	2,921	355	1,366	101	85	558	155	276	1,176	7,256
February	179	2,932	258	1,103	129	69	437	110	179	749	6,144
March	165	2,724	427	1,319	91	156	690	198	149	1,198	7,117
April	228	2,693	548	1,077	133	167	704	193	179	1,275	7,198
May	298	2,505	433	1,303	129	101	684	245	194	1,296	7,188
June	283	2,515	309	1,222	175	93	689	146	151	1,330	6,912
July	330	2.618	418	1,197	80	58	564	175	192	1,113	6.746
August	239	2,622	395	1,185	81	87	585	125	185	1,001	6,505
September	190	2,836	529	1,192	64	97	592	124	189	1,087	6.899
October	190	2,671	578	1,177	23	180	687	150	151	902	6,709
November	245	2,797	424	1,256	96	174	737	125	177	918	6,950
	417	2,737	508	1,064	101	88	552	162	214	857	6,890
December Average	253	2,729	433	1,206	100	113	624	159	186	1,077	6,881
2012 January	321	3,032	431	1,114	101	46	572	168	96	870	6,751
February	286	3,052	474	1.081	93	163	288	127	28	904	6.501
	357	2,953	482	1,004	143	87	326	187	1	764	6,304
March	237	2,933	472	1,004	84	51	388	145	12	831	6,208
April						94					
May	212	2,966	430	1,012	111		547	138	2	875	6,387
June	297	3,070	515	915	151	82	655	194	(s)	891	6,769
July	270	2,921	413	1,024	138	47	491	131	1	971	6,407
August	289	2,954	409	1,016	97	94	368	197	_	1,071	6,495
September	152	2,759	357	1,096	75	63	562	111	-	1,029	6,203
October	90	2,642	376	1,062	69	67	552	117	3	882	5,860
November	123	2,870	459	1,065	72	80	445	126	-	712	5,953
December	85	3,153	387	1,026	52	35	523	144	_	682	6,088
Average	226	2,946	433	1,035	99	75	477	149	12	874	6,327
2013 January	106	3,433	351	1,068	120	48	327	116	-	624	6,193
February	79	3,416	366	978	120	10	454	95	_	623	6,141
March	123	3,004	479	677	121	69	454	111	-	705	5,743
April	96	3,163	465	973	80	40	579	131	_	769	6,296
May	193	2,842	389	885	88	26	552	170	_	862	6,007
June	182	2,864	356	846	74	80	513	198	_	853	5,965
July	179	3,008	588	930	69	68	453	192	_	965	6,450
August	226	3,076	375	912	85	36	572	163	_	852	6,297
September	242	3,072	314	839	58	56	458	149	=	871	6.059
9-Month Average	159	3,072 3,095	410	900	90	48	456 485	149 148	_	793	6,059 6,128
-	269	2,966	442	1,029	111	80	467	156	16	912	6,447
2012 9-Month Average 2011 9-Month Average	269 243	2,705	442 409	1,029	111	80 102	467 613	164	188	1,139	6,44 <i>7</i> 6,892

^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. NA=Not available. – =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 Table 3.3c are included on this table. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil. • Includes imports for the Strategic Petroleum Reserve, which began in October 1977. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50

states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum (Excel and CSV files) for all available annual data beginning in 1960 and monthly data beginning in 1973.

Sources: • 1960–1972: Bureau of Mines, Minerals Yearbook, annual reports.

Sources: • 1960–1972: Bureau of Mines, Minerals Yearbook, annual reports.
• 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.
• 1981–2012: EIA, Petroleum Supply Annual, annual reports. • 2013: EIA, Petroleum Supply Monthly, monthly reports.

Figure 3.4 Petroleum Stocks

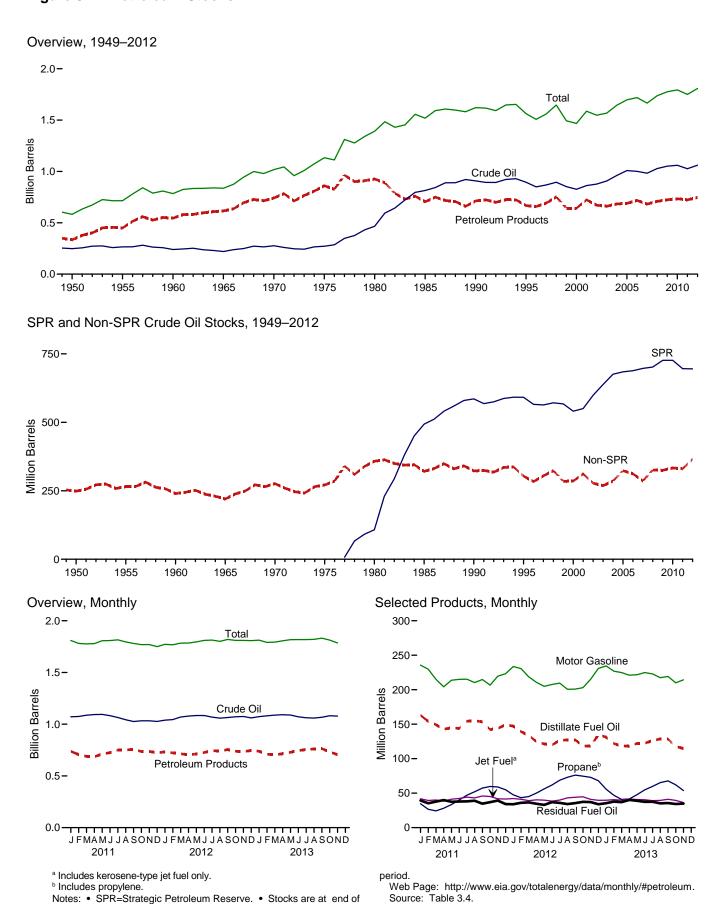


Table 3.4 Petroleum Stocks

(Million Barrels)

	Crude Oila					LPG	≥ b				
				Distillate	Jet	LPG	j ^o	Motor	Residual		
	SPR ^c	Non-SPR ^{d,e}	Totale	Fuel Oil ^f	Fuel ^g	Propane ^h	Total	Gasoline ⁱ	Fuel Oil	Other ^j	Total
1950 Year		248	248	72	(^g)	NA	2	116	41	104	583
1955 Year		266	266	111	` ′3	NA	7	165	39	123	715
1960 Year		240	240	138	7	NA	23	195	45	137	785
1965 Year		220	220	155	19	NA	30	175	56	181	836
1970 Year		276	276	195	28	NA	67	209	54	188	1,018
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
2000 Year	541	286	826	118	45	41	83	196	36	164	1,468
2001 Year	550 599	312 278	862	145	42	66	121 106	210	41	166	1,586
2002 Year	599 638	2/8 269	877 907	134 137	39 39	53 50	94	209 207	31 38	152 147	1,548 1.568
2003 Year		286	961	126	40	55	104	207 218	36 42		
2004 Year	676	286 324		136	40 42	57	104	218 208	42 37	153	1,645
2005 Year	685 689	324 312	1,008 1,001	136	42 39	62	113	208 212	37 42	157 169	1,698 1,720
2006 Year 2007 Year	697	286	983	134	39	52 52	96	212	42 39	156	1,720
2008 Year	702	326	1,028	146	38	55 55	113	214	36	162	1,737
2009 Year	727	325	1,052	166	43	50	102	223	37	153	1,776
2010 Year	727	333	1,060	164	43	49	108	219	41	158	1,794
2011 January	727	345	1,072	163	42	35	87	236	39	171	1,809
February	727	348	1.075	154	39	27	73	230	35	174	1.780
March	727	360	1,087	149	40	24	71	215	38	177	1,776
April	727	367	1,093	143	38	28	81	204	40	180	1,779
May	727	368	1,095	145	41	34	93	214	38	181	1,807
June	727	356	1,082	144	42	40	107	215	38	180	1,809
July	718	346	1,065	154	44	47	121	215	38	179	1,816
August	696	347	1,043	155	43	52	132	210	39	173	1,796
September	696	330	1,026	153	46	57	135	215	35	171	1,781
October	696	337	1,033	142	45	60	135	207	37	170	1,769
November	696	337	1,033	144	42	59	126	220	39	167	1,770
December	696	331	1,027	149	41	55	112	223	34	164	1,750
2012 January	696 696	343 348	1,039 1,044	147 139	42 41	48 43	101 96	234 231	34 36	175 180	1,773 1,767
March	696	373	1,069	134	39	45	103	219	37	184	1,783
April	696	383	1,009	125	40	50	116	211	35	179	1,784
May	696	388	1.084	121	40	56	133	205	33	180	1,796
June	696	388	1.084	120	38	62	147	208	37	177	1.810
July	696	373	1.069	126	40	69	160	210	36	173	1.813
August	696	362	1.058	127	43	73	170	201	34	166	1.801
September	695	370	1,065	127	44	76	175	201	36	172	1,819
October	695	376	1,071	119	45	75	168	203	37	167	1,810
November	695	379	1,074	118	41	73	158	215	37	167	1,810
December	695	365	1,061	135	40	68	141	231	34	167	1,808
2013 January	696	378	1,073	131	40	56	121	234	35	177	1,812
February	696	385	1,081	122	41	47	108	227	38	175	1,791
March	696	392	1,088	119	40	41	103	225	37	182	1,793
April	696	396	1,092	118	41	42	111	221	40	183	1,807
May	696	392	1,088	122	41	48	127	222	39	179	1,817
June	696	376	1,072	122	40	55	142	225	37	178	1,818
July	696	367	1,063	126	39 39	60 65	153	223	38	176	1,818
August	696	363 ^R 371	1,059 R 1.067	129 ^R 129	R 41	65 ^R 68	168 ^R 172	217 R 219	35 ^R 36	172 ^R 168	1,821 R 1.832
September October	696 E 696	E 385	E 1.081	E 118	E 39	E 62	F 160	E 210	E 34	E 170	E 1.813
November	E 696	E 383	E 1,081	E 115	E 36	E 54	F 142	E 214	E 35	E 164	E 1,813
November	- 090	- 303	1,079	- 110	- 30	- 54	142	-214	- 33	- 104	1,700

lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, unfinished oils, waxes, miscellaneous products, oxygenates, renewable fuels, and other hydrocarbons. Through 1964, also includes kerosene-type jet fuel. Beginning in 1964, also includes finished aviation gasoline and special naphthas. Beginning in 2005, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. NA=Not available. ——=Not applicable. Notes: • Stocks are at end of period. • Totals may not equal sum of comprehence due to independent reunding. • Geographic converse is the 56 states.

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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

and CSV files) for all available affinual data beginning in 1945 and morning data beginning in 1973.
Sources: • 1949–1975: 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. • 1981–2012: EIA, Petroleum Supply Annual, annual reports. • 2013: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

a Includes lease condensate.
 b Liquefied petroleum gases.
 c "SPR" is the Strategic Petroleum Reserve, which began in October 1977.
 Crude oil stocks in the SPR include non-U.S. stocks held under foreign or commercial storage agreements.
 d All crude oil stocks other than those in "SPR."
 e Beginning in 1981, includes stocks of Alaskan crude oil in transit.
 f Excludes stocks in the Northeast Home Heating Oil Reserve. Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil

^{2009,} includes renewable dieser for includes kerosene-type jet fuel. (Through 1964, kerosene-type jet fuel is included with kerosene in "Other.") For 1952–2004, also includes naphtha-type jet fuel. (Through 1951, naphtha-type jet fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil. Beginning in 2005, naphtha-type jet fuel is included in "Other.").

I Includes propylene.
I Includes finished motor gasoline and motor gasoline blending components; excludes oxygenates. Through 1963, also includes aviation gasoline and special naphthas.

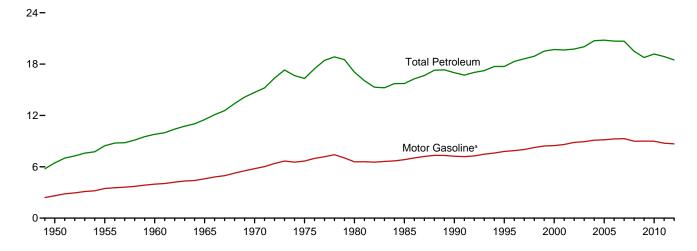
naphthas.

I Asphalt and road oil, aviation gasoline blending components, kerosene,

Figure 3.5 Petroleum Products Supplied by Type

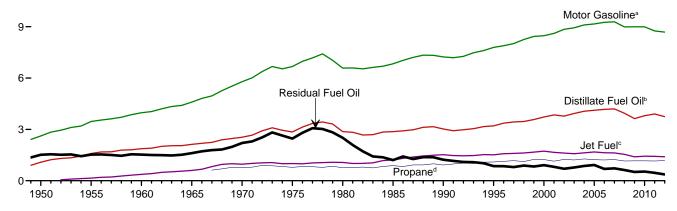
(Million Barrels per Day)

Total Petroleum and Motor Gasoline, 1949-2012



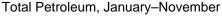
Selected Products, 1949-2012

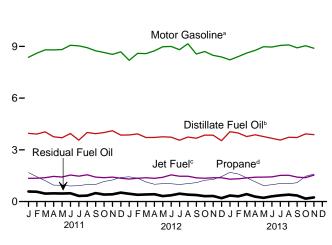
12-



24-

Selected Products, Monthly





¹⁸⁻18-12-6-2011 2012 2013

Note: SPR=Strategic Petroleum Reserve.

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

Source: Table 3.5.

12-

^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.

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

d Includes propylene.

Table 3.5 Petroleum Products Supplied by Type

	Asphalt	Audatian	Distillata	lat	Va.	LPC	3 a	Lubri-	Matau	Petro-	Desidual		
	and Road Oil	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Kero- sene	Propaned	Total	cants	Motor Gasoline ^e	leum Coke	Residual Fuel Oil	Otherf	Total
1950 Average	180	108	1,082	(°)	323	NA	234	106	2,616	41	1,517	250	6,458
1955 Average	254	192	1,592	154	320	NA	404	116	3,463	67	1,526	366	8,455
1960 Average	302	161	1,872	371	271	NA	621	117	3,969	149	1,529	435	9,797
1965 Average	368	120	2,126	602	267	NA	841	129	4,593	202	1,608	657	11,512
1970 Average	447	55	2,540	967	263	776	1,224	136	5,785	212	2,204	866	14,697
1975 Average	419 396	39	2,851 2.866	1,001	159 158	783 754	1,333 1.469	137 159	6,675 6,670	247 237	2,462 2.508	1,001 1,581	16,322
1980 Average	425	35 27	2,868	1,068 1,218	114	754 883	1,469	145	6,579 6,831	264	1,202	1,032	17,056 15,726
1985 Average 1990 Average	483	24	3,021	1,522	43	917	1,556	164	7,235	339	1,229	1,373	16,988
1995 Average	486	21	3,207	1,514	54	1,096	1,899	156	7,789	365	852	1,381	17,725
2000 Average	525	20	3,722	1,725	67	1,235	2,231	166	8,472	406	909	1,458	19,701
2001 Average	519	19	3,847	1,655	72	1,142	2,044	153	8,610	437	811	1,481	19,649
2002 Average	512	18	3,776	1,614	43	1,248	2,163	151	8,848	463	700	1,474	19,761
2003 Average	503	16	3,927	1,578	55	1,215	2,074	140	8,935	455	772	1,579	20,034
2004 Average	537	17	4,058	1,630	64	1,276	2,132	141	9,105	524	865	1,657	20,731
2005 Average	546	19	4,118	1,679	70	1,229	2,030	141	9,159	515	920	1,605	20,802
2006 Average	521	18	4,169	1,633	54	1,215	2,052	137	9,253	522	689	1,640	20,687
2007 Average	494	17	4,196	1,622	32	1,235	2,085	142	9,286	490	723	1,593	20,680
2008 Average	417	15	3,945	1,539	14	1,154	1,954	131 118	8,989	464 427	622 511	1,408	19,498
2009 Average 2010 Average	360 362	14 15	3,631 3,800	1,393 1,432	18 20	1,160 1,160	2,051 2,173	118	8,997 8,993	427 376	511 535	1,251 1,343	18,771 19,180
2010 Average						,							
2011 January	221	11	3,958	1,346	19	1,683	2,674	124	8,370	361	582	1,244	18,911
February	248	14	3,913	1,352	50	1,439	2,462	121	8,604	293	566	1,185	18,809
March	282	18	4,045	1,385	26	1,209	2,315	150	8,799	348	462	1,405	19,234
April	311	10	3,755	1,457	8	952 945	1,981	136	8,796	355	477	1,301	18,588
May	357 454	18 17	3,699 3,947	1,424 1,540	(s) 4	945 905	2,018 1,956	122 125	8,817 9,067	414 379	468 479	1,082 1,213	18,420 19,182
June July	465	19	3,564	1,473	9	921	1,967	119	9,031	368	329	1,363	18,705
August	545	18	4,009	1,554	5	990	2,036	137	8,925	461	347	1,311	19,349
September	462	13	3,936	1,416	8	989	2,006	125	8,744	349	491	1,299	18,848
October	423	16	4.003	1,384	2	1,162	2,179	102	8.649	395	405	1,239	18,796
November	297	12	4,109	1,416	6	1,250	2,331	124	8.537	377	419	1,391	19.019
December	187	10	3,853	1,353	12	1,399	2,534	111	8,683	229	519	1,228	18,721
Average	355	15	3,899	1,425	12	1,153	2,204	125	8,753	361	461	1,272	18,882
2012 January	201	12	3,861	1,308	6	1,436	2,497	121	8,190	403	452	1,253	18,304
February	220	11	3,923	1,351	27	1,358	2,439	139	8,598	304	393	1,238	18,643
March	234	14	3,715	1,381	7	1,134	2,232	110	8,582	317	412	1,160	18,164
April	327	14	3,719	1,350	2	1,005	2,098	125	8,741	345	423	1,067	18,211
May	383	17	3,756	1,409	8 2	1,037	2,086	122	8,979	385	317	1,128	18,589
June	455 464	13 20	3,732 3,557	1,546 1,468		1,033 990	2,037 2,058	108 107	8,996	385 345	364 458	1,219 1,228	18,857
July	497	13	3,557	1,400	(s) (s)	1.043	2,036	110	8,810 9.154	411	401	1,220	18,515 19.156
August September	445	15	3,674	1,378	(5)	1,043	2,130	106	8,561	374	376	1,010	18,092
October	374	14	3,852	1,353	3	1,239	2,344	112	8,701	309	311	1,331	18,705
November	282	10	3,848	1,381	3	1,277	2,390	121	8,483	378	323	1,309	18,528
December	201	9	3,529	1,381	2	1,452	2,548	92	8,389	366	196	1,408	18,120
Average	340	14	3,741	1,398	5	1,175	2,251	114	8,682	360	369	1,215	18,490
2013 January	223	11	4,055	1,297	9	1,693	2,767	127	8,218	369	350	1,220	18,646
February	212	8	3,975	1,320	7	1,597	2,753	125	8,412	281	304	1,259	18,659
March	237	12	3,772	1,369	15	1,376	2,498	126	8,616	306	431	1,095	18,476
April	295	12	3,871	1,414	5	1,148	2,245	110	8,766	293	284	1,259	18,553
May	294	15	3,772	1,416	2	924	2,038	129	8,983	360	215	1,327	18,551
June	410	15	3,667	1,431	2	979	2,025	141	8,965	402	303	1,362	18,724
July	451	16	3,568	1,519	1	1,052	2,222	118	9,056	357	362	1,376	19,046
August	464 R 466	14 ^R 11	3,727 R 3,713	1,525 R 1,419	3	1,036 R 1,093	2,144 R 2,217	118 R 125	9,088 R 8,918	415 R 393	403 R 349	1,191 R 1,502	19,091 R 19,116
September	F 359	F 12	E 3,922	E 1,386	4 RF 9	E 1,468	RF 2,435	RF 121	E 9.035	F 327	E 169	RE 1,594	E 19,370
October November	F 252	F 9	E 3,883	E 1,535	F 28	E 1,594	F 2,517	F 107	E 8,895	F 377	E 239	E 2,142	E 19,984
11-Month Average	E 334	E 12	E 3,810	E 1,422	E 8	E 1,267	E 2,348	E 122	E 8,816	E 353	E 310	E 1,393	E 18,929
2012 11-Month Average 2011 11-Month Average	353 370	14 15	3,761 3,903	1,400 1,432	6 12	1,149 1,130	2,224 2,174	116 126	8,709 8,759	360 373	385 456	1,197 1,276	18,524 18,897

barrels per day and greater than -500 barrels per day.

Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tabless 3.7a-3.8c. See Note 1, "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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • 1949–1975: 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. • 1981–2012: EIA, Petroleum Supply Annual, annual reports, and unpublished revisions. • 2013: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Expressions System and Monthly, Engage, Review data. Short-Term Integrated Forecasting System, and *Monthly Energy Review* data system calculations.

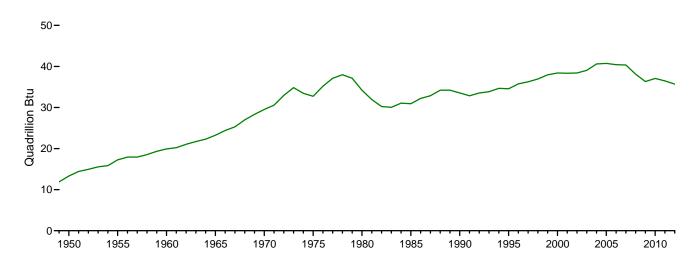
a Liquefied petroleum gases.
b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
c Beginning in 1957, includes kerosene-type jet fuel. For 1952–2004, also includes naphtha-type jet fuel. (Through 1951, naphtha-type jet fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil. Beginning in 2005, naphtha-type jet fuel is included in "Other.").
d Includes propylene.
e Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
Pentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1964, also includes special naphthas. 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.

includes naphtha-type jet fuel.

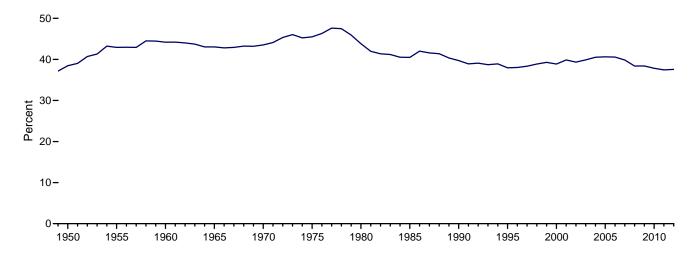
R=Revised. E=Estimate. F=Forecast. NA=Not available. (s)=Less than 500

Figure 3.6 Heat Content of Petroleum Products Supplied by Type

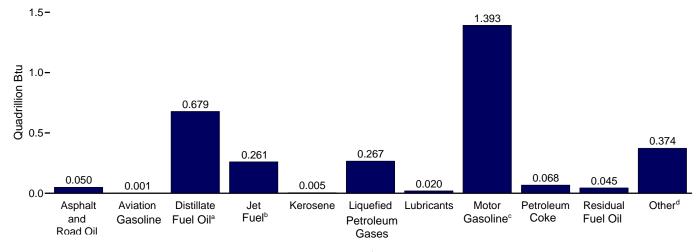
Total, 1949-2012



Petroleum Products Supplied as Share of Total Energy Consumption, 1949–2012



By Product, November 2013



^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 separately displayed. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 1.1 and 3.6.

Table 3.6 Heat Content of Petroleum Products Supplied by Type

(Trillion Btu)

	Asphalt and	Aviation	Distillate	Jet	Kero-	LPG	a	Lubri-	Motor	Petro- leum	Residual		
	Road Oil	Gasoline	Fuel Oilb	Fuelc	sene	Propaned	Total	cants	Gasolinee	Coke	Fuel Oil	Other ^f	Total
1950 Total	435	199	2,300	(°)	668	NA	343	236	5,015	90	3,482	546	13,315
1955 Total	615	354	3,385	301	662	NA	592	258	6,640	147	3,502	798	17,255
1960 Total	734	298	3,992	739	563	NA	912	259	7,631	328	3,517	947	19,919
1965 Total	890	222	4,519	1,215	553	NA	1,232	286	8,806	444	3,691	1,390	23,246
1970 Total	1,082	100	5,401	1,973	544	1,086	1,689	301	11,091	465	5,057	1,817	29,521
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 36	6,818	3,132	112 140	1,534	2,512	346 369	14,825 16.155	802 895	1,955	2,837	34,556
2000 Total	1,276 1,257	36 35	7,935 8,179	3,580	150	1,734	2,945	338	16,155	961	2,091	2,979	38,402
2001 Total	1,237	35 34	8,028	3,426 3,340	90	1,598 1,747	2,697 2,852	334	16,819	1,018	1,861 1,605	3,056 3,040	38,333 38,400
2002 Total 2003 Total	1,240	30	8,349	3,265	113	1,747	2,748	309	16,981	1,000	1,772	3,264	39,051
2004 Total	1,304	31	8,652	3,383	133	1,701	2,746	313	17,379	1,156	1,772	3,428	40,593
2005 Total	1,304	35	8.755	3,475	144	1,721	2,624	312	17,444	1,133	2,111	3,318	40,732
2006 Total	1,261	33	8,864	3,379	111	1,701	2,700	303	17,622	1,148	1,581	3,416	40,420
2007 Total	1,197	32	8,921	3,358	67	1,729	2,733	313	17,689	1,077	1,659	3,313	40,358
2008 Total	1,012	28	8,411	3,193	30	1,620	2,574	291	17,168	1,022	1,432	2,941	38,101
2009 Total	873	27	7,720	2,883	36	1,624	2.664	262	17,135	938	1,173	2,611	36,321
2010 Total	878	27	8,080	2,963	41	1,624	2,821	291	17,127	826	1,228	2,800	37,082
2011 January	45	2	715	237	3	200	294	23	1,354	67	113	227	3,081
February	46	2	638	215	8	155	247	20	1,257	49	100	190	2,772
March	58	3	730	243	5	144	253	28	1,423	65	90	250	3,149
April	62	2	656	248	. 1	110	209	25	1,377	64	90	224	2,958
May	73	3	668	250	(s)	112	219	23	1,426	77	91	194	3,025
June	90	3	690	262	1	104	206	23	1,419	68	90	209	3,061
July	96	3	644	259	2	110	213	22	1,461	69	64	245	3,077
August	112	3	724	273	1	118	223	26	1,444	86	68	234	3,193
September	92	2	688	241	(-)	114	211	23	1,369	63	93	224	3,006
October	87	2 2	723	243	(s)	138	239	19	1,399	74	79 70	220	3,086
November	59 38	2	718 696	241 238	1 2	144 166	247 279	23 21	1,336 1,405	68 43	79 101	239 220	3,013 3,044
Total	859	27	8,289	2,9 50	25	1,614	2,839	276	16,670	794	1,058	2,676	36,464
2012 January	41	2	697	230	1	171	274	23	1,325	75	88	221	2,978
February	42	2	663	222	4	151	252	24	1,301	53	72	208	2,843
March	48	2	671	243	1	135	245	21	1,388	59	80	208	2,967
April	65	2	650	230	(s)	116	222	23	1,369	62	80	184	2,886
May	79	3	678	248	1	123	228	23	1,453	72	62	200	3,046
June	91	2	652	263	(s)	119	214	20	1,408	70	69	212	3,000
July	95	3	642	258	(s)	118	223	20	1,425	64	89	219	3,040
August	102	2	676	258	(s)	124	233	21	1,481	77	78	217	3,145
September	89	2	642	234	1	126	227	19	1,340	68	71	176	2,869
October	77	2	696	238	1	147	258	21	1,408	58	61	236	3,054
November	56	2	672	235	1	147	255	22	1,328	68	61	226	2,926
December	41	1	637	243	(s)	173	282	17	1,357	68	38	252	2,937
Total	827	25	7,977	2,901	11	1,649	2,912	254	16,584	794	849	2,558	35,691
2013 January	46 39	2 1	732 648	228 210	2	201 171	308 277	24 21	1,330 1,229	69 47	68 53	218 204	3,025 2,732
	49	2	681	241	3	164	278	24	1,394	57	84	195	3,006
March	49 59	2	676	241	3 1	132	240	20	1,394	57 53	54 54	217	2,934
April May	61	2	681	241	(s)	110	240	20	1,372	67	42	236	3,039
June	82	2	641	249	(s)	113	214	26	1,404	73	57	233	2,975
July	93	3	644	243	(s)	125	244	22	1,465	67	71	249	3,125
August	95 95	2	673	268	(s)	123	235	22	1,403	78	71	213	3,125
September	R 93	2	R 649	R 241	1	R 126	R 233	R 23	R 1,396	R 71	R 66	R 257	R 3,032
October	F 74	F 2	E 708	E 244	RF 2	E 175	RF 267	RF 23	E 1,462	F 61	E 33	RE 292	E 3,167
November	F 50	F1	E 679	E 261	F 5	E 183	F 267	F 20	E 1,393	F 68	E 45	E 374	E 3,162
11-Month Total	E 740	E 21	E 7,413	E 2,692	E 14	E 1,623	E 2,784	E 248	E 15,368	E 711	E 651	E 2,690	E 33,333
2012 11-Month Total 2011 11-Month Total	785 821	24 25	7,339 7,594	2,659 2,712	11 23	1,477 1,447	2,630 2,560	236 255	15,227 15,266	726 751	810 957	2,307 2,456	32,754 33,421

a Liquefied petroleum gases.

Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also

Degining in 1933, also includes route on burned as role. Degining in 2003, also includes naphtha-type jet fuel.

R=Revised. E=Estimate. F=Forecast. NA=Not available. (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 1, "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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: See end of section.

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

^c Beginning in 1957, includes kerosene-type jet fuel. For 1952–2004, also includes naphtha-type jet fuel. (Through 1951, naphtha-type jet fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil. Beginning in 2005, naphtha-type jet fuel is included in "Other.").
^d Includes propylene.

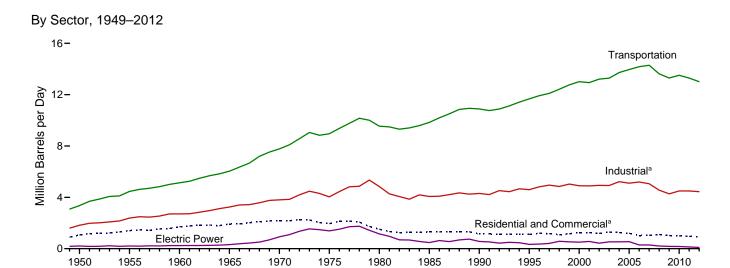
d Includes propylene.

Finished motor gasoline. Through 1963, also includes special naphthas.

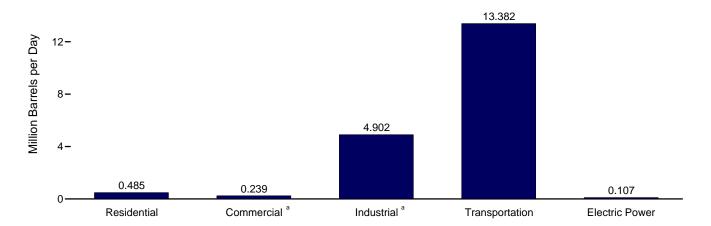
Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

Thentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1964, also includes special naphthas. 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.

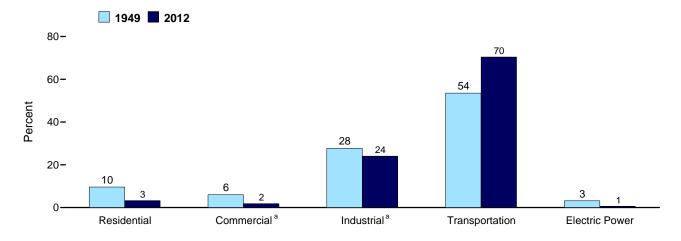
Figure 3.7 Petroleum Consumption by Sector



By Sector, September 2013



Sector Shares, 1949 and 2012



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

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

		Resident	tial 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		
1950 Average	390	168	104	662	123	23	28	52	NA	185	411		
1955 Average	562	179	144	885	177	24	38	69	NA	209	519		
1960 Average	736	171	217	1,123	232	23	58	35	NA	243	590		
1965 Average	805	161	275	1,242	251	26	74	40	NA	281	672		
1970 Average	883	144	392	1,419	276	30	102	45	NA	311	764		
1975 Average	850	78	365	1,293	276	24	92	46	NA	214	653		
1980 Average	617 514	51 77	222 224	890 815	243 297	20 16	63 68	56 50	NA NA	245 99	626 530		
1985 Average1990 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		
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	438	34	389	861	233	9	112	32	(s)	48	434		
2004 Average	433	41	364	839	221	10	108	23	(s)	53	416		
2005 Average	402 335	40 32	366 318	809 685	210 189	10 7	94 88	24 26	(s)	50 33	389 343		
2006 Average2007 Average	335 342	32 21	345	708	181	4	87	32	(s) (s)	33	343		
2008 Average	354	10	394	758	181	2	113	24	(s)	31	351		
2009 Average	276	13	391	680	188	2	99	28	(s)	31	348		
2010 Average	266	14	379	659	184	2	100	28	(s)	27	342		
2011 January	351	14	426	790	278	2	123	23	(s)	33	460		
February	368	36	392	796	292	6	113	23	(s)	35	470		
March	251	19	369	639	199	3	107	24	(s)	24	357		
April	173	6	315	495	137	1	91	24	0	16	270		
May	114 177	(s) 3	321 311	435 491	90 140	(s) 1	93 90	24 25	0 0	11 17	218 272		
June July	158	7	313	478	125	1	91	25	0	15	257		
August	216	4	324	544	172	i	94	24	ŏ	20	311		
September	237	6	319	562	188	1	92	24	0	22	327		
October	257	1	347	605	204	(s)	100	24	0	24	352		
November	295	4	371	670	234	1	107	23	(s)	28	393		
December	380	9	403	792	302	2	117	24	(s)	36	480		
Average	247	9	351	607	196	2	102	24	(s)	23	347		
2012 January	395	4	397	797	314	1	115	22	(s)	29	481		
February March	332 270	20 5	388 355	740 630	264 214	3 1	112 103	23 23	(s) (s)	24 20	427 361		
April	197	1	334	533	157	(s)	97	24	(s)	14	292		
May	196	6	332	534	155	1	96	24	0	14	291		
June	203	1	324	528	161	(s)	94	24	0	15	294		
July	189	(s)	328	517	150	(s)	95	24	(s)	14	283		
August	238	(s)	340	578	189	(s)	98	25	(s)	17	329		
September	191	3	342	537	152	1	99	23	(s)	14	289		
October November	170 224	2 2	373 380	545 606	135 178	(s) (s)	108 110	24 23	(s) (s)	12 16	279 328		
December	248	2	406	656	197	(s)	117	23	(s)	18	356		
Average	238	4	358	600	189	1	104	24	(s)	17	334		
2013 January	315	7	441	763	250	1	127	22	(s)	23	425		
February	324	5	438	767	266	1	127	23	(s)	24	441		
March	254	11	398	662	201	2	115	23	(s)	19	361		
April	197	3	357	558	156	1	103	24	(s)	14	298		
May	124 91	2 2	324 322	450 415	99 72	(s)	94 93	24 24	0 0	9 7	226 197		
June July	91 89	1	322 354	415 443	72	(s) (s)	102	24 25	(s)	6	197 204		
August	115	2	341	443 458	91	(s)	99	25 25	(s)	8	204		
September	129	3	353	485	103	(s)	102	24	(s)	9	239		
9-Month Average	181	4	369	554	144	1	107	24	(s)	13	289		
2012 9-Month Average	246	4	349	599	195	1	101	24	(s)	18	338		

including a Commercial commercial sector fuel use. that

Corrimercial sector tuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants.
 Finished motor gasoline. Through 1963, also includes special naphthas.
 Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
 NA=Not available. (s)=Less than 500 barrels per day and greater than -500 barrels per day.

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

[&]quot;petroleum consumption" in Tables 3.7a–3.8c. See Note 1, "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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: See end of section.

Table 3.7b Petroleum Consumption: Industrial Sector

					Industria	al Sector ^a				
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total
1950 Average	180	328	132	100	43	131	41	617	250	1,822
1955 Average	254	466	116	212	47	173	67	686	366	2,387
1960 Average	302	476	78	333	48	198	149	689	435	2,708
1965 Average	368	541	80	470	62	179	202	689	657	3,247
1970 Average	447	577	89	699	70	150	203	708	866	3,808
1975 Average	419	630	58	844	68	116	246	658	1,001	4,038
1980 Average	396	621	87	1,172	82	82	234	586	1,581	4,842
1985 Average	425	526	21	1,285	75	114	261	326	1,032	4,065
1990 Average	483	541	6	1,215	84	97	325	179	1,373	4,304
1995 Average	486	532	7	1,527	80	105	328	147	1,381	4,594
2000 Average	525	563	8	1,720	86	79	361	105	1,458	4,903
2001 Average	519	611	11	1,557	79	155	390	89	1,481	4,892
2002 Average	512	566	7	1,668	78	163	383	83	1,474	4,934
2003 Average	503	551	12	1,560	72	171	375	96	1,579	4,918
2004 Average	537	570	14	1,646	73	195	423	108	1,657	5,222
2005 Average	546	594 504	19	1,549	72	187	404	123	1,605	5,100 5,100
2006 Average	521	594	14	1,627	71 72	198	425	104	1,640	5,193
2007 Average	494 417	595 637	6 2	1,637 1,419	73 67	161 131	412 394	84 84	1,593 1.408	5,056 4,559
2008 Average 2009 Average	360	508	2	1,541	61	128	363	57	1,400	4,339
2010 Average	362	547	4	1,673	68	140	310	52	1,343	4,500
2011 January	221	711	3	2.097	64	131	275	76	1,244	4.822
February	248	601	7	1,931	62	135	218	74	1,185	4,461
March	282	751	4	1,816	77	138	266	60	1,405	4,797
April	311	568	1	1,554	70	138	302	61	1,301	4,305
May	357	557	(s)	1,582	63	138	359	60	1,082	4,199
June	454	580	1	1,533	64	142	309	61	1,213	4,358
July	465	344	1	1,542	61	142	287	39	1,363	4,244
August	545	546	1	1,596	70	140	388	42	1,311	4,640
September	462	570	,1	1,573	64	137	276	63	1,299	4,445
October	423	599	(s)	1,708	53	136	343	52	1,239	4,553
November	297	704 487	1 2	1,828 1,987	64 57	134 136	336	53	1,391	4,807
December Average	187 355	584	2	1,967 1,728	64	137	173 295	66 59	1,228 1,272	4,324 4,497
2012 January	201	660	1	1,958	62	129	R 338	58	1,253	R 4,658
February	220	746	4	1,913	71	135	250	R 50	1,238	R 4,627
March	234	R 585	1	1,750	57	135	R 288	^R 54	1,160	^R 4,263
April	327	^R 580	(s)	1,645	64	137	R 317	^R 56	1,067	R 4,193
May	383	560	1	1,635	63	141	^R 351	_ 41	1,128	4,303
June	455	_ 481	(s)	1,597	55	141	R 347	R 44	1,219	R 4,340
July	464	R 368	(s)	1,614	55	138	R 304	57	1,228	R 4,227
August	497	R 422	(s)	1,675	56	144	R 368	51	1,221	R 4,433
September	445	518	1	1,685	55	134	R 332	49	1,010	R 4,228
October	374	R 658	(s)	1,838	58	137	R 272	R 41	1,331	R 4,710
November	282	675 ^R 486	(s)	1,874	62 47	133	R 338	41	1,309	^R 4,715 ^R 4.622
December Average	201 340	561	(s) 1	1,998 1,765	59	132 136	327 R 319	23 47	1,408 1,215	R 4,443
2013 January	223	861	1	2,170	65	129	315	42	1,220	5,027
February	212	737	i	2,159	64	132	229	38	1,259	4,831
March	237	637	2	1,959	65	135	255	56	1,095	4,440
April	295	674	1	1,760	56	138	245	36	1,259	4,464
May	294	649	(s)	1,598	67	141	293	27	1,327	4,397
June	410	567	(s)	1,588	72	141	333	39	1,362	4,513
July	451	483	(s)	1,742	61	142	289	45	1,376	4,590
August	464	548	(s)	1,681	61	143	345	53	1,191	4,484
September	466	609	1	1,738	64	140	338	45	1,502	4,902
9-Month Average	340	640	1	1,819	64	138	294	42	1,287	4,625
2012 9-Month Average 2011 9-Month Average	359 373	546 581	1 2	1,718 1,690	60 66	137 138	322 299	51 59	1,170 1,268	4,363 4,476

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

b Finished motor gasoline. Through 1963, also includes special naphthas.
Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

c Pentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscollapsous products. Reginning in 1964, also includes special naphthas

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 1, "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 (Excel

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Sources: See end of section.

miscellaneous products. Beginning in 1964, also includes special naphthas. 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. 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 3.7c Petroleum Consumption: Transportation and Electric Power Sectors

				Transportat	ion Sector	r			E	Electric 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
1950 Average	108	226	(°)	2	64	2,433	524	3,356	15	NA	192	207
1955 Average	192	372	154	9	70	3,221	440	4,458	15	NA	191	206
1960 Average	161	418	371	13	68	3,736	367	5,135	10	NA	231	241
1965 Average	120	514	602	23	67	4,374	336	6,036	14	NA	302	316
1970 Average	55	738	967	32	66	5,589	332	7,778	66	9	853	928
1975 Average	39	998	992	31	70	6,512	310	8,951	107	1	1,280	1,388
1980 Average	35	1,311	1,062	13	77	6,441	608	9,546	79	2	1,069	1,151
1985 Average	27	1,491	1,218	21	71	6,667	342	9,838	40	3	435	478
1990 Average	24	1,722	1,522	16	80	7,080	443	10,888	45	14	507	566
1995 Average	21	1,973	1,514	13	76	7,674	397	11,668	51	37	247	334
2000 Average	20	2,422	1,725	8	81	8,370	386	13,012	82	45	378	505
2001 Average 2002 Average 2003 Average	19 18 16	2,489 2,536 2,629	1,655 1,614 1,578	10 10 13 14	74 73 68	8,435 8,662 8,733	255 295 249	12,938 13,208 13,286	80 60 76 52	47 80 79	437 287 379	564 427 534
2004 Average 2005 Average 2006 Average 2007 Average	17 19 18 17	2,783 2,858 3,017 3,037	1,630 1,679 1,633 1,622	20 20 16	69 68 67 69	8,887 8,948 9,029 9,093	321 365 395 433	13,720 13,957 14,178 14,287	54 35 42	101 111 97 78	382 382 157 173	535 547 289 293
2008 Average	15	2,738	1,539	29	64	8,834	402	13,621	34	70	104	209
2009 Average	14	2,626	1,393	20	57	8,841	344	13,296	33	63	79	175
2010 Average	15	2,765	1,432	21	64	8,824	389	13,509	38	65	67	170
2011 January	11	2,575	1,346	29	60	8,216	417	12,655	43	85	56	184
February	14	2,620	1,352	26	59	8,446	421	12,938	33	75	37	144
March	18	2,816	1,385	25	73	8,637	342	13,294	29	82	37	147
April	10	2,844	1,457	21	66	8,634	354	13,386	33	54	46	133
	18	2,907	1,424	22	59	8,655	355	13,439	31	55	41	128
	17	3,019	1,540	21	61	8,900	358	13,915	32	70	43	145
	19	2,901	1,473	21	58	8,865	223	13,558	36	81	52	169
August September October	18	3,048	1,554	22	67	8,761	240	13,711	26	73	44	143
	13	2,918	1,416	21	61	8,583	372	13,383	24	73	33	130
	16	2,921	1,384	23	50	8,489	297	13,180	24	52	32	107
	12	2,852	1,416	25	60	8,380	306	13,051	25	40	32	97
November December Average	10 15	2,656 2,841	1,353 1,425	25 27 24	54 61	8,523 8,592	386 338	13,010 13,295	28 30	56 66	31 41	116 137
2012 January February March April	12	R 2,465	1,308	27	59	8,040	R 331	R 12,242	R 27	R 65	34	R 126
	11	R 2,558	1,351	26	67	8,439	291	12,743	23	55	27	105
	14	2,626	1,381	24	54	8,424	310	R 12,832	R 20	R 29	29	R 77
	14	R 2,762	1,350	22	61	8,580	R 325	R 13,114	R 23	R 28	28	R 79
May	17	R 2,817	1,409	22	59	8,814	233	R 13,371	R 28	R 34	^R 28	91
June	13	2,859	1,546	22	52	8,830	R 260	R 13,583	29	R 38	45	R 112
July	20	R 2,819	1,468	22	52	8,648	R 335	R 13,365	R 30	R 41	^R 52	R 123
August	13	2,871	1,470	23	53	8,985	R 295	13,711	R 24	R 43	^R 38	R 105
September	15	R 2,792	1,378	23	52	8,403	284	R 12,946	R 21	R 42	R 29	R 92
October	14	2,867	1,353	25	55	8,541	227	13,081	R 22	R 37	R 31	R 90
November	10	2,747	1,381	25	59	8,326	R 237	R 12,786	24	R 40	28	R 92
December	9	R 2,571	1,381	27	45	8,234	126	R 12,393	R 27	38	28	R 93
Average 2013 January	14 11	2,730 2,595	1,398 1,297	24 30	56 62	8,522 8,067	271 234	13,014 12,296	25 32	^R 41 54	^R 33 50	R 99
February	8	2,626	1,320	29	61	8,257	206	12,507	23	52	37	112
March	12	2,659	1,369	27	61	8,457	329	12,913	21	51	28	100
April	12	2,822	1,414	24	53	8,604	204	13,134	22	48	29	100
May	15	2,873	1,416	22	63	8,817	151	13,357	26	66	28	120
June	15	2,915	1,431	22	68	8,800	225	13,476	22	69	32	123
	16	2,893	1,519	24	57	8,889	262	13,660	33	68	49	149
	14	2,951	1,525	23	57	8,921	309	13,800	22	70	33	126
	11	2,850	1,419	24	61	8,754	265	13,382	22	55	30	107
9-Month Average 2012 9-Month Average 2011 9-Month Average	13	2,799	1,413	25	60	8,621	243	13,175	25	59	35	119
	14	2,730	1,407	23	56	8,574	296	13,102	25	41	35	101
	15	2,851	1,439	23	63	8,634	341	13,367	32	72	44	147

^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

R=Revised. NA=Not available.

Notes: • Transportation sector data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. See Note 1, "Petroleum Products Supplied and Petroleum Consumption," at end of section.

beginning in 1973. Sources: See end of section.

are for electric utilities and independent power producers.

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

⁶ Beginning in 1957, includes kerosene-type jet fuel. For 1952–2004, also includes naphtha-type jet fuel. (Through 1951, naphtha-type jet fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil.

Beginning in 2005, naphtha-type jet fuel is included in "Other" on Table 3.7b.)

Finished motor gasoline. Through 1963, also includes special naphthas.

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

^e Fuel oil nos. 1, 2, and 4. Through 1979, data are for gas turbine and internal combustion plant use of petroleum. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.

f Fuel oil nos. 5 and 6. Through 1979, data are for steam plant use of petroleum. Through 2000, electric utility data also include a small amount of fuel oil

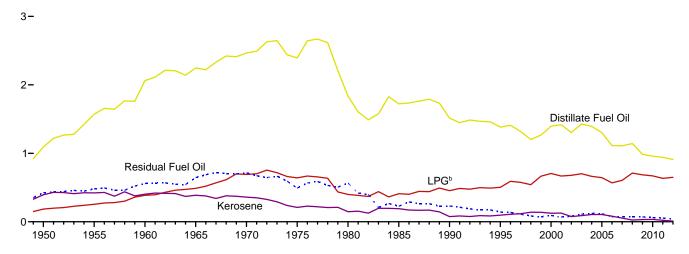
Totals may not equal sum of components due to independent rounding.

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

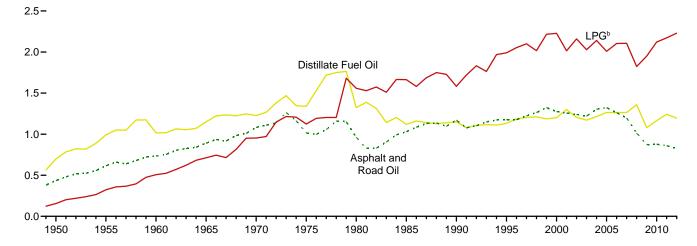
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

Figure 3.8a Heat Content of Petroleum Consumption by End-Use Sector, 1949–2012 (Quadrillion Btu)

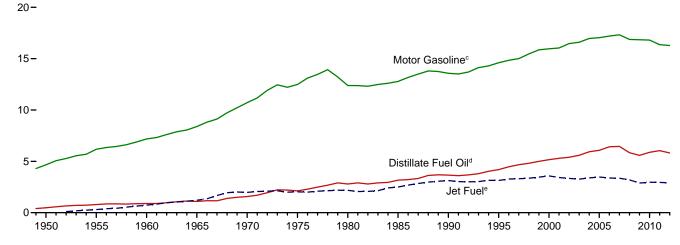
Residential and Commercial^a Sectors, Selected Products



Industrial^a Sector, Selected Products



Transportation Sector, Selected Products



 $[\]ensuremath{^{\mathrm{a}}}$ Includes combined-heat-and-power plants and a small number of electricity-only plants.

b Liquefied petroleum gases.

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

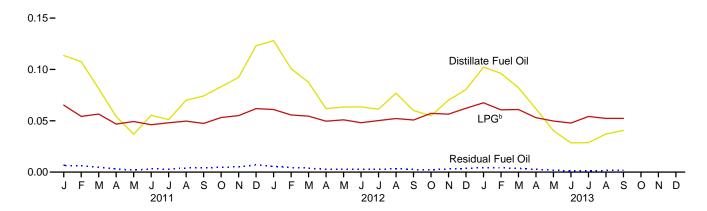
^dBeginning in 2009, includes renewable diesel fuel (including biodie-

sel) blended into distillate fuel oil.

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

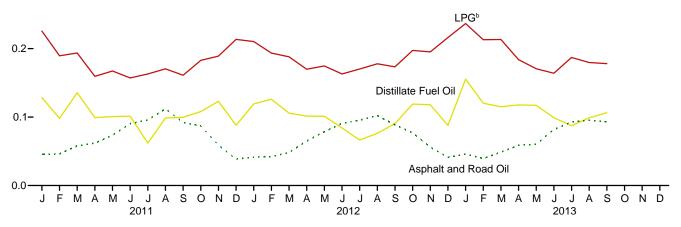
Figure 3.8b Heat Content of Petroleum Consumption by End-Use Sector, Monthly (Quadrillion Btu)

Residential and Commercial^a Sectors, Selected Products 0.20-



Industrial^a Sector, Selected Products

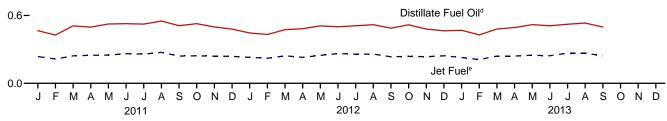
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Transportation Sector, Selected Products







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

distillate fuel oil.

^e Includes kerosene-type jet fuel only.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.8a–3.8c.

^b Liquefied petroleum gases.

[°] Includes fuel ethanol blended into motor gasoline.

 $^{^{\}rm d}$ Includes renewable diesel fuel (including biodiesel) blended into

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

			Resident	ial Sector				Con	nmercial Sec	ctora		
		Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Total
1050 T	otal	829	347	146	1,322	262	47	39	100	NA	424	872
	otal	1.194	371	202	1,767	377	51	54	133	NA NA	480	1.095
	otal	1,568	354	305	2,227	494	48	81	67	NA NA	559	1,248
1965 To	otal	1,713	334	385	2,432	534	54	103	77	NA NA	645	1,413
1970 To	otal	1,878	298	549	2,725	587	61	143	86	NA NA	714	1,592
	otal	1,807	161	512	2,479	587	49	129	89	NA NA	492	1,346
	otal	1,316	107	311	1,734	518	41	88	107	NA NA	565	1,318
	otal	1.092	159	314	1,565	631	33	95	96	NA NA	228	1.083
	otal	978	64	352	1,394	536	12	102	111		230	991
1995 To	otal	905	74	395	1,374	479	22	109	18	(s)	141	769
2000 To	otal	905	95	555	1,554	491	30	150	45	(s)	92	807
	otal	908	95	526	1,529	508	31	143	37	(s)	70	790
	otal	860	60	537	1,457	444	16	141	45	(s)	80	726
	otal	932	70	544	1,547	496	19	157	60	(s)	111	843
2003 TC	otal	924	85	512	1,520	470	20	152	45	(s)	122	810
2004 TC	Mai	854	84	513	1,451	447	22	131	46	(s) (s)	116	762
	otal	712	66	446	1,224	401	15	123	49		75	664
	otal									(s)		
	otal	726	44	484	1,254	384	9	121	61	(s)	75 74	651
2000 7	otal	756 587	21 28	553 547	1,330 1,161	387 399	4 4	158 139	46 53	(s)	71 71	666 667
2009 To	otalotal	566	28 29	547 530	1,161	399	5	140	53 53	(s) (s)	62	652
201010	, , , , , , , , , , , , , , , , , , ,	000			1,120	552	·	140	•	(5)		002
2011 Ja	nuary	63	2	51	116	50	(s)	15	4	(s)	6	76
	ebruary	60	6	42	108	48	1	12	3	(s)	6	70
Ma	arch	45	3	44	93	36	1	13	4	(s)	5	58
Ar	oril	30	1	36	68	24	(s)	11	4	0	3	41
Ma	ay	21	(s)	38	59	16	(s)	11	4	0	2	33
Jυ	ine	31	1	36	67	25	(s)	10	4	0	3	42
Jυ	ıly	29	1	37	67	23	(s)	11	4	0	3	41
Αι	gust	39	1	39	78	31	(s)	11	4	0	4	50
Se	eptember	41	1	37	79	33	(s)	11	4	0	4	52
Or	ctober	46	(s)	41	88	37	(s)	12	4	0	5	57
	ovember	51	1	43	95	41	(s)	12	4	(s)	5	62
De	ecember	69	2	48	118	54	(s)	14	4	(s)	7	79
To	otal	526	19	491	1,036	417	3	142	45	(s)	54	662
2012 la	nuary	71	1	47	119	57	(s)	14	4	(s)	6	80
	ebruary	56	3	43	103	45	(3)	12	4	(s)	4	66
	arch	49	1	42	92	39	(s)	12	4	(s)	4	59
	oril	34	(s)	38	73	27	(s)	11	4	(s)	3	45
	ay	35	1	39	76	28	(s)	11	4	0	3	46
	ine	35	(s)	37	73	28	(s)	11	4	0	3	46
	ıly	34	(s)	39	73	27	(s)	11	4	(s)	3	45
	ugust	43	(s)	40	83	34	(s)	12	4	(s)	3	53
	eptember	33	(3)	39	73	27	(s)	11	4	(s)	3	44
	ctober	31	(s)	44	75 75	24	(s)	13	4	(s)	2	44
NIV O(ovember	39	(s)	44	83	31	(s)	13	4	(s)	3	50
D.	ecember	45	(s)	48	93	36	(s)	14	4	(s)	4	57
	otal	507	8	503	1,018	402	1	146	45	(s)	40	634
										• •		
	nuary	57	1	52	111	45	(s)	15	4	(s)	4	69
	ebruary	53	1	47	101	43	(s)	14	3	(s)	4	65
	arch	46	2	47	95	36	(s)	14	4	(s)	4	58
	oril	34	1	41	76	27	(s)	12	4	(s)	3	46
	ay	22	(s)	39	61	18	(s)	11	4	0	2	35
	ine	16	(s)	37	53	13	(s)	11	4	0	1	28
	ıly	16	(s)	42	58	13	(s)	12	4	(s)	1	30
Δı	ugust	21	(s)	41	62	16	(s)	12	4	(s)	2	34
,	eptember	23	(s)	41	64	18	(s)	12	4	(s)	2	35
Se			. ,									
Se	Month Total	288	6	387	680	230	1	112	34	(s)	23	400
Se 9-	Month Total	288 392	`6 7	387 367	680 766	230 311	1	112 106	34 34	(s) (s)	23 31	400 484

including sector fuel use, that commercial

and is synonymous with the term "petroleum consumption" in Tables 3.7a-3.8c. See Note 1, "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.

Sources: See end of section.

combined-heat-and-power (CHP) and commercial electricity-only plants.

^b Finished motor gasoline. Through 1963, also includes special naphthas.

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

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

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

Table 3.8b Heat Content of Petroleum Consumption: Industrial Sector (Trillion Btu)

					Industri	al Sector ^a				
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total
1950 Total	435	698	274	156	94	251	90	1,416	546	3.960
1955 Total	615	991	241	323	103	332	147	1,573	798	5,123
1960 Total	734	1.016	161	507	107	381	328	1,584	947	5,766
1965 Total	890	1,150	165	712	137	342	444	1,582	1,390	6,813
1970 Total	1,082	1,226	185	953	155	288	446	1,624	1,817	7,776
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
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	1,171	24	2,028	159	324	825	220	3,264	9,235
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	1,359	4	1,823	150	250	868	194	2,941	8,600
2009 Total	873	1,081	4	1,950	135	244	799	130	2,611	7,826
2010 Total	878	1,163	7	2,121	149	267	682	120	2,800	8,188
2011 January	45	128	(s)	226	12	21	51	15	227	726
February	46	98	` 1	190	11	20	37	13	190	605
March	58	136	1	194	14	22	50	12	250	736
April	62	99	(s)	159	13	22	55	12	224	646
May	73	101	(s)	167	12	22	67	12	194	648
June	90	101	(s)	157	12	22	56	12	209	659
July	96	62	(s)	163	11	23	54	8	245	661
August	112	99	(s)	170	13	23	73	8	234	732
September	92	100	(s)	161	12	21	50	12	224	672
October	87	108	(s)	183	10	22	64	10	220	704
November	59	123	(s)	189	12	21	61	10	239	714
December	38	88	(s)	213	11	22	32	13	220	638
Total	859	1,242	4	2,173	142	262	648	135	2,676	8,141
2012 January	41	119	(s)	210	12	21	63	11	221	699
February	42	126	. 1	193	13	20	44	9	208	656
March	48	106	(s)	188	11	22	R 54	10	208	647
April	65 79	101 101	(s)	170	12	21 23	57	10 8	184	621
May	79 91	84	(s)	175	12 10	23 22	66	8	200 212	663 653
June	91 95	R 66	(s) (s)	163 170	10	22	63 57	11	212	652
July August	102	76	(s)	178	11	23	69	10	217	686
September	89	R 91	(s)	173	10	21	60	9	176	628
October	77	119	(s)	197	11	22	51	8	236	721
November	56	118	(s)	195	11	21	61	8	226	R 696
December	41	88	(s)	216	9	21	61	4	252	693
Total	827	R 1,195	2	2,229	130	260	R 704	108	2,558	R 8,014
2013 January	46	156	(s)	237	12	21	59	8	218	756
February	39	120	(s)	213	11	19	39	7	204	653
March	49	115	(s)	213	12	22	48	11	195	665
April	59	118	(s)	184	10	22	44	7	217	661
May	61	117	(s)	171	13	23	55	5	236	680
June	82	99	(s)	164	13	22	60	7	233	680
July	93	87	(s)	187	11	23	54	9	249	714
August	95	99	(s)	180	11	23	64	10	213	696
September	93	106	(s)	178	12	22	61	8	257	738
9-Month Total	616	1,017	`1	1,726	106	196	484	73	2,024	6,243
2012 9-Month Total 2011 9-Month Total	652 675	871 923	1 3	1,621 1,587	99 110	196 197	531 491	88	1,844	5,904

^a Industrial sector fuel use, including that at industrial combined-heat-and-power

R=Revised. (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 1, "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.

⁽CHP) and industrial electricity-only plants.

^b Finished motor gasoline. Through 1963, also includes special naphthas.

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

^c Pentanes plus, petrochemical feedstocks, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1964, also includes special naphthas. 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. 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.

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

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

				Transporta	tion Secto	r			E	Electric Po	wer Sectora	
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasolined	Residual Fuel Oil	Total	Distillate Fuel Oile	Petro- leum Coke	Residual Fuel Oil ^f	Total
1950 Total 1955 Total 1960 Total	199 354 298	480 791 892	(°) 301 739	3 13 19	141 155 152	4,664 6,175 7,183	1,201 1,009 844	6,690 8,799 10,125	32 32 22 29	NA NA NA	440 439 530	472 471 553
1965 Total	222 100 71 64	1,093 1,569 2,121 2,795	1,215 1,973 2,029 2,179	32 44 43 18	149 147 155 172	8,386 10,716 12,485 12,383	770 761 711 1,398	11,866 15,310 17,615 19,009	141 226 169	NA 19 2 5	693 1,958 2,937 2,459	722 2,117 3,166 2,634
1985 Total 1990 Total 1995 Total 2000 Total	50 45 40 36	3,170 3,661 4,195 5,165	2,497 3,129 3,132 3,580	30 23 18 12	156 176 168 179	12,784 13,575 14,607 15,960	786 1,016 911 888	19,472 21,626 23,070 25,820	85 97 108 175	7 30 81 99	998 1,163 566 871	1,090 1,289 755 1,144
2001 Total 2002 Total 2003 Total 2004 Total	35 34 30 31	5,292 5,392 5,590 5,932	3,426 3,340 3,265 3,383	14 14 18 19	164 162 150 152	16,041 16,465 16,597 16,962	586 677 571 740	25,557 26,085 26,222 27,219	171 127 161 111	103 175 175 222	1,003 659 869 879	1,277 961 1,205 1,212
2005 Total 2006 Total 2007 Total 2008 Total	33 32 28	6,076 6,414 6,457 5,837	3,475 3,379 3,358 3,193	28 27 22 40	151 147 152 141	17,043 17,197 17,321 16,872	837 906 994 926	27,645 28,105 28,335 27,038	115 74 89 73	243 214 171 154	876 361 397 240	1,235 648 657 468
2009 Total 2010 Total	27 27	5,583 5,879	2,883 2,963	28 29	127 141	16,838 16,807	791 892	26,277 26,738	70 80	139 144	181 154	390 378
2011 January	2 2	465 427	237 215	3	11 10	1,329 1,234	81 74	2,128 1,965	8 5	16 13	11 6	35 24
March April May	3 2	509 497 525	243 248 250	3 2 3	14 12 11	1,397 1,352 1,400	67 67 69	2,235 2,179 2,261	5 6 6	15 10 10	7 9 8	28 24 24
June July August	3 3 3	528 524 550	262 259 273	2 2 3	11 11 13	1,393 1,434 1,417	67 43 47	2,266 2,276 2,306	6 7 5	13 15 14	8 10 9	26 32 27
September October November	2 2 2	510 527 498	241 243 241	2 3 3	11 9 11	1,344 1,373 1,312	70 58 58	2,180 2,216 2,124	4 4 4	13 10 7	6 6	24 20 18
December Total	2 27	480 6,040	238 2,950	3 33	10 134	1,379 16,363	75 776	2,186 26,323	5 64	11 146	6 93	22 303
2012 January February March		445 432 474 ^R 483	230 222 243 230	3 3 3 3	11 12 10 11	1,301 1,277 1,363	65 53 60 61	2,057 2,001 2,155 2,133	5 4 R4	12 10 ^R 5 5	7 5 6 5	R 24 18 15 R 14
April	3 2 3	509 500 509	248 263 258	3 2 3	11 11 10 10	1,343 1,426 1,382 1,399	45 49 65	2,133 2,244 2,208 2,247	4 5 5 5	6 7 R 8	6 9 10	17 20 23
August September October	2 2 2	518 488 518	258 234 238	3 3 3	10 9 10	1,454 1,316 1,382	57 54 44	2,303 2,106 2,197	4 4 4	8 8 7	R 7 6 6	R 20 17 17
November December Total	2 1 25	480 R 464 5,820	235 243 2,901	3 3 34	11 8 123	1,304 1,332 16,279	45 25 624	2,079 2,077 25,806	R 5 R 53	7 7 R 90	5 ^R 6 77	R 17 R 18 R 219
2013 January February March	2 1 2	469 428 480	228 210 241	4 3 3	12 10 11	1,305 1,207 1,368	46 36 64	2,064 1,895 2,170	6 4 4	10 9 9	10 6 6	26 19 19
AprilMay	2 2 2 2	493 519 509	241 249 243	3 3 2	10 12 12	1,347 1,427 1,378	38 29 42	2,170 2,134 2,240 2,190	4 5 4	9 12 13	6 5 6	18 23 22
July August September	3 2 2	522 533 498	267 268 241	3 3 3	11 11 11	1,438 1,443 1,371	51 60 50	2,295 2,320 2,175	6 4 4	13 13 10	9 7 6	28 24 19
9-Month Total	17	4,452	2,188	26	100	12,283	417	19,483	40	98	60	198
2012 9-Month Total 2011 9-Month Total	20 21	4,358 4,534	2,186 2,228	25 24	94 104	12,261 12,299	510 586	19,453 19,796	40 51	68 118	60 75	168 244

petroleum. Through 2000, electric utility data also include a small amount of fuel oil no. 4.
R=Revised. NA=Not available.

R=Revised. NA=Not available.

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 1, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia

of Columbia.

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

beginning in 1973.
Sources: See end of section.

 ^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 Beginning in 1957, includes kerosene-type jet fuel. For 1952–2004, also includes naphtha-type jet fuel. (Through 1951, naphtha-type jet fuel is included in the products from which it was blended—gasoline, kerosene, and distillate fuel oil. Beginning in 2005, naphtha-type jet fuel is included in "Other" on Table 3.8b.)
 ^d Finished motor gasoline. Through 1963, also includes special naphthas. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
 ^e Fuel oil nos. 1, 2, and 4. Through 1979, data are for gas turbine and internal combustion plant use of petroleum. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.
 ^f Fuel oil nos. 5 and 6. Through 1979, data are for steam plant use of

Petroleum

Note 1. 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.

Note 2. 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.

Note 3. Historical Petroleum Data. Detailed information on petroleum data through 1993 can be found in Notes 1–6 on pages 60 and 61 in the July 2013 *Monthly Energy Review (MER)* at

http://www.eia.gov/totalenergy/data/monthly/archive/00351307.pdf. The notes discuss:

Note 1, "Petroleum Survey Respondents": In 1993, EIA added numerous companies that produce, blend, store, or import oxygenates to the monthly surveys.

Note 2, "Motor Gasoline": In 1981, EIA expanded its universe to include nonrefinery blenders and separated blending components from finished motor gasoline as a reporting category. In 1993, EIA made adjustments to finished motor gasoline product supplied data to more accurately account for fuel ethanol and motor gasoline blending components blended into finished motor gasoline.

Note 3, "Distillate and Residual Fuel Oils": In 1981, EIA eliminated the requirement to report crude oil in pipelines or burned on leases as either distillate or residual fuel oil.

Note 4, "Petroleum New Stock Basis": In 1975, 1979, 1981, and 1983, EIA added numerous respondents to bulk terminal and pipeline surveys; in 1984, EIA made changes in the reporting of natural gas liquids; and in 1993, EIA changed how it collected bulk terminal and pipeline stocks of oxygenates. These changes affected stocks reported and stock change calculations.

Note 5, "Stocks of Alaskan Crude Oil": In 1981, EIA began to include data for stocks of Alaskan crude oil in transit. Note 6, "Petroleum Data Discrepancies": In 1976, 1978, and 1979, there are some small discrepancies between data in the MER and the *Petroleum Supply Annual*.

Table 3.1 Sources

1949–1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports.

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

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

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

Table 3.6 Sources

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

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

Jet Fuel

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

Liquefied Petroleum Gases (LPG) Total

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

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

Motor Gasoline

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

Other Petroleum Products

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

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

Total Petroleum

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

Tables 3.7a-3.7c Sources

Petroleum consumption data for 1949–1972 are from the following sources:

1949–1959: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports, and U.S. Energy Information Administration (EIA) estimates.

1960-1972: EIA, State Energy Data System.

Petroleum consumption data beginning in 1973 are derived from data for "petroleum products supplied" from the following sources:

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

1976–1980: EIA, Energy Data Reports, *Petroleum Statement Annual*, annual reports.

1981–2012: EIA, *Petroleum Statement Annual*, annual reports, and unpublished revisions.

2013: EIA, Petroleum Supply Monthly, monthly reports.

Beginning in 1973, 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:

Beginning in 1979, the residential sector sales total is directly from the Sales reports. Through 1978, 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.

Beginning in 1979, the commercial sector sales total is directly from the Sales reports. Through 1978, 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.

Beginning in 1979, the industrial sector sales total is the sum of the sales for industrial, farm, oil company, off-highway diesel, and all other uses. Through 1978, 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." Beginning in 1994, 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 assigned to the transportation sector. Beginning in 2005, kerosene-type jet fuel is assigned to 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).

Beginning in 1979, the residential sector sales total is directly from the Sales reports. Through 1978, each year's sales category called "heating" is allocated to the residential, commercial, and industrial sectors in proportion to the 1979 shares.

Beginning in 1979, the commercial sector sales total is directly from the Sales reports. Through 1978, each year's sales category called "heating" is allocated to the residential, commercial, and industrial sectors in proportion to the 1979 shares.

Beginning in 1979, the industrial sector sales total is the sum of the sales for industrial, farm, and all other uses. Through 1978, 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. Beginning in 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. Through 2002, 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 80 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:

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

1973-1982:

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:

Beginning in 1979, commercial sales data are directly from the Sales reports. Through 1978, 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.

Beginning in 1979, industrial sales data are the sum of sales for industrial, oil company, and all other uses. Through 1978, each year's sales subtotal of the heating plus industrial category is allocated to the commercial and industrial sectors in proportion to the 1979 shares, and the estimated industrial portion is added to oil company and all other uses.

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

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

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

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

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

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

Other Petroleum Products

Consumption of all remaining petroleum products is assigned to the industrial sector. Other petroleum products include pentanes plus, petrochemical feedstocks,

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

Table 3.8a Sources

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

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

Liquefied Petroleum Gases (LPG)

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

Motor Gasoline

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

Total Petroleum

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

Table 3.8b Sources

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

Liquefied Petroleum Gases (LPG)

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

Motor Gasoline

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

Other Petroleum Products

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

Total Petroleum

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

Table 3.8c Sources

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

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

Jet Fuel

Transportation sector consumption data in thousand barrels

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

Liquefied Petroleum Gases (LPG)

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

Motor Gasoline

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

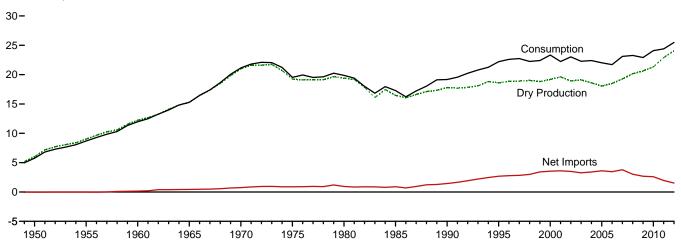
Total Petroleum

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

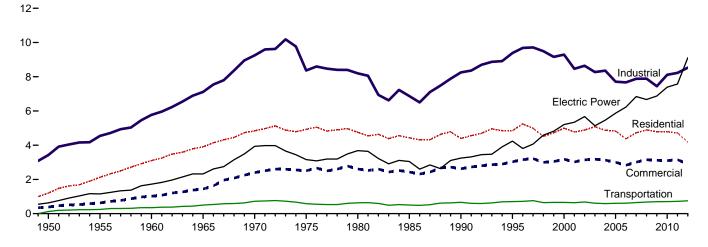
4. Natural Gas

Figure 4.1 Natural Gas (Trillion Cubic Feet)





Consumption by Sector, 1949-2012

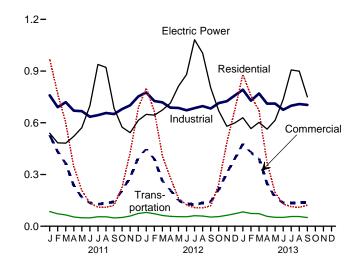


Overview, Monthly

2011

3.5 3.0 - Consumption 2.5 2.0 1.5 - Dry Production 1.0 0.5 - Net Imports 0.0

Consumption by Sector, Monthly



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

J FMAM J J A SOND J FMAM J J A SOND J FMAM J J A SOND

2012

2013

Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

		1			Supple-		Trade		Net		
	Gross	Marketed			mental		Traue		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
1950 Total	8.480	i 6.282	260	i 6.022	NA	0	26	-26	-54	-175	5,767
1955 Total	11,720	i 9,405	377	i 9,029	NA	11	31	-20	-68	-247	8,694
1960 Total	15,088	12,771	543	ⁱ 12,228	NA	156	11	144	-132	-274	11,967
1965 Total	17,963	16,040	753	15,286	NA	456	26	430	-118	-319	15,280
1970 Total	23,786	21,921	906	21,014	NA	821	70	751	-398	-228	21,139
1975 Total	21,104	i 20,109	872	¹ 19,236	NA	953	73	880	-344	-235	19,538
1980 Total 1985 Total	21,870 19.607	20,180 17,270	777 816	19,403 16.454	155 126	985 950	49 55	936 894	23 235	-640 -428	19,877 17,281
1990 Total	21,523	18,594	784	17.810	123	1,532	86	1.447	-513	307	^j 19.174
1995 Total	23,744	19,506	908	18,599	110	2,841	154	2,687	415	396	22,207
2000 Total	24,174	20.198	1.016	19,182	90	3,782	244	3,538	829	-306	23,333
2001 Total	24,501	20,570	954	19,616	86	3,977	373	3,604	-1.166	99	22,239
2002 Total	23,941	19,885	957	18,928	68	4,015	516	3,499	467	65	23,027
2003 Total	24,119	19,974	876	19,099	68	3,944	680	3,264	-197	44	22,277
2004 Total	23,970	19,517	927	18,591	60	4,259	854	3,404	-114	461	22,403
2005 Total	23,457	18,927	876	18,051	64	4,341	729	3,612	52	236	22,014
2006 Total	23,535	19,410	906	18,504	66	4,186	724	3,462	-436	103	21,699
2007 Total	24,664	20,196	930	19,266	63	4,608	822	3,785	192	-203	23,104
2008 Total	25,636	21,112	953	20,159	61 65	3,984	963	3,021	34 -355	102	23,277
2009 Total 2010 Total	26,057 26,816	21,648 22,382	1,024 1,066	20,624 21,316	65 65	3,751 3,741	1,072 1,137	2,679 2,604	-355 -13	-103 115	22,910 24,087
2010 10tal	20,010	22,302	1,000	21,310	05	3,741	1,137	2,004	-13	113	24,007
2011 January	2,299	1,953	92	1,861	5	372	136	236	811	-31	2,882
February	2,104	1,729	82	1,647	4	311	125	186	594	16	2,448
March	2,411	2,002	95	1,908	5 5	315	145	171	151	-3	2,232
April	2,350	1,961	93	1,868	5	278	127	151	-216	20	1,828
May	2,411	2,031	96	1,935	5	271	132	139	-405	-10	1,663
June	2,313	1,954	92	1,862	5	267	120	147	-346	-15	1,653
July	2,340	2,033	96	1,937	5 5 5	293	113	180	-248	3	1,877
August	2,370	2,057 1,987	97 94	1,960 1,893	5	280 252	111 127	169 125	-249 -404	-7 27	1,878 1,646
September October	2,358 2,502	2,119	100	2,019	5	282	110	173	-391	-65	1,741
November	2,476	2,076	98	1,978	5	249	128	121	-41	-50	2,014
December	2,544	2,135	101	2,034	5	298	134	163	390	-69	2,524
Total	28,479	24,036	1,134	22,902	60	3,469	1,507	1,962	-354	-185	24,385
2012 January	2,573	E 2,149	105	E 2,044	6	281	130	151	545	9	2,754
February	2,378	E 1,989	99	E 1,890	5	270	130	140	459	_R 6	R 2,500
March	2,537	E 2,123	105	E 2,017	6	265	141	124	-39	R 16	R 2,124
April	2,445	E 2,065	102	E 1,963	4	243	123	120	-137	R _s (s)	R 1,950
May	2,530	E 2,139	105	E 2,034	4	259	133	126	-283	R -16	R 1,866
June	2,420	E 2,061	100 103	E 1,962 E 2.039	5	260	125	135	-230 -134	R -9 R -11	R 1,863 R 2,062
July	2,461 2,374	E 2,142 E 2,130	103	E 2,039	5 5	281 281	118 139	163 142	-134	R -4	R 2,002
August September	2,432	E 2,090	104	E 1,985	5	258	139	121	-291	R -20	R 1,799
October	2,576	E 2,174	111	E 2,063	5	253	140	113	-241	R -46	R 1,894
November	2,503	E 2.108	109	E 1,999	5	234	142	92	125	R -59	R 2,162
December	2,562	E 2,149	107	E 2,041	6	252	159	94	385	R -25	R 2,500
Total	29,792	E 25,319	1,257	E 24,063	62	3,138	1,619	1,519	-9	R -158	R 25,476
2013 January	2,546	E 2,136	105	E 2,031	6	278	155	124	721	-19	2,863
February	2,316	E 1,951	98	E 1,853	5	237	133	104	604	-12	2,553
March	2,546	E 2,146	110	E 2,036	6	248	149	100	381	-14	2,508
April	2,484	E 2,095	107	E 1,989	5	221	126	95	-136	-4	1,948
May	2,549 2,455	E 2,173 E 2,107	111 107	E 2,062 E 2.000	5 3	235 237	142 134	93 103	-418 -372	-2 -8	1,739
June	2,455 2,555	E 2,107	117	E 2,000	3	237	134	103	-372 -275	-8 -5	1,726 1,911
July August	2,555 2,551	E 2,192	113	E 2,080	5 5	237	130	108	-275 -270	-5 -14	1,911
September	F 2,543	F 2,124	F 110	F 2,014	F 5	F 213	F 133	F 81	E-326	E -12	E 1,763
9-Month Total	E 22,546	E 19,124	E 978	E 18,146	E 43	E 2,145	E 1,229	^E 916	E-91	E -91	E 18,922
2012 9-Month Total 2011 9-Month Total	22,151 20,957	E 18,889 17,707	929 836	E 17,960 16,871	46 44	2,398 2,640	1,178 1,136	1,220 1,504	-278 -313	-28 (s)	18,919 18,106

R=Revised. E=Estimate. (s)=Less than 0.5 billion cubic feet and greater than -0.5 billion cubic feet. NA=Not available. F=Forecast.

Notes: • See Note 8, "Natural Gas Data Adjustments, 1993–2000," at end of section. • Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia (except Alaska, for which underground storage is excluded from "Net Storage Withdrawals" through 2012).

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

beginning in 1973.

Sources: • Imports and Exports: Table 4.2. • Consumption: Table 4.3. Balancing Item: Calculated as consumption minus dry gas production, oplemental gaseous fuels, net imports, and net storage withdrawals. • All Other Data: 1949–2007—U.S. Energy Information Administration (EIA), Natural Gas Annual, annual reports. 2008 forward—EIA, Natural Gas Monthly, October 2013, Table 1; and, for forecast values, EIA Short-Term Integrated Forecasting System.

For September 2013, data for this table were not available in time for publication. In their place, forecast values are being used.

a Gases withdrawn from natural gas, crude oil, coalbed, and shale gas wells. Includes natural gas, natural gas plant liquids, and nonhydrocarbon gases; but 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 1980–2011, also includes net withdrawals of ilquefied natural gas in above-ground tanks. See Note 4, "Natural Gas Storage." at end of section.

Gas Storage," at end of section.

g See Note 5, "Natural Gas Balancing Item," at end of section. Beginning in 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.

Through 1979, may include unknown quantities of nonhydrocarbon gases.

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.

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

					Imports				Exports					
	Algeria	Canada ^b	Egypt ^a	Mexico ^b	Nigeriaª	Qatar ^a	Trinidad and Tobago ^a	Other ^{a,c}	Total	Canada ^b	Japan ^a	Mexico ^b	Other ^{a,d}	Total
1950 Total 1955 Total 1965 Total 1965 Total 1975 Total 1975 Total 1975 Total 1975 Total 1975 Total 1980 Total 1985 Total 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total	0 0 0 0 1 5 86 24 18 47 65 27 53 120 97 17 77 70	0 11 109 948 797 926 1,448 3,729 3,785 3,437 3,590 3,783 3,593 3,271	Egypta 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 115 555	0 (s) 47 (s) 0 102 (s) 0 0 102 (s) 0 0 0 102 10 2 10 12 13 54 443 28	Nigeria ^a 0 0 0 0 0 0 0 0 0 0 0 138 88 50 12 88 57 95 122 13	Qatar ^a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tobago ^a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other ^{a,c} 0 0 0 0 0 0 0 0 0 0 0 0 1 14 8 11 46 11 0 18 155	Total 0 11 156 456 456 953 985 950 1,532 2,841 3,782 3,977 4,015 4,186 4,608 3,984 4,259 4,341 4,186 4,608 3,985	Canada ^b 3 11 6 18 11 10 (s) (s) 17 28 73 167 189 271 395 358 341 482 559 701	Japan ^a 0 0 0 0 444 53 45 53 53 565 666 663 662 655 61 47 399 31	23 20 6 8 15 9 4 2 16 61 106 61 1263 343 397 305 322 292 365 338	Other ^{a,d} 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Total 26 31 11 26 27 70 73 49 55 86 61 154 244 373 516 680 854 729 724 822 963 1,072
2010 Total 2011 January	0 0 0 0 0 0 0 0	3,280 332 279 277 245 236 239 273 250 231 251 233 251 233 272 3.117	73 3666636000330335	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	42 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	46 13 0 14 4 24 5 5 8 4 8 3 4	190 16 11 10 11 8 11 13 11 8 8 12 10 129	9 15 9 13 0 6 3 9 9 12 0 9	3,741 372 311 315 278 271 267 293 280 252 282 249 298 3,469	739 85 84 98 76 80 71 64 67 77 64 84 87	33 2 2 2 2 2 2 3 2 0 2 2 0 2 0 2 0 1	333 37 37 41 43 44 47 47 42 39 43 39 42 500	13 3 3 6 6 0 3 0 8 3 3 5 5	1,137 136 125 145 127 132 120 113 111 127 110 128 134 1,507
Pebruary September October November December Total	0 0 0 0 0 0 0 0	265 250 246 235 243 251 266 262 246 243 220 235 2,963	0 3 0 0 0 0 0 0 0 0	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0 0 0 0 0 0 0 0	4 0 4 4 6 0 3 3 3 6 3 0 3	9 11 13 1 11 8 12 16 8 5 8	3 6 3 3 0 0 0 0 0 0 0 3 9 26	281 270 265 243 259 260 281 281 258 258 253 234 252 3,138	84 87 93 78 78 64 62 77 80 75 93 101	3 2 0 0 3 2 0 2 0 2 0 0	40 42 46 45 52 58 57 60 58 61 49 52 620	3 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	130 130 141 123 133 125 118 139 137 140 142 159 1,619
2013 January	0 0 0 0 0 0 0 NA NA	265 225 240 215 229 229 230 NA NA NA	0 0 0 0 0 0 0 0 NA NA 3	(s) (s) (s) (s) (s) (s) (s) NA NA	0 0 0 0 0 0 0 0 0 NA NA	0 4 4 0 0 0 0 0 0 NA NA 25	11 85 55 6 88 6 NA NA 91 98	3 0 0 0 0 0 0 3 NA NA	278 237 248 221 235 237 237 239 F 213 E 2,145 2,398 2,640	99 84 92 71 82 76 67 68 NA NA 702	0 0 0 0 0 0 0 NA NA	56 49 56 55 60 58 62 62 NA NA	0 0 0 0 0 0 0 0 NA NA	155 133 149 126 142 134 129 130 F 133 E 1,229

As liquefied natural gas.

Notes: • See Note 9, "Natural Gas Imports and Exports," at end of section.

• Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • 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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • 1949-1954: U.S. Energy Information Administration (EIA) estimates based on Bureau of Mines, Minerals Yearbook, "Natural Gas" chapter.

• 1955-1971: Federal Power Commission data. • 1972-1987: EIA, Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."

• 1988-2010: EIA, Natural Gas Annual, annual reports. • 2011 forward: EIA, Natural Columbia (2012) Tebles (4 and ELLS Descriptors). Natural Gas Monthly, October 2013, Tables 4 and 5; U.S. Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports"; and, for forecast values, EIA Short-Term Integrated Forecasting System.

For September 2013, trade data series were not available in time for publication. In their place, forecast values are being used where available.

a As liquefied natural gas.
b By pipeline, except for small amounts of: liquefied natural gas (LNG) imported from Canada in 1973, 1977, 1981, and 2013; LNG exported to Canada in 2007, 2012, and 2013; compressed natural gas (CNG) exported to Canada in 2013; and LNG exported to Mexico beginning in 1998. See Note 9, "Natural Gas Imports and Exported to Academy Section." Exports," at end of section.

Exports," at end of section.

Australia in 1997–2001 and 2004; Brunei in 2002; Equatorial Guinea in 2007; Indonesia in 1986 and 2000; Malaysia in 1999 and 2002–2005; Norway in 2008 forward; Oman in 2000–2005; Peru in 2010 and 2011; United Arab Emirates in 1996–2000; Yemen in 2010 forward; and Other (unassigned) in 2004.

Brazil in 2010–2012; Chile in 2011; China in 2011; India in 2010–2012; Russia 2003; Scale Marca in 2004 and 2011; and United Kingdom.

in 2007; South Korea in 2009–2011; Spain in 2010 and 2011; and United Kingdom in 2010 and 2011

NA=Not available. E=Estimate. F=Forecast. (s)=Less than 500 million cubic

Table 4.3 Natural Gas Consumption by Sector

(Billion Cubic Feet)

	End-Use Sectors Industrial Transportation											
					Industrial			Tr	ansportatio	n		
	Resi-	Com-	Lease and		Other Industri	al		Pipelinesd and Dis-	Vehicle		Electric Power	
	dential	merciala	Plant Fuel	CHPb	Non-CHP ^c	Total	Total	tributione	Fuel	Total	Sector ^{f,g}	Total
1950 Total 1955 Total	1,198 2,124	388 629	928 1,131	(h)	2,498 3,411	2,498 3,411	3,426 4,542	126 245	NA NA	126 245	629 1,153	5,767 8,694
1960 Total	3,103	1,020	1,237	}h{	4.535	4,535	5,771	347	NA NA	347	1,725	11.967
1965 Total	3,903	1,444	1,156	(h)	5,955	5,955	7,112	501	NA	501	2,321	15,280
1970 Total	4,837	2,399	1,399	(h)	7,851	7,851	9,249	722	NA	722	3,932	21,139
1975 Total	4,924 4.752	2,508	1,396	{ '' }	6,968	6,968	8,365	583 635	NA NA	583 635	3,158	19,538
1980 Total 1985 Total	4,752 4,433	2,611 2,432	1,026 966	\;\;\	7,172 5,901	7,172 5,901	8,198 6,867	504	NA NA	504	3,682 3,044	19,877 17,281
1990 Total	4,433	2,432	1.236	1.055	5,963	¹ 7.018	8.255	660		660	3,044	¹ 19.174
1995 Total	4,850	3,031	1,220	1,258	6,906	8,164	9,384	700	(s) 5	705	4,237	22,207
2000 Total	4,996	3,182	1,151	1,386	6,757	8,142	9,293	642	13	655	5,206	23,333
2001 Total	4,771	3,023	1,119	1,310	6,035	7,344	8,463	625	15	640	5,342	22,239
2002 Total	4,889	3,144	1,113	1,240	6,287	7,527	8,640	667	15	682	5,672	23,027
2003 Total 2004 Total	5,079 4.869	3,179 3.129	1,122 1.098	1,144 1.191	6,007 6.066	7,150 7.256	8,273 8.354	591 566	18 21	610 587	5,135 5.464	22,277 22,403
2005 Total	4,809	2,999	1,098	1,191	5.518	6.601	7.713	584	23	607	5,869	22,403
2006 Total	4,368	2,832	1,142	1,115	5,412	6,527	7,669	584	24	608	6,222	21,699
2007 Total	4,722	3,013	1,226	1,050	5,604	6,655	7,881	621	25	646	6,841	23,104
2008 Total	4,892	3,153	1,220	955	5,715	6,670	7,890	648	26	674	6,668	23,277
2009 Total	4,779	3,119	1,275	990	5,178	6,167	7,443	670 674	27 29	697 703	6,873	22,910
2010 Total	4,782	3,103	1,286	1,029	5,797	6,826	8,112	6/4	29	703	7,387	24,087
2011 January	970	528	107	90	563	652	759	82	3	85	540	2,882
February	769	432	97	81	513	594	691	70	2	72	484	2,448
March	601	364	111	82	526	608	719	63	3 3	66	482	2,232
April	347 208	236 168	109 112	83 87	479 468	562 555	670 667	51 46	3	54 49	521 572	1,828 1,663
May June	135	135	107	88	440	527	635	46	3 3	49	699	1,653
July	111	128	110	97	438	535	644	52	3	55	939	1,877
August	109	135	111	99	446	546	657	52	3 3	55	921	1,878
September	122	141	109	91	451	541	651	46	3 3	48	684	1,646
October	227	208	116	85	479 504	563	680	48		51	575	1,741
November December	429 686	283 397	115 118	86 96	501 539	587 635	701 753	56 71	3 3	59 74	543 614	2,014 2.524
Total	4,714	3,154	1,323	1,063	5,842	6,905	8,227	684	32	716	7,574	24,385
2012 January	801	448	<u> </u>	R 94	R 563	658	776	E 77	Ē3	E 80	R 649	2,754
February	667	390	E 109 E 117	R 89 R 91	^R 528 ^R 511	617	726	E 70 E 60	E 3	E 73	R 645	R 2,500
March April	407 281	262 210	E 117	R 90	R 484	602 574	718 688	E 55	E 3	E 62 E 58	^R 674 ^R 714	R 2,124 R 1,950
May	163	149	E 118	R 95	R 473	568	686	E 52	E 3	E 55	R 812	R 1,866
June	124	131	E 113	R 98	R 461	559	673	E 52	Εā	E 55	R 880	R 1.863
July	109	125	E 118	R 107	R 460	567	685	E 58	E 3	E 61	R 1.082	R 2,062
August	106	135	E 117	R 105	R 475	580	697	E 56	E 3	E 59	R 1,004	R 2,001
September	119	142	E 115 E 120	R 96 R 94	R 472 R 501	568	683	E 51 E 53	E 3 E 3	E 53 E 56	R 803 R 669	R 1,799 R 1,894
October November	242 486	213 308	E 120	R 93	R 516	595 609	714 725	E 61	E3	E 63	R 580	R 2,162
December	677	393	E 118	R 98	R 543	641	725 759	E 70	E 3	E 72	R 600	R 2,500
Total	4,180	2,907	E 1,393	R 1,149	R 5,989	7,138	8,531	E 715	E 33	E 748	R 9,111	R 25,476
2013 January	881	478	E 118	102	573	675	792	E 80	E 3	E 83	629	2,863
February	757	428	E 107	91	530	621	728	E 72	E 3	E 74	566	2,553
March	670	393	E 118	98	554	652	770	E 70	E 3	E 73	602	2,508
April	369	247 168	E 115 E 120	90 94	506 498	596 502	711 712	E 55 E 49	E 3	E 57 E 52	563 615	1,948
May June	194 129	168	E 120	94 93	498 466	592 559	675	E 48	E3	E 52	615 736	1,739 1,726
July	113	136	E 121	98	480	578	699	E 54	E 3	E 56	907	1,720
August	109	137	E 121	100	487	588	709	E 54	Εž	E 56	899	1.910
September	F 122	F 137	F 117	92	F 495	F 587	F 704	F 48	_F3	_F51	750	E 1,763
9-Month Total	E 3,343	E 2,258	E 1,052	858	E 4,590	E 5,448	E 6,500	E 529	E 25	^E 554	6,267	E 18,922
2012 9-Month Total 2011 9-Month Total	2,776 3,372	1,993 2,266	E 1,039 974	865 797	4,428 4,324	5,293 5,120	6,332 6,094	^E 532 508	E 25 24	^E 556 532	7,262 5,842	18,919 18,106

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.

Section 7. • Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • 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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

beginning in 1973. Sources: • Re

and CSV liles) for all available allitude data beginning in 1949 and floriting data beginning in 1973.

Sources: Residential, Commercial, Lease and Plant Fuel, Other Industrial Total and Pipelines and Distribution: 1949–2007—U.S. Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports and unpublished revisions. 2008 forward—EIA, Natural Gas Monthly (NGM), October 2013, Table 2; and, for forecast values, EIA Short-Term Integrated Forecasting System (STIFS).

• Industrial CHP: Table 7.4c. • Vehicle Fuel: 1990 and 1991—EIA, NGA 2000, (November 2001), Table 95. 1992–1998—EIA, "Alternatives to Traditional Transportation Fuels 1999" (October 1999), Table 10, and "Alternatives to Traditional Transportation Fuels 2003" (February 2004), Table 10. Data for compressed natural gas and liquefied natural gas in gasoline-equivalent gallons were converted to cubic feet by multiplying by the motor gasoline conversion factor (see Table A4). 1999–2007—EIA, NGA, annual reports. 2008 forward—EIA, NGM, October 2013, Table 2; and, for forecast values, STIFS. • Electric Power Sector: Table 7.4b.

For September 2013, data for non-electric data series were not available in time for publication. In their place, forecast values are being used.

⁻ muusunal combined-heat-and-power (CHP) and a small number of industrial electricity-only plants. $^{\circ}$ All industrial sector fuel use other than that in "Lease and Plant Fuel" and "CHP."

[&]quot;CHP."

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

e Natural gas used as fuel in the delivery of natural gas to consumers.

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

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

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. F=Forecast. (s)=Less than 500 million cubic feet.

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

million cubic teet.

Notes: • Data are for natural gas, plus a small amount of supplemental gaseous fuels. • See Note 3, "Supplemental Gaseous Fuels," at end of section.

• See Note 8, "Natural Gas Data Adjustments, 1933–2000," at end of section.

• See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	Natural Gas in Underground Storage, End of Period Base Gas Working Gas Total®			Change in V From San Previou			Storage Activity	
	Base Gas	Working Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,0}
950 Total	NA	NA	NA	NA	NA	175	230	-54
955 Total	863	505	1,368	40	8.7	437	505	-68
960 Total	NA	NA	2.184	NA	NA	713	844	-132
965 Total	1.848	1,242	3,090	83	7.2	960	1.078	-118
970 Total	2,326	1,678	4,004	257	18.1	1,459	1,857	-398
	3,162	2,212	5,374	162	7.9	1,760	2,104	-344
75 Total	3,162	2,655	6,297	-99	-3.6	1,760	1.896	-344 14
80 Total				-99 -270				
85 Total	3,842	2,607	6,448		-9.4	2,359	2,128	231
90 Total	3,868	3,068	6,936	555	22.1	1,934	2,433	-499
95 Total	4,349	2,153	6,503	-453	-17.4	2,974	2,566	408
00 Total	4,352	1,719	6,071	-806	-31.9	3,498	2,684	814
01 Total	4,301	2,904	7,204	1,185	68.9	2,309	3,464	-1,156
02 Total	4,340	2,375	6,715	-528	-18.2	3,138	2,670	468
03 Total	4,303	2,563	6,866	187	7.9	3,099	3,292	-193
04 Total	4,201	2,696	6,897	133	5.2	3,037	3,150	-113
05 Total	4,200	2,635	6,835	-61	-2.3	3,057	3,002	55
06 Total	4,211	3,070	7,281	435	16.5	2,493	2,924	-431
07 Total	4,234	2,879	7,113	-191	-6.2	3,325	3,133	192
08 Total	4,232	2,840	7,073	-39	-1.4	3,374	3,340	34
09 Total	4.277	3,130	7,407	290	10.2	2,966	3,315	-349
10 Total	4,301	3,111	7,412	-19	6	3,274	3,291	-17
11 January	4,303	2,306	6,609	2	.1	849	50	799
February	4,302	1,722	6,024	39	2.3	666	82	584
March	4.302	1.577	5.879	-75	-4.6	314	168	146
April	4.304	1,788	6,092	-223	-11.1	100	312	-212
May	4.304	2,187	6,491	-233	-9.6	58	458	-399
June	4,302	2,530	6,831	-210	-7.7	80	421	-340
July	4,300	2,775	7,075	-190	-6.4	116	359	-244
August	4.300	3,019	7,319	-134	-4.2	126	370	-244
	4,301	3,416	7,717	-92	-2.6	55	454	-398
September						52	437	
October	4,302	3,804	8,106	-47	-1.2			-385
November	4,300	3,843	8,143	74	2.0	184	221	-38
December	4,302	3,462	7,764	351	11.3	474	90	383
Total	4,302	3,462	7,764	351	11.3	3,074	3,422	-348
12 January	4,307 4.307	2,915 2.455	7,222 6.762	609 733	26.4 42.5	620 515	75 56	545 459
February								
March	4,325	2,477	6,802	900	57.1	203	242	-39
April	4,329	2,613	6,942	825	46.1	126	264	-137
May	4,334	2,890	7,224	703	32.2	73	356	-283
June	4,337	3,118	7,456	589	23.3	.91	321	-230
July	4,339	3,246	7,585	471	17.0	129	263	-134
August	4,348	3,409	7,757	390	12.9	134	302	-168
September	4,352	3,693	8,045	278	8.1	67	358	-291
October	4,365	3,929	8,294	125	3.3	86	327	-241
November	4,372	3,799	8,172	-43	-1.1	281	156	125
December	4,371	3,413	7,784	-49	-1.4	490	105	385
Total	4,371	3,413	7,784	-49	-1.4	2,815	2,824	-9
13 January	4,373	2,703	7,076	-212	-7.3	793	72	721
February	4,379	2,103	6,483	-351	-14.3	648	44	604
March	4,378	1,724	6,102	-753	-30.4	482	101	381
April	4,377	1,858	6,236	-755	-28.9	136	272	-136
May	4,381	2,272	6,653	-618	-21.4	49	467	-418
June	4,385	2,643	7,028	-475	-15.2	69	441	-372
July	4,365	2,937	7,303	-309	-9.5	99	373	-275
August	4,362	3,211	7,573	-198	-5.8	102	372	-270
September	F 4,362	F 3,526	F 7,888	F -168	F-4.5	F 65	F 391	E -326
9-Month Total						E 2,442	E 2,534	E -91
2 9-Month Total						1.958	2.237	-278

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

Sources: • Storage Activity: 1949–1975—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. 1996–2007—EIA, Natural Gas Monthly (NGM), monthly issues 2009 forward—EIA. NGM Octobes 2010 Through 2010 Table 20 1980–1995—EIA, Historical Natural Gas Annual 1930 Through 2000, Table 11. 1996–2007—EIA, Natural Gas Monthly (NGM), monthly issues. 2081 forward—EIA, NGM, October 2013, Table 8; and, for forecast values, EIA Short-Term Integrated Forecasting System (STIFS). • All Other Data: 1954–1974—American Gas Association, Gas Facts, annual issues. 1975 and 1976—Federal Energy Administration (FEA), Form FEA-G318-M-0, "Underground Gas Storage Report." and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report." 1977 and 1978—EIA, Form FEA-G318-M-0, "Underground Gas Storage Report." and Federal Energy Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report." 1979—1995—EIA, Form EFA-G318-M-0, "Underground Gas Storage Report." 1996–2007—EIA, NGM, monthly issues. 2008 forward—EIA, NGM, October 2013, Table 8; and, for forecast values, STIFS.

For September 2013, data for this table were not available in time for publication. In their place, forecast values are being used.

^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 1980–2011, data differ from those shown on Table 4.1, which includes liquefied natural gas storage for that period.
^c Positive numbers indicate that withdrawals are greater than injections. Negative numbers indicate that injections are greater than withdrawals. Net withdrawals or injections may not equal the difference between applicable ending stocks. See Note 4, "Natural Gas Storage," at end of section.
— =Not applicable. NA=Not available. E=Estimate. F=Forecast. Notes: • Through 1964, all volumes are shown on a pressure base of 14.65 psia (pounds per square inch absolute) at 60° Fahrenheit; beginning in 1965, the pressure base is 14.73 psia at 60° Fahrenheit. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia (except Alaska, which is excluded through 2012).

and the District of Columbia (except Alaska, which is excluded through 2012).

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#naturalgas (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1072

Natural Gas

Note 1. Natural Gas Production. Final annual data are from the U.S. Energy Information Administration's (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 EIA's *Natural Gas Monthly (NGM)*.

Monthly data are considered preliminary until after publication of the 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 pressure base of 14.73 psia (pounds per square inch absolute) at 60° Fahrenheit. Unless there are major changes, data are not revised until after publication of the NGA.

Differences between annual data in the 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—these natural gas plant liquids are transferred to petroleum supply.

Annual data are from EIA's *Natural Gas Annual (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 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 publication of the 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 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 EIA's *Natural Gas Annual (NGA)*. Unknown quantities of supplemental gaseous fuels are included in consumption data for 1979 and earlier years. Monthly data are considered preliminary until

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

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

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

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

1975 6,280	1988 8,124	2001	8,182
1976 6,544	1989 8,120	2002	8,207
1977 6,678	1990 7,794	2003	8,206
1978 6,890	1991 7,993	2004	8,255
1979 6,929	1992 7,932	2005	8,268
1980 7,434	1993 7,989	2006	8,330
1981 7,805	1994 8,043	2007	8,402
1982 7,915	1995 7,953	2008	8,499
1983 7,985	1996 7,980	2009	8,656
1984 8,043	1997 8,332	2010	8,764
1985 8,087	1998 8,179	2011	8,849
1986 8,145	1999 8,229	2012	P9,011
1987 8,124	2000 8,241		

P= Preliminary.

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

The final monthly and annual storage and withdrawal data for 1980–2011 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.

Note 6. Natural Gas Consumption. Natural gas consumption statistics include data for the following: "Residential Sector": residential deliveries; "Commercial Sector": commercial deliveries, including to commercial combined-heat-and-power (CHP) and commercial electricity-only plants; "Industrial Sector": lease and plant fuel use, and other industrial deliveries, including to industrial CHP and industrial electricity-only plants; "Transportation Sector": pipelines and distribution use, and vehicle fuel use; and "Electric Power Sector": electric utility and independent power producer use.

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

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 1989–1992, 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 shown in Natural Gas Navigator EIA's http://www.eia.gov/dnav/ng/ng_cons_sum_dcu_nus_m.htm) were not reconciled and updated to be consistent with the final annual data in EIA's Natural Gas Annual. In addition, very small amounts of LNG arrived from Canada in 1973 (667 million cubic feet), 1977 (572 million cubic feet), 1981 (6 million cubic feet), and 2013 (88 million cubic feet). 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).

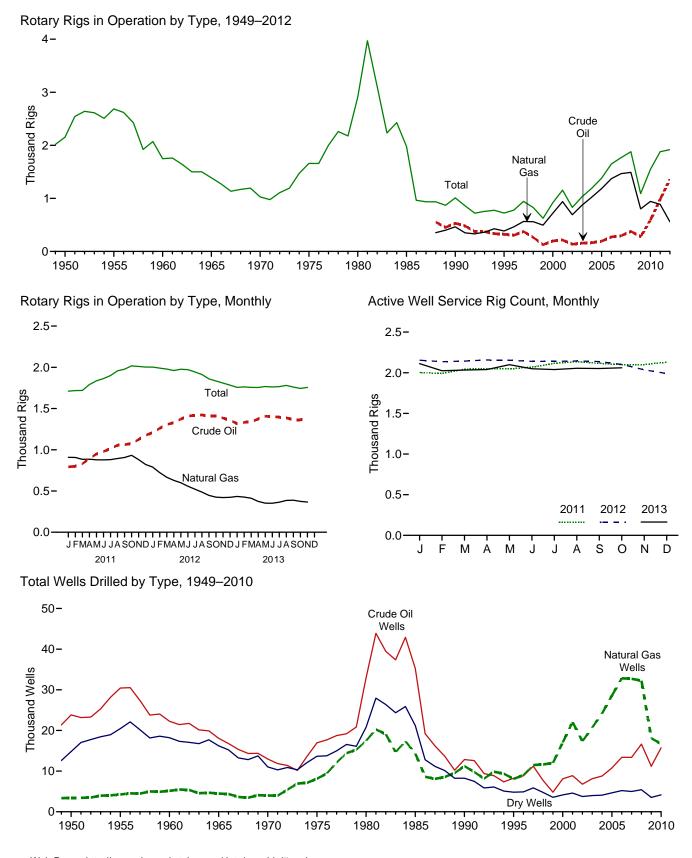
Note 9. Natural Gas Imports and Exports. The United States imports natural gas via pipeline from Canada and Mexico; and imports liquefied natural gas (LNG) via tanker from Algeria, Australia, Brunei, Egypt, Equatorial Guinea, Indonesia, Malaysia, Nigeria, Norway, Oman, Peru, Qatar, Trinidad and Tobago, 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), 1981 (6 million cubic feet), and 2013 (228 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 and to Canada in 2007, 2012, and 2013. Small amounts of compressed natural gas have been exported to Canada since 2013.

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 EIA's *Natural Gas Monthly*. Preliminary data are revised after publication of EIA's *U.S. Imports and Exports of Natural Gas*.

5. Crude Oil and Natural Gas Resource Development

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators



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

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements

(Number of Rigs)

950 Average 955 Average 960 Average 961 Average 962 Average 963 Average 975 Average 980 Average 980 Average 980 Average 990 Average 990 Average 990 Average 900 Average 901 Average 901 Average 902 Average 903 Average 904 Average 906 Average 907 Average 908 Average 909 Average 909 Average 901 Average	Onshore NA	Site Offshore	By Crude Oil	Type Natural Gas	Total ^b	Active Well Service Rig Count ^o
955 Average 960 Average 970 Average 981 Average 982 Average 983 Average 985 Average 996 Average 997 Average 997 Average 998 Average 998 Average 999 Average 999 Average 909 Average 909 Average 909 Average 900 Average 901 Average 901 Average 902 Average 903 Average 904 Average 905 Average 906 Average 907 Average 908 Average 909 Average 909 Average 901 Average		Offshore	Crude Oil	Natural Gas	Total ^b	
955 Average 960 Average 970 Average 981 Average 982 Average 983 Average 985 Average 996 Average 997 Average 997 Average 998 Average 998 Average 999 Average 999 Average 909 Average 909 Average 909 Average 900 Average 901 Average 901 Average 902 Average 903 Average 904 Average 905 Average 906 Average 907 Average 908 Average 909 Average 909 Average 901 Average	NΔ					Kig Count
955 Average 960 Average 970 Average 981 Average 982 Average 983 Average 985 Average 996 Average 997 Average 997 Average 998 Average 998 Average 999 Average 999 Average 909 Average 909 Average 909 Average 900 Average 901 Average 901 Average 902 Average 903 Average 904 Average 905 Average 906 Average 907 Average 908 Average 909 Average 909 Average 901 Average		NA	NA	NA	2.154	NA
960 Average 965 Average 9770 Average 9780 Average 980 Average 981 Average 990 Average 990 Average 991 Average 991 Average 992 Average 993 Average 994 Average 995 Average 996 Average 997 Average 998 Average 999 Average 990 Average	NA	NA	NA	NA	2,686	NA
965 Average	NA	NA	NA	NA	1,748	NA
970 Average 975 Average 986 Average 987 Average 990 Average 990 Average 991 Average 992 Average 995 Average 996 Average 997 Average 998 Average 999 Average 990 Average	NA	NA	NA	NA	1,388	NA
975 Average 980 Average 980 Average 990 Average 990 Average 901 Average 902 Average 903 Average 904 Average 905 Average 906 Average 907 Average 908 Average 907 Average 908 Average 909 Average 901 Average	NA	NA	NA NA	NA	1,028	NA NA
980 Average 985 Average 990 Average 991 Average 992 Average 993 Average 994 Average 995 Average 996 Average 997 Average 998 Average 998 Average 998 Average 999 Average 990 Average	1,554	106	NA	NA	1,660	2.486
185 Average 190 Average 1910 Average 192 Average 193 Average 194 Average 195 Average 196 Average 197 Average 198 Average 199 A	2,678	231	NA NA	NA NA	2,909	4.089
190 Average 190 Average 101 Average 102 Average 103 Average 104 Average 105 Average 106 Average 107 Average 108 Average 109 Average 101 Average 101 Average 102 Average 103 Average 104 Average 105 Average 106 Average 107 Average 108 Average 109 Average 110 Average 111 January 114 January 115 February 116 April 117 May 118 May 119 Average 119 Average 110 Average 110 Average 111 January 114 January 15 February 16 April 17 May 18 May 18 May 18 May 18 May 19 May 19 May 19 May 10 Average 10 Average 11 May 11 May 12 May 13 May 14 May 15 May 16 May 17 March 18 May	1,774	206	NA NA	NA NA	1,980	4,716
195 Average 100 Average 101 Average 103 Average 104 Average 105 Average 106 Average 107 Average 108 Average 109 Average 109 Average 100 Average 110 Average 111 January 114 January 115 February 116 Average 117 Average 118 Average 119 Average 119 Average 110 Average 110 Average 111 January 114 January 115 February 116 Average 117 Average 118 January 119 Average 119 Average 110 Average 110 Average 111 January 112 Average 113 January 114 January 115 Average 116 Average 117 January 118 Average 119 Average 119 Average 110 Average	902	108	532	464	1,010	3,658
00 Average 01 Average 02 Average 03 Average 05 Average 06 Average 07 Average 08 Average 10 Average 10 Average 11 January February March April May	622	101	323	385	723	3,041
01 Average 02 Average 03 Average 04 Average 06 Average 07 Average 08 Average 09 Average 10 Average 11 January February March April May	778	140	197	720	723 918	2.692
02 Average 03 Average 04 Average 05 Average 06 Average 07 Average 08 Average 10 Average 11 January February March April May						
03 Average 04 Average 05 Average 06 Average 08 Average 09 Average 110 Average 111 January February March April May	1,003	153	217	939	1,156	2,267
104 Average	717	113	137	691	830	1,830
05 Average 06 Average 07 Average 08 Average 10 Average 11 January February March April May May	924	108	157	872	1,032	1,967
06 Average	1,095	97	165	1,025	1,192	2,064
06 Average	1,287	94	194	1,184	1,381	2,222
07 Average 08 Average 09 Average 10 Average 11 January February March April May	1,559	90	274	1,372	1,649	2,364
08 Average	1,695	72	297	1,466	1,768	2,388
09 Average 110 Average 111 January February March April May	1,814	65	379	1,491	1,879	2,515
10 Average 11 January February March April May	1,046	44	278	801	1,089	1,722
February March April May	1,514	31	591	943	1,546	1,854
February March April May	1,686	26	793	909	1,711	2,004
March April May	1,692	26	801	907	1,718	1,990
April May	1,694	26	830	884	1,720	2,044
May	1,762	28	896		1,720	2,044
				885		
	1,804	32	948	878	1,836	2,047
	1,829	34	979	877	1,863	2,069
July	1,865	35	1,014	880	1,900	2,116
August	1,923	35	1,055	894	1,957	2,136
September	1,946	32	1,063	907	1,978	2,115
October	1,982	35	1,077	933	2,017	2,100
November	1,974	37	1,125	880	2,011	2,100
December	1,961	42	1,177	821	2,003	2,131
Average	1,846	32	984	887	1,879	2,075
12 January	1.960	43	1.208	790	2.003	2.154
February	1.949	42	1,261	723	1,990	2,135
March	1,935	43	1,307	667	1,979	2,143
April	1,917	44	1,329	629	1,961	2,157
May	1.931	46	1,373	600	1,977	2,153
	1,923	49	1,409	558	1.972	2,139
June	1,823	51	1,419	522	1,972	2,139
July						
August	1,863	50	1,423	487	1,913	2,144
September	1,808	51	1,409	447	1,859	2,137
October	1,785	49	1,407	425	1,834	2,102
November	1,758	51	1,385	421	1,809	2,036
December	1,733	51	1,358	423	1,784	1,990
Average	1,871	48	1,357	558	1,919	2,113
13 January	1,704	52	1,318	434	1,756	2,112
February	1,708	54	1,332	426	1,762	2,024
March	1,705	51	1,339	413	1,756	2.033
April	1,707	49	1,374	374	1,755	2,039
May	1,715	52	1,407	353	1,767	2,039
June	1,713	55	1,404	352	1,761	2,049
	1,708	58	1,404	364		2,049
July					1,766	
August	1,720	61	1,388	386	1,781	2,055
September	4.005		1,364	389	1,760	2,052
October	1,695	65				
November	1,683	61	1,364	374	1,744	R 2,061
11-Month Average	1,683 1,698	61 58	1,364 1,384	374 366	1,744 1,756	NA
12 11-Month Average	1,683	61	1,364	374	1,744	

^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 numbers, such as senting wells injection wells.

R=Revised. 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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

Sources: • Rotary Rigs in Operation: Baker Hughes, Inc., Houston, TX, Rotary Rigs Running—by State, used with permission. See http://phx.corporate-ir.net/phoenix.zhtml?c=79687&p=irol-reportsother. • Active Well Service Rig Count: Cameron International Corporation, Houston, TX. See http://www.c-a-m.com/Forms/Product.aspx?prodID=cdc209c4-79a3-47e5-99c2-fdeda6d4aad6.

shown) drilling for miscellaneous purposes, such as service wells, injection wells, and stratigraphic tests. "Total" values may not equal the sum of "Onshore" and "Offshore" due to independent rounding.

^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.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

						Wells	Drilled						
		Exploi	ratory			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	nber						Thousand Feet
1950 Total	1,583	431	8,292	10,306	22,229	3,008	6,507	31,744	23,812	3,439	14,799	42,050	157,358
1955 Total	2,236	874	11,832 9,515	14,942 11,704	28,196	3,392	8,620	40,208	30,432 22,258	4,266	20,452 18,212	55,150 45,619	226,182
1960 Total	1,321 946	868 515	9,515 8,005	9,466	20,937 17,119	4,281 3,967	8,697 8,221	33,915 29,307	22,258 18.065	5,149 4,482	16,212	38,773	192,176 174.882
1970 Total	757	477	6,162	7,396	12,211	3,534	4,869	20,614	12,968	4,011	11,031	28,010	138,556
1975 Total	982	1,248	7,129	9,359	15,966	6,879	6,517	29,362	16,948	8,127	13,646	38,721	180,494
1980 Total	1,777	2,099	9,081	12,957	31,182	15,362	11,704	58,248	32,959	17,461	20,785	71,205	316,943
1985 Total	1,680	1,200	8,954	11,834	33,581	13,124	12,257	58,962	35,261	14,324	21,211	70,796	314,409
1990 Total	778 570	811 558	3,652 2.024	5,241 3,152	12,061 7,678	10,435 7,524	4,593 2.790	27,089 17,992	12,839 8,248	11,246 8,082	8,245 4.814	32,330 21,144	156,044 117,156
2000 Total	288	657	1,341	2,286	7,802	16,394	2,805	27,001	8.090	17,051	4,146	29,287	144,425
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	180,141
2002 Total	258	844	1,282	2,384	6,517	16,498	2,472	25,487	6,775	17,342	3,754	27,871	145,159
2003 Total	350	997	1,297	2,644	7,779	19,725	2,685	30,189	8,129	20,722	3,982	32,833	177,239
2004 Total	383 539	1,671	1,350	3,404 4,142	8,406 10,240	22,515	2,732	33,653 39,880	8,789 10,779	24,186 28,590	4,082	37,057 44,022	204,279 240,307
2005 Total	646	2,141 2.456	1,462 1.547	4,142	12,739	26,449 30.382	3,191 3.659	46.780	13.385	32.838	4,653 5,206	51.429	282.675
2007 Total	808	2,794	1,582	5,184	12,563	29,925	3,399	45,887	13,371	32,719	4,981	51,071	301,515
2008 January	88	208	144	440	1,111	2,321	272	3,704	1,199	2,529	416	4,144	25,306
February	82	230	107	419	1,080	2,261	247	3,588	1,162	2,491	354	4,007	24,958
March April	66 68	216 189	127 130	409 387	1,132 1,177	2,363 2,415	271 281	3,766 3,873	1,198 1,245	2,579 2,604	398 411	4,175 4,260	26,226 26,920
May	88	206	124	418	1,177	2,413	240	4,006	1,405	2,655	364	4,424	27,947
June	63	195	139	397	1,428	2,540	299	4,267	1,491	2,735	438	4,664	28,739
July	79	163	171	413	1,439	2,695	344	4,478	1,518	2,858	515	4,891	29,140
August	67	165	144	376	1,448	2,735	379	4,562	1,515	2,900	523	4,938	28,942
September	52 80	166 243	164	382 496	1,488	2,667	355 373	4,510	1,540	2,833 3.084	519 546	4,892	28,960 31.505
October November	97	192	173 160	496	1,549 1,361	2,841 2.418	334	4,763 4,113	1,629 1,458	2,610	494	5,259 4,562	29,276
December	67	172	132	371	1,206	2,410	313	3,715	1,273	2,368	445	4.086	26,222
Total	897	2,345	1,715	4,957	15,736	29,901	3,708	49,345	16,633	32,246	5,423	54,302	334,141
2009 January	80	171	99	350	1,192	2,253	250	3,695	1,272	2,424	349	4,045	28,077
February March	62 59	125 146	88 88	275 293	991 867	1,925 1,771	195 210	3,111 2,848	1,053 926	2,050 1,917	283 298	3,386 3,141	25,440 25,304
April	36	68	93	197	755	1,396	205	2,356	791	1,464	298	2,553	21,406
May	47	90	80	217	584	1,136	156	1,876	631	1,226	236	2,093	20,055
June	44	91	75	210	804	1,297	189	2,290	848	1,388	264	2,500	16,301
July	40	100	101	241	789	1,188	217	2,194	829	1,288	318	2,435	13,543
August	49 61	84 71	88 96	221 228	867 945	1,372 1,170	207 207	2,446 2,322	916 1,006	1,456 1,241	295 303	2,667 2,550	15,970 15,547
September October	55	71	78	212	966	1,170	222	2,355	1,000	1,241	300	2,567	17,261
November	38	83	85	206	931	1,133	199	2,263	969	1,216	284	2,469	16,236
December	34	98	84	216	894	1,074	213	2,181	928	1,172	297	2,397	16,424
Total	605	1,206	1,055	2,866	10,585	16,882	2,470	29,937	11,190	18,088	3,525	32,803	231,562
2010 January February	55 44	91 71	81 67	227 182	898 871	1,264 1.096	169 144	2,331 2,111	953 915	1,355 1.167	250 211	2,558 2,293	15,304 16.862
March	59	85	88	232	1,062	1,224	216	2,502	1,121	1,309	304	2,734	15,102
April	49	78	77	204	1,173	1,152	249	2,574	1,222	1,230	326	2,778	17,904
May	48	107	86	241	1,282	1,208	255	2,745	1,330	1,315	341	2,986	17,987
June	61	100	90	251	1,385	1,250	302	2,937	1,446	1,350	392	3,188	19,408
July	46	103	105	254 254	1,386	1,443 1,402	390	3,219	1,432 1,490	1,546	495 408	3,473 3,404	20,847 22,923
August September	56 57	104 73	94 88	254 218	1,434 1,374	1,402 1,358	314 268	3,150 3,000	1,490 1,431	1,506 1,431	408 356	3,404	22,923
October	75	87	117	279	1,502	1,463	283	3,248	1,577	1,550	400	3,527	22,123
November	62	114	103	279	1,400	1,352	263	3,015	1,462	1,466	366	3,294	24,561
December	57	92	70	219	1,317	1,379	243	2,939	1,374	1,471	313	3,158	23,189
Total	669	1,105	1,066	2,840	15,084	15,591	3,096	33,771	15,753	16,696	4,162	36,611	239,247

Notes: • Data are estimates. • For 1960–1969, data are for well completion reports received by the American Petroleum Institute during the reporting year; for all other years, data are for well completions in a given year. • Through 1989, 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. Beginning in 1990, a new well is defined as the first hole in the ground whether it is lateral or not. Due to the methodology used to estimate ultimate well counts from the available partially reported data, the counts shown on this page are frequently revised. See Note, "Crude Oil and

Natural Gas Exploratory and Development Wells," at end of section. \bullet Geographic coverage is the 50 states and the District of Columbia.

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

beginning in 1973.
Sources:

1949–1965: Gulf Publishing Company, World Oil,
"Forecast-Review" issue.

1966–1969: American Petroleum Institute (API),
Quarterly Review of Drilling Statistics for the United States, annual summaries and
monthly reports.

1970–1989: U.S. Energy Information Administration (EIA)
computations based on well reports submitted to the API.

1990 forward: EIA

Selected years of data from 1949 through 1972 have been added to this table. For all years of data from 1949 through 2010, see the "Web Page" cited above.

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

Crude Oil and Natural Gas Resource Development

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

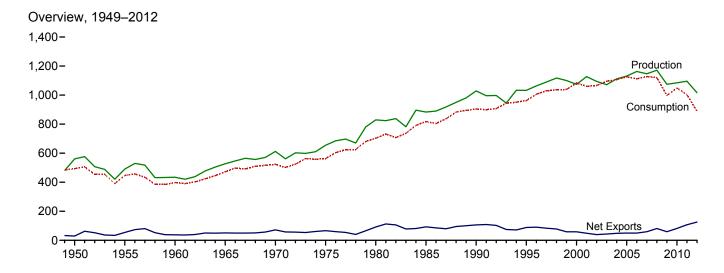
Prior to the March 1985 MER, drilling statistics consisted of

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

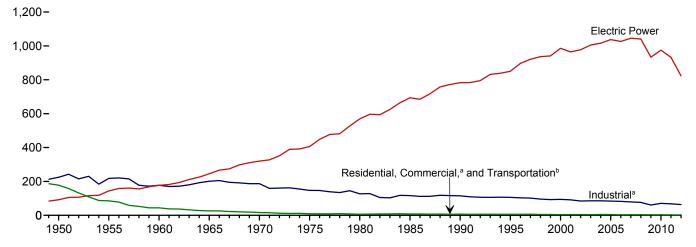
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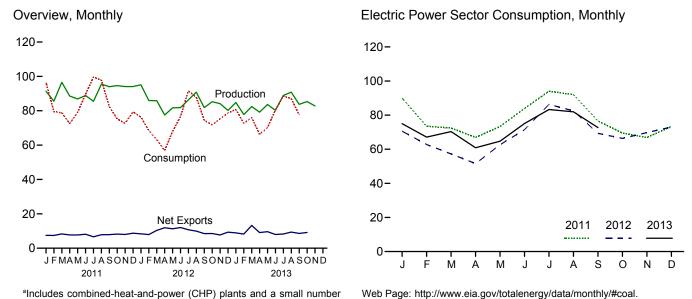
6. Coal

Figure 6.1 Coal (Million Short Tons)



Consumption by Sector, 1949-2012





of electricity-only-plants.

^bFor 1978 forward, small amounts of transportation sector use are included in "Industrial."

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

Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste Coal		Trade		Stock	Losses and Unaccounted	
	Production ^a	Supplied ^b	Imports	Exports	Net Imports ^c	Change ^{d,e}	for ^{e,f}	Consumption
1950 Total	560.388	NA	365	29.360	-28.995	27.829	9.462	494.102
1955 Total	490,838	NA	337	54,429	-54.092	-3,974	-6.292	447.012
1960 Total	434,329	NA	262	37,981	-37,719	-3,194	1,722	398,081
1965 Total	526,954	NA	184	51,032	-50,848	1,897	2,244	471,965
1970 Total	612,661	NA	36	71,733	-71,697	11,100	6,633	523,231
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 9,473	105,804 88.547	-103,104 -79.074	26,542 -275	-1,730 632	904,498 962.104
1995 Total	1,032,974 1,073,612	8,561 9.089	12,513	58.489	-79,074 -45.976	-275 -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 Total	1,074,923	13,666	22,639	59,097	-36,458	39,668	14,985	997,478
2010 Total	1,084,368	13,651	19,353	81,716	-62,363	-13,039	182	1,048,514
2011 January	91,355	1,182	1,014	8,509	-7,496	-11,679	418	96,303
February	85,575	1,046	843 1.524	8,275	-7,432	-3,306 3.991	2,917	79,577
March April	96,548 88,563	1,126 996	1,524	9,832 8,843	-8,308 -7,706	3,991 8,966	6,608 390	78,767 72,497
May	86.850	910	1,313	9.042	-7,700	2.393	-1.461	72,497
June	88.878	1.162	970	9,042	-7,730 -8.132	-9.803	2.060	89.652
July	85,498	1,202	1,208	7.865	-6.657	-15.788	-3.788	99,618
August	95,495	1,181	1,545	9,387	-7,843	-10,739	1,809	97,762
September	94,013	1,117	835	8,723	-7,888	5,015	-113	82,341
October	94,643	1,078	917	9,159	-8,242	13,552	-1,334	75,261
November	94,109	1,133	807	8,808	-8,001	11,911	2,623	72,707
December	94,101	1,076	976	9,713	-8,737	5,698	1,377	79,365
Total	1,095,628	13,209	13,088	107,259	-94,171	211	11,506	1,002,948
2012 January	R 95,102	R 1,104	789	9,126	-8,337	R 3,832	R 7,745	R 76,292
February	R 85,914	R 926	534	8,460	-7,927	R 7,905	R 2,542	R 68,466
March	R 85,849	R 863	699	11,055	-10,356	R 9,618	R 3,663	R 63,075
April	^R 77,514 ^R 81.717	^R 681 ^R 892	623 986	12,529	-11,905	^R 7,132 ^R 419	R 2,260 R 2,905	^R 56,899 ^R 68,015
May June	R 81,816	R 926	719	12,257 12,749	-11,271 -12,030	R -5,461	R -469	R 76,642
July	86,321	R 1,058	894	11,623	-10,729	R -15,082	R 145	R 91,588
August	90.816	R 1,039	667	10,597	-9,930	R -6,905	R 912	^R 87,919
September	81,818	R 885	855	9,344	-8,489	R 2,352	R -2,615	R 74,477
October	85,239	R 796	868	9,421	-8.554	R 3.999	R 1,709	R 71,774
November		R 1,090	798	8,516	-7,718	R 1,639	^R 562	R 75,319
December	80 205	R 934	727	10,068	-9,341	R -2,545	R -4,377	R 78,721
Total		^R 11,196	9,159	125,746	-116,586	^R 6,902	R 14,980	R 889,185
2013 January	84,828	974	654	9,572	-8,917	R -6,615	R 2,767	80,732
February	77,766	912	385	8,627	-8,242	-5,952	3,722	72,667
March	82,464	1,101	390	13,637	-13,247	-5,677	-72	76,068
April	79,207	706	672	9,754	-9,082	R 1,188	R 3,394	66,249
May	83,664	983	870	10,478	-9,608 7,084	R 6,191	R -1,299	70,147
June	80,234	981 F4.060	1,213	9,194	-7,981	R -8,501	R 1,278	80,458
July	88,909	F 1,069 F 1,069	874 710	9,125 10,073	-8,251 -9,363	^R -8,620 ^R -7,048	R 1,783 R 2,462	88,563 87,122
August	90,830 83,770	RF 1,043	710 815	10,073 9.391	-9,363 -8,576	R -2.323	R 890	R 77,670
September October	85,325	NA	R 707	^R 9,855	-6,576 R -9,148	NA	NA	77,670 NA
November	82,815	NA NA	NA	NA	NA	NA NA	NA NA	NA NA
11-Month Total	919,812	NA	NA	NA	NA	NA	NA	NA
2012 11-Month Total 2011 11-Month Total	936,253 1,001,526	10,261 12.133	8,432 12,112	115,677 97,546	-107,246 -85.434	9,447 -5.487	19,357 10,129	810,464 923,583

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

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

the 50 states and the District of Columbia.

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

recaptured from a refuse mine and cleaned to reduce the concentration of noncombustible materials).

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

[&]quot;Consumption."

C Net imports equal imports minus exports. A minus sign indicates exports are greater than imports.

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

an increase. See Table 6.3 for stocks data coverage.

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

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

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

					End-l	Jse Sector	s					
			Commerc	ial			Industrial					
	Resi-				Coke	0	ther Industri	al		Trans-	Electric Power	
	dential	CHPa	Other ^b	Total	Plants	CHPC	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1950 Total 1955 Total	51,562 35,590	(g)	63,021 32,852	63,021 32,852	104,014 107,743	{ h }	120,623 110,096	120,623 110,096	224,637 217,839	63,011 16,972	91,871 143,759	494,102 447,012
1960 Total	24,159	(9)	16,789	16,789	81,385	}h{	96,017	96,017	177,402	3,046	176,685	398,081
1965 Total	14,635	(g)	11,041	11,041	95,286	(h)	105,560	105,560	200,846	655	244,788	471,965
1970 Total	9,024	(9) (9)	7,090	7,090	96,481	(h)	90,156	90,156	186,637	298 24	320,182	523,231
1975 Total 1980 Total	2,823 1,355	(9)	6,587 5,097	6,587 5,097	83,598 66,657	(h)	63,646 60,347	63,646 60,347	147,244 127,004	(h) 24	405,962 569,274	562,640 702,730
1985 Total	1,711	(g)	6,068	6,068	41,056	(h)	75,372	75,372	116,429	(h)	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)	f 782,567	904,498
1995 Total 2000 Total	755 454	1,419 1,547	3,633 2,126	5,052 3,673	33,011 28,939	29,363 28,031	43,693 37,177	73,055 65,208	106,067 94,147	\;\;\	850,230 985,821	962,104 1,084,095
2001 Total	481	1,448	2,441	3,888	26,075	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 2004 Total	551 512	1,816 1.917	1,869 2.693	3,685 4.610	24,248 23,670	24,846 26.613	36,415 35,582	61,261 62,195	85,509 85,865	(h)	1,005,116 1,016,268	1,094,861 1,107,255
2005 Total	378	1,922	2,093	4,342	23,434	25,875	34,465	60,340	83,774	Ìhί	1,010,200	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 2009 Total	};}	2,021 1,798	1,485 1,412	3,506 3,210	22,070 15,326	21,902 19,766	32,491 25,549	54,393 45,314	76,463 60,641	}h{	1,040,580 933,627	1,120,548 997,478
2010 Total	(i)	1,720	1,361	3,081	21,092	24,638	24,650	49,289	70,381	(h)	975,052	1,048,514
2011 January	(i) (i)	189 173	176 161	364 335	1,746 1,623	2,082 1,800	2,090 2,345	4,172 4,145	5,917	(h)	90,021 73,474	96,303
February March	(1)	164	153	317	1,819	1,800	2,343	4,143	5,769 5,991	\h\	72,458	79,577 78,767
April	λií	124	86	210	1,668	1,787	1,902	3,689	5,357	(h)	66,930	72,497
May	(;)	124	87	211	1,878	1,836	1,836	3,672	5,550	(h)	73,338	79,098
June	(;)	130 145	91 48	222 193	1,846 1.670	1,843 1,946	1,833 1,772	3,676 3,718	5,522 5,388	('')	83,908 94,037	89,652 99,618
July August	}i{	129	43	172	1,863	1,940	1,772	3,715	5,578	} h {	92,012	97,762
September	(į)	122	41	163	1,874	1,788	1,947	3,735	5,609	(h)	76,569	82,341
October	(¦)	110	72	182	1,784	1,748	2,088	3,836	5,621	(h)	69,458	75,261
November December	(i) (i)	117 139	77 91	194 230	1,772 1,891	1,712 1,923	2,110 1,962	3,822 3,885	5,594 5,776	(ii)	66,919 73,359	72,707 79,365
Total	(i)	1,668	1,125	2,793	21,434	22,319	23,919	46,238	67,671	(h)	932,484	1,002,948
2012 January	(i)	^R 155 ^R 135	^R 100 ^R 87	R 256 222	1,701 1,687	R 2,015 R 1,832	^R 1,726 ^R 1,921	R 3,741 R 3,753	^R 5,442 ^R 5,440	(h)	^R 70,594 ^R 62,804	^R 76,292 ^R 68,466
February March	} i {	R 128	R 82	R 210	1,895	R 1,684	2,020	R 3,704	R 5,599	\ h \	R 57,266	R 63,075
April	(į)	R 102	R 30	R 132	1,783	R 1,481	R 1,910	R 3,391	R 5,173	(h)	R 51,593	R 56,899
May	(i)	R 108	R 32 R 32	R 141	1,857	R 1,563	R 1,807	R 3,370	R 5,226	(h) (h)	R 62,648	R 68,015
June July	(;)	R 109 R 120	R 16	^R 141 ^R 136	1,657 1,676	R 1,553 R 1,712	^R 1,811 ^R 1,781	R 3,365 R 3,493	^R 5,021 ^R 5,169	(ii)	R 71,480 R 86,283	R 76,642 R 91,588
August	(1)	R 120	R 16	R 136	1,816	R 1,703	R 1,780	R 3,483	R 5,299	(h)	R 82,484	R 87,919
September	(;)	R 107	R 14	R 121	1,552	R 1,535	R 1,960	R 3,495	R 5,047	(h)	R 69,309	R 74,477
October November	(i)	^R 101 ^R 124	^R 51 ^R 62	^R 152 ^R 186	1,647 1,715	R 1,587 R 1.649	R 2,045 R 2,030	R 3,632 R 3,679	^R 5,279 ^R 5,393	(n)	R 66,343 R 69,740	^R 71,774 ^R 75,319
December	λiś	R 141	^R 71	R 212	1,766	R 1,751	R 1,982	R 3,734	R 5,500	ìhί	R 73,009	R 78,721
Total	(1)	R 1,450	R 595	2,045	20,751	R 20,065	R 22,773	R 42,838	R 63,589	(h)	R 823,551	R 889,185
2013 January February	(i) (i)	153 144	84 79	237 223	1,825 1,644	1,760 1,626	1,942 2,087	3,702 3,713	5,527 5,358	(h)	74,968 67,086	80,732 72,667
March	(1)	144	77	218	1,810	1,626	1,990	3,685	5,495	\h \	70,355	76,068
April	(!)	114	17	131	1,817	1,509	1,934	3,443	5,259	(h)	60,859	66,249
May	(i)	120	18	138	1,868	1,564	1,886	3,450	5,318	(h) (h)	64,692	70,147
June July	λií	111 110	17 F 30	128 <u>F</u> 140	1,787 <u>F</u> 1,821	1,554 1,640	1,893 F 1,667	3,447 F 3.307	5,234 ⁵ 5,128	('')	75,096 83,295	80,458 88.563
August	} i {	111	F 34	⁺ 145	F 1.831	1,574	⁻ 1.623	F 3.197	F 5.028	\h \	81,949	87,122
September	(;)	106	F 39	⁺ 145	^F 1,603	1,539	⁺ 1,683	F 3,222	F 4,825	(h)	72,699	77,670
9-Month Total	(†)	1,111	[⊥] 395	E 1,507	E 16,007	14,461	¹ 16,704	^E 31,165	E 47,172	(h)	650,998	699,676
2012 9-Month Total 2011 9-Month Total	(i) (i)	1,084 1,301	410 886	1,495 2,187	15,623 15,987	15,078 16,935	16,716 17,759	31,794 34,694	47,417 50,681	(^h) (^h)	614,460 722,748	663,372 775,616

 ^a Commercial combined-heat-and-power (CHP) and a small number of commercial electricity-only plants, such as those at hospitals and universities.
 See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 ^b All commercial sector fuel use other than that in "Commercial CHP."
 ^c Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants. See Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 ^d All industrial sector fuel use other than that in "Coke Plants" and "Industrial CHP."

CHP."

^e The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is

to sell electricity, or electricity and heat, to the public.

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

g Included in "Commercial Other."

h Included in "Industrial Non-CHP."

h Included in "Industrial Non-CHP."
i Beginning in 2008, residential coal consumption data are no longer collected by the U.S. Energy Information Administration (EIA).
R=Revised. E=Estimate. F=Forecast.
Notes: • CHP monthly values are from Table 7.4c; electric power sector monthly values are from Table 7.4b; all other monthly values are estimates derived from collected quarterly and annual data. See Note 2, "Coal Consumption," at end of section. • Data values preceded by "F" are derived from EIA's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 states and the District of Columbia.
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#coal (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: See end of section.

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

			E	nd-Use Sectors				
	Producers and	Residential ^a		Industrial			Electric Power	
	Distributors	Commercial	Coke Plants	Otherb	Total	Total	Sector ^{c,d}	Total
950 Year	NA	2,462	16,809	26,182	42,991	45,453	31,842	77,295
955 Year	NA	998	13,422	15,880	29,302	30,300	41,391	71,691
960 Year	NA NA	666	11,122	11,637	22,759	23,425	51,735	75,160
965 Year	NA NA	353	10,640	13,122	23,762	24,115	54,525	78,640
970 Year	NA	300	9,045	11,781	20,826	21,126	71,908	93,034
975 Year	12,108	233	8,797	8,529	17,326	17,559	110,724	140,391
980 Year	24,379	NA	9,067	11,951	21,018	21,018	183,010	228,407
985 Year	33,133	NA NA	3.420	10,438	13.857	13.857	156,376	203.367
990 Year	33,418	NA NA	3,329	8,716	12,044	12,044	156,166	201,629
995 Year	34,444	NA NA	2,632	5.702	8,334	8,334	126,304	169.083
000 Year	31,905	NA NA	1,494	4,587	6,081	6,081	d 102,296	140,282
001 Year	35,900	NA NA	1,510	6,006	7,516	7,516	138,496	181,912
	43,257		1,364	5,792	7,156	7,156	141,714	192,127
002 Year	43,257 38.277	NA NA	905		7,156 5.623	7,156 5.623	141,714	192,127
003 Year				4,718				
004 Year	41,151	NA	1,344	4,842	6,186	6,186	106,669	154,006
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	186,946
007 Year	33,977	NA	1,936	5,624	7,560	7,560	151,221	192,758
008 Year	34,688	498	2,331	6,007	8,338	8,836	161,589	205,112
009 Year	47,718	529	1,957	5,109	7,066	7,595	189,467	244,780
010 Year	49,820	552	1,925	4,525	6,451	7,003	174,917	231,740
011 January	48,709	536	1,937	4,305	6,241	6,777	164,575	220,061
February	49,140	520	1,948	4,084	6,032	6,552	161,064	216,755
March	48,165	503	1,959	3,864	5,823	6,326	166,255	220,746
April	49,852	505	1,958	3,969	5,927	6,433	173,427	229,712
May	51,473	508	1,957	4,075	6,032	6,539	174,093	232,105
June	50,507	510	1,956	4,181	6,136	6,646	165,149	222,302
July	52,420	513	2.082	4,203	6,285	6,798	147,296	206.514
August	50,287	515	2,221	4,225	6,446	6,961	138,527	195,775
September	49,909	518	2,405	4,247	6,652	7,170	143,711	200,790
October	50,810	546	2,473	4,316	6,790	7,336	156,196	214,342
November	50,997	575	2,541	4,386	6,927	7,502	167,754	226,253
December	51,897	603	2,610	4,455	7,065	7,668	172,387	231,951
M0 I	R 40 040	507	0.507	R 4,280	^R 6,786	^R 7,374	R 400 004	R 235,783
012 January	R 48,318	587	2,507	R 4,104			R 180,091	
February	R 49,743	572	2,403		R 6,508	R 7,080	R 186,866	R 243,688
March	R 51,141	557	2,300	R 3,929	R 6,229	R 6,786	R 195,380	R 253,307
April	R 51,283	566	2,299	R 4,025	R 6,324	R 6,890	R 202,265	R 260,439
May	R 50,726	575	2,297	R 4,122	R 6,419	R 6,995	R 203,137	R 260,858
June	R 50,374	585	2,295	R 4,219	R 6,514	R 7,099	R 197,924	R 255,397
July	R 49,120	589	2,329	R 4,318	R 6,647	R 7,236	R 183,958	R 240,314
August	R 47,499	592	2,363	R 4,418	R 6,781	R 7,373	R 178,537	R 233,409
September	R 46,231	596	2,396	^R 4,518	^R 6,914	^R 7,510	R 182,020	R 235,761
October	R 45,830	592	2,438	R 4,504	R 6,942	^R 7,534	R 186,396	R 239,760
November	R 45,550	587	2,480	R 4,489	^R 6,970	^R 7,557	^R 188,291	R 241,398
December	^R 46,157	583	2,522	^R 4,475	^R 6,997	^R 7,581	R 185,116	R 238,853
013 January	RF 44,632	565	2,417	4,305	6,722	7,288	180,318	R 232,238
February	^{RF} 42,087	548	2,312	4,132	6,444	6,991	177,208	R 226,286
March	RF 40,673	530	2,207	3,958	6,165	6,695	173,241	R 220,609
April	RF 41.922	529	2,305	3,963	6,267	6,797	173,078	R 221,797
May	RF 43,112	529	2.402	3,967	6,370	6,899	177,977	R 227,988
	RF 41,735	528	2,500	3,972	6,472	7,000	170,751	R 219,487
			2,000				110,101	
June	RF 43 263	F 520	F 2 158	F / 212	F 6 671	F 7 201	160 403	R 210 867
July August	RF 43,263 RF 40,782	^F 530 ^F 531	^F 2,458 ^F 2.418	^F 4,213 ^F 4,448	^F 6,671 ^F 6,866	^F 7,201 ^F 7,397	160,403 155,640	R 210,867 R 203,819

 ^a Through 1979, data are for the residential and commercial sectors. Beginning in 2008, data are for the commercial sector only.
 ^b Through 1979, data are for manufacturing plants and the transportation sector.

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

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

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

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

Sources: See end of section.

b Through 1979, data are for manufacturing plants and the transportation sector. For 1980–2007, data are for manufacturing plants only. Beginning in 2008, data are for manufacturing plants and coal transformation/processing plants.
c The electric power sector comprises electricity-only and combined-heat-and-

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

electricity, or electricity and heat, to the public.

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

Coal

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

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

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 explained data and is http://www.eia.gov/coal/production/weekly/. Initial estimates of annual production published in January of the following year are based on preliminary production data covering the first nine months (three quarters) and weekly/monthly estimates for the fourth quarter. All quarterly, monthly, and weekly production figures are adjusted to conform to the final annual production data published in the *Monthly Energy Review* in the fall of the following year.

Note 2. Coal Consumption. Forecast data (designated by an "F") are derived from forecasted values shown in EIA's *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply 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—Through 2007, coal consumption by the residential and commercial sectors is reported to EIA for the two sectors combined; EIA estimates the amount consumed by the sectors individually. To create the estimates, it is first assumed that an occupied coal-heated housing unit consumes fuel at the same Btu rate as an oilheated housing unit. Then, for the years in which data are available on the number of occupied housing units by heating source (1973-1981 and subsequent odd-numbered years), residential consumption of coal is estimated using the following steps: a ratio is created of the number of occupied housing units heated by coal to the number of occupied housing units heated by oil; that ratio is then multiplied by the Btu quantity of oil consumed by the residential sector to derive an estimate of the Btu quantity of coal consumed by the residential sector; and, finally, the amount estimated as the residential sector consumption is subtracted from the residential and commercial sectors' combined consumption to derive the commercial sector's estimated consumption. Beginning in 2008, residential coal consumption data are not collected by EIA, and commercial coal consumption data are taken directly from reported data.

Industrial Coke Plants—Through 1979, monthly coke plant consumption data were taken directly from reported data. For 1980–1987, coke plant consumption estimates were derived by proportioning reported quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979, the last year in which monthly data were reported. Beginning in 1988, monthly coke plant consumption estimates are derived from the reported quarterly data by using monthly ratios of raw steel production data from the American Iron and Steel Institute. The ratios are the monthly raw steel production from open hearth and basic oxygen process furnaces as a proportion of the quarterly production from those kinds of furnaces.

Industrial Other—Through 1977, monthly consumption data for the other industrial sector (all industrial users minus coke plants) were derived by using reported data to modify baseline consumption figures from the most recent 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 1988, monthly consumption for the other industrial sector is estimated from reported quarterly data by using ratios derived from industrial production indices published by the Board of Governors of the Federal Reserve System. Indices for six major industry groups are used as the basis for calculating the ratios: food manufacturing, which is North American Industry Classification System (NAICS) code 311; paper manufacturing, NAICS

322; chemical manufacturing, NAICS 325; petroleum and coal products, NAICS 324; non-metallic mineral products manufacturing, NAICS 327; and primary metal manufacturing, NAICS 331. The monthly ratios are computed as the monthly sum of the weighted indices as a proportion of the quarterly sum of the weighted indices by using the 1977 proportion as the weights. Through 2007, quarterly consumption data for the other industrial sector were derived by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts are the greater of either reported receipts from manufacturing plants (Form EIA-3) or reported shipments to the other industrial sector (Form EIA-6), thereby ensuring that agriculture, forestry, fishing, and construction consumption data were included where appropriate. Beginning in 2008, quarterly consumption totals for other industrial coal include data for manufacturing and mining only. Over time, surveyed coal consumption data for agriculture, forestry, fishing, and construction dwindled to about 20-30 thousand short tons annually. Therefore, in 2008, EIA consolidated its programs by eliminating agriculture. forestry, fishing, and construction as surveyed sectors.

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

Note 3. Coal Stocks. Coal stocks data are reported by major end-use sector. Forecast data for the most recent months (designated by an "F") are derived from forecasted values shown in EIA's *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply 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—Through 1997, quarterly stocks at producers and distributors were taken directly from reported data. Monthly data were estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Beginning in 1998, end-of-year stocks are taken from reported data. Monthly stocks are estimated by a model.

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

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

change in stocks. Quarterly stocks are taken directly from data reported on Form EIA-5.

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

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

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

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

Table 6.1 Sources

Production

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

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

Waste Coal Supplied

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

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

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

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

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

Stock Change

1950 forward: Calculated from data in Table 6.3.

Losses and Unaccounted for

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

Consumption

1949 forward: Table 6.2.

Table 6.2 Sources

Residential and Commercial Total

Through 2007, coal consumption by the residential and commercial sectors combined is reported to the U.S. Energy Information Administration (EIA). EIA estimates the sectors individually using the method described in Note 2, "Consumption," at the end of Section 6. Data for the residential and commercial sectors combined are from:

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

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

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

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

Commercial Total

Beginning in 2008, coal consumption by the commercial (excluding residential) sector is reported to EIA. Data for total commercial consumption are from:

2008 forward: EIA, Form EIA-3, "Quarterly 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

1989 forward: Table 7.4c.

Commercial Other

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

Industrial Coke Plants

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

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

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

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

Other Industrial Total

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

October 1977–1979: EIA, Form EIA-3, "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

1989 forward: Table 7.4c.

Other Industrial Non-CHP

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

Transportation

1949–1976: DOI, BOM, Minerals Yearbook.

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

Electric Power

1949 forward: Table 7.4b.

Table 6.3 Sources

Producers and Distributors

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

1980–1997: U.S. Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report," quarterly. 1998–2007: EIA, Form EIA-6A, "Coal Distribution Report," annual.

2008 forward: EIA, Form EIA-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

1949–1976: DOI, BOM, Minerals Yearbook.

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

2008 forward: EIA, Form EIA-3, "Quarterly 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

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

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

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

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

Industrial Other

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

October 1977–1979: 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.

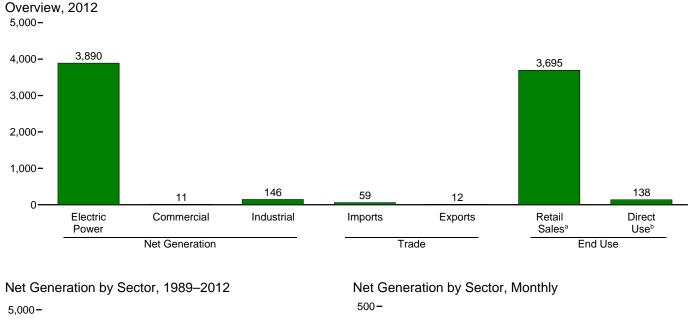
Electric Power

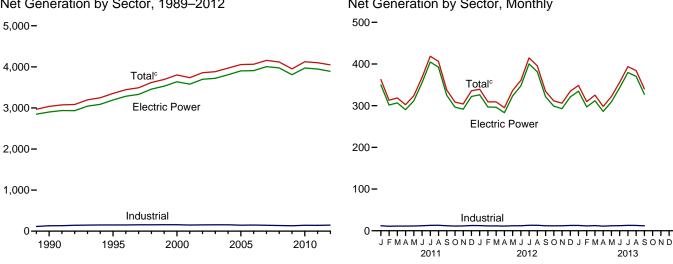
1949 forward: Table 7.5.

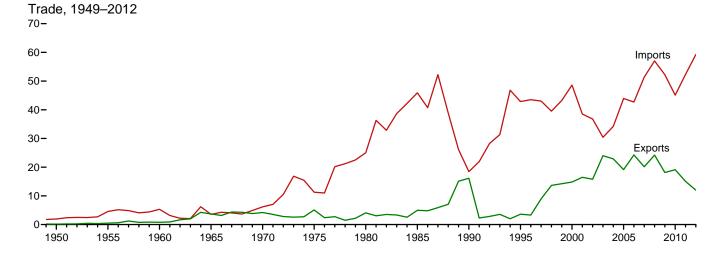
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7. Electricity

Figure 7.1 Electricity Overview (Billion Kilowatthours)







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

^b See "Direct Use" in Glossary.

[°] Includes commercial sector. Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Source: Table 7.1.

Table 7.1 **Electricity Overview**

(Billion Kilowatthours)

	Net Generation Electric Com- Indus-					Trade		TOD	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 ⁹	Direct Use ^h	Total
1950 Total	329 547 756	NA NA NA	5 3 4	334 550 759	2 5 5	(s) (s)	2 4 5	44 58 76	291 497 688	NA NA NA	291 497 688
1960 Total	1,055	NA	3	1,058	4	4	(s)	104	954	NA	954
1970 Total 1975 Total	1,532 1,918	NA NA	3 3	1,535 1,921	6 11	4 5	2 6	145 180	1,392 1,747	NA NA	1,392 1,747
1980 Total	2,286 2,470	NA NA	3 3	2,290 2,473	25 46	4 5	21 41	216 190	2,094 2,324	NA NA	2,094 2,324
1990 Total	2,901 3,194	6 8	^c 131 151	3,038 3,353	18 43	16 4	2 39	203 229	2,713 3,013	125 151	2,837 3,164
1995 Total 2000 Total	3,638	8	157	3,802	49	15	34	244	3,421	171	3,592
2001 Total 2002 Total	3,580 3,698	7 7	149 153	3,737 3,858	39 37	16 16	22 21	202 248	3,394 3,465	163 166	3,557 3,632
2003 Total	3,721	7	155	3,883	30	24	6	228	3,494	168	3,662
2004 Total 2005 Total	3,808 3,902	8 8	154 145	3,971 4,055	34 44	23 19	11 25	266 269	3,547 3,661	168 150	3,716 3,811
2006 Total	3,908 4,005	8	148 143	4,065 4,157	43 51	24 20	18 31	266 298	3,670 3,765	147 126	3,817 3,890
2007 Total 2008 Total	3,974	8	137	4,119	57	24	33	287	3,733	132	3,865
2009 Total 2010 Total	3,810 3,972	8 9	132 144	3,950 4,125	52 45	18 19	34 26	261 265	3,597 3,754	127 132	3,724 3,886
2011 January	350	1	12	363	4	2	3	20	334	E 11	345
February March	302 307	1 1	11 11	313 319	4 4	2 2	2 2	^R 8 19	297 292	E 10 E 10	307 302
April	291	1	11	302	4	2	2	19	275	E 10	286
May June	311 355	1 1	11 12	324 368	5 4	1	4 3	29 31	288 329	E 11 E 11	299 340
July	405	1	13	419	6	1	5	41	371	E 12	383
August September	392 325	1 1	13 12	407 338	6 4	1 1	5 3	26 R 3	373 326	E 12 E 11	385 337
October November	297 292	1 1	11 12	309 304	4 3	1 1	3 2	13 20	288 275	E 11 E 11	299 286
December	322	1	13	336	4	1	3	R 25	302	E 12	314
Total	R 3,948	10	142	^R 4,100	52	15	37	255	3,750	133	3,883
2012 January February	^R 326 ^R 297	1 1	12 12	^R 340 ^R 309	4 4	1 1	3 3	^R 20 ^R 14	311 ^R 287	E 12 E 11	323 R 298
March	R 296	1	R 12	309 R 295	4	1	3	R 17 R 18	R 284	E 11 RE 11	R 295
April May	^R 283 ^R 324	1 1	11 12	^R 337	5 5	1 1	4 4	R 33	^R 271 ^R 297	E 11	281 R 308
June July	R 348 R 400	1 1	12 13	^R 361 ^R 415	5 7	1 1	4 6	^R 28 ^R 37	^R 325 ^R 371	E 11 RE 13	R 337 R 383
August	R 381	1	13	396	6	1	5	R 24	R 365	E 12	R 377
September October	322 299	1 1	12 12	335 312	5 4	1 1	4 4	R 13	318 ^R 291	E 11 E 11	329 R 302
November	293	1	12	306	5	1	4	R 20	R 278	E 11	R 290
Total	R 321 R 3,890	1 11	13 R 146	R 335 R 4,048	4 59	1 12	3 47	R 29 R 263	R 297 R 3,695	E 12 R 138	R 309 R 3,832
2013 January	335 297	1	13 12	349 310	5	1	4 4	23 14	317 289	E 12 E 11	R 330 300
February March	312	1	12	325	5 5	i	4	23	294	E 12	306
April May	286 309	1	11 12	298 322	5 5	1	3 5	16 29	275 286	E 10 E 11	285 297
June	343	1	12	356	6	i	5	32	317	E 11	329
July August	380 370	1 1	13 13	394 384	6 6	1 1	5 6	32 27	354 350	E 12 E 12	367 362
September	327	1	12	340	5	1	4	12	321	E 11	332
9-Month Total	2,960	8	110	3,078	49	8	40	211	2,805	E 103	2,908
2012 9-Month Total 2011 9-Month Total	2,977 3,038	9 8	109 106	3,096 3,152	46 41	9 12	36 29	200 196	2,828 2,885	E 103 E 100	2,932 2,984

^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

kilowatthours.

Notes: • See Note 1, "Coverage of Electricity Statistics," and Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section.
• Totals may not equal sum of components due to independent rounding.

are for electric utilities and independent power producers.

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

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

plants. Through 1988, data are for industrial hydroelectric power only.

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

exports.

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

l Data collection frame differences and nonsampling error.

g 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.

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

Totals may not equal sum or components due to independent rounding.
 Geographic coverage is the 50 states and the District of Columbia.
 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
 Sources: See end of section.

Figure 7.2 **Electricity Net Generation** (Billion Kilowatthours)

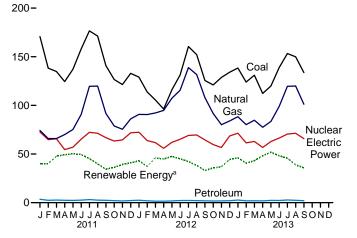
Total (All Sectors), Major Sources, 1949-2012

2,500-

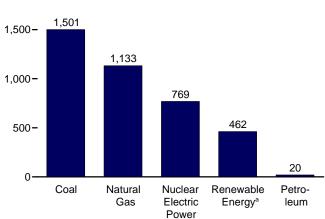
Coal 2.000-1,500-Natural Gas Renewable Energy^a 1,000-Nuclear Electric Power 500-Petroleum 1975 1995 1950 1955 1960 1965 1970 1980 1985 1990 2000 2005

2,000-

Total (All Sectors), Major Sources, Monthly

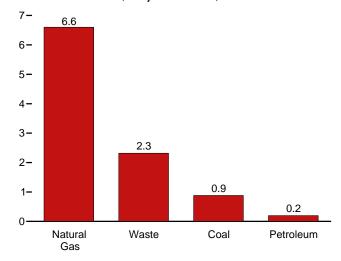


Electric Power Sector, Major Sources, 2012



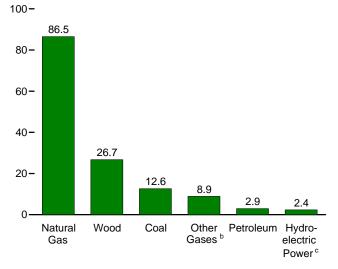
2010

Commercial Sector, Major Sources, 2012



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

Industrial Sector, Major Sources, 2012



^c Conventional hydroelectric power.

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

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

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

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

		Fossil	Fuels						Renewab	le Energy			
							Conven-	Bion	nass				
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	tional Hydro- electric Power ^f	Wood ^g	Waste ^h	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1950 Total 1955 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total	154,520 301,363 403,067 570,926 704,394 852,786 1,161,562	33,734 37,138 47,987 64,801 184,183 289,095 245,994	44,559 95,285 157,970 221,559 372,890 299,778 346,240	NA NA NA NA NA	0 518 3,657 21,804 172,505 251,116		100,885 116,236 149,440 196,984 250,957 303,153 279,182	390 276 140 269 136 18 275	NA NA NA NA 220 174 158	NA NA 33 189 525 3,246 5,073	NA NA NA NA NA	NA NA NA NA NA NA	334,088 550,299 759,156 1,058,386 1,535,111 1,920,755 2,289,600
1985 Total 1990 Total ^k 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2008 Total 2009 Total 2009 Total	1,594,011 1,709,426 1,966,265 1,903,956 1,933,130 1,973,737 1,978,301 2,012,873 1,990,511 2,016,456 1,985,801 1,755,904 1,847,290	100,202 126,460 74,554 111,221 124,880 94,567 119,406 121,145 122,225 64,166 65,739 46,243 38,937 37,061	291,946 372,765 496,058 601,038 639,129 691,006 649,908 710,100 816,441 896,590 812,981 920,979 987,697	NA 10,383 13,870 13,955 9,039 11,463 15,600 15,252 13,464 14,177 13,453 11,707 10,632 11,313	383,691 576,862 673,402 753,893 768,826 780,064 763,733 788,528 781,986 787,219 806,425 806,208 798,855 806,968	-3,508 -2,725 -5,539 -8,823 -8,743 -8,535 -8,488 -6,558 -6,558 -6,896 -6,288 -4,627 -5,501	284,311 292,866 310,833 275,573 216,961 264,329 275,806 268,417 270,321 289,246 247,510 254,831 273,445 260,203	743 32,522 36,521 37,595 35,200 38,665 37,529 38,117 38,856 38,762 39,014 37,300 36,050 37,172	640 13,260 20,405 23,131 14,548 15,044 15,812 15,421 15,420 16,525 17,734 18,443 18,917	9,325 15,434 13,374 14,093 13,741 14,491 14,491 14,692 14,568 14,637 14,840 15,009 15,219	11 367 497 493 543 555 534 575 550 612 864 891 1,212	6 2,789 3,164 5,593 6,737 10,354 11,187 14,144 17,811 26,589 34,450 55,363 73,886 94,652	2,473,002 3,037,827 3,853,487 3,802,105 3,736,644 3,858,452 3,883,185 3,970,555 4,055,423 4,056,742 4,156,745 4,119,388 3,950,331 4,125,060
February February March April May June July August September October November December Total	170,803 138,311 134,845 124,488 137,102 158,055 176,586 171,281 140,941 126,627 121,463 132,929 1,733,430	3,457 2,434 2,692 2,424 2,378 2,594 3,154 2,594 2,424 2,062 1,783 2,186 30,182	74,254 65,924 70,029 75,243 90,691 119,856 91,739 78,819 75,441 86,122 1,013,689	930 807 945 918 875 1,013 1,098 1,087 1,004 941 1,005 11,566	72,743 64,789 65,662 54,547 57,013 65,270 72,345 71,339 66,849 63,337 64,474 71,837 790,204	R -659 R -413 -349 -466 R -417 -567 -708 R -692 R -583 R -601 R -458 R -509	25,531 24,131 31,134 31,194 32,587 32,151 31,285 25,764 21,378 19,787 20,681 23,732 319,355	3,290 2,937 3,081 2,798 2,794 3,230 3,362 3,384 3,178 2,954 3,088 3,353 37,449	1,515 1,427 1,565 1,503 1,563 1,632 1,690 1,692 1,589 1,631 1,634 1,731	1,347 1,215 1,337 1,239 1,318 1,215 1,269 1,275 1,226 1,281 1,271 1,324	40 85 122 164 191 223 191 229 186 159 107 121 1,818	8,550 10,452 10,545 12,422 11,772 10,985 7,474 6,869 10,525 12,439 10,656 120,177	R 362,872 R 313,127 318,710 R 302,401 R 323,628 367,727 418,693 R 406,511 R 337,931 R 308,699 R 404,102 R 335,740
Page 2012 January	R 129,091 R 113,872 R 105,526 R 96,285 R 115,983 R 131,261 R 160,450 R 152,181 R 125,589 R 120,999 R 128,727 R 134,079	R 2,477 R 1,902 R 1,541 R 1,503 R 1,730 R 2,068 R 2,340 R 2,118 R 1,805 R 1,805 R 1,810 R 2,036	R 90,761 R 90,610 R 92,251 R 94,829 R 107,352 R 115,598 R 138,863 R 131,736 R 108,012 R 91,725 R 80,169 R 83,989	R 1,017 R 1,044 R 1,076 R 1,050 R 972 R 1,042 R 1,050 R 904 R 895 R 875 R 963 R 11,898	72,381 63,847 61,729 55,871 62,081 65,140 69,129 69,602 64,511 59,743 56,713 68,584 769,331	R -348 R -237 R -281 R -265 R -371 R -507 R -619 R -529 R -431 R -378 R -409 R -576	R 23,107 R 20,283 R 25,909 R 26,294 R 26,659 R 26,491 R 23,034 R 16,501 R 18,732 R 22,984	R 3,314 R 3,111 R 3,034 R 2,704 R 2,937 R 3,081 R 3,352 R 3,370 R 3,113 R 3,190 R 3,365 R 37,799	R 1,601 R 1,504 R 1,623 R 1,583 R 1,654 R 1,612 R 1,721 R 1,726 R 1,626 R 1,716 R 1,684 R 1,773 R 19,823	R1,263 R1,193 R1,285 R1,248 R1,304 R1,327 R1,321 R1,300 R1,329 R1,347 R1,390 R1,562	R 95 R 135 R 231 R 319 R 463 R 527 R 510 R 461 R 458 431 R 347 R 349	R 13,632 R 11,052 R 14,026 R 12,709 R 12,541 R 11,972 R 8,822 R 8,469 R 12,636 R 11,649 R 14,524 R 140,822	R 339,528 R 309,389 R 309,991 R 295,228 R 336,518 R 360,826 R 414,640 R 395,700 R 334,585 R 334,585 R 334,585 R 334,585 R 334,585 R 334,635
2013 January February March April May June July August September 9-Month Total	138,447 123,936 131,032 112,293 119,943 138,872 153,330 149,921 133,792 1,201,567	2,669 1,926 1,962 1,840 2,356 2,282 2,757 2,415 1,988 20,194	88,375 80,250 84,713 77,502 83,491 98,912 119,608 119,920 101,199 853,969	919 804 915 853 973 917 1,042 1,033 945 8,400	71,406 61,483 62,947 56,767 62,848 66,430 70,531 71,344 65,799 589,556	-442 -275 -358 -264 -326 -298 -306 -454 -389 -3,113	25,123 20,493 20,573 24,764 28,553 27,331 27,180 21,661 16,868 212,547	3,299 3,032 3,194 2,594 3,013 3,134 3,404 3,477 3,253 28,400	1,587 1,392 1,667 1,594 1,718 1,673 1,723 1,693 1,597	1,444 1,322 1,425 1,372 1,396 1,427 1,444 1,419 1,387	288 441 619 683 764 880 794 983 954 6,407	14,535 13,884 15,638 17,299 16,370 13,771 11,143 9,618 11,721 123,978	348,642 309,601 325,372 298,261 322,118 356,400 393,753 384,143 340,169 3,078,460
2012 9-Month Total 2011 9-Month Total	1,130,238 1,352,412	17,539 24,152	970,010 773,307	9,165 8,677	584,292 590,556	-3,587 -4,854	218,024 255,155	28,131 28,054	14,650 14,175	11,496 11,440	3,199 1,431	102,013 86,557	3,095,504 3,151,600

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

commercial plants, and industrial plants.
R=Revised. NA=Not available.
Notes: • See Note 1, "Coverage of Electricity Statistics," 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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

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

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, waste oil, and, beginning in 2011, propane.

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

d Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

e Pumped storage facility production minus energy used for pumping.

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

9 Wood and wood-derived fuels.

⁹ Wood and wood-derived fuels.

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

i Solar thermal and photovoltaic (PV) energy.

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

k Through 1988, all data except hydroelectric are for electric utilities only; hydroelectric data through 1988 include industrial plants as well as electric utilities. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

		Fossil											
		Petro-	Natural	Other	Nuclear Electric	Hydro- electric Pumped	Conven- tional Hydro- electric	Bior	nass	Geo-	Solar/		
	Coala	leum ^b	Gasc	Gases	Power	Storage	Powerf	Wood ^g	Wasteh	thermal	PV	Wind	Total ^j
1950 Total 1955 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total 1985 Total	154,520 301,363 403,067 570,926 704,394 852,786 1,161,562 1,402,128	33,734 37,138 47,987 64,801 184,183 289,095 245,994 100,202	44,559 95,285 157,970 221,559 372,890 299,778 346,240 291,946	NA NA NA NA NA NA	0 518 3,657 21,804 172,505 251,116 383,691	(f) (f) (f) (f) (f) (f) (f)	95,938 112,975 145,833 193,851 247,714 300,047 276,021 281,149	390 276 140 269 136 18 275 743	NA NA NA 220 174 158 640	NA NA 33 189 525 3,246 5,073 9,325	NA NA NA NA NA NA NA	NA NA NA NA NA NA	329,141 547,038 755,549 1,055,252 1,531,868 1,917,649 2,286,439 2,469,841
1990 Total* 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2008 Total 2008 Total 2009 Total 2009 Total	1,686,056 1,943,111 1,882,826 1,910,613 1,952,714 1,952,718 1,992,054 1,969,737 1,998,390 1,968,838 1,741,123 1,827,738	118,864 68,146 105,192 119,149 89,733 113,697 114,678 116,482 59,708 61,306 42,881 35,811 34,679	309,486 419,179 517,978 554,940 607,683 567,303 627,172 683,829 734,417 814,752 802,372 841,006 901,389	621 1,927 2,028 586 1,970 2,647 3,568 3,777 4,254 4,042 3,200 3,058 2,967	576,862 673,402 753,893 768,826 780,064 763,733 788,598 781,986 787,219 806,425 806,208 798,855 806,968	-3,508 -2,725 -5,539 -8,823 -8,743 -8,558 -6,558 -6,558 -6,896 -6,288 -4,627 -5,501	289,753 305,410 271,338 213,749 260,491 271,512 265,064 267,040 286,254 245,843 253,096 271,506 258,455	7,032 7,597 8,916 8,294 9,009 9,528 9,736 10,570 10,341 10,711 10,638 10,738	11,500 17,986 20,307 12,944 13,145 13,808 13,062 13,031 13,927 14,294 15,379 15,954 16,376	15,434 13,378 14,093 13,741 14,491 14,811 14,692 14,568 14,637 14,840 15,009 15,219	367 497 493 543 555 534 575 550 612 864 891 1,206	2,789 3,164 5,537 10,354 11,187 14,144 17,811 26,589 34,450 55,363 73,886 94,636	2,901,322 3,194,230 3,637,529 3,580,053 3,698,458 3,721,159 3,808,360 3,902,192 3,908,077 4,005,343 3,974,349 3,809,837 3,972,386
February February March April May June July August September October November December Total	169,390 137,082 133,584 123,272 135,820 156,716 175,129 169,798 139,648 125,442 120,323 131,686 1,717,891	3,229 2,255 2,526 2,257 2,218 2,438 3,006 2,449 2,272 1,894 1,632 2,025 28,202	66,932 59,380 59,362 63,257 68,175 83,426 111,502 111,540 84,300 71,962 68,262 78,193 926,290	243 207 252 244 242 259 262 264 252 240 227 247 2,939	72,743 64,789 65,662 54,547 57,013 65,270 72,345 71,339 66,849 63,337 64,474 71,837 790,204	R -659 R -413 -349 -466 R -417 -567 -708 R -692 R -583 R -601 R -458 R -509 R -6,421	25,386 23,970 30,945 31,008 32,386 31,999 31,173 25,666 21,254 19,660 20,533 23,552 317,531	981 886 897 705 760 936 1,048 1,038 916 807 800 959 10,733	1,247 1,180 1,299 1,251 1,296 1,365 1,413 1,407 1,319 1,354 1,403 1,455 15,989	1,347 1,215 1,337 1,239 1,318 1,215 1,269 1,275 1,226 1,281 1,271 1,324	37 81 116 155 181 210 181 218 177 151 103 117 1,727	8,547 10,448 10,540 12,417 11,767 10,981 7,471 6,865 10,519 12,431 10,649 120,121	R 350,001 R 301,632 306,808 290,519 R 311,403 354,929 404,802 R 392,441 R 325,113 R 296,676 R 291,639 R 322,225
2012 January	R 127,874 R 112,774 R 104,410 R 95,284 R 114,930 R 130,147 R 150,941 R 150,941 R 124,496 R 119,952 R 1,500,557	R 2,132 R1,672 R1,304 R1,287 R1,527 R1,840 R2,086 R1,821 R1,595 R1,555 R1,555 R1,737 R 20,072	R 83,122 R 83,308 R 85,001 R 87,748 R 99,625 R 107,685 R 130,133 R 123,160 R 100,267 R 84,207 R 72,601 R 75,934	R 263 R 256 R 261 R 254 R 244 R 253 R 266 R 266 R 232 R 225 R 211 R 253 R 2,984	72,381 63,847 61,729 55,871 62,081 65,140 69,129 69,602 64,511 59,743 56,713 68,584 769,331	R -348 R -237 R -281 R -265 R -371 R -507 R -619 R -529 R -431 R -378 R -409 R -576	R 22,830 R 20,041 R 25,672 R 26,113 R 28,427 R 26,482 R 26,352 R 22,880 R 16,306 R 18,518 R 22,795 R 273,859	R 971 R 912 R 892 R 716 R 813 R 935 R 1,047 R 1,060 R 949 R 876 R 911 R 968	R 1,353 R 1,250 R 1,353 R 1,317 R 1,386 R 1,444 R 1,432 R 1,362 R 1,442 R 1,369 R 1,478 R 1,478	R1,263 R1,193 R1,285 R1,248 R1,304 R1,304 R1,321 R1,300 R1,329 R1,347 R1,390 R1,3562	R 91 R 129 R 221 R 305 R 445 R 508 R 492 R 445 R 439 R 415 R 335 R 339	R 13,624 R 11,045 R 14,019 R 12,702 F 12,535 R 11,967 R 8,818 R 8,465 R 12,628 R 11,642 R 14,517	R 326,186 R 296,790 R 296,498 R 283,182 R 323,599 R 347,760 R 400,315 R 381,494 R 321,586 R 298,905 R 298,905 R 299,046 R 320,996
2013 January	137,301 122,808 129,859 111,270 118,791 137,672 152,041 148,747 132,680 1,191,169	2,433 1,786 1,764 1,645 2,131 2,083 2,539 2,204 1,811 18,396	80,113 72,832 76,762 70,376 75,890 91,172 111,373 111,796 93,672 783,987	221 176 195 207 245 261 296 292 286 2,179	71,406 61,483 62,947 56,767 62,848 66,430 70,531 71,344 65,799 589,556	-442 -275 -358 -264 -326 -298 -306 -454 -389 -3,113	24,776 20,118 20,273 24,508 28,228 27,030 26,863 21,421 16,636 209,854	937 841 913 612 832 872 1,015 1,095 992 8,109	1,306 1,140 1,372 1,320 1,438 1,380 1,418 1,378 1,295 12,048	1,444 1,322 1,425 1,372 1,396 1,427 1,444 1,419 1,387 12,637	282 425 596 656 733 846 766 947 923 6,174	14,526 13,875 15,628 17,288 16,360 13,762 11,135 9,611 11,713 123,899	334,889 297,059 312,006 286,342 309,215 343,298 379,774 370,434 327,400 2,960,417

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

for electric utilities and independent power producers.

R=Revised. 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. • See Note 1, "Coverage of Electricity Statistics," 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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973. Sources: See end of section.

<sup>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, waste oil, and, beginning in 2011, propane.
c Natural gas, plus a small amount of supplemental gaseous fuels.
d Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
e Pumped storage facility production minus energy used for pumping.
f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."
9 Wood and wood-derived fuels.</sup>

⁹ Wood and wood-derived fuels.

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

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.

R=Revised NA=Not available

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors

(Subset of Table 7.2a; Million Kilowatthours)

	Commercial Sector ^a						Industrial Sector ^b								
	Coalc	Petro- leum ^d	Natural Gas ^e	Biomass Waste ^f	Total ^g	Coalc	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	Hydro- electric Power ⁱ	Biomass				
											Wood ^j	Waste ^f	Total ^k		
1950 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,946	NA	NA	4,946		
1955 Total	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	3.261	NA	NA	3,261		
1960 Total	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	3,607	NA	NA	3,607		
1965 Total	NA	NA	NA	NA	NA NA	NA NA	NA	NA	NA	3.134	NA	NA	3,134		
1970 Total	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	3,244	NA	NA	3,244		
1975 Total	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	3,106	NA	NA	3,106		
1980 Total	NA	NA	NA	NA	NA	NA NA	NA	NA	NA	3.161	NA	NA	3,161		
1985 Total	NA	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		
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		
2002 Total	1.206	423	3.899	1,033	7,415	19.817	5,285	78,705	12,953	4,222	27,988	715	154,530		
2004 Total	1,200	499	3,969	1,562	8,270	19,773	5,967	78,959	11.684	3,248	28.367	713	153,925		
2005 Total	1,353	375	4,249	1,657	8,492	19,466	5,368	72,882	9,687	3,195	28,271	733	144,739		
2006 Total	1,333	235	4,355	1,599	8,371	19,464	4,223	77,669	9,923	2,899	28,400	572	144,739		
2000 Total	1,371	189	4,355	1,599	8,273	16,694	4,243	77,580	9,411	1,590	28,287	631	143,128		
2007 Total 2008 Total	1,371	142	4,257 4,188	1,534	7,926	15,703	3,219	76,421	8,507	1,676	26,26 <i>1</i> 26,641	821	137,113		
2009 Total	1,201	163	4,100	1,534	8.165	13,703	2,963	75,748	7.574	1,868	25,292	740	132,329		
2010 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		
	108	21	421	186	817	1,304	207	6,901	687	143	2,307	82	12,054		
2011 January	108				725				600	160	2,048	78			
February	104	11 7	367 373	169 188	725 753	1,125	168 160	6,177	693	187		76 78	10,770		
March		4				1,161		6,212			2,181		11,149		
April	77		357	179	706	1,139	163	6,416	674	184	2,090	73	11,175		
May	82 90	5 3	471	202	867	1,199	156	6,597	633	198	2,033	66	11,359		
June			463	200	860	1,249	152	6,802	753	150	2,292	67	11,938		
July	104	7	605	205	1,023	1,353	141	7,517	836	109	2,312	71	12,868		
August	94	7	571	210	985	1,389	138	7,745	823	96	2,343	76	13,085		
September	84	7	487	195	870	1,209	145	6,953	752	122	2,260	75	11,948		
October	65	6	438 437	190 195	799 800	1,120 1.077	162	6,419	700	126 146	2,146	86 86	11,224		
November	62	7					143	6,742	715		2,286		11,663		
December Total	78 1,049	6 89	499 5,487	195 2,315	874 10,080	1,165 14,490	155 1,891	7,429 81,911	758 8,624	178 1,799	2,392 26,691	81 917	12,642 141,875		
10tal	•		•	•	•	14,490	•	01,911	•	•	,		141,073		
2012 January	^R 83 ^R 81	^R 15 ^R 16	^R 543 ^R 531	^R 186 ^R 182	R 916 R 900	R 1,135 R 1.017	R 330 R 214	R 7,096	^R 754 ^R 788	^R 275 ^R 240	R 2,340	R 62	R 12,425		
February	R 74	R 12	N 531	R 188		R 1,017	R 225	R 6,771	R 815	R 240	R 2,197	72 R 82	R 11,699		
March	R 66	R 17	^R 537 ^R 510	R 187	^R 911 ^R 888	R 935	R 199	R 6,713	R 803	R 234 R 178	R 2,140	R 79	R 11,681		
April	R 69	R 12	R 541	R 193	R 930	R 984	R 191	R 6,571	. 003 B 250	R 212	R 1,986	R 75	R 11,158		
May	R 79	R 21			R 975	R 1,035		R 7,186	^R 758 ^R 719	R 175	R 2,122		R 11,988		
June		R 19	R 585	R 180		R 4 400	R 207	R 7,327	7 19 R 770	" 175 R 407	R 2,144	^R 62 ^R 79	R 12,091		
July	^R 83 ^R 81	^R 19	R 716	R 198	R 1,135	R 1,189	R 234	R 8,013	R 776	R 137	R 2,303	R 85	R 13,190		
August	^N 81	R 15	R 620	R 208	R 1,046	R 1,159	R 279	R 7,956	R 784	R 152	R 2,308	,, 92	R 13,160		
September	^R 66	^R 15	R 537	R 196	R 930 R 904	R 1,026	R 250 R 229	R 7,209	R 672	^R 159 ^R 192	R 2,277	R 68 R 94	R 12,069		
October	^5/	× 20	R 513	R 200		R 990	N 229	R 7,006	R 670	^ 192	R 2,235	N 94	R 11,841		
November	R 67	R 16	R 488	R 199	R 876	R 1,012	R 280	R 7,080	R 664	R 213	R 2,277	R 96 R 93	R 12,052		
December Total	R 77 R 883	R 16 R 196	R 483 R 6,603	R 203 R 2,319	R 888 R 11,301	R 1,079 R 12,603	R 283 R 2,922	R 7,573 R 86,500	R 709 R 8,913	R 186 R 2,353	R 2,394 R 26,725	R 948	R 12,751 R 146,107		
							•								
2013 January February	77 89	15 10	522 459	208 186	923 848	1,069 1,039	221 130	7,740 6,958	698 627	344 371	2,359 2,189	73 67	12,831 11,693		
March	71	5	476	220	900	1,102	193	7,475	720	297	2,103	75	12,466		
April	58	6	414	199	808	965	189	6,712	646	252	1,980	75 75	11,111		
May	67	6	449	204	857	1,085	219	7,152	728	319	2,179	76	12,047		
June	78	6	467	213	903	1,122	193	7,132	656	295	2,173	80	12,199		
July	79	12	537	221	990	1,211	206	7,698	746	311	2,387	84	12,133		
August	67	7	527	226	977	1,107	204	7,597	741	234	2,380	89	12,732		
September	54	6	495	219	916	1,058	171	7,032	658	228	2,258	82	11,853		
9-Month Total	640	74	4,346	1,896	8,123	9,758	1,724	65,637	6,219	2,651	20,273	700	109,920		
2012 9-Month Total	682	145	5.119	1,717	8.632	9,522	2.130	64.842	6.870	1,762	19.818	666	109.462		
2012 9-Month Total	843	71	4,113	1,717	7,607	11,128	1,430	61,321	6,450	1,762	19,867	664	109,462		

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

fosșil fuels. Through 2010, also includes propane gas.

plants.

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

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

Anthracite, biturillitus total, substantillitus total, substantillitus total, substantillitus total, substantillitus total, substantillitus del petroleum, waste oil, and, beginning in 2011, propane.

^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 sources, and waste (municipal solid waste from non-biogenic sources, and agricultural pythodeus, and other horizonas influences and tire-derived fuels).

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

displayed.

h Blast furnace gas, and other manufactured and waste gases derived from

Conventional hydroelectric power.

Wood and wood-derived fuels.
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).

R=Revised. NA=Not available.

Notes: • See Note 1, "Coverage of Electricity Statistics," and Note 2, "Classification of Power Plants Into Energy-Use Sectors," at end of section.

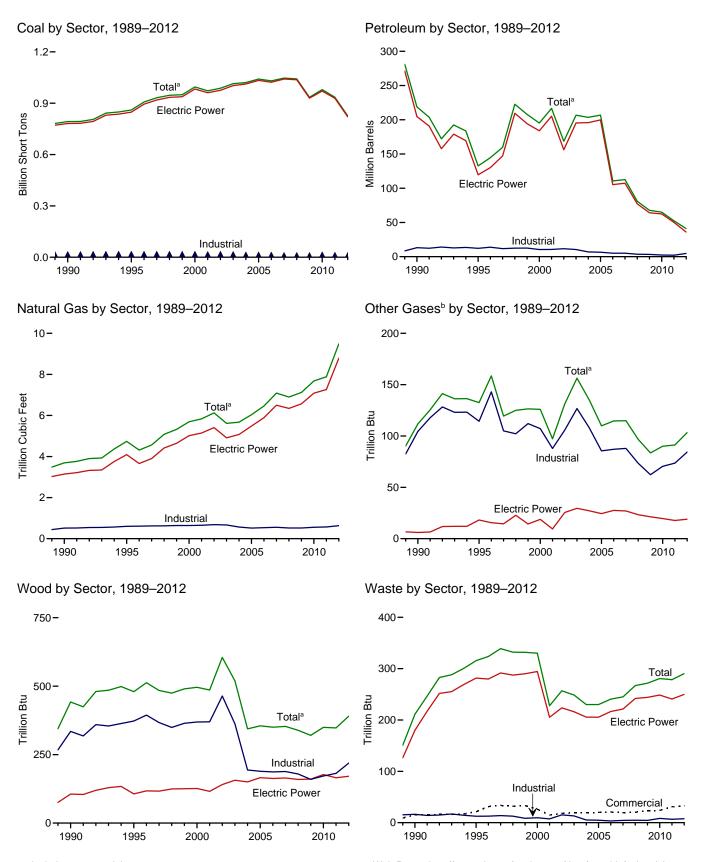
• Totals may not equal sum of components due to independent rounding.

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

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

beginning in 1973.
Sources: See end of section.

Figure 7.3 Consumption of Selected Combustible Fuels for Electricity Generation



^a Includes commercial sector.

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

^b Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1950 Total 1955 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total 1988 Total	91,871 143,759 176,685 244,788 320,182 405,962 569,274 693,841	5,423 5,412 3,824 4,928 24,123 38,907 29,051 14,635	69,998 69,862 84,371 110,274 311,381 467,221 391,163 158,779	NA NA NA NA NA NA NA	NA NA NA 636 70 179 231	75,421 75,274 88,195 115,203 338,686 506,479 421,110 174,571	629 1,153 1,725 2,321 3,932 3,158 3,682 3,044	NA NA NA NA NA NA	5 3 2 3 1 (s) 3 8	NA NA NA 2 2 2 7	NA NA NA NA NA NA
1990 Total ^k 1995 Total 2000 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2009 Total 2010 Total	792,457 860,594 994,933 972,691 987,583 1,014,058 1,020,523 1,041,448 1,030,556 1,046,795 1,046,795 1,046,83 934,683 979,684	18,143 19,615 31,675 31,150 23,286 29,672 20,163 20,651 13,174 15,683 12,832 12,658 14,050	190,652 95,507 143,381 165,312 109,235 142,518 142,088 141,518 58,473 63,833 38,191 28,576 23,997	437 680 1,450 855 1,894 2,947 2,856 2,968 2,174 2,917 2,812 2,328 2,056	1,914 3,355 3,744 3,871 6,836 6,303 7,677 8,330 7,363 6,036 5,417 4,821 4,994	218,800 132,578 195,228 216,672 168,597 206,653 203,494 206,785 110,634 112,634 112,634 65,071	3,692 4,738 5,691 5,832 6,126 5,616 5,675 6,036 6,462 7,089 6,896 7,121 7,680	112 133 126 97 131 156 135 110 115 97 84	442 480 496 486 605 519 344 355 350 353 339 320 350	211 316 330 228 257 249 230 241 245 267 272 281	36 42 46 160 191 193 183 173 172 168 172 170 184
Pebruary February March April May June July August September October November December Total	90,208 73,614 72,645 67,128 73,522 84,156 94,304 92,297 76,790 69,605 67,059 73,610 934,938	1,347 913 907 1,005 973 968 1,138 831 736 753 768 892 11,231	1,723 1,020 1,113 1,333 1,230 1,249 1,550 1,313 942 938 917 922 14,251	255 144 140 111 88 138 238 146 156 143 147 138	552 431 517 336 357 432 510 464 454 338 257 365 5,012	6,086 4,230 4,746 4,130 4,078 4,514 5,476 4,610 4,105 3,522 3,175 52,387	564 505 503 546 599 727 967 951 712 600 568 642 7,884	7 6 7 7 7 7 8 9 9 8 7 8 8 8 9	31 28 29 25 26 30 31 32 30 27 28 31 348	22 21 23 22 23 24 25 25 23 24 24 24 25 279	16 15 17 17 18 18 19 18 17 17 17 18 205
2012 January February March April May June July August September October November December Total	R 70,744 R 62,974 R 57,468 R 51,806 R 62,801 R 71,656 R 86,516 R 82,676 R 69,478 R 66,486 R 69,913 R 73,217	R 856 R 666 R 627 R 701 R 885 R 877 R 954 R 752 R 656 R 703 R 749 R 857	R 1,019 R 775 R 889 R 811 R 850 R 1,305 R 1,585 R 1,134 R 839 R 912 R 804 R 832	R 57 R 103 R 114 R 100 R 129 R 137 R 143 R 128 R 95 R 107 R 94 R 357	R 476 R 363 R 226 R 212 R 255 R 280 R 307 R 338 R 314 R 280 R 314 R 308	R 4,315 R 3,358 R 2,762 R 2,674 R 3,140 R 3,779 R 4,220 R 3,704 R 3,124 R 3,124 R 3,225 R 40,977	R 677 R 672 R 704 742 R 843 R 912 R 1,118 R 1,039 R 835 R 700 R 612 R 630 R 9,485	99999888888888888888888888888888888888	R 35 R 33 R 31 R 28 R 30 R 32 R 35 R 33 R 32 R 32 R 35 R 35 R 35 R 35 R 390	R 24 R 22 R 24 23 24 R 24 25 R 25 R 25 R 25 R 26 R 290	R 17 R 16 R 17 R 16 R 18 R 18 R 18 R 17 R 17 R 17 R 17 R 204
2013 January	75,110 67,213 70,467 60,957 64,814 75,241 83,466 82,072 72,838 652,179	1,027 663 658 674 827 671 1,056 707 667 6,950	1,547 1,000 829 826 807 903 1,444 974 828 9,159	246 135 102 116 118 92 147 109 117	375 308 359 335 464 470 467 482 374 3,634	4,696 3,337 3,381 3,289 4,074 4,016 4,982 4,202 3,483 35,460	660 594 632 588 642 766 938 929 777 6,526	7 6 8 7 8 8 9 9 8 71	32 29 32 25 29 30 34 35 32 278	22 20 23 22 24 24 24 23 23 23	14 13 15 14 15 17 16 16 15
2012 9-Month Total 2011 9-Month Total	616,119 724,664	6,975 8,818	9,207 11,474	1,007 1,417	2,773 4,053	31,053 41,974	7,543 6,074	79 68	292 261	215 206	153 153

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

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. • See Note 1, "Coverage of Electricity Statistics," 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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973. Sources: See sources for Tables 7.3b and 7.3c.

Anthracite, biturininus coai, accession and a Anthracite, biturininus coai, accession and a Synfuel.

b Fuel oil nos. 1, 2, and 4. For 1949–1979, 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 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propage

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

Petroleum coke is converted from short tons to barrels by multiplying by 5.
 Natural gas, plus a small amount of supplemental gaseous fuels.
 Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 Mood and wood-derived fuels.
 Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal 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, independent power producers, commercial plants, and industrial plants.

plants.

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

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^C	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Th	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1950 Total 1955 Total 1960 Total 1965 Total 1970 Total 1970 Total 1980 Total	91,871 143,759 176,685 244,788 320,182 405,962 569,274 693,841	5,423 5,412 3,824 4,928 24,123 38,907 29,051 14,635	69,998 69,862 84,371 110,274 311,381 467,221 391,163 158,779	NA NA NA NA NA NA	NA NA NA 636 70 179 231	75,421 75,274 88,195 115,203 338,686 506,479 421,110 174,571	629 1,153 1,725 2,321 3,932 3,158 3,682 3,044	NA NA NA NA NA NA	5 3 2 3 1 (s) 3 8	NA NA NA 2 2 2 7	NA NA NA NA NA NA NA
1990 Total* 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2008 Total 2008 Total 2009 Total	781,301 847,7854 982,713 961,523 975,251 1,003,036 1,012,459 1,033,567 1,022,802 1,041,346 1,036,891 929,692 971,245	16,394 18,066 29,722 29,056 21,810 27,441 18,793 19,450 12,578 15,135 12,318 11,848 13,677	183,285 88,895 138,047 159,150 104,577 137,361 138,831 138,337 56,347 62,072 27,768 23,560	25 441 403 374 1,243 1,937 2,511 2,591 1,783 2,496 2,110 1,848	1,008 2,452 3,155 3,308 5,705 5,719 7,135 7,877 6,905 5,523 5,000 4,485 4,679	204,745 119,663 183,946 205,119 156,154 195,336 195,809 199,760 105,235 107,316 77,149 64,151 62,477	3,147 4,094 5,014 5,142 5,499 5,075 5,891 6,502 6,342 6,567 7,085	6 18 19 9 25 30 27 24 28 27 23 21 20	106 106 126 116 141 150 166 163 165 159 160	180 282 294 205 224 216 206 205 216 221 242 244 249	(s) 2 1 109 137 136 131 116 117 122 115
Pebruary February March April May June July August September October November December Total	89,681 73,167 72,148 66,643 73,010 83,622 93,724 91,707 76,286 69,165 66,642 73,063 928,857	1,314 886 882 989 955 951 1,117 812 714 727 745 868 10,961	1,660 977 1,082 1,302 1,206 1,223 1,524 1,287 915 906 889 891 13,861	238 127 124 96 72 123 223 130 140 128 132 123 1,655	524 409 495 312 333 409 491 440 428 312 232 339 4,726	5,833 4,033 4,563 3,948 3,899 4,344 5,317 4,430 3,911 3,321 2,926 3,579 50,105	512 459 457 498 548 675 909 893 659 551 518 586 7,265	1 1 2 1 1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	15 14 14 11 12 14 16 16 14 13 12 15	19 18 20 19 20 21 21 21 20 20 20 21 22 24	10 10 11 11 11 12 12 12 11 11 11 11 11 12
2012 January February March April May June July August September October November December Total	R 70,305 R 62,572 R 57,053 R 51,427 R 62,417 R 71,251 R 86,036 R 82,209 R 69,074 R 66,104 R 69,521 R 72,791	R 809 R 649 R 607 R 683 R 868 R 926 R 726 R 634 R 681 R 728 R 835 R 9,000	R 965 R 735 R 848 R 778 R 803 R 1,278 R 1,547 R 1,099 R 807 R 868 R 769 R 795	R 38 R 80 R 93 R 82 R 112 R 121 R 127 R 110 R 80 R 88 R 78 R 331	R 389 R 307 R 168 R 157 R 200 R 222 R 244 R 257 R 241 R 220 R 229 226	R 3,759 R 2,997 R 2,388 R 2,784 R 3,364 R 3,821 R 3,222 R 2,726 R 2,735 R 3,092 R 35,937	R 621 R 619 R 650 R 689 R 785 R 852 R 1,052 R 974 R 777 R 644 R 556 R 571 R 8,788	R2 R2 R2 R2 R2 R2 R2 R1 11 R2 R19	15 14 R141 R13 R15 R16 R15 R13 R15 R171	R 20 R 19 20 21 R 21 R 21 R 22 R 22 R 20 R 21 R 21 R 21 R 22 R 250	11 10 R 11 10 11 R 12 12 12 11 11 11 11 R 132
2013 January February March April June July August September 9-Month Total	74,704 66,822 70,060 60,601 64,409 74,819 83,011 81,659 72,442 648,526	1,001 646 640 652 809 654 1,030 682 649 6,761	1,501 965 802 802 782 880 1,422 950 808 8,913	232 129 93 104 100 87 137 100 106 1,088	322 283 304 280 402 411 409 426 325 3,163	4,343 3,156 3,057 2,958 3,702 3,673 4,636 3,861 3,189 32,574	602 541 576 538 589 711 879 871 724 6,029	1 1 2 1 2 2 2 2 2 2 2 1 6	14 13 14 9 12 13 15 16 15	19 17 19 19 21 20 21 20 19	10 9 11 10 11 12 12 11 10 96
2012 9-Month Total 2011 9-Month Total	612,346 719,987	6,755 8,621	8,860 11,175	842 1,273	2,186 3,842	27,388 40,279	7,017 5,610	15 13	129 125	185 178	99 99

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

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.

R=Revised. 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. • See Note 1, "Coverage of Electricity Statistics," 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 (Excel and CSV flies) for all available annual data beginning in 1973.

beginning in 1973.
Sources: See end of section.

synfuel.

b Fuel oil nos. 1, 2, and 4. For 1949–1979, 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 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel oil no. 4.

oil no. 4.

d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, propane.

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

r enumeurii 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, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

h Wood and wood-derived fuels.

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

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

		Commerci	ial Sector ^a				Indu	strial Sector	b		
				Biomass					Bion	nass	
	Coal ^c	Petroleum ^d	Natural Gas ^e	Waste ^f	Coalc	Petroleum ^d	Natural Gas ^e	Other Gases ^g	Woodh	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	n Btu	
1990 Total 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2008 Total 2008 Total 2008 Total	417 569 514 532 477 582 377 347 361 369 317	953 649 823 1,023 834 894 766 585 333 258 166 190	28 43 37 36 33 38 33 34 35 34 33 34 39	15 21 26 15 18 19 20 21 19 20 23 24	10,740 12,171 11,706 10,636 11,855 10,440 7,687 7,504 7,408 5,089 5,075 4,674 8,125	13,103 12,265 10,459 10,530 11,608 10,424 6,919 6,440 5,066 5,041 3,617 3,328 2,422	517 601 640 654 685 668 566 518 536 554 520 520	104 114 107 88 106 127 108 85 87 88 73 62 70	335 373 369 370 464 362 194 189 187 188 179 160	16 13 10 7 15 13 5 5 3 4 5 4 8	36 40 45 44 43 46 41 46 45 41 39 42 55
Petron January February February March April May June July August September October November December Total	40 39 37 25 25 27 32 29 26 21 21 26 347	27 16 11 5 5 14 12 13 10 11 9	4 3 3 3 4 4 5 5 4 4 4 4 4 4 4 7	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	487 409 460 460 487 507 548 562 479 419 397 521 5,735	226 180 173 177 174 165 145 168 181 191 179 187 2,145	48 43 45 47 48 53 54 49 45 51 572	6 5 5 6 7 7 7 6 6 6 6 7	16 14 15 14 16 16 16 15 15 16 16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 7	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Page 2012 January	29 27 R 26 R 23 R 22 26 R 28 24 R 21 R 25 R 27 R 307	R 29 R 19 R 17 R 17 R 25 R 24 R 33 R 28 R 19 R 22 R 24 R 24 R 24	R 5 5 5 5 8 R 6 7 6 R 8 5 5 4 4 4 3 R 63	3 3 8 3 8 3 8 3 8 3 3 3 3 3 3 8 3 8 3 8	R 410 R 374 R 388 R 356 R 361 R 379 R 452 R 439 R 381 R 361 R 366 R 398 R 4,665	R 528 R 342 R 357 R 359 R 332 R 332 R 367 R 454 R 417 R 366 R 469 R 469	R 51 R 49 R 48 R 48 R 53 R 55 R 59 R 53 R 52 F 53 R 52 F 53 R 52 R 53 R 52 R 53	R 7 R 8 R 7 R 7 R 7 R 7 R 7 R 6 R 7 R 84	R 19 R 18 R 17 R 17 R 18 R 19 R 18 R 18 R 18 R 18 R 18 R 19 R 20 R 219	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	R R R R R R R R R R R R R R R R R R R
Pebruary	31 29 28 24 27 29 30 27 24 248	22 13 8 9 9 16 11 10 108	4 4 4 4 4 5 4 37	3 3 3 3 3 3 3 3 3 3 25	375 362 379 332 379 393 425 386 372 3,405	331 168 316 322 363 334 330 330 285 2,778	54 49 52 47 49 51 54 54 49	6 5 6 5 7 6 7 7 6 5 5	18 17 18 16 16 17 18 18 17	1 (s) 1 1 1 1 1 1 5	3 3 3 3 3 3 4 4 28
2012 9-Month Total 2011 9-Month Total	233 279	208 108	50 35	24 23	3,540 4,398	3,457 1,588	476 429	65 55	162 135	6 5	40 43

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

technologies, and, beginning in 2001, non-renewable waste (municipal solid waste

from non-biogenic sources, and tire-derived fuels).

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

Notes: • Data are for fuels consumed to produce electricity. Through 1988, data are not available. • See Note 1, "Coverage of Electricity Statistics," and Note 2, "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.

Geographic coverage is the 50 states and the District of Columbia.
 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity (Excel and CSV files) for all available annual and monthly 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-968, "Power Plant Report." • 2004–2007: EIA, Form EIA-906, "Power Plant Report." • 2006–2007: EIA, Form EIA-906, "Power Plant Report." • 2008–2007: EIA, Form EIA-906, "Power Plant Report." • 2008–2007: EIA, Form EIA-906, "Power Plant Report." • 2008–2007: EIA, Form EIA-906, "Power Plant Report." • 2008–2008: EIA, Form EIA-906, "Power Plant Report." • 2008–2007: EIA, Form EIA-906, "Power Plant Report." • 2008–2007: EIA, Form EIA-906, "Power Plant Report." • 2008–2007: EIA, Form EIA-906, "Power Plant Report." • 2008–2008: EIA, Form EIA-908, "Power Plant Report." • 2008–2008: EIA, Form EIA-908, "Power Pl

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

plants.

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

plants.

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

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

d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

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

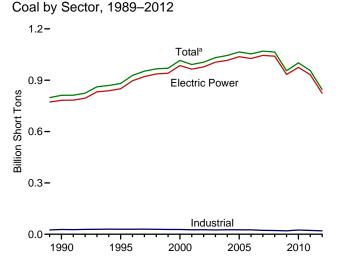
Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels) tire-derived fuels).

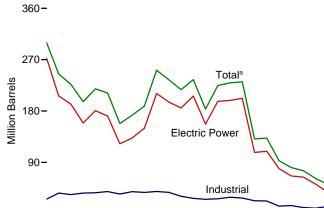
g Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
h Wood and wood-derived fuels.

Wood and wood-derived fuels.

Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous

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

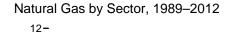


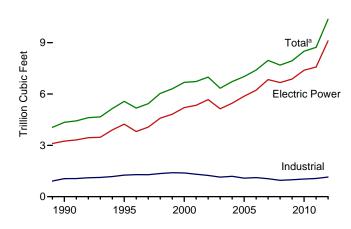


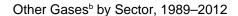
2000

2005

2010



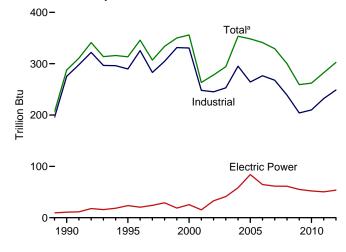




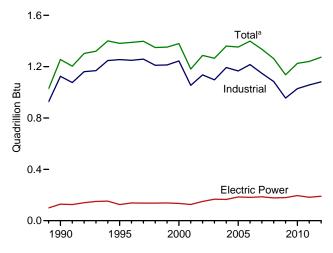
1995

1990

Petroleum by Sector, 1989–2012

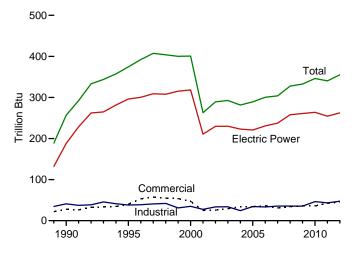


Wood by Sector, 1989-2012



^a Includes commercial sector. Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Sources: Tables 7.4a-7.4c.

Waste by Sector, 1989-2012



^b Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1950 Total 1955 Total 1960 Total 1965 Total 1970 Total 1977 Total 1980 Total 1980 Total	91,871 143,759 176,685 244,788 320,182 405,962 569,274 693,841	5,423 5,412 3,824 4,928 24,123 38,907 29,051 14,635	69,998 69,862 84,371 110,274 311,381 467,221 391,163 158,779	NA NA NA NA NA NA NA	NA NA NA 636 70 179 231	75,421 75,274 88,195 115,203 338,686 506,479 421,110 174,571	629 1,153 1,725 2,321 3,932 3,158 3,682 3,044	NA NA NA NA NA NA NA	5 3 2 3 1 (s) 3 8	NA NA NA 2 2 2 7	NA NA NA NA NA NA NA
1990 Total ^K 1995 Total 2000 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2008 Total 2009 Total 2010 Total	811,538 881,012 1,015,398 991,635 1,005,144 1,031,778 1,044,798 1,065,281 1,053,783 1,069,606 1,064,503 955,190 1,001,411	20,194 21,697 34,572 33,724 24,749 31,825 23,520 24,446 14,655 17,042 14,137 14,800 15,247	209,081 112,168 156,673 177,137 118,637 152,859 157,478 156,915 69,846 74,616 43,477 33,672 26,944	1,332 1,322 2,904 1,418 3,257 4,576 4,764 4,270 3,396 4,237 3,765 3,218 2,777	2,832 4,590 4,669 4,532 7,353 7,067 8,721 9,113 8,622 7,299 6,314 5,828 6,053	244,765 158,140 217,494 234,940 183,409 224,593 229,364 231,193 131,005 132,389 92,948 80,830 75,231	4,346 5,572 6,677 6,731 6,986 6,337 6,727 7,021 7,404 7,962 7,689 7,938 8,502	288 313 356 263 278 294 353 348 341 329 300 259 262	1,256 1,382 1,380 1,182 1,287 1,266 1,360 1,353 1,399 1,336 1,263 1,137	257 374 401 263 289 293 282 289 300 304 328 333 346	86 97 109 229 252 262 254 237 247 239 212 228
Pebruary February March April May June July August September October November December Total	92,292 75,447 74,514 68,841 75,298 85,881 96,128 94,103 78,479 71,317 68,748 75,422 956,470	1,411 986 965 1,034 1,016 1,001 1,169 855 770 797 805 926 11,735	2,123 1,247 1,327 1,537 1,416 1,450 1,738 1,515 1,136 1,147 1,118 1,123 16,877	329 213 201 166 146 191 292 204 207 201 201 189 2,540	645 521 603 428 452 521 599 545 545 429 345 460 6,092	7,087 5,052 5,506 4,876 4,838 5,246 6,194 5,298 4,837 4,289 3,848 4,537 61,610	636 570 570 610 666 794 1,045 1,030 782 666 636 718 8,724	23 22 24 22 23 24 25 25 24 24 23 24 23 24	111 99 104 96 95 104 107 107 104 100 103 111 1,241	28 26 28 26 27 28 29 29 28 30 30 31	20 19 22 21 22 23 24 23 21 22 22 22 23 261
2012 January February March April May June July August September October November December Total	R 72,764 R 64,771 R 59,077 R 53,176 R 64,319 R 73,142 R 88,115 R 84,307 R 70,951 R 68,030 R 71,512 R 74,901	R 1,119 R 726 R 670 R 736 R 914 R 919 R 986 R 779 R 685 R 735 R 781 R 896 R 9,945	R 1,251 R 907 R 1,019 R 936 R 998 R 1,437 R 1,734 R 1,286 R 970 R 1,104 R 956 R 974	R 117 R 154 R 208 R 152 R 181 R 178 R 177 R 130 R 154 R 138 R 418	R 605 R 470 R 335 R 299 R 346 R 380 R 426 R 471 R 430 R 397 R 435 R 426	R 5,510 R 4,139 R 3,570 R 3,320 R 3,825 R 4,434 R 5,034 R 4,590 R 3,979 R 4,052 R 4,416 R 50,805	R 752 R 742 R 774 R 813 R 916 987 R 1,201 R 1,119 R 907 R 771 R 681 R 706	26 R 26 27 R 27 26 25 R 26 23 R 23 R 23 R 23 25 R 302	R 110 R 104 R 103 R 96 R 103 R 104 R 107 R 111 R 107 R 112 R 107	R 29 R 27 R 30 R 28 R 30 R 30 R 28 R 31 R 31 R 33 R 33 R 355	R 21 R 20 R 20 R 20 R 22 R 22 R 22 R 21 R 21 R 21 R 21 R 21
2013 January	76,882 68,856 72,191 62,481 66,376 76,761 85,045 83,634 74,345 666,570	1,066 700 697 707 855 703 1,095 740 692 7,255	1,716 1,165 972 976 970 1,054 1,613 1,119 961	298 160 133 162 165 121 177 139 151 1,505	505 422 463 432 532 545 553 567 456 4,476	5,603 4,135 4,117 4,007 4,650 4,603 5,651 4,835 4,084 41,685	739 665 708 660 715 836 1,013 1,008 850 7,194	25 22 24 23 25 23 25 25 25 24 216	107 96 104 93 99 102 113 108 101 923	30 26 29 28 29 29 30 29 28 257	17 16 18 17 17 19 19 19
2012 9-Month Total 2011 9-Month Total	630,622 740,984	7,533 9,207	10,538 13,489	1,475 1,949	3,762 4,858	38,358 48,935	8,213 6,704	232 211	949 926	259 250	189 195

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

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

- plants.
 R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.
 Notes:
 See Note 1, "Coverage of Electricity Statistics," 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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

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

synfuel.

^b Fuel oil nos. 1, 2, and 4. For 1949–1979, 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 1949–1979, data are for steam plant use of petroleum. For 1980–2000, electric utility data also include a small amount of fuel

oil no. 4.

d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011,

propane.

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

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

Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

Nood and wood-derived fuels.

[&]quot; Wood and wood-derived luels.

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

tre-derived ruess.

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

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

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

				Petroleum]		Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1950 Total 1955 Total 1960 Total 1965 Total 1970 Total 1975 Total 1980 Total 1985 Total	91,871 143,759 176,685 244,788 320,182 405,962 569,274 693,841 782,567	5,423 5,412 3,824 4,928 24,123 38,907 29,051 14,635 16,567	69,998 69,862 84,371 110,274 311,381 467,221 391,163 158,779 184,915	NA NA NA NA NA NA NA	NA NA NA NA 636 70 179 231	75,421 75,274 88,195 115,203 338,686 506,479 421,110 174,571 206,550	629 1,153 1,725 2,321 3,932 3,158 3,682 3,044 3,245	NA NA NA NA NA NA NA	5 3 2 3 1 (s) 3 8	NA NA NA NA 2 2 2 7 188	NA NA NA NA NA NA NA (S)
1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2008 Total 2009 Total 2010 Total	850,230 985,821 964,433 977,507 1,005,116 1,016,268 1,037,485 1,026,636 1,045,141 1,040,580 933,627 975,052	18,553 30,016 29,274 21,876 27,632 19,107 19,675 12,646 15,327 12,547 12,035 13,790	90,023 138,513 159,504 104,773 138,279 139,816 139,409 57,345 63,086 38,241 28,782 24,503	499 454 377 1,267 2,026 2,713 2,685 1,870 2,594 2,670 2,210 1,877	2,674 3,275 3,427 5,816 5,799 7,372 8,083 7,101 5,685 5,119 4,611 4,777	122,447 185,358 206,291 156,996 196,932 198,498 202,184 107,365 109,431 79,056 66,081 64,055	4,237 5,206 5,342 5,672 5,135 5,464 5,869 6,222 6,841 6,668 6,873 7,387	24 25 15 33 41 58 84 65 61 61 55 52	125 134 126 150 167 165 185 182 186 177 180	296 318 211 230 230 223 221 231 237 258 261 264	(s) 2 1 113 143 140 138 123 125 124 131 124
2011 January February March April May June July August September October November December Total	90,021 73,474 72,458 66,930 73,338 83,908 94,037 92,012 76,569 69,458 66,919 73,359 932,484	1,322 911 885 991 957 954 1,120 816 716 730 748 870 11,021	1,745 1,024 1,153 1,384 1,286 1,303 1,609 1,375 1,002 990 968 965 14,803	239 127 124 96 72 123 223 130 140 128 134 123 1,658	529 417 506 321 344 419 501 451 439 319 241 350 4,837	5,953 4,148 4,692 4,078 4,034 4,474 5,458 4,575 4,052 3,445 3,052 3,707 51,667	540 484 482 521 572 699 939 921 684 575 543 614	4 4 5 4 4 4 4 4 4 5 5 5 0	17 16 15 12 13 16 17 17 15 14 14 16	21 19 21 20 21 22 22 22 21 22 22 22 23 255	11 11 12 12 12 12 13 13 12 12 12 12 12
2012 January February March April May June July August September October November December Total	R 70,594 R 62,804 R 57,266 R 51,593 R 62,648 R 71,480 R 86,283 R 82,484 R 69,309 R 66,343 R 69,740 R 73,009	R 834 R 667 R 610 R 686 R 873 R 856 R 931 R 729 R 637 R 685 R 732 R 839	R 1,057 R 796 R 898 R 841 R 883 R 1,364 R 1,624 R 1,178 R 884 R 951 R 850 R 877	R 38 R 80 R 93 R 82 R 112 R 121 R 127 R 110 R 80 R 88 R 78 R 331	R 400 R 318 R 178 R 166 R 211 R 228 R 253 R 267 R 250 R 229 R 238 R 238 R 238 R 238	R 3,930 R 3,131 R 2,493 R 2,439 R 2,924 R 3,481 R 3,949 R 3,353 R 2,852 R 2,866 R 37,495	R 649 R 645 R 674 R 714 R 812 R 880 R 1,082 R 1,004 R 803 R 669 R 580 R 600 R 9,111	R 5 4 4 5 5 4 4 4 4 5 5 4 4 4 5 5 4 8 8 8 8	R 17 R 16 R 16 R 13 R 14 R 16 R 18 R 16 R 15 15 16 R 190	R 22 R 20 R 22 R 21 22 R 23 R 23 R 21 R 22 R 23 R 24 R 24	12 R 11 R 12 11 12 R 13 R 12 R 12 R 12 R 12 R 12 R 14 R 14
2013 January	74,968 67,086 70,355 60,859 64,692 75,096 83,295 81,949 72,699 650,998	1,007 656 644 656 811 656 1,031 684 650 6,796	1,551 1,030 883 884 868 959 1,506 1,035 896 9,612	232 130 93 105 100 87 137 100 106 1,089	332 292 314 290 411 417 419 435 333 3,242	4,449 3,273 3,191 3,095 3,833 3,785 4,771 3,996 3,316 33,709	629 566 602 563 615 736 907 899 750 6,267	4 3 3 4 4 4 4 4 35	16 14 15 11 14 15 17 18 16 135	21 18 21 20 21 21 22 21 20 187	11 10 11 11 12 13 12 12 12 11 103
2012 9-Month Total 2011 9-Month Total	614,460 722,748	6,825 8,672	9,525 11,881	842 1,273	2,272 3,927	28,552 41,464	7,262 5,842	41 38	144 138	194 188	107 107

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

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

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

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

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. • See Note 1, "Coverage of Electricity Statistics," 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/utstelpngrov/data/monthly/ttelectricity. (Excel

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

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

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

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

Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

Nood and wood-derived fuels.

son ideas. Influence 170, also includes propaire gas.

† Wood and wood-derived fuels.

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

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

		Commerci	ial Sectora				Indu	strial Sector	b		_
			Natara	Biomass			Net	0.1	Biom	nass	
	Coalc	Petroleum ^d	Natural Gas ^e	Waste ^f	Coalc	Petroleum ^d	Natural Gas ^e	Other Gases ^g	Woodh	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	Btu	
1990 Total 1995 Total	1,191 1,419	2,056 1,245	46 78	28 40	27,781 29,363	36,159 34,448	1,055 1,258	275 290	1,125 1,255	41 38	86 95
2000 Total	1,547	1,615	85	47	28,031	30,520	1,386	331	1,244	35	108
2001 Total	1,448	1,832	79	25	25,755	26,817	1,310	248	1,054	27	101
2002 Total 2003 Total	1,405 1,816	1,250 1,449	74 58	26 29	26,232 24,846	25,163 26,212	1,240 1,144	245 253	1,136 1,097	34 34	92 103
2004 Total	1,917	2.009	72	34	26,613	28,857	1,144	295	1,193	24	94
2005 Total	1,922	1,630	68	34	25,875	27,380	1,084	264	1,166	34	94
2006 Total	1,886	935	68	36	25,262	22,706	1,115	277	1,216	33	102
2007 Total	1,927	752	70	31	22,537	22,207	1,050	268	1,148	36	98
2008 Total 2009 Total	2,021 1,798	671 521	66 76	34 36	21,902 19,766	13,222 14,228	955 990	239 204	1,084 955	35 35	60 82
2010 Total	1,720	437	86	36	24,638	10,740	1,029	210	1,029	47	91
2011 January	189	103	7	3	2,082	1,031	90	18	94	4	7
February	173	48	6	3	1,800	856	81	18	83	4	7
March	164	26	6	3	1,891	788	82	19	88	4	8
April May	124 124	8 12	6 7	3 4	1,787 1.836	791 791	83 87	18 19	84 82	3	8 8
June	130	9	7	4	1,843	764	88	20	88	3	8
July	145	23	9	4	1,946	714	97	20	90	3	9
August	129	20	9	4	1,962	703	99	20	90	3	8
September	122	23	8	4	1,788	762	91	20	88	3	7
October November	110 117	14 28	7 7	4	1,748 1,712	830 767	85 86	20 19	86 90	4 5	8
December	139	19	8	4	1,923	812	96	20	95	4	8
Total	1,668	333	87	43	22,319	9,610	1,063	232	1,057	43	94
2012 January	R 155	R 87	9 R 9	4	R 2,015	R 1,493	R 94	21	R 94	R 3	R7
February	^R 135 ^R 128	^R 29 ^R 31	R g	4	R 1,832 R 1,684	^R 979 ^R 1,047	^R 89 ^R 91	21 22	^R 88 ^R 87	4 R 5	^R 7
March April	R 102	R 19	R 9	R 4	R 1,481	R 863	R 90	R 22	R 83	5 4	R 6
May	R 108	R 27	Rg	4	R 1,563	R 873	R 95	22	R 89	R 3	R 7
June	R 109	R 28	R 10	R 4	R 1,553	R 925	R 98	21	R 88	3	R 7
July	R 120	R 61	R 12	4	R 1,712	R 1,024	R 107	21	R 92	R3	R 7
August	R 120 R 107	^R 41 ^R 27	R 11 R 9	R 4 R 4	R 1,703 R 1,535	R 1,197 R 1,056	^R 105 ^R 96	22 19	R 93 R 91	R 3 R 3	^R 7
September October	R 101	R 31	Rg	4	R 1,587	R 1,082	R 94	18	R 91	^{1.3} R 5	R 7
November	R 124	R 38	R 8	4	R 1,649	R 1,163	R 93	19	R 92	R 5	R 7
December	^R 141	R 39	8	4	R 1,751	R 1,151	R 98	21	^R 96	5	R 7
Total	R 1,450	R 457	R 111	R 45	R 20,065	R 12,853	R 1,149	R 249	R 1,082	R 47	R 81
2013 January	153	53	8	4	1,760	1,101	102	21	91	4	4
February March	144 141	34 21	7 8	4	1,626 1,694	827 905	91 98	19 20	82 89	4	4
April	114	18	7	4	1,509	894	90	19	82	4	4
May	120	18	7	4	1,564	800	94	21	85	4	3
June	111	18	7	4	1,554	799	93	19	87	4	4
July	110	34	8	4	1,640	847	98	21	96	4	4
August September	111 106	27 24	8 8	4	1,574 1,539	813 743	100 92	21 19	90 85	4	4
9-Month Total	1,111	247	68	35	14,461	7, 729	858	181	787	36	34
2012 9-Month Total 2011 9-Month Total	1,084 1,301	349 271	86 65	34 32	15,078 16,935	9,457 7,200	865 797	191 173	804 787	32 30	61 69

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

R=Revised. Notes: • R=Revised.

Notes: • See Note 1, "Coverage of Electricity Statistics," and Note 2, "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 (Excel

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity (Excel and CSV files) for all available annual and monthly data beginning in 1989.

Sources: • 1989–1997: U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998–2000: EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • 2001–2003: EIA, Form EIA-906, "Power Plant Report." • 2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

plants.

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

plants.

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

synfuel.

d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

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

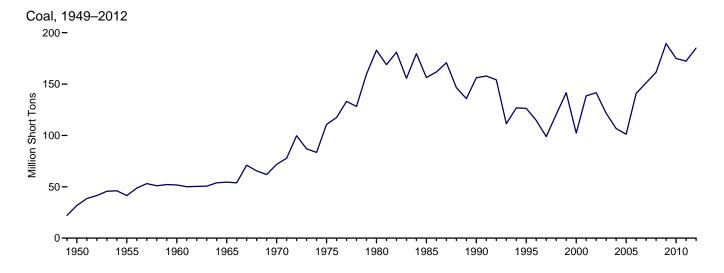
Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived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

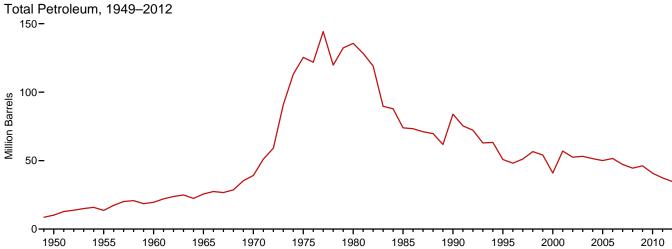
⁹ Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

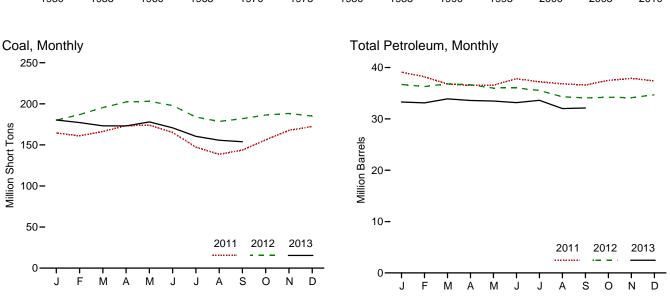
^h Wood and wood-derived fuels.

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).

Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector







Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity. Source: Table 7.5.

Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector

				Petroleum		
	Coal ^a	Distillate Fuel Oilb	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^{e,f}
	Thousand Short Tons		Thousand Barrels		Thousand Short Tons	Thousand Barrels
950 Year	31,842	NA	NA	NA	NA	10,201
955 Year		NA	NA	NA	NA	13,671
960 Year	51,735	NA	NA	NA	NA	19,572
965 Year		NA	NA	NA	NA	25,647
970 Year	71,908	NA	NA	NA	239	39,151
975 Year	110,724	16,432	108,825	NA	31	125,413
980 Year		30,023	105,351	NA	52	135,635
985 Year		16,386	57,304	NA	49	73,933
990 Year		16,471	67,030	NA	94	83,970
995 Year		15,392	35,102	NA	65	50,821
000 Year ^g		15,127	24.748	NA	211	40.932
001 Year	138,496	20,486	34,594	NA	390	57,031
002 Year		17,413	25.723	800	1,711	52,490
003 Year		19,153	25,820	779	1.484	53,170
004 Year		19,275	26,596	879	937	51,434
005 Year		18,778	27,624	1,012	530	50,062
006 Year		18,013	28,823	1,380	674	51,583
007 Year		18,395	24,136	1,902	554	47.203
007 Tear		17,761	21,088	1,955	739	44,498
				2,257	1.394	44,496 46.181
009 Year		17,886	19,068			
010 Year	174,917	16,758	16,629	2,319	1,019	40,800
011 January		16,613	16,012	2,492	799	39,111
February	161,064	16,565	15,552	2,545	707	38,198
March	166,255	16,367	15,405	2,546	495	36,794
April	173,427	16,153	15,181	2,561	526	36,525
May	174,093	15,997	15,209	2,539	563	36,558
June		16,379	16,359	2,601	496	37,820
July		16.170	16,111	2,622	463	37,218
August		16,162	15,843	2,631	437	36,822
September		16,311	15,726	2.628	385	36.593
October		16,567	16,044	2,681	440	37.495
November		16,729	15.964	2,744	494	37,906
December	172,387	16,649	15,491	2,707	508	37,387
012 January	R 180.091	R 16.682	^R 15.242	R 2.736	R 409	R 36.704
February		R 16,500	R 15,150	R 2,780	R 374	R 36,300
March		R 16,413	R 15,324	2.815	R 453	R 36.817
April		R 16,371	R 15,154	R 2,850	R 457	R 36.661
May		R 16,290	R 14,814	R 2,868	R 406	R 36,002
June		R 16,248	R 14,600	R 2.899	R 458	R 36.038
July		R 16,700	R 13,872	R 2.930	R 406	R 35.534
August		R 16,123	R 13.668	R 2,827	R 336	R 34.302
September		R 16,059	R 13,524	R 2,734	R 353	R 34,081
October		R 16.019	R 13,406	R 2,757	R 406	R 34.212
November		R 16,031	R 13,221	R 2,793	R 416	R 34,126
December	R 185,116	R 16,433	R 12,999	R 2,793	495	R 34,698
013 January	180,318	16,092	12,222	2,763	444	33,296
February	177,208	16,163	11,992	2,754	444	33,127
March		16,133	12,983	2,758	406	33.906
April		15.994	12,503	2,738	455	33,589
		15,994	12,529		455 444	33,589
May				2,823		
June		16,054	12,199	2,871	409	33,171
July		15,898	12,887	2,849	397	33,616
August		15,762	12,191	2,744	262	32,007
September	153,813	15,598	12,254	2,712	311	32,121

R=Revised. 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. • See Note 1, "Coverage of Electricity Statistics," 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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.
Sources: • 1949–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," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

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

oil no. 4.

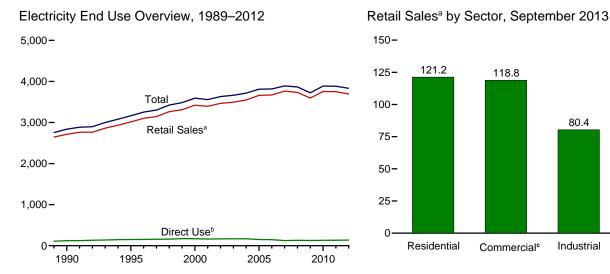
d Jet fuel and kerosene. Through 2003, data also include a small amount of waste oil.

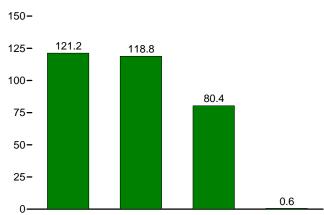
Petroleum coke is converted from short tons to barrels by multiplying by 5. Distillate fuel oil and residual fuel oil. Beginning in 1970, also includes petroleum coke. Beginning in 2002, also includes other liquids.

g Through 1998, data are for electric utilities only. Beginning in 1999, data are

for electric utilities and independent power producers.

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

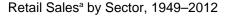


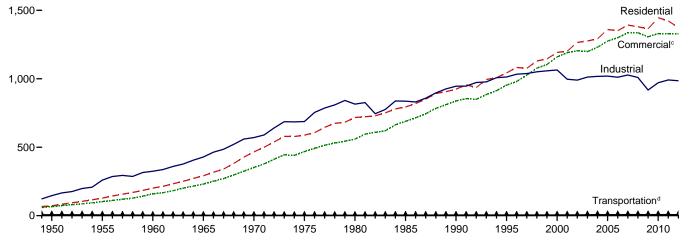


Commercial^o

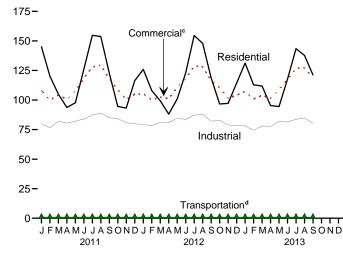
Industrial

Transportation^d





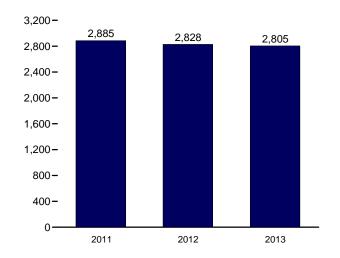




^a Electricity retail sales to ultimate customers reported by utilities and other energy service providers.

Retail Sales^a Total, January-September

Residential



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

^b See "Direct Use" in Glossary.

^c Commercial sector, including public street and highway lighting, inter-

Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Salesa					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
1950 Total	72,200	E 65.971	146.479	^E 6.793	291.443	NA.	291,443	50.637	22.127
955 Total	128,401	E 102,547	259,974	^E 5,826	496,748	NA.	496,748	79,389	28.984
960 Total	201,463	E 159,144	324,402	E 3,066	688,075	NA NA	688,075	130,702	31,508
965 Total	291.013	E 231,126	428,727	E 2,923	953,789	NA.	953,789	200,470	33,580
970 Total	466,291	E 352,041	570,854	E 3.115	1,392,300	NA NA	1,392,300	306,703	48,452
975 Total	588,140	E 468.296	687.680	E 2.974	1,747,091	NA NA	1,747,091	403,049	68,222
980 Total	717,495	558,643	815,067	3,244	2,094,449	NA NA	2,094,449	488,155	73,732
985 Total	793,934	689,121	836.772	4.147	2,323,974	NA NA	2,323,974	605.989	87.279
	924.019	838,263	945.522	4,751				751.027	91.988
990 Total					2,712,555	124,529	2,837,084		
995 Total	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,407
000 Total	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	109,496
001 Total	1,201,607	1,190,518	996,609	5,724	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	105,552
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		
007 Total	1,379,981	1,335,981	1,009,300	7,700	3,732,962	132,197	3,865,159		
009 Total	1,364,474	1,307,168	917,442	7,700 7,781	3,596,865	126,938	3,723,803		==
	1,445,708	1,330,199	970,873	7,712	3,754,493	131,910	3,886,403		
010 Total	1,445,706	1,330,199	970,073	7,712	3,754,493	131,910	3,000,403		
011 January	145,054	108,243	80,077	710	334,084	E 11,245	345,329		
February	120,121	99,789	76,332	637	296,879	E 10,042	306,922		
March	104,921	104,263	82,196	664	292,044	E 10,398	302,442		
April	93,700	100,505	80,356	629	275,190	E 10,380	285,570		
May	97,688	107.624	82.095	619	288.026	E 10,681	298,707		
June	125,983	118,169	83.941	643	328,736	E 11,181	339,917		
July	154,729	128,063	87,245	650	370,686	E 12,136	382,822		
August	153,739	129,371	89,014	625	372,749	E 12,292	385,041		
	122,720	117,951	84,959	634	326,263	E 11,199	337,462		==
September						F 40 504			
October	94,585	108,655	84,287	616	288,144	E 10,504	298,647		
November	93,220	100,552	80,858	590	275,220	E 10,888	286,108		
December	116,341	104,873	79,956	656	301,826	E 11,808	313,634		
Total	1,422,801	1,328,057	991,316	7,672	3,749,846	132,754	3,882,600		
012 January	R 125,881	R 105,239	R 79,205	R 650	R 310,975	RE 11,668	R 322,643		
February	R 107,975	R 100,080	R 78,298	R 629	R 286,983	RE 11,018	R 298,001		
March	R 99,362	R 102,474	R 81,298	R 597	R 283,731	RE 11,013	R 294,744		
April	R 88,103	R 101,037	R 81.030	R 590	R 270,760	RE 10.535	R 281,294		
May	R 100,895	R 110,800	R 84,678	R 595	R 296,968	RE 11,297	R 308,266		
June	R 122,934	R 118,009	R 83,619	R 597	R 325,160	RE 11,427	R 336,586		
	R 154,579	R 128,535	R 87,219	R 629	R 370,963	RE 12,528	R 383,490		
July	R 147,941	R 128,106	R 88,105	R 633	R 364,785	RE 12,423	R 377,208		
August	P 440 001			033 R 040	° 304,705		R 000 457		
September	R 118,831	R 116,585	R 82,060	R 613	R 318,090	RE 11,368	R 329,457		
October	R 96,669	R 110,471	R 82,996	R 599	R 290,735	RE 11,146	R 301,882		
November	R 97,155	^R 101,641	R 78,847	R 569	R 278,212	RE 11,306	R 289,518		
December	R 114,188	R 104,122	R 78,360	_ ^R 619	R 297,288	RE 11,927	R 309,216		
Total		R 1,327,101	R 985,714	R 7,320	R 3,694,650	R 137,657	R 3,832,306		
013 January	131,252	107,415	78,152	664	317,482	RE 12,028	R 329,510		
February	112,869	100,765	74,402	646	288,683	RE 10,968	R 299,650	l	
March	111,822	103,963	78,079	631	294,496	RE 11.689	R 306.185		
			78,079 77,691	625		RE 10,424	R 285,453		
April	95,334	101,380			275,029	RE 11,284	R 297,196		
May	94,537	108,685	82,068	621	285,911	PE 44 450			
June	117,736	117,674	81,376	631	317,416	RE 11,458	R 328,875		
July	143,456	126,654	83,703	637	354,450	RE 12,225	R 366,676		
August	137,754	127,239	84,810	634	350,437	RE 11,989	R 362,425		
September	121,235	118,826	80,360	630	321,051	_E 11,167	332,218		
9-Month Total	1,065,996	1,012,600	720,642	5,718	2,804,956	E 103,232	2,908,187		
						1		1	
012 9-Month Total	1.066.502	1.010.867	745.511	5,534	2.828.414	E 103.276	2.931.691		

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

sector, excluding public street and highway lighting, interdepartmental sales, and other sales to public authorities.

i "Other (Old)" is a discontinued series—data are for public street and highway

beginning in 1973. Sources: See end of section.

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

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

light l

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

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

Notes: • See Note 1, "Coverage of Electricity Statistics," 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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

Electricity

Note 1. Coverage of Electricity Statistics. Through 1984, data for electric utilities also include institutions (such as universities) and military facilities that generated electricity primarily for their own use; beginning in 1985, data for electric utilities exclude institutions and military facilities. Data for independent power producers, commercial plants, and industrial plants include plants with a generator nameplate capacity of one megawatt or greater; they exclude plants with a generator nameplate capacity less than one megawatt. Also excluded from the electricity statistics in Section 7 are data for residential and commercial self-generation from solar energy, except for the small amount sold to the grid and included in data for the electric power sector.

Note 2. 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.doc.

Table 7.1 Sources

Net Generation, Electric Power Sector

1949 forward: Table 7.2b.

Net Generation, Commercial and Industrial Sectors

1949 forward: Table 7.2c.

Trade

1949–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."

1990–2000: National Energy Board of Canada; and DOE, Office of Electricity Delivery and Energy Reliability, Form FE-781R, "Annual Report of International Electrical Export/Import Data."

2001–May 2011: National Energy Board of Canada; DOE, Office of Electricity Delivery and Energy Reliability, Form OE-781R, "Monthly Electricity Imports and Exports Report," and predecessor form; and California Independent System Operator.

June 2011 forward: National Energy Board of Canada; California Independent System Operator; and EIA estimates for Texas transfers.

T&D Losses and Unaccounted for

1949 forward: Calculated as the sum of total net generation and imports minus end use and exports.

End Use

1949 forward: Table 7.6.

Table 7.2b Sources

1949–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, 1949–1988

1949–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

1949–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

1949–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

1949–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." 1984–2002: EIA, Form EIA-861, "Annual Electric Utility Report."

2003–2011 and 2013: EIA, *Electric Power Monthly (EPM)*, November 2013, Table 5.1.

2012: EIA, *Electric Power Annual 2012*, December 2013, Table 2.5.

Retail Sales, Commercial

1949–2002: 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/state/seds/sep_use/notes/use_elec.pdf. 2003–2011 and 2013: EIA, EPM, November 2013, Table 5.1. 2012: EIA, *Electric Power Annual 2012*, December 2013, Table 2.5.

Retail Sales, Transportation

1949–2002: Estimated by EIA as the transportation portion of "Other (Old)." See estimation methodology at http://www.eia.gov/state/seds/sep_use/notes/use_elec.pdf. 2003 forward: EIA, EPM, November 2013, Table 5.1.

Direct Use, Annual

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

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

2001–2012: EIA, *Electric Power Annual 2012*, December 2013, Table 2.2.

Direct Use, Monthly

1989 forward: 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 2013, the 2012 annual share is used.

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

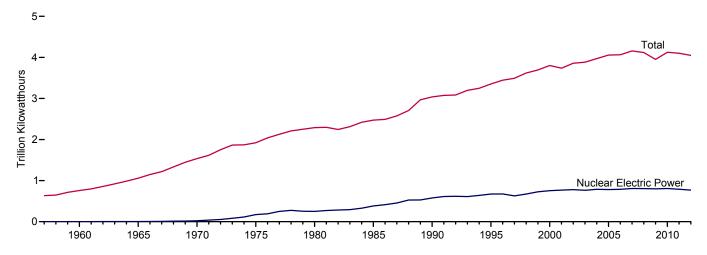
1949–2002: See sources for "Residential" and "Industrial."

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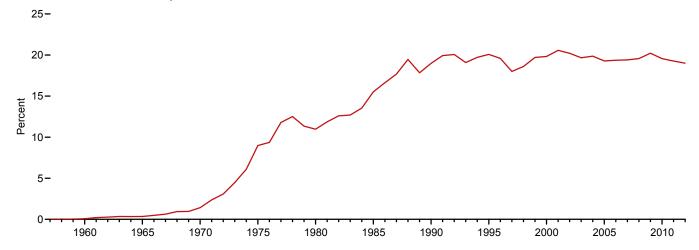
8. Nuclear Energy

Figure 8.1 Nuclear Energy Overview

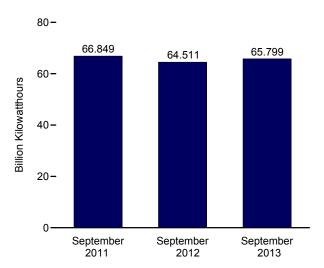
Electricity Net Generation, 1957–2012



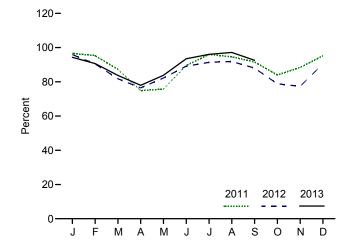
Nuclear Share of Electricity Net Generation, 1957–2012



Nuclear Electricity Net Generation



Capacity Factor, Monthly



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

Table 8.1 Nuclear Energy Overview

	Total Operable Units ^{a,b}	Net Summer Capacity of Operable Units ^{b,c}	Nuclear Electricity Net Generation	Nuclear Share of Electricity Net Generation	Capacity Factor
	Number	Million Kilowatts	Million Kilowatthours	Pe	rcent
957 Total	1	0.055	10	(c)	NA
	3	.411	518	(s)	NA NA
60 Total	-			.1	
65 Total	13	.793	3,657	.3	NA
70 Total	20	7.004	21,804	1.4	NA
75 Total	57	37.267	172,505	9.0	55.9
80 Total	71	51.810	251.116	11.0	56.3
85 Total	96	79.397	383.691	15.5	58.0
90 Total	112	99.624	576,862	19.0	66.0
95 Total	109	99.515	673,402	20.1	77.4
99 Total	109	97.860		19.8	88.1
00 Total			753,893		
01 Total	104	98.159	768,826	20.6	89.4
02 Total	104	98.657	780,064	20.2	90.3
03 Total	104	99.209	763,733	19.7	87.9
04 Total	104	99.628	788,528	19.9	90.1
05 Total	104	99.988	781,986	19.3	89.3
06 Total	104	100.334	787.219	19.4	89.6
007 Total	104	100.266	806,425	19.4	91.8
	104		806,208	19.6	91.1
008 Total		100.755			
09 Total	104	101.004	798,855	20.2	90.3
10 Total	104	° 101.167	806,968	19.6	91.1
11 January	104	E 101.167	72,743	20.0	E 96.6
February	104	E 101.167	64,789	20.7	E 95.3
March	104	E 101.167	65,662	20.6	E 87.2
April	104	E 101.167	54,547	18.0	E 74.9
May	104	E 101.167	57,013	17.6	^E 75.7
June	104	E 101.281	65,270	17.7	E 89.5
July	104	^E 101.281	72,345	17.3	E 96.0
August	104	E 101.351	71,339	17.5	E 94.6
September	104	E 101.351	66.849	19.8	E 91.6
	104	E 101.351			E 84.0
October			63,337	20.5	
November	104	E 101.351	64,474	21.2	E 88.4
December	104	101.419	71,837	21.4	95.2
Total	104	101.419	790,204	19.3	89.1
112 January	104	RE 101.434	72,381	R 21.3	E 95.9
February	104	RE 101.449	63,847	20.6	RE 90.4
March	104	^{RE} 101.465	61,729	20.0	E 81.8
April	104	RE 101.480	55,871	18.9	^E 76.5
May	104	RE 101 518	62.081	18.4	RE 82.2
June	104	RE 101.533	65,140	R 18.1	RE 89 1
July	104	RE 101.671	69,129	R 16.7	RE 91.4
	104	RE 101.795	69,602	17.6	RE 91.9
August	104	RE 101.810		19.3	RE 88.0
September		RE 404 000	64,511		00.U RE 70.0
October	104	RE 101.826	59,743	R 19.2	RE 78.9
November	104	RE 101.870	56,713	R 18.5	RE 77.3
December Total	104 104	^R 101.885 ^R 101.885	68,584 769,331	20.5 19.0	^R 90.5 86.2
			•		
113 January	104	E 101.760	71,406	20.5	E 94.3
February	103	E 100.900	61,483	19.9	E 90.7
March	103	E 101.009	62,947	19.3	E 83.8
April	103	<u>E</u> 101.157	56,767	19.0	^E 77.9
May	102	E 100.836	62,848	19.5	E 83.8
June	100	E 98.686	66,430	18.6	E 93.5
July	100	E 98.686	70,531	17.9	E 96.1
August	100	E 98.686	71,344	18.6	E 97.2
September	100	E 98.686	65.799	19.3	E 92.6
9-Month Total	100 100	E 98.686	589,556	19.2	E 89.9
		E 101.810	584,292		
12 9-Month Total	104			18.9	^E 87.5

 $^{^{\}rm a}$ 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.

At end of period.
 For the definition of "Net Summer Capacity," see Note 2, "Nuclear Capacity," at end of section. Beginning in 2010, monthly capacity values are estimated in two steps: 1) uprates reported on Form EIA-860M are added to specific months; and 2) the difference between the resulting year-end capacity (from data reported on Form EIA-860M) and final capacity (reported on Form EIA-860) is distributed evenly

across the 12 months.

d For an explanation of the method of calculating the capacity factor, see Note

^{2, &}quot;Nuclear Capacity," at end of section.
R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.05.
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 (Excel
and CSV files) for all available annual data beginning in 1957 and monthly data
beginning in 1973.

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.

The following nuclear generating units have recently been retired: Crystal River 3 in February 2013; Kewaunee in May 2013; and San Onofre 2 and 3 in June 2013.

- **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

1957–1982: 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 predecessor forms; Form EIA-860M, "Monthly Update to the Annual Electric Generator Report"; and monthly updates as appropriate. For a list of operable units as of November 2011, see http://www.eia.gov/nuclear/reactors/stats table1.html.

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation

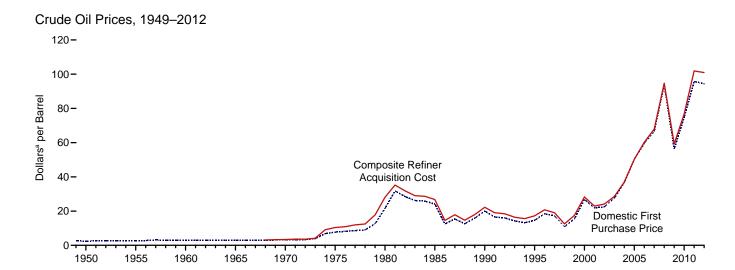
1957 forward: Table 7.2a.

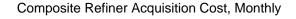
Capacity Factor

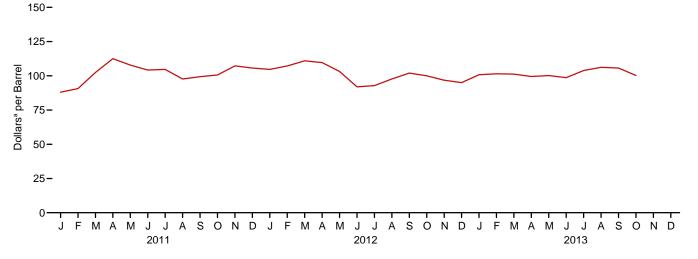
1973 forward: Calculated by EIA using the method described above in Note 2.

9. Energy Prices

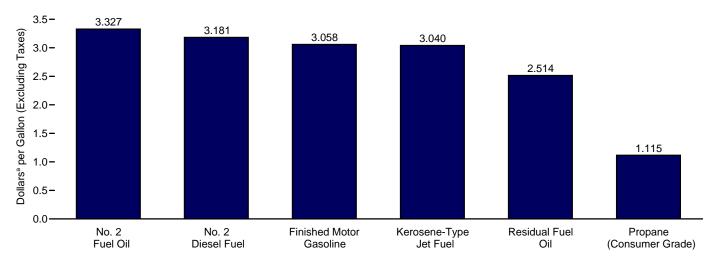
Figure 9.1 Petroleum Prices







Refiner Prices to End Users: Selected Products, September 2013



^a Prices 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)

	Dames d'a Finat	50 B 0	1 1. 10	R	definer Acquisition Cos	st ^b
	Domestic First Purchase Price ^c	F.O.B. Cost of Imports ^d	Landed Cost of Imports ^e	Domestic	Imported	Composite
950 Average	2.51	NA	NA	NA	NA	NA
955 Average	2.77	NA NA	NA NA	NA NA	NA NA	NA NA
	2.88	NA NA	NA NA	NA NA	NA NA	NA NA
960 Average						
965 Average	2.86	NA	NA	NA .	NA	NA .
970 Average	3.18	NA	NA	^E 3.46	^E 2.96	E 3.40
975 Average	7.67	11.18	12.70	8.39	13.93	10.38
080 Average	21.59	32.37	33.67	24.23	33.89	28.07
985 Average	24.09	25.84	26.67	26.66	26.99	26.75
990 Average	20.03	20.37	21.13	22.59	21.76	22.22
	14.62	15.69	16.78	17.33	17.14	17.23
995 Average						
000 Average	26.72	26.27	27.53	29.11	27.70	28.26
001 Average	21.84	20.46	21.82	24.33	22.00	22.95
002 Average	22.51	22.63	23.91	24.65	23.71	24.10
003 Average	27.56	25.86	27.69	29.82	27.71	28.53
004 Average	36.77	33.75	36.07	38.97	35.90	36.98
005 Average	50.28	47.60	49.29	52.94	48.86	50.24
						60.24
006 Average	59.69	57.03	59.11	62.62	59.02	
007 Average	66.52	66.36	67.97	69.65	67.04	67.94
008 Average	94.04	90.32	93.33	98.47	92.77	94.74
009 Average	56.35	57.78	60.23	59.49	59.17	59.29
010 Average	74.71	74.19	76.50	78.01	75.86	76.69
)11 January	85.66	86.81	89.47	88.70	87.61	88.04
February	86.69	92.20	94.28	89.50	91.42	90.66
March	99.19	104.17	104.73	102.41	102.43	102.43
	108.80	111.52	112.43	111.70	113.02	112.51
April						
May	102.46	105.81	108.18	107.63	107.98	107.84
June	97.30	104.33	105.18	102.51	105.38	104.23
July	97.82	105.59	106.22	102.67	105.94	104.68
August	89.00	97.72	99.30	95.90	99.00	97.70
September	90.22	100.82	101.03	96.89	101.05	99.39
October	92.28	101.91	102.55	98.34	101.99	100.57
November	100.18	105.79	106.00	106.69	107.67	107.28
December	98.71	103.09	105.62	104.51	106.52	105.69
Average	95.73	101.66	102.92	100.71	102.63	101.87
012 January	98.99	103.96	105.27	103.97	105.25	104.71
February	102.04	108.56	109.23	105.93	108.08	107.18
March	105.42	110.65	110.62	110.80	111.00	110.92
April	103.62	107.17	107.55	111.22	108.54	109.68
	95.57	100.79	101.56	103.04	103.26	103.17
May						
June	83.59	87.89	91.90	91.66	92.18	91.96
July	86.10	92.50	93.68	92.64	92.99	92.84
August	92.53	99.63	98.70	98.58	97.04	97.70
September	95.98	101.03	101.34	102.17	101.82	101.97
October	92.24	97.75	99.22	99.07	100.92	100.02
November	89.64	91.86	96.20	95.28	98.07	96.78
December	89.81	92.69	95.01	96.56	93.70	95.06
Average	94.52	99.78	101.00	100.72	101.09	100.93
013 January	94.89	95.23	95.19	103.78	97.91	100.78
February	95.04	100.94	99.09	103.75	99.23	101.45
March	95.85	100.21	98.51	103.45	99.11	101.23
April	94.72	95.56	95.72	102.53	96.45	99.50
May	95.00	96.20	97.41	101.98	98.50	100.17
	94.05	96.22	96.90	100.26	97.17	98.67
June						
July	101.61	R 101.37	R 101.19	106.19	101.56	103.85
August	R 103.14	R 102.04	R 103.27	108.30	104.16	106.20
September	^R 102.45	^R 101.99	^R 102.19	^R 107.96	^R 103.49	R 105.70
October	NA	NA	NA	E 103.71	E 97.40	E 100.23

Notes: • Domestic first purchase prices and refinery acquisition costs for the current two months are preliminary. F.O.B. and landed costs for the current three months are preliminary. • Through 1980, F.O.B. and landed costs reflect the period of reporting; beginning in 1981, they reflect the period of loading. • Annual averages are the averages of the monthly prices, weighted by volume.

Virgin Islands, and all U.S. Territories and Possessions.

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

Sources: See end of section.

<sup>a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
b See Note 1, "Crude Oil Refinery Acquisition Costs," at end of section.
c See Note 2, "Crude Oil Domestic First Purchase Prices," at end of section.
d See Note 3, "Crude Oil F.O.B. Costs," at end of section.
e See Note 4, "Crude Oil Landed Costs," at end of section.
R=Revised. NA=Not available. E=Estimate.</sup>

[•] Geographic coverage is the 50 states, the District of Columbia, Puerto Rico, the

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

(Dollarsa per Barrel)

			s	elected Count	ries					
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian 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		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		20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
1995 Average		16.73	15.64	17.40	W	16.94	13.86	W	15.36	16.02
2000 Average		29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
2001 Average		24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
2002 Average	24.09	24.64	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
2003 Average	28.22	28.89	24.83	29.40	25.03	28.76	23.81	25.17	25.36	26.21
2004 Average		37.73	31.55	38.71	34.08	37.30	31.78	33.08	33.95	33.58
2005 Average		51.89	43.00	55.95	47.96	54.48	46.39	47.21	49.60	45.79
2006 Average		59.77	52.91	65.69	56.09	66.03	55.80	56.02	59.18	55.35
2007 Average	67.80	67.93	61.35	76.64	W	69.96	64.10	69.93	69.58	62.69
2008 Average	95.66	91.17	84.61	102.06	93.03	96.33	88.06	91.44	93.15	87.15
2009 Average	57.07	57.90	56.47	64.61	57.87	65.63	55.58	59.53	58.53	57.16
2010 Average		72.56	72.46	80.83	76.44	w	70.30	75.65	75.23	73.24
2011 January	95.97	83.36	84.45	99.86	W	_	81.25	W	89.74	83.96
February		88.55	88.77	109.07	W	_	85.11	97.25	96.01	88.99
March	113.63	101.29	102.55	117.98	W	_	97.56	107.36	106.19	102.41
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	110.02	108.43	103.64
June	115.13	102.78	103.43	119.13	W	_	100.59	106.39	108.22	100.37
July	114.80	100.30	104.84	119.68	W	_	100.62	109.06	110.09	100.88
August	W	95.01	98.21	115.61	W	_	97.17	106.98	104.19	93.57
September	112.49	97.45	100.28	115.43	109.99	_	95.72	108.41	105.82	97.06
October		102.37	101.48	114.46	W	_	96.93	105.62	105.20	98.64
November	112.49	106.97	107.94	115.35	W	_	105.44	106.51	108.16	104.17
December	111.26	103.10	105.96	W	W	_	105.75	104.48	106.42	100.80
Average	111.82	100.21	100.90	115.35	107.08	-	97.23	106.47	105.34	98.49
2012 January		106.69	107.79	114.12	W	_	105.08	107.51	107.51	101.40
February		114.47	110.14	124.31	W	_	110.37	111.12	113.85	103.42
March		118.46	114.81	128.10	W	_	112.76	118.06	117.06	104.65
April		114.06	110.54	W	W	_	109.33	115.02	113.85	101.42
May		101.27	103.12	110.79	W	_	101.45	105.16	105.28	96.74
June		91.81	90.60	98.96	91.90	-	87.64	90.55	90.63	85.28
July		96.83	95.03	103.86	W	-	93.81	95.47	96.30	88.46
August		106.16	101.12	114.62	W	_	99.94	104.87	104.18	95.13
September		108.59	102.49	111.74	107.14	_	101.00	105.58	105.05	97.52
October		105.77	98.98	W	W	_	98.10	102.70	101.29	95.05
November		103.75	93.45	_	W	_	93.15	101.91	95.94	89.37
December Average		101.24 106.43	94.19 101.84	W 114.51	W 106.65	_	92.99 100.15	102.93 105.45	98.04 104.39	87.64 95.71
-										
2013 January February		106.99 106.45	100.16 108.25	W W	W W	_	97.15 104.06	105.30 105.22	102.42 106.93	91.51 97.34
March		101.31	105.16	111.03	w	_	101.60	108.10	105.77	94.86
April		99.58	99.95	W	W	_	95.01	100.10	98.68	93.04
May		98.97	99.21	106.45	w	_	95.48	98.46	98.72	94.06
June		98.56	97.16	W	W	_	95.71	97.42	98.45	94.58
July	W	102.20	101.27	W	w	W	100.32	R 101.21	R 102.36	R 100.56
August		R 105.59	R 100.97	R 111.28	w	_	R 101.12	R 104.10	R 103.70	R 100.69
September		103.16	100.60	W	103.45	_	100.59	103.15	104.01	100.54

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

Notes: • The Free on Board (F.O.B.) cost at the country of origin excludes all Notes: • The Free on Board (F.U.B.) cost at the country of origin excludes all costs related to insurance and transportation. See "F.O.B. (Free on Board)" in Glossary, and Note 3, "Crude Oil F.O.B. Costs," at end of section. • Values for the current two months are preliminary.

• Through 1980, prices reflect the period of loading.

• Annual averages are averages of the monthly prices, including prices not published, weighted by volume.

• Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 states and the District of Columbia.

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

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

See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973–2008, also includes Indonesia; for 1973–1992 and again beginning in 2008, also include Seudek, (Although Equators, Irange Cope Can Neuropean 2007, etc.) also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974–1995, also includes Gabon (although Gabon was a member of OPEC for only 1975–1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC."

^d Based on October, November, and December data only.

R=Revised. - =No data reported. W=Value withheld to avoid disclosure of individual company data.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollars^a per Barrel)

		Selected Countries									
				Selected	Journales	Saudi	United		Persian Gulf	Total	Total
	Angola	Canada	Colombia	Mexico	Nigeria	Arabia	Kingdom	Venezuela	Nationsb	OPEC	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
2000 Average	29.57	26.69	29.68	26.03	30.04	26.58	29.26	26.05	26.77	27.29	27.80
2001 Average	25.13	20.72	25.88	19.37	26.55	20.98	25.32	19.81	20.73	21.52	22.17
2002 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 Average	61.32	57.60	58.50	57.35	68.01	62.14	63.87	57.78	62.15	61.90	58.58
2010 Average	80.61	72.80	74.25	72.86	83.14	79.29	80.29	72.43	78.60	78.28	74.68
2011 January	99.58	81.96	85.88	85.07	101.24	96.59	W	84.70	96.41	94.00	85.07
February	110.07	80.54	90.93	89.08	109.61	103.20	W	89.88	101.81	100.19	89.00
March	114.40	89.39	105.84	103.03	117.17	110.22	118.42	101.22	109.64	109.26	101.11
April	123.35	99.13	112.47	110.55	126.47	116.13	124.38	107.95	115.07	116.57	108.80
May	116.76	98.12	109.70	105.62	119.95	112.19	W	104.04	111.10	111.75	104.97
June	116.73	92.33	104.31	103.71	120.81	110.00	W	102.32	108.97	109.87	100.82
July	117.77	91.75	101.35	105.38	121.80	111.06	W	103.04	110.19	111.61	100.37
August	113.36	84.05	95.08	98.78	115.83	109.45	W	99.54	108.32	106.27	93.83
September	112.63	85.21	99.17	99.90	117.19	109.91	W	99.10	108.82	107.67	95.59
October	114.82	88.20	104.14	101.97	116.09	108.90	W	99.89	108.00	107.95	97.93
November	115.14	93.80	108.52	108.46	117.05	108.61	W	106.90	108.39	110.10	102.91
December Average	115.65 114.05	95.74 89.92	106.64 102.57	106.31 101.21	117.10 116.43	108.27 108.83	118.45	108.02 100.14	107.53 108.01	109.63 107.84	102.52 98.64
2012 January	115.13	93.43	110.54	108.38	115.41	110.49	W	106.23	110.61	110.32	101.31
February	121.30	92.09	115.19	111.24	126.42	114.75	W	111.72	114.24	115.76	102.99
March	128.35	88.71	119.93	115.20	130.46	117.55	_	114.29	116.71	117.99	103.94
April	120.60	85.55	113.78	111.55	124.06	115.33	W	110.58	115.77	116.10	99.94
May	114.94	82.78	105.04	103.79	113.89	108.39	W	103.02	108.52	108.26	95.21
June	103.10	78.11	93.85	90.89	103.24	99.38	_	89.41	99.24	97.29	87.15
July	106.95	75.65	97.70	95.24	106.95	99.00	W	94.91	99.05	99.49	88.11
August	113.27	80.68	105.94	101.98	114.51	104.66	_	101.38	104.35	105.27	92.29
September	116.51	85.42	109.19	103.16	114.95	107.06	_	102.97	106.29	107.02	95.79
October	114.90	86.35	106.48	99.09	117.03	106.12	W	99.31	105.76	105.81	93.77
November	111.01	82.89	104.74	94.32	112.41	106.05	_	94.67	104.94	102.26	91.17
December	116.37	76.68	102.86	94.98	114.52	106.87	W	94.30	105.78	103.38	86.76
Average	114.95	84.24	107.07	102.45	116.88	108.15	W	101.58	107.74	107.56	95.05
2013 January	115.79	75.45	106.36	101.04	120.99	108.57	_	99.04	107.02	106.85	86.43
February	115.77	76.67	109.28	108.95	117.89	108.75	W	105.54	107.96	108.83	90.85
March	110.56	79.59	105.37	106.36	114.08	107.71	W	103.35	108.02	107.57	90.36
April	105.56	83.02	101.42	100.63	106.03	102.30	W	96.19	102.31	101.76	90.79
May	106.32	86.83	100.70	100.07	108.12	101.54	W	97.44	101.35	101.62	93.50
June	106.73	88.26	99.47	97.56	108.38	101.41	W	97.44	101.26	101.21	93.49
July	R 110.43	94.16	102.47	101.87	W	104.13	W	101.65	R 103.15	R 103.96	R 98.66
August		^R 98.81	R 106.04	^R 101.52	R 114.34	R 105.82	W	^R 102.95	^R 104.94	^R 105.34	^R 101.65
September	115.03	96.09	105.49	101.12	W	103.98	_	102.16	104.24	105.33	100.05

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

CSV files) for all available annual and monthly data beginning in 1973.

Sources: • October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." • October 1977–December 1977: U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." • 1978–2007: EIA, Petroleum Marketing Annual 2007, Table 22. • 2008 forward: EIA, Petroleum Marketing Monthly, December 2013, Table 22.

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

^c See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary.

On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973–2008, also includes Indonesia; for 1973–1992 and again beginning in 2008, also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974–1995, also includes Gabon (although Gabon was a member of OPEC for only 1975-1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC."

d Based on October, November, and December data only.

R=Revised. - =No data reported. W=Value withheld to avoid disclosure of 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.

Through 1980, prices reflect the period of reporting; beginning in 1981, prices reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices (Excel and

Retail Motor Gasoline and On-Highway Diesel Fuel Prices

(Dollars^a per Gallon, Including Taxes)

	Р	latt's / Bureau of I	_abor Statistics I	Data	U.S. E	Energy Information A	dministration D	ata
		Motor Gaso	line by Grade		Regular M	otor Gasoline by Are	а Туре	
	Leaded Regular	Unleaded Regular	Unleaded Premium ^b	All Grades ^c	Conventional Gasoline Areas ^d	Reformulated Gasoline Areas ^e	All Areas	On-Highway Diesel Fuel
1950 Average	0.268	NA	NA	NA				
1955 Average		NA	NA	NA				
1960 Average		NA	NA	NA				
1965 Average	312	NA	NA	NA				
1970 Average		NA	NA	NA				
1975 Average		NA	NA	NA				
1980 Average		1.245	NA 1 2 4 2	1.221				
1985 Average		1.202	1.340	1.196				1
1990 Average	1.149	1.164 1.147	1.349	1.217 1.205	NA 1.103	NA 1.163	NA 1.111	NA 1.109
1995 Average		1.510	1.336 1.693	1.563	1.103	1.543	1.484	1.491
2000 Average		1.461	1.657	1.531	1.384	1.498	1.464	1.491
2001 Average 2002 Average		1.358	1.556	1.441	1.313	1.498	1.345	1.319
2003 Average		1.591	1.777	1.638	1.516	1.655	1.561	1.509
2004 Average		1.880	2.068	1.923	1.812	1.937	1.852	1.810
2005 Average		2.295	2.491	2.338	2.240	2,335	2.270	2.402
2006 Average		2.589	2.805	2.635	2.533	2.654	2.572	2.705
2007 Average		2.801	3.033	2.849	2.767	2.857	2.796	2.885
2008 Average		3.266	3.519	3.317	3.213	3.314	3.246	3.803
2009 Average		2,350	2.607	2.401	2.315	2.433	2.353	2.467
2010 Average		2.788	3.047	2.836	2.742	2.864	2.782	2.992
2011 January		3.091	3.345	3.139	3.058	3.173	3.095	3.388
February		3.167	3.424	3.215	3.168	3.301	3.211	3.584
March		3.546	3.807	3.594	3.509	3.671	3.561	3.905
April		3.816	4.074	3.863	3.746	3.914	3.800	4.064
May		3.933	4.192	3.982	3.849	4.025	3.906	4.047
June		3.702	3.972	3.753	3.628	3.789	3.680	3.933
July		3.654	3.915	3.703	3.614	3.726	3.650	3.905
August		3.630	3.893	3.680	3.612	3.698	3.639	3.860
September		3.612	3.887	3.664	3.573	3.693	3.611	3.837
October		3.468	3.745	3.521	3.400	3.549	3.448	3.798
November		3.423 3.278	3.700 3.553	3.475 3.329	3.330 3.220	3.497 3.361	3.384 3.266	3.962 3.861
December Average		3.527	3.792	3.577	3.476	3.616	3.521	3.840
2012 January		3.399	3.663	3.447	3.330	3.486	3.380	3.833
February		3.572	3.840	3.622	3.517	3.711	3.579	3.953
March		3.868	4.138	3.918	3.774	4.017	3.852	4.127
April		3.927	4.194	3.976	3.837	4.032	3.900	4.115
May		3.792	4.062	3.839	3.643	3.919	3.732	3.979
June		3.552	3.825	3.602	3.465	3.695	3.539	3.759
July		3.451	3.726	3.502	3.379	3.565	3.439	3.721
August		3.707	3.991	3.759	3.668	3.834	3.722	3.983
September		3.856	4.140	3.908	3.801	3.949	3.849	4.120
October		3.786	4.079	3.839	3.653	3.939	3.746	4.094
November		3.488	3.782	3.542	3.380	3.603	3.452	4.000
December		3.331	3.626	3.386	3.256	3.424	3.310	3.961
Average		3.644	3.922	3.695	3.552	3.757	3.618	3.968
2013 January		3.351 3.693	3.646 3.990	3.407 3.748	3.255 3.605	3.452 3.807	3.319 3.670	3.909 4.111
February		3.735	3.990 4.038	3.748 3.792	3.648	3.807 3.845		4.111
March		3.735 3.590	4.038 3.901	3.792 3.647	3.501	3.845 3.714	3.711 3.570	3.930
April May		3.623	3.936	3.682	3.565	3.720	3.615	3.870
June		3.633	3.957	3.693	3.576	3.731	3.626	3.849
July		3.628	3.951	3.687	3.515	3.751	3.591	3.866
August		3.600	3.919	3.658	3.515	3.697	3.574	3.905
September		3.556	3.881	3.616	3.474	3.656	3.532	3.961
		000	00.					
October		3.375	3.702	3,434	3.285	3.468	3.344	3.885

states and the District of Columbia.

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

Sources: • Motor Gasoline by Grade, Monthly Data: October 1973 forward—U.S. Department of Labor, Bureau of Labor Statistics (BLS), U.S. City Average Gasoline Prices. • Motor Gasoline by Grade, Annual Data: 1949–1973—Platt's Oil Price Handbook and Oilmanac, 1974, 51st Edition. 1974 forward—calculated by the U.S. Energy Information Administration (EIA) as simple averages of the BLS monthly data. • Regular Motor Gasoline by Area Type: EIA, calculated as simple averages of weighted weekly estimates from "Weekly U.S. Retail Gasoline Prices, Regular Grade." • On-Highway Diesel Fuel: EIA calculated as simple averages of weighted weekly estimates from "Weekly Retail On-Highway Diesel Prices."

 ^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 grades of motor gasoline not shown separately.

c Also includes grades of motor gasoline not shown separately.
d Any area that does not require the sale of reformulated gasoline.
e "Reformulated Gasoline Areas" are ozone nonattainment areas designated by the U.S. Environmental Protection Agency that require the use of reformulated gasoline (RFG). Areas are reclassified each time a shift in or out of an RFG program occurs due to federal or state regulations.
NA=Not available. − − =Not applicable.
Notes: • See Note 5, "Motor Gasoline Prices," at end of section. • See "Motor Gasoline Grades," "Motor Gasoline, Conventional," "Motor Gasoline, Oxygenated," and "Motor Gasoline, Reformulated" in Glossary. • Geographic coverage: for columns 1−4, current coverage is 85 urban areas; for columns 5−7, coverage is the 50 states and the District of Columbia; for column 8, coverage is the 48 contiguous

Table 9.5 Refiner Prices of Residual Fuel Oil

(Dollars^a per Gallon, Excluding Taxes)

	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Sulfur	al Fuel Oil Content an 1 Percent	Average		
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	
978 Average	0.293	0.314	0.245	0.275	0.263	0.298	
980 Average	.608	.675	.479	.523	.528	.607	
985 Average	.610	.644	.560	.582	.577	.610	
90 Average	.472	.505	.372	.400	.413	.444	
95 Average	.383	.436	.338	.377	.363	.392	
00 Average	.627	.708	.512	.566	.566	.602	
01 Average	.523	.642	.428	.492	.476	.531	
02 Average	.546	.640	.508	.544	.530	.569	
03 Average	.728	.804	.588	.651	.661	.698	
04 Average	.764	.835	.601	.692	.681	.739	
005 Average	1.115	1.168	.842	.974	.971	1.048	
06 Average	1,202	1.342	1.085	1.173	1.136	1,218	
07 Average	1.406	1.436	1,314	1.350	1.350	1.374	
008 Average	1.918	2.144	1.843	1.889	1.866	1.964	
009 Average	1.337	1.413	1.344	1.306	1.342	1.341	
010 Average	1.756	1.920	1.679	1.619	1.697	1.713	
011 January	NA	2.302	1.896	1.870	1.918	2.013	
February	2.100	2.451	2.079	2.019	2.086	2.150	
March	2.344	2.654	2.307	2.245	2.321	2.403	
April	2.555	2.741	2.427	2.370	2.448	2.475	
May	2.463	2.786	2.374	2.325	2.392	2.440	
June	2.467	2.905	2.377	2.312	2.402	2.473	
July	2.547	2.877	2.430	2.362	2.474	2.508	
August	2.394	2.896	2.392	2.342	2.392	2.512	
September	2.368	2.882	2.370	2.318	2.369	2.473	
October	2.512	2.891	2.375	2.276	2.406	2.473	
November	2.566	2.853	2.424	2.368	2.459	2.521	
	2.473	2.891	2.335	2.348	2.371	2.509	
December Average	2.389	2.736	2.316	2.346 2.257	2.336	2.401	
012 January	2.591	2.965	2.480	2.452	2.512	2.620	
February	2.739	3.070	2.632	2.556	2.654	2.705	
March	2.739	3.159	2.717	2.601	2.772	2.784	
April	2.805	3.201	2.624	2.596	2.670	2.731	
May	2.589	3.201	2.624	2.652	2.527	2.784	
June	2.275	3.083	2.186	2.032	2.211	2.476	
July	2.275	2.926	2.100	2.179	2.234	2.476	
August	2.586	3.041	2.457	2.442	2.483	2.579	
	2.558	2.970	2.457	2.442	2.403	2.579	
September October	2.464	2.969	2.393	2.382	2.409	2.496	
	2.464	2.895	2.393	2.382	2.409	2.496	
November	2.385	2.895 2.814	2.283	2.346	2.300	2.492 2.431	
December Average	2.548	3.025	2.429	2.275 2.433	2.200 2.457	2.431 2.592	
	2.530	2.874	2.328	2.333	2.388	2.475	
113 January February	2.530	2.874 3.017	2.328	2.333	2.388	2.475 2.578	
March	2.479	2.949	2.294	2.320	2.346	2.517	
April	2.354	2.875	2.214	2.238	2.246	2.354	
May	2.316	2.839	2.213	2.421	2.240	2.507	
June	2.285	2.785	2.214	2.385	2.234	2.454	
July	2.282	2.768	2.225	2.280	2.242	2.384	
August	2.331	2.759	2.258	2.411	2.277	2.500	
September	2.359	2.839	2.265	2.412	2.286	2.514	

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

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and commercial consumers.

• Values for the current month are preliminary.

• Through 1982, prices are U.S. Energy Information Administration (EIA)

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 (Excel and CSV files) for all available annual data beginning in 1978 and monthly data beginning in 1982.

Sources: • 1978-2007: EIA, Petroleum Marketing Annual 2007, Table 17. • 2008 forward: EIA, Petroleum Marketing Monthly, December 2013, Table 16.

Table 9.6 Refiner Prices of Petroleum Products for Resale

(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)
978 Average	0.434	0.537	0.386	0.404	0.369	0.365	0.237
980 Average	.941	1.128	.868	.864	.803	.801	.415
985 Average	.835	1.130	.794	.874	.776	.772	.398
90 Average	.786	1.063	.773	.839	.697	.694	.386
95 Average	.626	.975	.539	.580	.511	.538	.344
00 Average	.963	1.330	.880	.969	.886	.898	.595
01 Average	.886	1.256	.763	.821	.756	.784	.540
02 Average	.828	1.146	.716	.752	.694	.724	.431
03 Average	1.002	1.288	.871	.955	.881	.883	.607
	1.288	1.627	1.208	1.271		1.187	.751
004 Average					1.125		
005 Average	1.670	2.076	1.723	1.757	1.623	1.737	.933
06 Average	1.969	2.490	1.961	2.007	1.834	2.012	1.031
007 Average	2.182	2.758	2.171	2.249	2.072	2.203	1.194
008 Average	2.586	3.342	3.020	2.851	2.745	2.994	1.437
009 Average	1.767	2.480	1.719	1.844	1.657	1.713	.921
010 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	2.962	3.096	2.915	3.035	1.511
November	2.701	3.494	3.089	3.258	3.050	3.157	1.498
December	2.614	3.424	2.951	3.006	2.928	2.927	1.444
Average	2.867	3.739	3.014	3.065	2.907	3.034	1.467
112 January	2.747	3.576	3.059	3.197	3.027	3.018	1.341
February	2.936	3.788	3.186	3.293	3.166	3.163	1.282
	3.203	4.052	3.296	3.306	3.211	3.308	1.293
March							
April	3.189	4.157	3.255	3.243	3.153	3.252	1.163
May	3.016	4.004	3.076	3.008	2.976	3.039	.950
June	2.757	3.883	2.747	2.697	2.635	2.741	.762
July	2.806	3.877	2.850	2.936	2.774	2.907	.809
August	3.087	4.124	3.129	3.195	2.988	3.206	.875
September	3.163	4.269	3.245	3.236	3.128	3.278	.910
October	2.941	4.002	3.182	3.250	3.155	3.265	.979
November	2.713	3.508	3.015	3.221	3.049	3.117	.955
December	2.590	3.518	2.982	3.145	3.003	3.022	.894
Average	2.929	3.919	3.080	3.163	3.031	3.109	1.033
113 January	2.676	3.685	3.093	3.334	3.069	3.046	.928
February	3.020	4.058	3.250	3.474	3.168	3.259	.953
March	2.987	4.085	3.036	3.137	2.977	3.082	.952
April	2.853	3.962	2.884	2.889	2.793	2.969	.949
May	2.951	4.068	2.763	2.793	2.708	2.958	.932
June	2.882	3.950	2.784	2.806	2.741	2.923	.861
July	2.942	4.017	2.764	2.996	2.894	3.015	.903
	2.942	4.017	2.099	2.990	2.094	3.013	.903
August	2.890	R 4.025	2.995	3.055	2.954	3.084	1.059

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

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 (Excel and CSV files) for all available annual data beginning in 1978 and monthly data beginning in 1982.

Sources: • 1978–2007: EIA, Petroleum Marketing Annual 2007, Table 4.
• 2008 forward: EIA, Petroleum Marketing Monthly, December 2013, Table 4.

b See Note 5, "Motor Gasoline Prices," at end of section.

R=Revised. W=Value withheld to avoid disclosure of individual company data.

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are shown in Table 9.7; they are sales made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. • Values for the current month are preliminary. • Through 1982, prices 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 (Consumer Grade)
1978 Average	0.484	0.516	0.387	0.421	0.400	0.377	0.335
1980 Average	1.035	1.084	.868	.902	.788	.818	.482
1985 Average	.912	1.201	.796	1.030	.849	.789	.717
1990 Average	.883	1.120	.766	.923	.734	.725	.745
1995 Average	.765	1.005	.540	.589	.562	.560	.492
2000 Average	1.106	1.306	.899	1.123	.927	.935	.603
2001 Average	1.032	1.323	.775	1.045	.829	.842	.506
002 Average	.947	1.288	.721	.990	.737	.762	.419
2003 Average	1.156	1.493	.872	1.224	.933	.944	.577
2004 Average	1.435	1.819	1.207	1.160	1.173	1,243	.839
2005 Average	1.829	2.231	1.735	1.957	1.705	1.786	1.089
2006 Average	2.128	2.682	1.998	2.244	1.982	2.096	1.358
	2.345	2.849	2.165	2.263	2.241	2.267	1.489
2007 Average	2.775	3.273	3.052	3.283	2.986	3.150	1.892
2008 Average	2.775 1.888	3.273 2.442	3.052 1.704	3.283 2.675	2.986 1.962	3.150 1.834	1.892
2009 Average			1.704 2.201				
2010 Average	2.301	3.028	2.201	3.063	2.462	2.314	1.481
2011 January	2.615	3.323	2.623	3.358	2.889	2.681	NA
February	2.712	3.374	2.818	3.506	3.020	2.867	1.823
March	3.072	3.767	3.161	3.697	3.255	3.189	1.763
April	3.340	4.132	3.306	3.796	3.430	3.370	NA
May	3.419	4.091	3.220	3.894	3.337	3.231	1.648
June	3.184	3.913	3.138	3.802	3.193	3.183	1.681
July	3.172	4.027	3.118	3.812	3.294	3.214	1.620
August	3.134	3.920	3.057	3.851	3.251	3.143	1.650
September	3.090	3.915	3.059	3.873	3.288	3.127	1.702
October	2.980	3.697	2.987	3.823	3.346	3.108	1.706
November	2.922	3.620	3.124	3.892	3.403	3.225	1.773
December	2.808	W	2.963	3.824	3.255	3.024	1.691
Average	3.050	3.803	3.054	3.616	3.193	3.117	1.709
2012 January	2.914	3.732	3.087	3.848	3.345	3.093	1.655
February	3.087	W	3.206	3.874	3.495	3.224	1.518
March	3.389	4.133	3.337	3.919	3.522	3.378	1.470
April	3.405	4.313	3.283	3.916	3.509	3.342	1.352
May	3.289	W	3.100	3.741	3.258	3.163	1.080
June	3.061	W	2.768	3.753	2.982	2.912	.902
July	2.981	W	2.856	3.612	3.041	2.989	.972
August	3.248	4.091	3.123	3.575	3.256	3.265	.916
September	3.357	4.262	3.283	3.771	3.361	3.367	.932
	3.357 3.261	4.262	3.203 3.211	3.864	3.486	3.364	.980
October							.926
November	2.994	3.561	3.045	3.854	3.403	3.206	
December	2.828	3.599	3.008	3.789	3.321	3.115	.840
Average	3.154	3.971	3.104	3.843	3.358	3.202	1.139
013 January	2.850	W	3.117	3.790	3.341	3.129	.891
February	3.221	4.060	3.294	3.887	3.498	3.339	.925
March	3.233	4.022	3.070	3.869	3.314	3.204	.943
April	3.102	3.860	2.922	3.836	3.217	3.090	.971
May	3.188	3.900	2.787	3.786	3.222	3.058	.953
June	3.184	4.191	2.813	3.634	3.172	3.028	.876
July	3.146	4.224	2.908	3.840	3.244	3.099	.935
August	3.097	R 4.298	3.002	3.707	3.314	3.169	1.074
September	3.058	3.993	3.040	3.849	3.327	3.181	1.115

Notes: • Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. Sales for resale are shown in Table 9.6; they are sales made to purchasers other than ultimate consumers. • Values for the current month are preliminary. • Through 1982, prices 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.

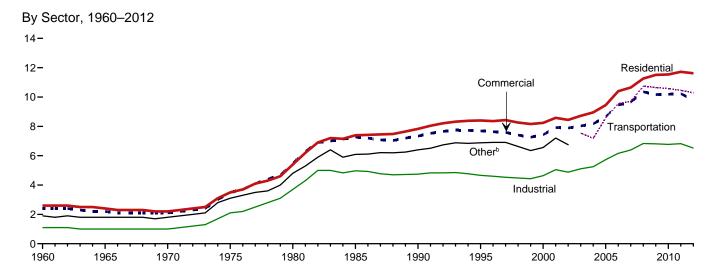
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices (Excel and CSV files) for all available annual data beginning in 1978 and monthly data beginning in 1982.

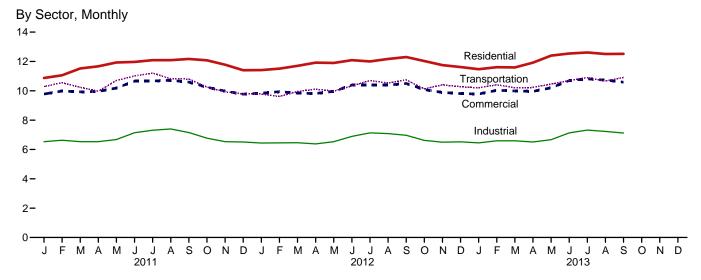
Sources: • 1978–2007: EIA, Petroleum Marketing Annual 2007, Table 2.
• 2008 forward: EIA, Petroleum Marketing Monthly, December 2013, Table 2.

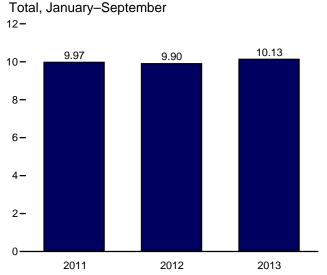
a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 b See Note 5, "Motor Gasoline Prices," at end of section.
 R=Revised. NA=Not available. W=Value withheld to avoid disclosure of individual company data.

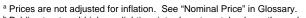
Figure 9.2 Average Retail Prices of Electricity

(Centsa per Kilowatthour)



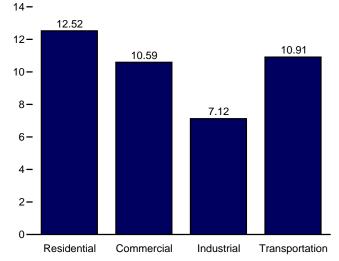






^b Public street and highway lighting, interdepartmental sales, other sales to public authorities, agricultural and irrigation, and transportation including railroads and railways.





Note: Includes taxes.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Source: Table 9.8.

Table 9.8 Average Retail Prices of Electricity

(Cents^a per Kilowatthour, Including Taxes)

60 Average		Commercial ^b Industrial ^c				Total	
	2.60	2.40	1.10	NA	1.90	1.80	
65 Average	2.40	2.20	1.00	NA NA	1.80	1.70	
70 Average	2.20	2.10	1.00	NA NA	1.80	1.70	
	3.50	3.50	2.10	NA NA	3.10	2.90	
75 Average							
30 Average	5.40	5.50	3.70	NA	4.80	4.70	
S5 Average	7.39	7.27	4.97	NA	6.09	6.44	
0 Average	7.83	7.34	4.74	NA	6.40	6.57	
15 Average	8.40	7.69	4.66	NA	6.88	6.89	
0 Average	8.24	7.43	4.64	NA	6.56	6.81	
1 Average	8.58	7.92	5.05	NA	7.20	7.29	
2 Average	8.44	7.89	4.88	NA	6.75	7.20	
3 Average	8.72	8.03	5.11	7.54		7.44	
4 Average	8.95	8.17	5.25	7.18		7.61	
5 Average	9.45	8.67	5.73	8.57		8.14	
	10.40	9.46	6.16	9.54		8.90	
6 Average							
7 Average	10.65	9.65	6.39	9.70		9.13	
8 Average	11.26	10.36	6.83	10.74		9.74	
9 Average	11.51	10.17	6.81	10.65		9.82	
0 Average	11.54	10.19	6.77	10.57		9.83	
1 January	10.87	9.78	6.53	10.29		9.48	
February	11.06	9.99	6.63	10.55		9.56	
March	11.52	9.93	6.53	10.24		9.55	
April	11.67	9.96	6.53	9.97		9.54	
May	11.93	10.19	6.68	10.70		9.78	
June	11.97	10.66	7.14	11.01		10.26	
				11.21			
July	12.09	10.67	7.31			10.47	
August	12.09	10.72	7.40	10.82		10.49	
September	12.17	10.59	7.15	10.80		10.29	
October	12.08	10.25	6.77	10.25		9.83	
November	11.78	9.98	6.53	9.93		9.58	
December	11.40	9.77	6.51	9.79		9.53	
Average	11.72	10.23	6.82	10.46		9.90	
2 January	R 11.41	R 9.84	R 6.44	R 9.78		9.61	
February	R 11.51	R 9.94	^R 6.45	^R 9.61		R 9.58	
March	R 11.70	R 9.84	R 6.46	R 9.95		R 9.52	
April	R 11.92	R 9.82	R 6.38	R 10.11		R 9.47	
	R 11.90	R 9.96	R 6.53	R 9.97		R 9.64	
May							
June	12.09	R 10.39	R 6.89	R 10.33		R 10.13	
July	12.00	R 10.39	R 7.13	R 10.70		R 10.30	
August	12.17	R 10.39	R 7.08	^R 10.53		R 10.32	
September	R 12.30	R 10.50	R 6.97	R 10.74		R _{10.26}	
October	12.03	^R 10.08	R 6.62	R 10.13		^R 9.74	
November	^R 11.75	R 9.89	R 6.50	R 10.41		9.58	
December	11.62	^R 9.81	R 6.52	R 10.28		R 9.64	
Average	11.88	R 10.09	R 6.67	R 10.21		R 9.84	
3 January	11.47	9.78	6.45	10.20		9.66	
February	11.61	10.04	6.59	10.41		9.77	
March	11.59	9.99	6.59	10.20		9.69	
April	11.92	9.96	6.51	10.23		9.67	
	12.40	10.21	6.67	10.45		9.92	
May							
June	12.54	10.70	7.13	10.70		10.47	
July	12.61	10.81	7.32	10.90		10.71	
August	12.51	10.73	7.23	10.67		10.58	
September	12.52	10.59	7.12	10.91		10.45	
9-Month Average	12.15	10.34	6.86	10.52		10.13	
2 9-Month Average 1 9-Month Average	11.90 11.71	10.14 10.31	6.71 6.89	10.19 10.62		9.90 9.97	

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

R=Revised. 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 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. • Through 1979, data are for Classes A and B privately owned electric utilities only. Class A utilities are those with operating revenues of \$2.5 million or more: Class B

(Class A utilities are those with operating revenues of \$2.5 million or more; Class B

utilities are those with operating revenues between \$1 million and \$2.5 million.) For 1980–1982, data are for selected Class A utilities whose electric operating revenues were \$100 million or more during the previous year. For 1983, data are for a selected sample of electric utilities. Beginning in 1984, data are for a census of electric utilities. Beginning in 1996, data also include energy service providers selling to retail customers. • See Note 7, "Electricity Retail Prices," at end of section for plant coverage, and for information on preliminary and final values. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices (Excel and CSV files) for all available annual data beginning in 1960 and monthly data

CSV files) for all available annual data beginning in 1960 and monthly data beginning in 1976.
Sources: • 1960–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." • 1984–2009: EIA, Form EIA-861, "Annual Electric Power Industry Report." • 2010, 2011, and 2013: EIA, Electric Power Monthly, November 2013, Table 5.3. • 2012: EIA, Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions Report," and Form EIA-861, "Annual Electric Power Industry Report."

b Commercial sector. For 1960–2002, prices exclude public street and highway lighting, interdepartmental sales, and other sales to public authorities.

[&]quot;Inditing, interoperation acids, and other sales to public autionities."

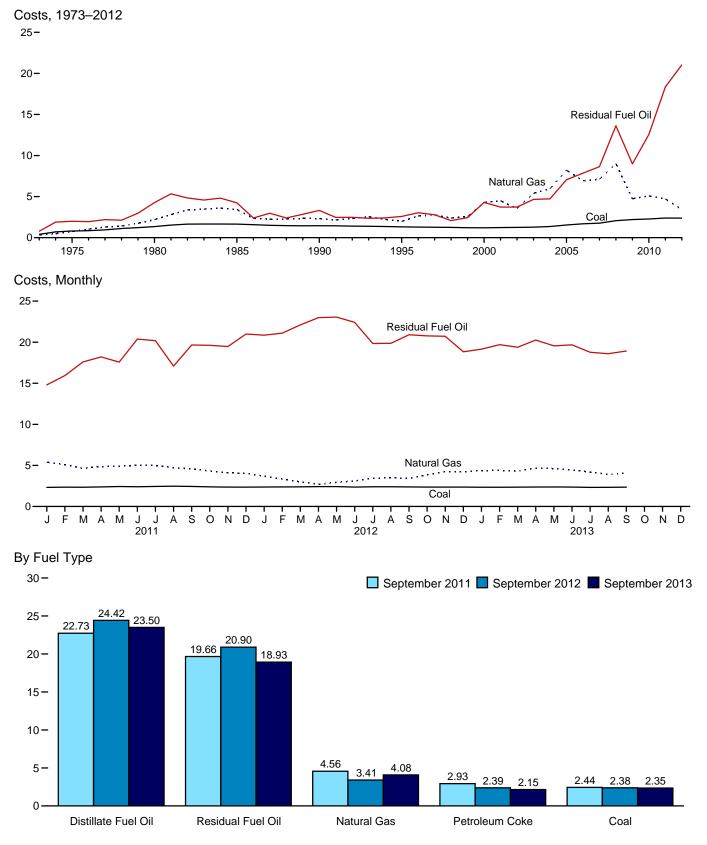
Industrial sector. For 1960–2002, prices exclude agriculture and irrigation.

Transportation sector, including railroads and railways.

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

Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants

(Dollars^a per Million Btu, Including Taxes)



 $^{^{\}rm a}$ Prices are not adjusted for inflation. See "Nominal Dollars" in $$\operatorname{\mathsf{Mol}}$$ Glossary.

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

Cost of Fossil-Fuel Receipts at Electric Generating Plants Table 9.9

(Dollars^a per Million Btu, Including Taxes)

			Petrole				
	Coal	Residual Fuel Oilb	Distillate Fuel Oilc	Petroleum Coke	Totald	Natural Gase	All Fossil Fuelsf
1973 Average	0.41	0.79	NA	NA	0.80	0.34	0.48
1975 Average	.81	2.01	NA	NA	2.02	.75	1.04
1980 Average	1.35	4.27	NA	NA	4.35	2.20	1.93
1985 Average	1.65	4.24	NA	NA	4.32	3.44	2.09
1990 Average	1.45	3.32	5.38	.80	3.35	2.32	1.69
1995 Average	1.32	2.59	3.99	.65	2.57	1.98	1.45
2000 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74
2001 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73
2002 Average ⁹	1.25	3.73	5.34	.78	3.34	3.56	1.86
2003 Average	1.28	4.66	6.82	.72	4.33	5.39	2.28
2004 Average	1.36	4.73	8.02	.83	4.29	5.96	2.48
2005 Average	1.54	7.06	11.72	1.11	6.44	8.21	3.25
2006 Average	1.69	7.85	13.28	1.33	6.23	6.94	3.02
2007 Average	1.77	8.64	14.85	1.51	7.17	7.11	3.23
2008 Average	2.07	13.62	21.46	2.11	10.87	9.01	4.12
2009 Average	2.21	8.98	13.22	1.61	7.02	4.74	3.04
2010 Average	2.27	12.57	16.61	2.28	9.54	5.09	3.26
2011 January	2.32	14.80	19.59	3.13	11.83	5.39	3.37
February	2.35	15.94	20.93	2.84	11.60	5.09	3.27
March	2.34	17.59	22.59	3.09	12.98	4.64	3.12
April	2.38	18.21	24.06	3.20	13.04	4.86	3.28
May	2.43	17.57	23.04	3.31	13.21	4.89	3.38
June	2.40	20.38	23.13	2.78	14.29	5.04	3.51
July	2.44	20.18	22.95	3.30	12.13	4.98	3.61
August	2.47	17.09	22.51	3.08	10.52	4.73	3.43
September	2.44	19.66	22.73	2.93	11.51	4.56	3.25
October	2.39	19.62	23.20	3.32	13.20	4.33	3.13
November	2.37	19.47	23.38	2.58	13.03	4.10	3.03
December	2.34	20.99	22.45	2.74	12.11	4.04	3.02
Average	2.39	18.35	22.46	3.03	12.48	4.72	3.29
2012 January	R 2.37	R 20.86	R 22.94	R 2.43	R 12.79	R 3.69	R 2.86
February	R 2.38	R 21.10	^R 23.81	R 2.30	^R 12.66	^R 3.34	R 2.77
March	R 2.39	R 22.10	^R 24.96	R 1.90	R 12.88	R 2.99	R 2.69
April	R 2.42	R 22.99	^R 24.61	^R 2.11	^R 12.92	^R 2.71	R 2.61
May	R 2.42	R 23.06	^R 23.24	^R 2.57	^R 13.66	R 2.94	R 2.70
June	R 2.36	R 22.41	R 21.63	R 2.32	^R 13.73	^R 3.11	R 2.76
July	R 2.40	^R 19.84	^R 21.92	^R 2.41	^R 14.50	R 3.43	R 2.92
August	R 2.40	R 19.86	R 23.38	R 2.45	R 12.61	R 3.50	R 2.89
September	R 2.38	R 20.90	R 24.42	R 2.39	R 10.35	R 3.41	R 2.81
October	R 2.36	R 20.77	R 24.93	R 2.00	R 11.50	R 3.84	^R 2.91
November	R 2.36	R 20.72	R 24.28	R 2.05	R 11.71	R 4.25	R 2.99
December	R 2.36	18.83	R 23.44	R 2.06	R 10.98	R 4.21	R 3.01
Average	R 2.38	R 21.03	R 23.49	R 2.24	R 12.48	^R 3.42	R 2.83
2013 January	2.34	19.15	23.00	2.46	12.03	4.38	3.10
February	2.34	19.70	23.89	2.50	12.22	4.39	3.10
March	2.35	19.39	23.85	2.59	13.78	4.30	3.10
April	2.37	20.26	22.92	2.61	9.36	4.67	3.16
May	2.37	19.55	22.62	2.32	10.78	4.62	3.16
June	2.36 2.32	19.68	22.37	2.39	10.11	4.42	3.15
July	2.32	18.77	23.11	2.27	11.44	4.19	3.12
August	2.33 2.35	18.60	23.24	2.23	11.80	3.90	2.99
September 9-Month Average	2.35 2.35	18.93 19.24	23.50 23.13	2.15 2.38	10.13 11.38	4.08 4.30	3.02 3.10
2012 9-Month Average	2.39	21.33	23.26	2.32	12.88	3.24	2.79
2011 9-Month Average	2.40	17.90	22.26	3.08	12.38	4.90	3.37

commercial and industrial sectors.

R=Revised. NA=Not available.

Notes: • Receipts are purchases of fuel. • Yearly costs are averages of monthly values, weighted by quantities in Btu. • For this table, there are several breaks in the data series related to what plants and fuels are covered. Beginning in 2013, data cover all regulated generating plants; plus unregulated plants whose total fossil-fueled nameplate generating capacity is 50 megawatts or more for coal, and 200 megawatts or more for natural gas, residual fuel oil, distillate fuel oil, and petroleum coke. For data coverage before 2013, see EIA, *Electric Power Monthly*, Appendix C, Form EIA-923 notes, "Receipts and cost and quality of fossil fuels" section.

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

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

Sources: See end of section.

 $^{^{\}rm a}$ Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. $^{\rm b}$ For 1973–2001, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).

For 1973–2001, electric utility data are for light oil (fuel oil nos. 1 and 2).
 For all years, includes residual fuel oil and distillate fuel oil. For 1990 forward,

also includes petroleum coke. For 1973-2012, also includes jet fuel, kerosene, and waste oil. For 1983-2012, also includes other petroleum, such as propane and refined motor oil.

e Natural gas, plus a small amount of supplemental gaseous fuels. For 1973–2000, data also include a small amount of blast furnace gas and other gases

derived from fossil fuels.

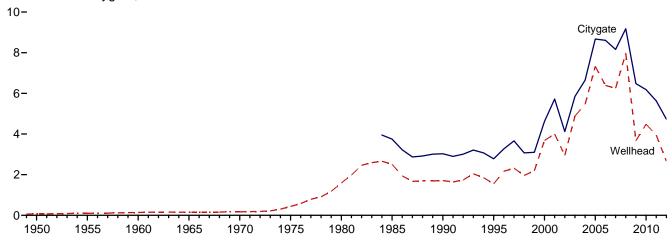
f Weighted average of costs shown under "Coal," "Petroleum," and "Natural Gas.'

g Through 2001, data are for electric utilities only. Beginning in 2002, data also include independent power producers, and electric generating plants in the

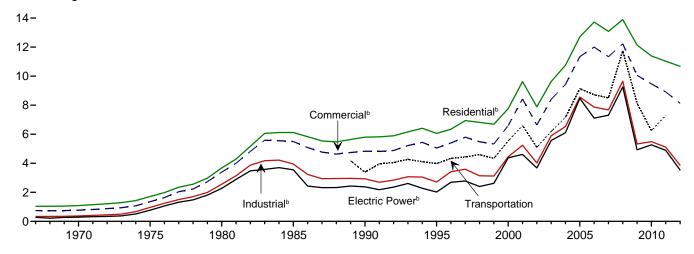
Figure 9.4 Natural Gas Prices

(Dollarsa per Thousand Cubic Feet)

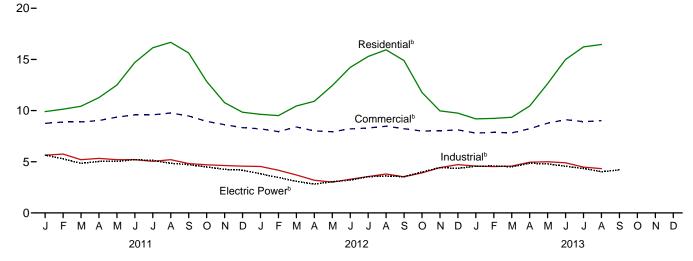
Wellhead and Citygate, 1949-2012



Consuming Sectors, 1967–2012



Consuming Sectors, Monthly



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

^b Includes taxes.

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

Table 9.10 Natural Gas Prices

(Dollarsa per Thousand Cubic Feet)

						Co	onsuming	Sectorsb			
		City	Res	idential	Com	mercialc	Ind	ustriald	Transportation	Electi	ic Powere
	Wellhead Price ^f	City- ellhead gate Price ^f Price ^g	Price ^h	Percentage of Sector ⁱ	Priceh	Percentage of Sector ⁱ	Priceh	Percentage of Sector ⁱ	Vehicle Fuel ^j Price ^h	Price ^h	Percentage of Sector ^{I,k}
1950 Average 1955 Average 1960 Average	0.07 .10 .14	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA	NA NA NA
1965 Average	.16	NA NA	NA	NA	NA	NA	NA	NA NA	NA	NA	NA
1970 Average1975 Average	.17 .44	NA NA	1.09 1.71	NA NA	.77 1.35	NA NA	.37 .96	NA NA	NA NA	.29 .77	NA 96.1
1980 Average	1.59	NA	3.68	NA	3.39	NA	2.56	NA	NA	2.27	96.9
1985 Average	2.51	3.75	6.12	NA OO 2	5.50	NA 96.6	3.95	68.8	NA 2.20	3.55	94.0
1990 Average1995 Average	1.71 1.55	3.03 2.78	5.80 6.06	99.2 99.0	4.83 5.05	86.6 76.7	2.93 2.71	35.2 24.5	3.39 3.98	2.38 2.02	76.8 71.4
2000 Average	3.68	4.62	7.76	92.6	6.59	63.9	4.45	19.8	5.54	4.38	50.5
2001 Average	4.00	5.72	9.63	92.4	8.43	66.0	5.24	20.8	6.60	4.61	40.2
2002 Average	2.95	4.12	7.89	97.9	6.63	77.4	4.02	22.7	5.10	e 3.68	83.9
2003 Average 2004 Average	4.88 5.46	5.85 6.65	9.63 10.75	97.5 97.7	8.40 9.43	78.2 78.0	5.89 6.53	22.1 23.6	6.19 7.16	5.57 6.11	91.2 89.8
2005 Average	7.33	8.67	12.70	98.1	11.34	82.1	8.56	24.0	9.14	8.47	91.3
2006 Average	6.39	8.61	13.73	98.1	12.00	80.8	7.87	23.4	8.72	7.11	93.4
2007 Average	6.25	8.16	13.08	98.0	11.34	80.4	7.68	22.2	8.50	7.31	92.2
2008 Average	7.97 3.67	9.18 6.48	13.89 12.14	97.5 97.4	12.23 10.06	79.7 77.8	9.65 5.33	20.4 18.8	11.75 8.13	9.26 4.93	101.1 101.1
2009 Average2010 Average	4.48	6.18	11.39	97.4	9.47	77.5	5.49	18.0	6.25	5.27	100.8
2011 January	4.37	5.69	9.90	96.5	8.75	72.8	5.64	17.1	NA	5.66	101.7
February	4.34	5.75	10.14	96.5	8.88	72.0	5.75	16.9	NA	5.29	101.8
March	3.95	5.73	10.43	96.2	8.89	69.6	5.20	16.8	NA NA	4.84	101.0
April May	4.05 4.12	5.62 5.80	11.27 12.50	96.0 96.2	9.03 9.36	66.4 63.9	5.33 5.20	16.3 16.7	NA NA	5.03 5.04	101.6 101.3
June	4.20	6.12	14.70	96.3	9.58	61.7	5.20	16.2	NA	5.20	101.1
July	4.27	6.16	16.14	96.3	9.59	60.1	5.04	17.0	NA	5.13	100.5
August	4.20	6.19	16.67	95.7	9.77	58.1	5.20	16.4	NA	4.85	101.0
September October	3.82 3.62	5.94 5.45	15.63 12.85	95.5 95.7	9.47 8.95	57.8 61.4	4.82 4.70	16.2 16.2	NA NA	4.71 4.49	101.4 101.5
November	3.35	5.29	10.78	95.2	8.63	66.1	4.63	16.5	NA	4.26	101.1
December	3.14	5.03	9.84	96.4	8.33	69.1	4.57	17.0	NA	4.18	101.4
Average	3.95	5.63	11.03	96.2	8.92	67.3	5.11	16.6	7.29	4.89	101.2
2012 JanuaryFebruary	E 2.89 E 2.46	4.85 4.73	9.64 9.51	96.2 96.1	8.22 7.94	70.5 69.2	4.54 4.17	16.3 16.5	NA NA	R 3.82 R 3.46	^R 95.0 ^R 95.3
March	E 2.25	4.73	10.45	96.2	8.40	67.3	3.71	16.3	NA	R 3.09	R 95.2
April	E 1.89	4.19	10.91	95.5	8.02	63.7	3.19	15.8	NA	R 2.81	R 96.4
May	E 1.94	4.30	12.44	95.6	7.93	60.8	3.01	15.9	NA	R 3.05	R 96.0
June	E 2.54 E 2.59	4.63 4.88	14.22 15.29	95.6 95.6	8.21 8.30	60.7 59.1	3.29 3.55	15.9 16.3	NA NA	R 3.21 R 3.54	^R 95.8 ^R 95.8
July August	E 2.86	5.13	15.29	95.0	8.47	57.2	3.80	16.9	NA NA	R 3.61	R 95.2
September	E 2.71	4.74	14.89	95.1	8.23	57.6	3.53	16.8	NA	R 3.54	R 96.0
October	E 3.03	4.65	11.77	95.2	8.00	60.7	3.91	16.7	NA	R 4.00	R 95.9
November December	E 3.35 E 3.35	4.79 4.79	9.97 9.75	95.5 95.8	8.02 8.11	65.8 68.6	4.43 4.72	17.2 17.3	NA NA	R 4.43 R 4.35	R 94.3 R 94.4
Average	E 2.66	4.73	10.68	95.8	8.13	65.4	3.86	16.5	NA	R 3.54	R 95.5
2013 January	NA	4.52	9.19	96.0	7.81	70.8	4.58	17.4	NA	4.56	95.1
February	NA	4.56	9.24	95.6	7.88	70.4	4.53	17.3	NA	4.59	94.3
March April	NA NA	4.75 5.16	9.35 10.45	95.4 95.1	7.82 8.23	69.5 67.0	4.58 4.95	17.1 17.1	NA NA	4.51 4.85	94.6 95.0
May	NA NA	5.54	12.63	95.1	8.77	63.4	5.00	16.6	NA NA	4.63	95.0 95.2
June	NA	5.74	14.99	94.9	9.11	59.3	4.90	16.4	NA	4.56	94.9
July	NA	5.56	16.23	94.8	8.92	58.0	4.48	16.1	NA	4.34	94.3
August	NA NA	5.25 NA	16.46 NA	94.7 NA	9.02 NA	57.5 NA	4.33 NA	16.3 NA	NA NA	4.02 4.20	94.5 95.0
September 9-Month Average	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	4.20 4.46	95.0 94.8
2012 9-Month Average 2011 9-Month Average	E 2.46 4.15	4.72 5.80	10.90	95.5	8.10	65.4	3.70	16.0	NA	3.36	95.6

combined-heat-and-power plants report fuel receipts related to non-electric generating activities.

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

Notes: • Prices are for natural gas, plus a small amount of supplemental gaseous fuels. • Prices are intended to include all taxes. See Note 8, "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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1976.

Sources: See end of section.

For September 2013, data for columns 2–8 were not available in time for publication.

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

b See Note 8, "Natural Gas Prices," at end of section.

c Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note 2, "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 2, "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, or electricity and heat, to the public. Through 2001, data are for electric utilities only; beginning in 2002, data also include independent power producers.
f See "Natural Gas Wellhead Price" in Glossary.
g See "Citygate" in Glossary.
h Includes taxes.
i 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 9.10 sources at end of section.

^j 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

k Percentages exceed 100 percent when reported natural gas receipts are greater than reported natural gas consumption—this can occur when combined-heat-and-power plants report fuel receipts related to non-electric generating activities.

Energy Prices

Note 1. 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 2. Crude Oil Domestic First Purchase Prices. The average domestic first purchase price represents the average price at which all domestic crude oil is purchased. Crude oil domestic first purchase prices were derived as follows: for 1949–1973, weighted average domestic first purchase values as reported by state agencies and calculated by the Bureau of Mines; for 1974 and 1975, weighted averages of a sample survey of major first purchasers' purchases; for 1976 forward, weighted averages of all first purchasers' purchases. The data series was previously called "Actual Domestic Wellhead Price."

Note 3. 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 4. 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 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 by grade 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. Prior to 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).

Regular motor gasoline prices by area type are determined by EIA in a weekly survey of retail motor gasoline outlets (Form EIA-878, "Motor Gasoline Price Survey"). Prices include all federal, state, and local taxes paid at the time of sale. A representative sample of outlets by geographic area and size is randomly selected from a sampling frame of approximately 115,000 retail motor gasoline outlets. Monthly and annual prices are simple averages of weighted weekly estimates from "Weekly U.S. Retail Gasoline Prices, Regular Grade." For more information on the survey methodology, see EIA, *Weekly Petroleum Status Report*, Appendix B, "Weekly Petroleum Price Surveys" section.

Refiner prices of finished motor gasoline for resale and to end users are determined by 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. 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 EIA, Natural Gas Monthly, Appendix C.

Table 9.1 Sources

Domestic First Purchase Price

1949–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977: Federal Energy Administration, based on Form FEA-P124, "Domestic Crude Oil Purchaser's Monthly Report." 1978–2009: U.S. Energy Information Administration (EIA), *Petroleum Marketing Annual* 2009, Table 1.

2010 forward: EIA, *Petroleum Marketing Monthly*, December 2013, Table 1.

F.O.B. and Landed Cost of Imports

October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report."

October–December 1977: EIA, Form FEA-F701-M-0, "Transfer Pricing Report."

1978–2009: EIA, Petroleum Marketing Annual 2009, Table

2010 forward: EIA, *Petroleum Marketing Monthly*, December 2013, Table 1.

Refiner Acquisition Cost

1968–1973: EIA estimates. The cost of domestic crude oil was derived by adding estimated transportation costs to the reported average domestic first purchase price. The cost of imported crude oil was derived by adding an estimated ocean transport cost based on the published "Average Freight Rate Assessment" 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."

1978–2007: EIA, Petroleum Marketing Annual 2007, Table

2008 forward: EIA, *Petroleum Marketing Monthly*, December 2013, 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."

1978–2007: EIA, *Petroleum Marketing Annual* 2007, Table 21.

2008 forward: EIA, *Petroleum Marketing Monthly*, December 2013, Table 21.

Table 9.9 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*, November 2013, Table 4.1; and Form EIA-923, "Power Plant Operations Report."

Table 9.10 Sources

All Prices Except Vehicle Fuel and Electric Power

1949–2006: U.S. Energy Information Administration (EIA), *Natural Gas Annual (NGA)*, annual reports and unpublished revisions.

2007 forward: EIA, *Natural Gas Monthly (NGM)*, October 2013, Table 3.

Vehicle Fuel Price

1989 forward: EIA, NGA, annual reports.

Electric Power Sector Price

1967-1972: EIA, NGA, annual reports.

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

1989–2011: EIA, Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

2012 and 2013: EIA, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers."

Percentage of Commercial Sector

1987–2006: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to commercial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to commercial consumers.

2007 forward: EIA, NGM, October 2013, Table 3.

Percentage of Industrial Sector

1982–2006: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to industrial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to industrial consumers. 2007 forward: EIA, NGM, October 2013, 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 Quality 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 (MER)*, Table 7.3b; for 1989–2001, see MER, Table 7.4b).

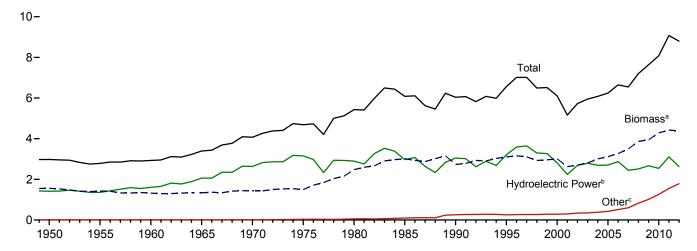
2002–2007: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report,"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

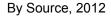
2008 forward: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form EIA-923, "Power Plant Operations Report," divided by the quantity of natural gas consumed by the electric power sector (see MER, Table 7.4b).

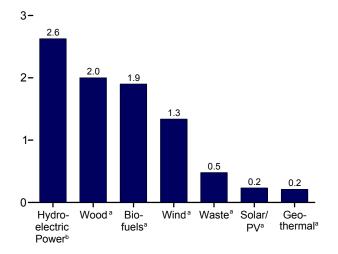
10. Renewable Energy

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

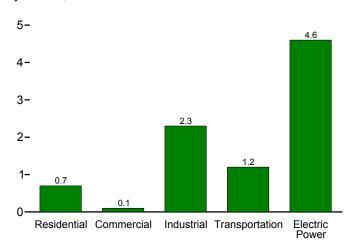
Total and Major Sources, 1949-2012



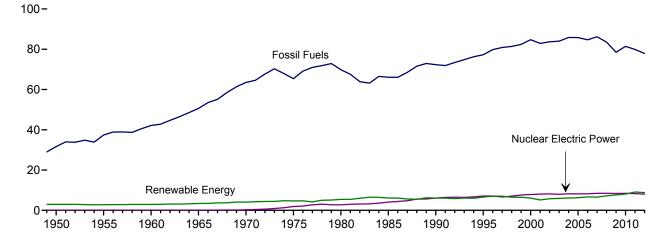




By Sector, 2012



Compared With Other Resources, 1949–2012



^a See Table 10.1 for definition.

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

^b Conventional hydroelectric power.

^c Geothermal, solar/PV, and wind.

Table 10.1 Renewable Energy Production and Consumption by Source

(Trillion Btu)

		Production	а					Consumpti	on			
	Bio	mass	Total	Harden					Bion	nass		Total
	Bio- fuels ^b	Total ^c	Renew- able Energy ^d	Hydro- electric Power ^e	Geo- thermal ^f	Solar/ PV ⁹	Wind ^h	Wood ⁱ	Waste ^j	Bio- fuels ^k	Total	Renew- able Energy
1950 Total	NA	1,562	2,978	1,415	NA	NA	NA	1,562	NA	NA	1,562	2,978
1955 Total	NA	1,424	2,784	1,360	NA	NA	NA	1,424	NA	NA	1,424	2,784
1960 Total	NA	1,320	2,928	1,608	(s) 2	NA	NA	1,320	NA	NA	1,320	2,928
1965 Total	NA	1,335	3,396	2,059		NA	NA	1,335	NA	NA	1,335	3,396
1970 Total	NA	1,431	4,070	2,634	6	NA	NA	1,429	2	NA	1,431	4,070
1975 Total	NA NA	1,499 2,475	4,687 5,428	3,155 2,900	34 53	NA NA	NA NA	1,497 2,474	2 2	NA NA	1,499 2,475	4,687 5,428
1980 Total 1985 Total	93	3,016	6,084	2,970	97	(s)	(s)	2,687	236	93	3,016	6,084
1990 Total	111	2,735	6,041	3,046	171	59	29	2,216	408	111	2,735	6,041
1995 Total	198	3.099	6.558	3,205	152	69	33	2,370	531	200	3.101	6.560
2000 Total	233	3.006	6,104	2,811	164	66	57	2,262	511	236	3,008	6.106
2001 Total	254	2,624	5,164	2,242	164	64	70	2,006	364	253	2,622	5.163
2002 Total	308	2,705	5,734	2,689	171	63	105	1,995	402	303	2,701	5,729
2003 Total	402	2,805	5,947	2,793	173	62	113	2,002	401	404	2,807	5,948
2004 Total	487	2,998	6,069	2,688	178	63	142	2,121	389	499	3,010	6,081
2005 Total	564	3,104	6,229	2,703	181	63	178	2,137	403	577	3,117	6,242
2006 Total	720	3,216	6,599	2,869	181	68	264	2,099	397	771	3,267	6,649
2007 Total 2008 Total	978 1.387	3,480 3,881	6,528 7.219	2,446 2.511	186 192	76 89	341 546	2,089 2.059	413 435	990 1,370	3,492 3,865	6,541 7.202
2009 Total	1,584	3,967	7,219	2,669	200	98	721	1.931	453 452	1,568	3,950	7,638
2010 Total	1,884	4,332	8,128	2,539	208	126	923	1,981	468	1,837	4,285	8,081
2011 January	169	384	747	248	18	13	83	176	39	153	368	731
February	151	345	710	234	17	13	102	158	36	145	338	703
March	171	379	816	303	18	14	102	169	39	160	368	806
April	163	358	813	303	17	14	121	159	36	154	349	804
May	170	368	832	317	18	15	114	161	37	164	362	826
June	168 171	374 383	825 792	312 304	17 18	15 15	107 73	167 172	38 39	168 162	373 373	824 782
July August	171	386	792 742	250	18	15	73 73	172	39 39	174	373 385	762 741
September	166	371	677	208	17	14	67	167	38	160	364	670
October	176	381	708	192	18	15	102	166	40	167	372	699
November	178	385	738	201	18	14	121	167	40	167	374	727
December	186	404	770	231	18	14	104	176	41	176	394	761
Total	2,044	4,516	9,170	3,103	212	171	1,168	2,010	462	1,948	4,420	9,074
2012 January	177 164	^R 388 ^R 363	^R 773 ^R 694	R 220 R 193	^R 17 ^R 16	17 17	R 130 R 105	^R 172 ^R 162	R 40 R 37	156 152	^R 367 ^R 351	^R 752 ^R 682
February March	171	R 377	R 793	R 247	R 18	19	R 133	R 165	R 41	164	R 370	R 786
April	164	R 358	R 766	R 250	R 17	19	R 121	R 156	38	160	R 354	R 762
May	173	R 376	R 807	R 273	^R 18	21	R 119	R 164	39	170	R 373	R 804
June	165	R 367	^R 773	R 254	^R 17	21	^R 114	^R 164	38	165	R 367	^R 773
July	157	R 369	R 744	R 252	^R 18	21	R 84	R 171	^R 41	158	R 369	R 745
August	162	R 375	R 713	R 219	R 18	21	81	R 172	R 40	168	R 380	R 719
September	151	R 356	R 645	R 168	R 18	20	84	R 167	R 38	150	R 355	R 644
October	153	R 363 R 358	^R 679 ^R 684	157 R 178	R 18 R 18	^R 20 19	R 120 R 111	^R 167 ^R 166	R 42 R 42	159	R 368 R 358	^R 684 ^R 684
November December	150 155	R 372	767	R 219	R 19	R 20	138	R 174	R 43	150 152	R 369	764
Total	1,942	R 4,423	R 8,838	R 2,629	R 212	R 234	R 1,340	R 2,001	R 481	1,902	R 4,383	R 8,798
2013 January	152	361	R 780	R 239	_ 19	R 22	R 138	169	40	151	360	R 779
February	139	327	R 693	R 195	R 17	22	R 132	152	36	140	327	R 694
March	161	367	R 756	R 196	19	26	R 149	166	40	161	367	R 756
April	162	352	R 796	R 236	R 18	26	R 165	153	38	163	353	R 798
May	171 169	371 370	^R 845 ^R 807	R 272	19 19	27 R 27	R 156 R 131	161 162	40 40	171 170	372 371	R 845
June	169 172	370 387	R 799	R 260 R 259	19 19	27	R 106	162 175	40 41	170 169	371 385	^R 808 ^R 796
July August	168	367 378	R 723	R 206	19	27 29	R 92	175	39	166	375	R 721
September	164	363	681	161	18	28	112	161	38	167	366	684
9-Month Total	1,458	3,276	6,881	2,023	168	235	1,180	1,467	351	1,458	3,276	6,881
2012 9-Month Total 2011 9-Month Total	1,484 1,505	3,330 3,347	6,708 6,954	2,075 2,479	157 159	175 129	971 841	1,493 1,502	354 340	1,441 1,438	3,288 3,280	6,665 6,888

^a Production equals consumption for all renewable energy sources except

a Production equals solution biofuels.

b Total biomass inputs to the production of fuel ethanol and biodiesel.

c Wood and wood-derived fuels, biomass waste, and total biomass inputs to the production of fuel ethanol and biodiesel.

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

Notes: • Most data for the residential, commercial, industrial, and transportation sectors are estimates. See notes and sources for Tables 10.2a and 10.2b. • See Note, "Renewable Energy Production and Consumption," at end of section.
• Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 states and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable (Excel and CSV files) for all available annual data beginning in 1949 and monthly data beginning in 1973.

beginning in 1973. Sources: Tables 10.2a–10.4.

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

		Reside	ntial Sector					Co	mmercial	Sectora			
			Biomass		Hvdro-					Bio	mass		
	Geo- thermal ^b	Solar/ PV ^c	Woodd	Total	electric Power ^e	Geo- thermal ^b	Solar/ PV ^f	Wind ^g	Woodd	Wasteh	Fuel Ethanol ⁱ	Total	Total
1950 Total 1955 Total 1960 Total 1960 Total 1975 Total 1970 Total 1975 Total 1980 Total 1980 Total 1980 Total 1995 Total 1995 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2007 Total 2007 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2009 Total 2009 Total 2009 Total	NA NA NA NA NA NA 10 11 11 11 11 11 11 11 11 11 11 11 11	NA N	1,006 775 627 468 401 425 850 1,010 580 520 420 370 380 410 430 380 420 470 500 440	1,006 7775 627 468 401 425 850 1,010 641 591 489 438 448 470 481 504 462 512 577 622 591	NA NA NA NA NA NA 1 1 1 1 1 1 1 1	NA NA NA NA NA NA NA 11 12 14 14 15 17	NA A A A A NA A NA A NA A NA A NA A NA	NA A NA A NA	19 15 12 9 8 21 24 66 72 71 67 69 71 70 65 70 73 73	NA NA NA NA NA NA NA NA NA NA NA NA NA N	NAAAAA (S)(S)(S)(S) 1 1 1 1 2 2 3 3	19 15 12 9 8 8 8 21 24 94 113 119 92 95 101 105 103 103 103 112 111	19 15 12 9 8 21 24 98 118 128 101 104 113 118 120 118 125 129 130
Page 1 January	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	13 12 13 13 13 13 13 13 13 13 13 13	38 35 38 37 38 37 38 37 38 37 38	55 49 55 53 55 53 55 55 53 55 53 55 643	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	69 69 69 69 69 69 69	3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 10 9 10 10 10 10 10 10 10 10	11 10 11 11 12 11 12 12 11 11 11 11 12 136
Page 2012 January	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	16 15 16 16 16 16 16 16 16 16	36 33 36 34 36 34 36 34 36 34 36	55 52 55 53 55 53 55 55 53 55 53 55 53 55	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	555555555555 62	4 4 4 8 4 8 4 8 4 4 4 4 4 8 4 8 4 8 7	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	9999999999999998R 110	11 R 10 11 11 11 11 11 11 11 11 11 R 11 R
Pebruary	3 3 3 3 3 3 3 3 3 3 3	20 18 20 19 20 19 20 20 19 174	36 32 36 35 36 35 36 36 37 314	59 53 59 57 59 57 59 59 57 518	(S) (S) (S) (S) (S) (S) (S) (S) (S)	2 2 2 2 2 2 2 2 2 2 5	(s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s)	555555555 47	4 4 4 4 4 4 4 35	(s) (s) (s) (s) (s) (s) (s) (s) 2	10 9 10 9 9 9 9 9 9 84	12 10 12 11 11 11 12 11 11 101
2012 9-Month Total 2011 9-Month Total	30 30	144 115	314 337	488 481	(s) (s)	15 15	1 1	(s) (s)	47 52	34 32	2 2	83 86	99 102

megawatt or greater.

⁹ Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

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

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

Btu. Notes:

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 District of Columbia.

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

^a Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note 2, "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 distributed solar thermal and PV energy used in the commercial, industrial, and electric power sectors. and electric power sectors.

d Wood and wood-derived fuels.

Wood and wood-derived fuels.
 Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 † Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at commercial plants with capacity of 1

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).

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

					Industri	al Sector ^a					Trans	portation S	Sector
							Biomass					Biomass	
	Hydro- electric Power ^b	Geo- thermal ^c	Solar/ PV ^d	Winde	Wood ^f	Waste ⁹	Fuel Ethanol ^h	Losses and Co- products ⁱ	Total	Total	Fuel Ethanol ^j	Bio- diesel	Total
1950 Total 1955 Total 1960 Total 1960 Total 1970 Total 1970 Total 1975 Total 1980 Total 1980 Total 1980 Total 1990 Total 1990 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2008 Total 2008 Total 2009 Total	69 38 39 33 34 32 33 33 31 55 42 33 39 43 33 32 16 17 18	NAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	NA NA NA NA NA NA 	NA N	532 631 680 855 1,019 1,063 1,600 1,642 1,652 1,652 1,443 1,366 1,476 1,472 1,472 1,413 1,339 1,339 1,378	NA NA NA NA NA 230 195 145 142 132 148 143 145 145 145 168	NA NA NA NA NA 1 1 2 1 3 3 4 6 7 10 10 12 13 17	NA NA NA NA NA 42 49 86 99 108 130 169 203 230 230 237 537 532 617 742	532 631 680 855 1,019 1,063 1,600 1,918 1,634 1,834 1,661 1,679 1,817 1,837 1,944 2,026 1,963 2,201	602 669 719 888 1,053 1,096 1,633 1,971 1,771 1,792 1,725 1,853 1,873 1,930 1,965 2,047 1,985	NA NA NA NA NA 50 60 112 135 141 168 228 228 327 442 557 786 894 1,041	NA NA NA NA NA NA NA NA 1 2 2 3 1 2 2 3 45 3 45 33	NA NA NA NA NA 50 112 135 142 170 230 290 339 475 602 825 935 1,075
Pebruary February March April May June July August September October November December Total	1 2 2 2 2 1 1 1 1 1 1 2 17	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	115 102 110 105 103 109 111 111 109 107 110 116 1,309	15 13 14 13 13 13 13 13 15 15	1 1 1 1 1 1 2 1 1 1 1 1	66 59 65 62 64 63 64 65 62 65 66 69	197 175 191 180 182 187 190 191 185 189 192 201 2,261	199 177 193 182 185 189 191 192 187 190 203 2,283	82 81 87 82 90 92 86 95 83 89 91 1,045	3 4 6 8 8 10 10 12 13 11 13 14	86 84 93 90 98 103 96 107 96 100 99 105 1,158
2012 January February March April May June July August September October November December Total	R 3 2 2 2 2 2 2 R 2 1 1 R 2 R 2 R 2 R	(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)	R 114 R 107 R 108 R 104 R 108 R 112 R 114 R 111 R 112 R 112 R 116 R 1,328	14 R 16 14 R 13 14 R 13 R 16 R 16 R 16 R 173	1 1 1 1 1 1 2 1 1 1 1 1	67 61 63 61 64 61 58 60 56 57 57 59 724	R 197 R 184 R 189 R 189 R 188 R 186 R 186 R 186 R 186 R 186 R 192 R 2,242	R 200 R 187 R 191 R 182 R 191 R 186 R 188 R 191 R 188 R 188 R 195 R 2,269	82 82 88 86 92 90 88 95 83 91 1,044	6 8 11 12 12 10 11 9 8 9 6	87 89 99 98 104 102 98 106 92 100 92 91 1,158
2013 January	3 4 3 2 3 3 3 2 2 2 2 5	(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)	112 101 109 102 106 107 117 111 105 971	15 14 15 14 14 14 15 15 14	1 1 1 1 1 1 1 1 1 1	57 52 59 59 63 62 62 61 59	186 168 185 177 185 185 195 188 179 1,647	190 171 188 180 188 188 199 190 182 1,676	83 78 89 90 94 92 91 90 88 794	9 9 12 12 13 R 15 15 13 18 115	92 87 101 102 107 106 105 103 106 910
2012 9-Month Total 2011 9-Month Total	17 13	3 3	(s) (s)	(s) (s)	988 975	126 120	13 12	551 570	1,678 1,679	1,698 1,695	784 779	91 74	876 853

^a Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note 2, "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).

consumed by the industrial sector.

beginning in 1973. Sources: See end of section.

ssil-fuels heat rate—see าสมาย Auj.

Geothermal heat pump and direct use energy.

d Photovoltaic (PV) electricity net generation (converted to Btu using the ssil-fuels heat rate—see Table A6) at industrial plants with capacity of 1 fossil-fuels heat rate-

rossil-rueis near rate—see Table Ab) at industrial plants with capacity of 1 megawatt or greater.

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

^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

tire-derived fuels).

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

consumed by the industrial sector.

¹ 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.

¹ 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 Rth.

Notes: • Data are estimates, except for industrial sector hydroelectric power in 1949–1978 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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

Table 10.2c Renewable Energy Consumption: Electric Power Sector

(Trillion Btu)

	Hydro- electric	Geo-				Biomass		
	Powera	thermalb	Solar/PV ^c	Wind ^d	Woode	Wastef	Total	Total
950 Total	1,346	NA	NA	NA	5	NA	5	1,351
55 Total	1,322	NA	NA	NA	3	NA	3	1,325
60 Total	1,569	(s)	NA	NA	2	NA	2	1,571
65 Total	2,026	2	NA NA	NA NA	3	NA NA	3	2,031
						2		
70 Total	2,600	6	NA	NA	1		4	2,609
75 Total	3,122	34	NA	NA	(<u>s</u>)	2	2	3,158
80 Total	2,867	53	NA	NA	3	2	4	2,925
85 Total	2,937	97	(s)	(s)	8	7	14	3,049
90 Total ^g	3,014	161	4	29	129	188	317	3,524
95 Total	3,149	138	5	33	125	296	422	3,747
00 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
02 Total								
03 Total	2,749	146	5	113	167	230	397	3,411
04 Total	2,655	148	6	142	165	223	388	3,339
05 Total	2,670	147	6	178	185	221	406	3,406
06 Total	2,839	145	5	264	182	231	412	3,665
07 Total	2,430	145	6	341	186	237	423	3,345
008 Total	2,494	146	9	546	177	258	435	3,630
009 Total	2,650	146	9	721	180	261	441	3,967
10 Total	2,521	148	12	923	196	264	459	4,064
	,							•
11 January	247	13	(s)	83	17	21	37	381
February	233	12	Ί΄	102	16	19	35	382
March	301	13	1	102	15	21	36	453
April	301	12	2	121	12	20	32	467
	315	13	2	114	13	21	34	477
May			2				3 4 37	
June	311	12		107	16	22		469
July	303	12	2	73	17	22	39	429
August	249	12	2	73	17	22	39	376
September	207	12	2	67	15	21	37	323
October	191	12	1	102	14	22	36	343
November	199	12	i	121	14	22	36	369
December	229	13	i	103	16	23	39	385
Total	3,085	149	17	1,167	182	255	437	4,855
12 January	R 217	R 12	1	R 130	R 17	R 22	R 39	R 398
February	^R 191	R 11	1	^R 105	^R 16	R 20	^R 36	R 344
March	^R 244	^R 12	2	R 133	R 16	R 22	R 37	R 429
April	R 248	R 12	3	^R 121	^R 13	^R 21	R 33	R 417
May	R 271	R 12	R 4	R 119	R 14	22	R 36	R 442
June	R 252	R 12	5	R 114	^R 16	R 22	R 38	R 421
July	R 251	R 13	5	R 84	R 18	R 23	R 40	R 392
	R 218	R 12	4	R 81	R 18	R 23	R 40	R 355
August		· 12	•			Z3		R 304
September	R 166	R 12	4	84	R 16	R 21	R 38	
October	^R 155	^R 13	4	^R 120	^R 15	R 22	^R 38	_ 330
November	^R 176	^R 13	3	^R 111	15	R 23	^R 38	^R 341
December	R 217	^R 13	R 3	138	16	R 24	R 40	R 412
Total	R 2,606	R 148	R 40	R 1,339	R 190	R 262	R 453	R 4,586
13 January	R 236	14	3	^R 138	16	21	37	R 427
February	R 191	13	4	R 132	14	18	32	R 373
March	R 193	14	6	R 149	15	21	37	R 397
April	R 233	13	6	R 165	11	20	31	R 448
April	233 B 000	13 P 40						
May	R 269	R 13	7	R 156	14	21	35	R 480
June	R 257	14	8	^R 131	15	21	36	R 446
July	R 256	14	7	R 106	17	22	39	R 422
August	R 204	14	9	R 91	18	21	39	R 357
September	158	13	9	111	16	20	37	328
9-Month Total	1,997	120	59	1,179	135	1 87	322	
3-WOILLI TOLAL	1,551	120	วฮ	1,179	133	101	322	3,677

^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).

^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).

⁹ Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

for electric utilities and independent power producers.
R=Revised. 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 (Excel and CSV files) for all available annual data beginning in 1949 and monthly data

beginning in 1973. Sources: Tables 7.2b, 7.4b, and A6.

Table 10.3 Fuel Ethanol Overview

		Losses					Traded						Consump- tion
	Feed- stock ^a	and Co- products ^b	Dena- turant ^c	Р	roduction	I	Net Imports ^e	Stocks ^{d,f}	Stock Change ^{d,g}	Coi	nsumption	d	Minus Denaturant ^h
	TBtu	TBtu	Mbbl	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu	TBtu
1981 Total	13 93 111 198 233 253	6 42 49 86 99 108	40 294 356 647 773 841	1,978 14,693 17,802 32,325 38,627 42,028	83 617 748 1,358 1,622 1,765	7 52 63 115 138 150	NA NA NA 387 116 315	NA NA NA 2,186 3,400 4,298	NA NA NA -207 -624 898	1,978 14,693 17,802 32,919 39,367 41,445	83 617 748 1,383 1,653 1,741	7 52 63 117 140 148	7 51 62 114 137 144
2002 Total	307 400 484 552 688 914 1,300	130 169 203 230 285 376 531	1,019 1,335 1,621 1,859 2,326 3,105 4,433	50,956 66,772 81,058 92,961 116,294 155,263 221,637	2,140 2,804 3,404 3,904 4,884 6,521 9,309	182 238 289 331 414 553 790	306 292 3,542 3,234 17,408 10,457 12,610	6,200 5,978 6,002 5,563 8,760 10,535 14,226	1,902 -222 24 -439 3,197 1,775 3,691	49,360 67,286 84,576 96,634 130,505 163,945 230,556	2,073 2,826 3,552 4,059 5,481 6,886 9,683	176 240 301 344 465 584 821	171 233 293 335 453 569 800
2009 Total 2010 Total	1,517 1,839	616 742	5,688 6,506	260,424 316,617	10,938 13,298	928 1,127	4,720 -9,115	16,594 17,941	2,368 1,347	262,776 306,155	11,037 12,858	936 1,090	910 1,061
2011 January	165 146 163 154 160 158 159 162 154 162 164 172 1,919	66 59 65 62 64 63 64 65 62 65 66 69 769	581 535 548 508 550 540 555 575 525 557 573 602 6,649	28,467 25,300 28,178 26,538 27,720 27,224 27,541 27,976 26,588 28,013 28,383 29,718 331,646	1,196 1,063 1,183 1,115 1,164 1,143 1,157 1,175 1,117 1,177 1,192 1,248 13,929	101 90 100 94 99 97 98 100 95 100 101 106 1,181	-1,359 -1,425 -2,003 -2,865 -1,743 -1,533 -2,731 -665 -1,745 -2,388 -2,911 -2,997 -24,365	20,826 21,016 21,593 21,065 20,609 19,217 18,788 18,123 18,465 18,038 18,308 18,238 18,238	2,885 190 577 -528 -456 -1,392 -429 -665 342 -427 270 -70 297 3,237	24,223 23,685 25,598 24,201 26,433 27,083 25,239 27,976 24,501 26,052 25,202 26,791 306,984	1,017 995 1,075 1,016 1,110 1,137 1,060 1,175 1,029 1,094 1,058 1,125 12,893	86 84 91 86 94 90 100 87 93 90 95 1,093	84 82 89 84 92 94 88 97 85 90 87 93 1,065
February March April May June July August September October November December Total	154 159 152 159 153 145 150 140 144 142 147 1,814	61 63 61 63 61 58 60 56 57 57 59	531 518 495 520 502 503 526 496 528 527 534 6,264	26,647 27,548 26,346 27,616 26,513 25,236 26,092 24,376 24,976 24,744 25,582 314,714	1,119 1,157 1,107 1,160 1,114 1,060 1,096 1,024 1,049 1,039 1,074 13,218	95 98 94 98 94 90 93 87 89 88 91 1,120	-1,778 -1,591 -1,549 -1,013 -597 -489 654 699 614 1,011 -79 -5,891	22,393 22,583 22,050 21,635 21,239 20,224 19,180 19,921 18,626 19,992 20,350 20,350	918 190 -533 -415 -396 -1,015 -1,044 741 -1,295 1,366 358 2,112	23,951 25,767 25,330 27,018 26,312 25,762 27,790 24,334 26,885 24,389 25,145 306,711	1,006 1,082 1,064 1,135 1,105 1,082 1,167 1,022 1,129 1,024 1,056 12,882	92 90 96 94 92 99 87 96 87 90 1,092	83 89 88 94 91 89 96 84 93 84 87
2013 January	144 130 148 148 157 154 155 152 147 1,335	57 52 59 59 62 61 62 60 59	504 462 511 515 537 509 519 495 499 4,551	24,935 22,645 25,681 25,662 27,197 26,722 26,923 26,320 25,564 231,649	1,047 951 1,079 1,078 1,142 1,122 1,131 1,105 1,074 9,729	89 81 91 97 95 96 94 91	-546 -727 -264 -559 -535 -170 428 -52 -584 -3,009	20,558 19,580 18,941 17,645 16,810 16,395 17,127 16,971 16,040 16,040	-119 -978 -639 -1,296 -835 -415 732 -156 -931 -4,637	24,508 22,896 26,056 26,399 27,497 26,967 26,619 26,424 25,911 233,277	1,029 962 1,094 1,109 1,155 1,133 1,118 1,110 1,088 9,798	87 82 93 94 98 96 95 94 92 830	85 79 90 92 95 94 92 92 90 809
2012 9-Month Total 2011 9-Month Total	1,380 1,421	550 569	4,675 4,917	239,412 245,532	10,055 10,312	852 874	-7,437 -16,068	19,921 18,465	1,683 524	230,292 228,940	9,672 9,615	820 815	799 794

^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 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 (including industrial alcohol) exports.
f Stocks are at end of period.

Stocks are at end of period.
 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 2012 stocks value (20,677 thousand barrels), not the final 2012 value (20,350 thousand barrels) that is shown under "Stocks."

the final 2012 value (20,350 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. Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable (Excel and CSV files) for all available annual and monthly data beginning in 1981. Sources: See end of section.

Table 10.4 Biodiesel Overview

							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	1	(s)	204	9	1	81	41	40	NA	NA	NA.	244	10	1
2002 Total	1	(s)	250	10	1	197	57	140	NA	NA	NA	390	16	2
2003 Total	2	(s)	338	14	2	97	113	-17	NA	NA	NA	322	14	2
2004 Total	4	(s)	666	28	4	101	128	-27	NA	NA	NA	639	27	3
2005 Total	12	(s)	2,162	91	12	214	213	1	NA	NA	NA	2,163	91	12
2006 Total	32	(s)	5,963	250	32	1,105	856	250	NA	NA	NA	6,213	261	33
2007 Total	63	1	11,662	490	62	3,455	6,696	-3,241	NA	NA	NA	8,422	354	45
2008 Total	88	1	16,145	678	87	7,755	16,673	-8,918	NA	NA	NA	7,228	304	39
2009 Total	67 44	1 1	12,281	516 343	66 44	1,906 564	6,546	-4,640	711 672	711 -39	733	7,663 6,192	322 260	41 33
2010 Total	44	'	8,177	343	44	304	2,588	-2,024	6/2	-39	"	6,192	200	33
2011 January	5	(s)	842	35	5	50	224	-174	1,016	g 39	0	629	26	3
February	5	(s)	961	40 60	5 8	39 55	91 204	-53	1,217	201	0	707	30 46	4 6
March	8 9	(s)	1,419 1,692	71	9	55	204 229	-149 -175	1,381 1.408	164 27	0	1,106 1,489	63	8
April May	10	(s) (s)	1,838	77	10	49	198	-175 -149	1,576	168	0	1,521	64	8
June	11	(s)	1,938	81	10	50	120	-71	1,524	-53	0	1,920	81	10
July	12	(s)	2,183	92	12	64	147	-82	1,748	224	l ő	1,877	79	10
August	12	(s)	2,273	95	12	67	74	-7	1,834	86	0	2.180	92	12
September	12	(s)	2.284	96	12	67	199	-132	1.617	-216	0	2,369	99	13
October	14	(s)	2,508	105	13	85	136	-51	1,965	347	Ö	2,110	89	11
November	14	(s)	2,494	105	13	69	135	-67	1,877	-88	0	2,515	106	13
December	14	(s)	2,604	109	14	241	40	202	2,012	135	0	2,670	112	14
Total	125	2	23,035	967	123	890	1,799	-908	2,012	^g 1,035	0	21,092	886	113
2012 January	10	(s)	1,751	74	9	48	258	-210	2,510	499	0	1,042	44	6
February	10	(s)	1,887	79	10	72	125	-53	2,895	384	0	1,450	61	8
March	12	(s)	2,251	95	12	25	189	-164	2,893	-1	0	2,088	88	11
April	12	(s)	2,237	94	12	32	230	-198	2,783	-111	0	2,149	90	12
May	13	(s)	2,428	102	13	75	320	-245	2,710	-73	0	2,256	95	12
June	12	(s)	2,223	93	12	132	392	-260	2,348	-362	0	2,325	98	12
July	12 12	(s) (s)	2,127 2.176	89 91	11 12	166 55	426 403	-260 -348	2,262 2,011	-86 -250	0	1,953 2,079	82 87	10 11
August September	11	(s)	1,949	82	10	108	295	-187	2.059	47	0	1.715	72	9
October	10	(s)	1,792	75	10	60	209	-149	2,183	124	l ő	1,519	64	8
November	7	(s)	1,363	57	7	9	65	-56	1,865	-318	l ő	1.624	68	9
December	8	(s)	1,406	59	8	71	143	-72	2,083	219	Ö	1,114	47	6
Total	128	2	23,588	991	126	853	3,056	-2,203	2,083	72	0	21,314	895	114
2013 January	9	(s)	1,578	66	8	30	16	14	2,110	^h -58	0	1,651	69	9
February	9	(s)	1,611	68	9	52	59	-7	2,109	-2	Ö	1,606	67	9
March	13	(s)	2,332	98	12	406	185	221	2,434	325	0	2,228	94	12
April	14	(s)	2,532	106	14	304	371	-67	2,625	191	0	2,274	95	12
May	14	(s)	2,635	111	14	385	554	-169	2,635	9	0	2,457	103	13
June	15	(s)	2,685	113	14	682	587	95	2,709	R 74	0	R 2,706	R 114	R 15
July	17	(s)	3,045	128	16	338	426	-88	2,956	247	0	2,710	114	15
August	17	(s)	3,055	128	16	364	687	-323	3,210	254	0	2,478	104	13
September	16	(s) 2	3,021	127 945	16	683	380	303	3,166	-44 007	0	3,368	141 902	18 115
9-Month Total	122		22,494		121	3,244	3,264	-20	3,166	997	0	21,477		
2012 9-Month Total	103	1	19,028	799	102	713	2,638	-1,925	2.059	47	0	17,056	716	91

Total vegetable oil and other biomass inputs to the production of biodiesel.

Sources: See end of section.

Total vegetable oil and other biomass inputs to the production of biodiesel.
 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

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. Through 2010, includes stocks at bulk terminals only. Beginning in 2011, includes stocks at bulk terminals and biodiesel production

plants.

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

an increase.

f Beginning in 2009, because of incomplete data coverage and different data sources, "Balancing Item" is used to balance biodiesel supply and disposition.

g Derived from the final 2010 stocks value for bulk terminals and biodiesel production plants (977 thousand barrels), not the final 2010 value for bulk terminals

only (672 thousand barrels) that is shown under "Stocks."

^h Derived from the preliminary 2012 stocks value (2,169 thousand barrels), not the final 2012 value (2,083 thousand barrels) that is shown under "Stocks."

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

Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu.

• Biodiesel data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Bitu by multiplying by 5.359 million Btu per barrel (the approximate heat content of biodiesel—see Table A3). • Through 2000, data are not available. Beginning in 2001, data not from U.S. Energy Information Administration (EIA) surveys are estimates. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the

⁵⁰ states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable (Excel and CSV files) for all available annual and monthly data beginning in 2001.

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 energy 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

1989 forward: 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 estimates for 2012 and 2013 are set equal to that of 2011.)

Residential Sector, Solar/PV

1989–2009: U.S. Energy Information Administration (EIA) estimates based on Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," and Form EIA-63B, "Annual Photovoltaic Module/Cell Manufacturers Survey." Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

2010 forward: EIA estimates based on Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report"; Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey" (pre-2010 data); and SEIA/GTM Research, *U.S. Solar Market Insight: 2010 Year in Review.* Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for 2013 is set equal to that of 2012 plus the 2011–2012 increase in Btu.)

Residential Sector, Wood

1949–1979: 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 2013 is set equal to that of 2012.)

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

1989 forward: 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 estimates for 2012 and 2013 are set equal to that of 2011.)

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

1949–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980–1983: EIA, Estimates of U.S. Wood Energy Consumption 1980-1983, Table ES1.

1984: EIA estimate based on the 1983 value.

1985–1988: Values interpolated.

1989 forward: EIA, *Monthly Energy Review (MER)*, Tables 7.4a–7.4c; and EIA estimates based on Form EIA-871, "Commercial Buildings Energy Consumption Survey." Data for wood consumption at commercial combined-heat-and-power (CHP) plants are calculated as total wood consumption at electricity-only and CHP plants (MER, Table 7.4a) minus wood consumption in the electric power sector (MER, Table 7.4b) and at industrial CHP plants (MER, Table 7.4c). Annual estimates for wood consumption at other commercial plants are based on Form EIA-871 (the annual estimate for 2013 is set equal to that of 2012); 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

1989 forward: EIA, MER, Table 7.4c.

Commercial Sector, Fuel Ethanol (Minus Denaturant)

1981 forward: 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

1949 forward: 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

1989 forward: 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 estimates for 2012 and 2013 are set equal to that of 2011.)

Industrial Sector, Solar/PV

2010 forward: Industrial sector solar thermal and photovoltaic (PV) electricity net generation data from the U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Wind

2011 forward: Industrial sector wind electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Wood

1949–1979: 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 2013 is set equal to that of 2012); 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 2013 is set equal to that of 2012); 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)

1981 forward: 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

1981 forward: 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)

1981 forward: 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

2001 forward: EIA, MER, Table 10.4. Transportation sector biodiesel consumption is assumed to equal total biodiesel consumption.

Table 10.3 Sources

Feedstock

1981 forward: 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

1981 forward: 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).

2009–2012: U.S. Energy Information Administration (EIA), *Petroleum Supply Annual (PSA)*, annual reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

2013: EIA, *Petroleum Supply Monthly (PSM)*, monthly reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are

multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

Production

1981–1992: Fuel ethanol production is assumed to equal fuel ethanol consumption—see sources for "Consumption."

1993–2004: Calculated as fuel ethanol consumption plus fuel ethanol stock change minus fuel ethanol net imports. These data differ slightly from the original production data from EIA, Form EIA-819, "Monthly Oxygenate Report," and predecessor form, which were not reconciled and updated to be consistent with the final balance.

2005–2008: EIA, Form EIA-819, "Monthly Oxygenate Report."

2009–2012: EIA, PSA, annual reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

2013: EIA, PSM, monthly reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

Trade, Stocks, and Stock Change

1992–2012: EIA, PSA, annual reports, Table 1.

2013: 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).

2009–2012: EIA, PSA, annual reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

2013: EIA, PSM, monthly reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

Consumption Minus Denaturant

1981 forward: Calculated as fuel ethanol consumption minus the amount of denaturant in fuel ethanol consumed. Denaturant in fuel ethanol consumed is estimated by multiplying denaturant in fuel ethanol produced by the fuel ethanol consumption-to-production ratio.

Table 10.4 Sources

Feedstock

2001 forward: 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

2001 forward: Calculated as biodiesel feedstock minus biodiesel production.

Production

2001–2005: U.S. Department of Agriculture, Commodity Credit Corporation, Bioenergy Program records. Annual data are derived from quarterly data. Monthly data are estimated by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month.

2006: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for soybean oil consumed in methyl esters (biodiesel). In addition, the U.S. Energy Information Administration (EIA) estimates that 14.4 million gallons of yellow grease were consumed in methyl esters (biodiesel).

2007: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for all fats and oils consumed in methyl esters (biodiesel).

2008: EIA, *Monthly Biodiesel Production Report*, December 2009 (release date October 2010), Table 11. Monthly data for 2008 are estimated based on U.S. Department of Commerce, Bureau of the Census, M311K data, multiplied by the EIA 2008 annual value's share of the M311K 2008 annual value.

2009 forward: EIA, *Monthly Biodiesel Production Report*, monthly reports, Table 1.

Trade

2001–2011: For imports, U.S. Department of Agriculture, data for the following Harmonized Tariff Schedule codes: 3824.90.40.20, "Fatty Esters Animal/Vegetable Mixture" through June 2010); and 3824.90.40.30, (data "Biodiesel/Mixes" (data for July 2010-2011). For exports, U.S. Department of Agriculture, data for the following Schedule B codes: 3824.90.40.00, "Fatty Substances Animal/Vegetable/Mixture" (data through 2010); and 3824.90.40.30, "Biodiesel <70%" (data for 2011). (The data above are converted from pounds to gallons by dividing by 7.4.) 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.

2012: EIA, *Petroleum Supply Annual (PSA)*, annual report, Tables 25 and 31, data for biomass-based diesel fuel.

2013: EIA, *Petroleum Supply Monthly (PSM)*, monthly reports, Tables 37 and 49, data for biomass-based diesel fuel.

Stocks and Stock Change

2009–2012: EIA, PSA, annual reports, Table 1, data for renewable fuels except fuel ethanol.

2013: EIA, PSM, monthly reports, Table 1, data for renewable fuels except fuel ethanol.

Balancing Item

2009 forward: 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.

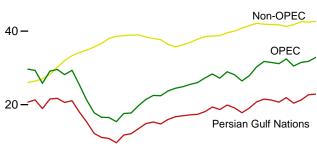
11. International Petroleum

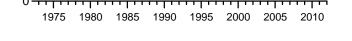
Figure 11.1a World Crude Oil Production Overview

(Million Barrels per Day)





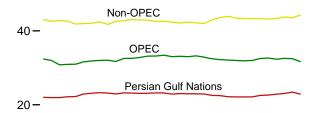




World Production, Monthly



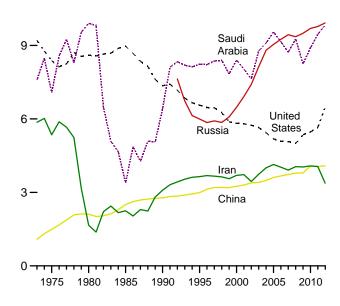






Selected Producers, 1973-2012

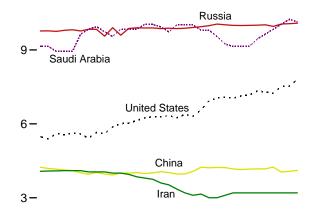
12**-**



Notes: • OPEC is the Organization of the Petroleum Exporting Countries. • The Persian Gulf Nations are Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Per-

Selected Producers, Monthly

12**-**

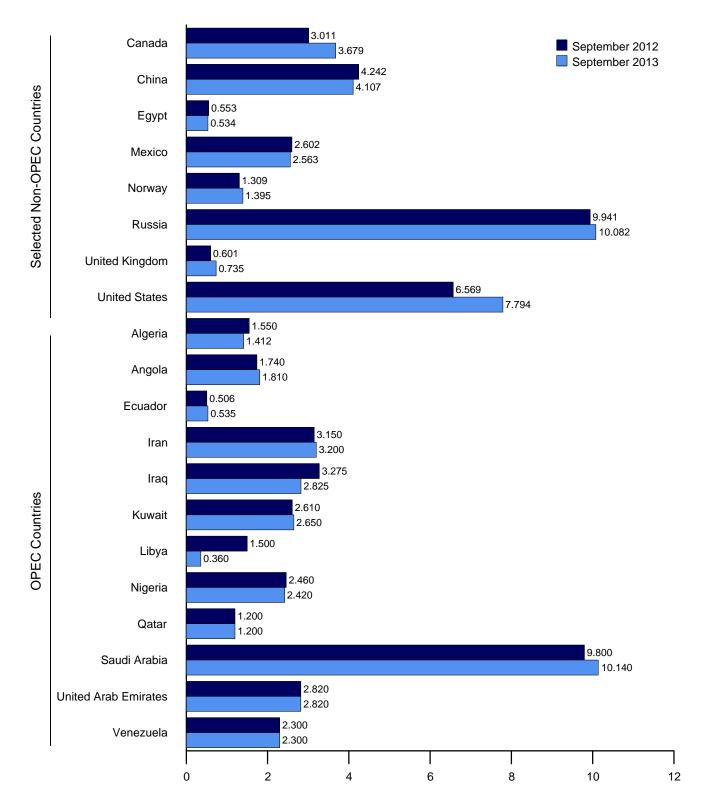




sian Gulf Nations."

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

Figure 11.1b World Crude Oil Production by Selected Country (Million Barrels per Day)



Note: OPEC is the Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international.

Sources: Tables 11.1a and 11.1b.

Table 11.1a World Crude Oil Production: OPEC Members

(Thousand Barrels per Day)

			· ,	,									
	Algeria	Angola	Ecuador	Iran	Iraq	Kuwait ^a	Libya	Nigeria	Qatar	Saudi Arabia ^a	United Arab Emirates	Vene- zuela	Total OPEC ^b
4072 4	4.007	400	200	F 004	2.040	2.000	0.475	2.054	570	7.500	4 500	2 200	00.004
1973 Average	1,097 983	162 165	209 161	5,861 5,350	2,018 2,262	3,020 2,084	2,175 1,480	2,054 1,783	570 438	7,596 7,075	1,533 1,664	3,366 2,346	29,661 25,790
1975 Average 1980 Average	1,106	150	204	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	25,790
1985 Average	1,036	231	281	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	15,367
1990 Average	1,180	475	285	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	22,498
1995 Average	1,162	646	392	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	25,500
1996 Average	1,227	709	396	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,003
1997 Average	1,259	714	388	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,274
1998 Average	1,226	735	375	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,346
1999 Average	1,177	745	373	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,199
2000 Average	1,214	746	395	3,696	2,571	2,079	1,410	2,165	737	8,404	2,368	3,155	28,940
2001 Average	1,265	742	412	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,114
2002 Average	1,349	896	393	3,444	2,023	1,894	1,319	2,118	679	7,634	2,082	2,604	26,435
2003 Average	1,516	903	411	3,743	1,308	2,136	1,421	2,275	715	8,775	2,348	2,335	27,885
2004 Average	1,582	1,052	528	4,001	2,011	2,376	1,515	2,329	783	9,101	2,478	2,557	30,313
2005 Average	1,692	1,250	532	4,139	1,878	2,529	1,633	2,627	835 850	9,550	2,535	2,565	31,766
2006 Average	1,699	1,413	536 511	4,028	1,996	2,535 2,464	1,681 1,702	2,440 2,350	850 851	9,152	2,636 2,603	2,511 2,490	31,476
2007 Average 2008 Average	1,708 1,705	1,744 1,981	505	3,912 4,050	2,086 2,375	2,464	1,702	2,350	924	8,722 9,261	2,603 2,681	2,490	31,143 32,433
2009 Average	1,705	1,907	486	4,037	2,373	2,350	1,650	2,103	927	8,250	2,413	2,319	30,522
2010 Average	1,540	1,939	486	4,080	2,399	2,300	1,650	2,455	1,127	8,900	2,415	2,216	31,507
2011 January	1,540	1,790	500	4,076	2,625	2,350	1,650	2,616	1,280	9,140	2,520	2,300	32,387
February	1,540	1,790	509	4,084	2,525	2,350	1,340	2,604	1,280	9.140	2,520	2,300	31,982
March	1,540	1,790	501	4,092	2,525	2,450	300	2,460	1,290	8,940	2,620	2,300	30,808
April	1,540	1,740	504	4,100	2,525	2,550	200	2,520	1,300	8,940	2,720	2,300	30,939
May	1,540	1,640	497	4,100	2,575	2,550	200	2,604	1,300	8,940	2,720	2,300	30,966
June	1,540	1,690	495	4,100	2,575	2,550	100	2,604	1,300	9,640	2,720	2,300	31,614
July	1,540	1,740	492	4,050	2,625	2,550	100	2,604	1,300	9,840	2,720	2,300	31,861
August	1,540	1,790	495	4,050	2,625	2,600	. 0	2,640	1,300	9,940	2,720	2,300	32,000
September	1,540	1,840	496	4,050	2,725	2,600	100	2,640	1,300	9,740	2,720	2,300	32,051
October	1,540	1,790	502	4,000	2,725	2,600	300	2,400	1,300	9,540	2,720	2,300	31,717
November	1,540	1,940	504	4,000	2,725	2,600	550	2,520	1,300	9,840	2,720	2,300	32,539
December	1,540 1,540	1,890 1,786	501 500	3,950 4,054	2,725 2,626	2,600 2,530	800 465	2,400 2,550	1,300 1,296	9,840 9,458	2,720 2,679	2,300 2,300	32,566 31,784
Average	,			,		•	403			9,436		,	,
2012 January	1,550 1,550	1,890 1,940	504 503	3,850 3,800	2,675 2,575	2,650 2,650	1,000 1,200	2,520 2,580	1,300 1,300	9,840 10,040	2,720 2,720	2,300 2,300	32,799 33,158
February March	1,550	1,790	499	3,750	2,725	2,640	1,350	2,520	1,200	10,040	2,720	2,300	33,174
April	1,550	1,890	500	3,600	2,725	2,640	1,400	2,640	1,190	9,930	2,820	2,300	33,425
May	1,550	1,840	498	3,525	2,905	2,640	1,400	2,580	1,200	9,730	2,820	2,300	33,008
June	1,544	1,790	502	3,350	2,975	2,630	1,400	2,580	1,200	10,020	2,820	2,300	33,111
July	1,546	1,740	508	3,200	3,075	2,625	1,400	2,580	1,200	10,015	2,820	2,300	33,009
August	1,548	1,840	512	3,100	3,175	2,625	1,450	2,640	1,200	10,015	2,820	2,300	33,225
September	1,550	1,740	506	3,150	3,275	2,610	1,500	2,460	1,200	9,800	2,820	2,300	32,911
October	1,482	1,790	503	3,000	3,075	2,610	1,500	2,340	1,200	9,800	2,820	2,300	32,420
November	1,483	1,770	504	3,000	3,225	2,650	1,450	2,280	1,200	9,540	2,820	2,300	32,222
December	1,485	1,790	503	3,100	3,125	2,650	1,350	2,520	1,200	9,240	2,820	2,300	32,083
Average	1,532	1,817	504	3,367	2,983	2,635	1,367	2,520	1,216	9,832	2,804	2,300	32,877
2013 January	1,490	1,840	505	3,200	3,075	2,650	1,350	2,410	1,200	9,140	2,820	2,300	31,980
February	1,490	1,790	506	3,200	3,075	2,650	1,400	2,320	1,200	9,140	2,820	2,300	31,891
March	1,490	1,840	504	3,200	3,075	2,650	1,350	2,420	1,200	9,140	2,820	2,300	31,989
April	1,510	1,855	516	3,200	3,175	2,650	1,450	2,400	1,200	9,440	2,820	2,300	32,516
May	1,510	1,890	522	3,200	3,075	2,650	1,420	2,420	1,200	9,640	2,820	2,300	32,647
June	1,510	1,770	524	3,200	3,100	2,650	1,130	2,270	1,200	9,840	2,820	2,300	32,314
July	1,520	1,790	531	3,200	3,100	2,650	1,000	2,400	1,200	10,040	2,820	2,300	32,551 R 32,472
August	1,520 1.412	1,770 1,810	537 535	3,200	3,275 2,825	2,650 2,650	590 360	R 2,370 2,420	1,200	10,240 10,140	2,820	2,300 2,300	R 32,472 31,672
September 9-Month Average	1,412 1,495	1,810 1,818	535 520	3,200 3,200	2,825 3,087	2,650 2,650	1,115	2,420 2,382	1,200 1,200	9,644	2,820 2,820	2,300 2,300	31,672 32,230
_													
2012 9-Month Average 2011 9-Month Average	1,549 1,540	1,828 1,756	504 499	3,479 4,078	2,930 2,592	2,634 2,507	1,345 437	2,567 2,588	1,221 1,295	9,935 9,364	2,798 2,665	2,300 2,300	33,090 31,620

^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 September 2013, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 520 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.
^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" R=Revised.

Notes: • Data are for crude oil and lease condensate; they exclude natural gas

plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary

monthly data are not available.

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

					Selected	Non-OPE	C ^a Producer	rs				
	Persian										Total	
	Gulf		.				Former		United	United	Non-	
	Nationsb	Canada	China	Egypt	Mexico	Norway	U.S.S.R.	Russia	Kingdom	States	OPEC ^a	World
1973 Average	20,668	1,798	1,090	165	465	32	8,324	NA	2	9,208	26,018	55,679
1975 Average	18,934	1,430	1,490	235	705	189	9,523	NA	12	8,375	27,039	52,828
1980 Average	17,961	1,435	2,114	595	1,936	486	11,706	NA	1,622	8,597	34,175	59,558
1985 Average	9,630	1,471	2,505	887	2,745	773	11,585	NA	2,530	8,971	38,598	53,965
1990 Average	15,278	1,553	2,774	873	2,553	1,630	10,975	NA	1,820	7,355	37,999	60,497
1995 Average	17,208	1,805	2,990	920	2,711	2,766		5,995	2,489	6,560	36,934	62,434
1996 Average	17,367	1,837	3,131	922	2,944	3,091		5,850	2,568	6,465	37,815	63,818
1997 Average	18,095	1,922	3,200	856	3,104	3,142		5,920	2,518	6,452	38,532	65,806
1998 Average	19,337	1,981	3,198	834	3,160	3,011		5,854	2,616	6,252	38,685	67,032
1999 Average	18,667 19,892	1,907	3,195 3,249	852 768	2,998 3,104	3,019 3,222		6,079 6,479	2,684	5,881	38,768 39,583	65,967 68,522
2000 Average	19,092	1,977 2,029	3,249	700 720	3,104	3,222		6,917	2,275 2,282	5,822 5,801	40,003	68,116
2001 Average	17,794	2,029	3,390	715	3,263	3,226		7,408	2,202	5,744	40,003	67,260
2002 Average 2003 Average	19,063	2,306	3,409	713	3,459	3,042		8,132	2,292	5,649	41,483	69,369
2004 Average	20,787	2,398	3,485	673	3,476	2,954		8,805	1,845	5,441	42,155	72,468
2005 Average	21,501	2,369	3,609	623	3,473	2,698		9,043	1,649	5,181	41,873	73,639
2006 Average	21,232	2,525	3,673	535	3,345	2,491		9,247	1,490	5,088	41,792	73,268
2007 Average	20,672	2,628	3,729	530	3,143	2,270		9,437	1,498	5,077	41,730	72,872
2008 Average	21,913	2,579	3,790	566	2,839	2,182		9,357	1,391	5,000	41,263	73,696
2009 Average	20.402	2,579	3.796	587	2,646	2.067		9.495	1,328	5,353	41,775	72.297
2010 Average	21,257	2,741	4,078	575	2,621	1,869		9,694	1,233	5,471	R 42,586	R 74,094
2011 January	22,026	2,833	4,238	572	2,636	1,905		9,769	1,316	5,482	R 43,039	R 75,427
February	21.934	2,783	4,188	571	2,606	1,861		9,773	1,085	5,386	R 42.572	R 74,554
March	,	2.854	4.160	570	2.624	1.808		9,753	1.073	5,603	R 42.791	R 73,599
April	,	2,854	4,127	569	2,624	1,874		9,795	1,164	5,554	R 42,625	R 73,563
May		2,562	4,106	568	2,608	1,607		9,818	1,017	5,619	R 41,844	^R 72,811
June		2,670	4,017	567	2,595	1,660		9,770	1,018	5,587	R 41,974	R 73,588
July		2,913	3,956	566	2,584	1,737		9,837	946	5,420	R 42,060	R 73,920
August		3,073	4,027	565	2,601	1,714		9,832	767	5,648	R 42,423	R 74,424
September		2,993	3,964	564	2,537	1,636		9,557	890	5,595	R 41,722	R 73,773
October		3,062	3,926	563	2,601	1,756		9,902	998	5,877	R 42,592	R 74,308
November	23,220	3,043	4,006	562	2,577	1,764		9,595	1,039	6,010	R 42,730	^R 75,269
December	23,170	3,155	3,998	561	2,604	1,713		9,869	1,010	6,028	R 43,069	^R 75,635
Average	22,678	2,901	4,059	566	2,600	1,752		9,774	1,026	5,652	R 42,455	^R 74,239
2012 January	23,076	3,108	4,022	560	2,566	1,761		9,894	1,021	6,135	R 42,911	R 75,710
February	23,126	3,249	3,986	560	2,591	1,745		9,889	1,034	R 6,239	R 42,869	^R 76,027
March	23,206	3,037	4,015	560	2,600	1,715		9,891	977	R 6,294	R 42,562	^R 75,736
April		3,155	4,060	560	2,590	1,720		9,861	975	R 6,285	R 42,598	^R 76,023
May	22,881	3,035	4,021	560	2,591	1,699		9,882	899	R 6,331	R 42,362	^R 75,370
June	23,036	3,014	3,963	556	2,588	1,583		9,861	950	R 6,247	R 42,099	^R 75,210
July	22,976	3,114	3,968	554	2,571	1,553		9,882	946	R 6,384	R 42,358	R 75,367
August	22,976	3,064	4,071	554	2,600	1,570		9,907	792	R 6,305	R 42,163	R 75,388
September	22,896	3,011	4,242	553	2,602	1,309		9,941	601	R 6,569	R 41,989	^R 74,901
October	22,546	3,173	4,217	551	2,584	1,549		9,984	682	R 6,939	R 42,973	R 75,393
November	22,476	3,271	4,232	551	2,622	1,517		10,048	864	^R 7,041	R 43,591	^R 75,813
December Average	22,176 22,878	3,427 3,138	4,224 4,085	551 556	2,606 2,593	1,558 1,607		10,018 9,922	923 888	^R 7,084 ^R 6,489	^R 43,906 ^R 42,699	^R 75,989 ^R 75,576
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2013 January		3,329	4,168	548	2,602	1,545		9,995	R 923	RE 7,043	R 43,418	R 75,398
February		3,259	4,146	547	2,595	1,502		9,990	R 831	RE 7,132	R 43,328	R 75,219
March	22,127	3,429	4,164	545	2,555	1,498		9,995	R 812	RE 7,169	R 43,317	R 75,306
April	22,527	3,237	4,174	543	2,557	1,567		10,002	R 827	RE 7,332	R 43,276	R 75,792
May		3,036	4,174	541	2,548	1,563		10,018	^R 864 ^R 783	RE 7,298	R 43,171	R 75,818
June	22,852	R 3,156	4,244	540 538	2,559	1,386		9,955	^R 790	RE 7,242 RE 7,513	^R 43,348 ^R 43,752	R 75,662
July	23,052	3,317	4,043		2,522	1,648		10,052	R 629	RE 7,513		R 76,303
August	23,427	3,470	4,075	536	2,554	1,546		10,064		F 7 704	R 43,528	R 76,000
September 9-Month Average	22,877 22,642	3,679 3,324	4,107 4,144	534 541	2,563 2,561	1,395 1,518		10,082 10,017	735 799	E 7,794 E 7,340	44,264 43,489	75,936 75,719
_	•		,		•		- -	•			,	
2012 9-Month Average 2011 9-Month Average	23,039 22,535	3,087 2,838	4,038 4,086	557 568	2,589 2,602	1,628 1,755		9,890 9,768	910 1,030	6,310 5,545	42,434 42,339	75,524 73,959

^a See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC" for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years.

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

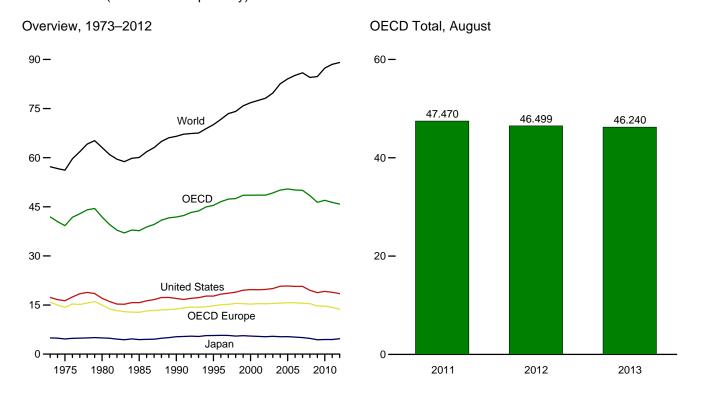
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: See end of section.

for all years.

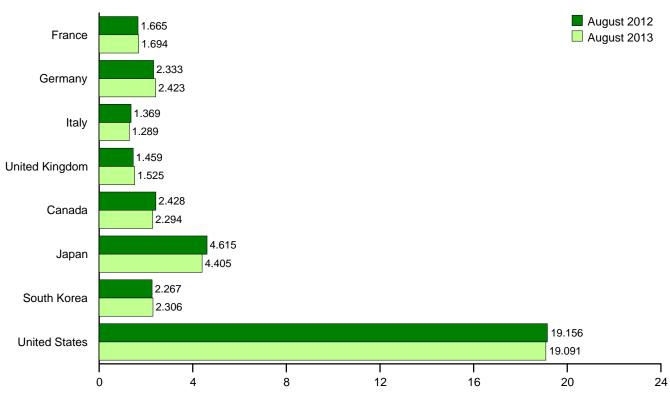
b Bahrain, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

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

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



By Selected OECD Country



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

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

	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	12,772	1,514	4,436	552	15,726	2,699	37,699	60,083
1990 Average	1,826	2,682	1,868	1,776	13,762	1,722	5,315	1,048	16,988	3,040	41,875	66,533
1995 Average	1,920	2,882	1,942	1,816	14,762	1,799	5,693	2,008	17,725	3,452	45,439	70,099
1996 Average	1,949	2,922	1,920	1,852	15,055	1,853	5,739	2,101	18,309	3,509	46,566	71,714
1997 Average	1,969	2,917	1,934	1,810	15,195	1,940	5,702	2,255	18,620	3,629	47,342	73,464
1998 Average	2,043	2,923	1,943	1,792	15,500	1,931	5,507	1,917	18,917	3,757	47,529	74,117
1999 Average	2,031	2,836	1,891	1,811	15,409	2,016	5,642	2,084	19,519	3,844	48,514	75,833
2000 Average	2,000	2,767	1,854	1,765	15,272	2,014	5,515	2,135	19,701	3,902	48,539	76,784
2001 Average	2,054	2,807	1,832	1,747	15,442	2,043	5,412	2,132	19,649	3,892	48,570	77,476
2002 Average	1,985	2,710	1,870	1,739	15,379	2,065	5,319	2,149	19,761	3,877	48,551	78,173
2003 Average	2,001	2,662	1,860	1,759	15,486	2,191	5,428	2,175	20,034	3,920	49,234	79,714
2004 Average	2,009	2,649	1,829	1,785	15,589	2,282	5,319	2,155	20,731	4,021	50,096	82,579
2005 Average	1,991	2,621	1,781	1,820	15,704	2,315	5,328	2,191	20,802	4,100	50,441	84,085
2006 Average	1,991	2,639	1,777	1,806	15,708	2,229	5,197	2,180	20,687	4,135	50,137	85,148
2007 Average	1,979	2,416	1,729	1,753	15,528	2,283	5,037	2,241	20,680	4,256	50,025	85,932
2008 Average	1,945	2,542	1,667	1,726	15,436	2,225	4,798	2,142	19,498	4,294	48,393	84,513
2009 Average	1,868	2,453	1,544	1,637	14,692	2,163	4,390	2,189	18,771	4,169	46,374	84,790
2010 Average	1,833	2,470	1,544	1,621	14,662	2,265	4,455	2,269	19,180	4,154	46,984	87,376
2011 January	1,774	2,227	1,391	1,577	13,620	2,232	4,852	2,456	18,911	3,870	45,942	NA
February	1,917	2,429	1,598	1,626	14,760	2,290	5,058	2,379	18,809	4,324	47,620	NA
March	1,790	2,390	1,484	1,612	14,248	2,367	4,552	2,322	19,234	4,312	47,036	NA
April	1,748	2,254	1,502	1,596	13,927	2,121	4,098	2,039	18,588	4,154	_ 44,927	NA
May	1,735	2,400	1,464	1,531	14,010	2,161	3,778	2,049	18,420	4,170	R 44,587	NA
June	1,787	2,267	1,550	1,663	14,351	2,317	3,944	2,140	19,182	4,323	46,256	NA
July	1,800	2,405	1,517	1,538	14,359	2,298	4,228	2,215	18,705	4,247	R 46,053	NA
August	1,805	2,635	1,439	1,593	14,702	2,433	4,454	2,239	19,349	4,293	47,470	NA
September	1,920	2,547	1,581	1,646	14,937	2,278	4,294	2,269	18,848	4,269	46,894	NA
October	1,777	2,505	1,504	1,554	14,341	2,167	4,403	2,243	18,796	4,064	46,014	NA
November	1,731	2,443	1,445	1,570	14,133	2,252	4,592	2,280	19,019	R 4,329	R 46,605	NA
December	1,738	2,259	1,463	1,508	13,696	2,275	5,428	2,463	18,721	R 4,347	R 46,931	NA
Average	1,792	2,397	1,494	1,584	14,252	2,266	4,471	2,258	18,882	R 4,224	R 46,353	R 88,521
012 January	1,746	2,134	1,305	1,424	R 12,954	2,116	5,149	2,398	18,304	R 4,176	R 45,097	NA
February	1,951	2,567	1,351	1,548	^R 14,445	2,200	5,537	2,444	18,643	^R 4,351	R 47,620	NA
March	1,726	2,263	1,358	1,598	R 13,642	2,266	5,145	2,185	18,164	R 4,394	R 45,797	NA
April	1,688	2,291	1,337	1,584	^R 13,583	2,171	4,375	2,132	18,211	R 4,197	^R 44,668	NA
May	1,672	2,351	1,346	1,501	R 13,603	2,311	4,353	2,213	18,589	R 4,293	R 45,363	NA
June	1,781	2,521	1,411	1,510	^R 14,118	2,203	4,114	2,337	18,857	^R 4,311	R 45,941	NA
July	1,801	2,496	1,422	1,491	R 13,989	2,308	4,358	2,228	18,515	R 4,277	R 45,676	NA
August	1,665	2,333	1,369	1,459	R 13,650	2,428	4,615	2,267	19,156	R 4,382	R 46,499	NA
September	1,727	2,388	1,358	1,509	R 13,721	2,297	4,428	2,298	18,092	R 4,164	R 45,001	NA
October	1,809	2,573	1,399	1,406	R 14,132	2,314	4,408	2,231	18,705	R 4,414	R 46,205	NA
November	1,710	2,548	1,299	1,490	R 13,813	2,445	4,627	2,456	18,528	4,441	R 46,309	NA
December	1,613	2,212	1,277	1,517	R 12,978	2,373	5,478	2,432	18,120	4,377	R 45,758	NA
Average	1,740	2,388	1,353	1,503	R 13,714	2,287	4,715	2,301	18,490	R 4,315	R 45,822	R 89,080
013 January	1,684	2,234	1,230	1,420	12,790	2,310	5,180	2,402	18,646	R 4,191	R 45,519	NA
February	1,812	2,321	1,323	1,522	R 13,447	2,287	5,299	2,387	18,659	R 4,259	R 46,338	NA
March	1,746	2,342	1,282	1,504	R 13,252	2,256	4,745	2,159	18,476	^R 4,144	R 45,032	NA
April	1,807	2,589	1,302	1,567	R 13,992	R 2,262	4,319	2,267	18,553	R 4,295	R 45,689	NA
May	1,737	2,462	1,268	1,482	R 13,648	R 2,337	R 4,117	2,256	18,551	R 4,213	R 45,121	NA
June	1,716	2,492	1,272	1,597	R 13,702	R 2,322	R 3,892	2,301	18,724	R 4,245	R 45,187	NA
July	1,857	2,454	1,409	1,503	R 14,152	R 2,280	R 4,390	2,245	19,046	R 4,198	R 46,311	NA
August	1,694	2,423	1,289	1,525	13,844	2,294	4,405	2,306	19,091	4,300	46,240	NA
8-Month Average	1,756	2,415	1,297	1,514	13,603	2,294	4,538	2,289	18,720	4,230	45,673	NA
2012 8-Month Average	1,752	2,368	1,363	1,514	13,742	2,251	4,703	2,275	18,554	4,298	45,822	NA
2011 8-Month Average	1,793	2,376	1,492	1,591	14,242	2,278	4,365	2,229	18,901	4,210	46,225	NA

^a Data are for unified Germany, i.e., the former East Germany and West

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

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: • United States: Table 3.1. • Chile, East Germany, Former Czechoslovakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, U.S. Territories, and World: 1973–1979—U.S. Energy Information Administration (EIA), International Energy Database. • Countries Other Than United States: 1980–2008—EIA, International Energy Statistics (IES). • OECD Countries, and U.S. Territories: 2009 forward—EIA, IES. • World: 2009 forward—EIA, Short Term Energy Outlook, December 2013, Table 3a. • All Other Data:—International Energy Agency (IEA). Quatarty Oil Statistics and Energy Data:-International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues.

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; for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia; and, for 2000 forward, Slovenia.

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

Other Occol Consists of Australia, New Zeland, and the U.S. Territories; for 1984 forward, Mexico; and, for 2000 forward, Chile, Estonia, and Israel.

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

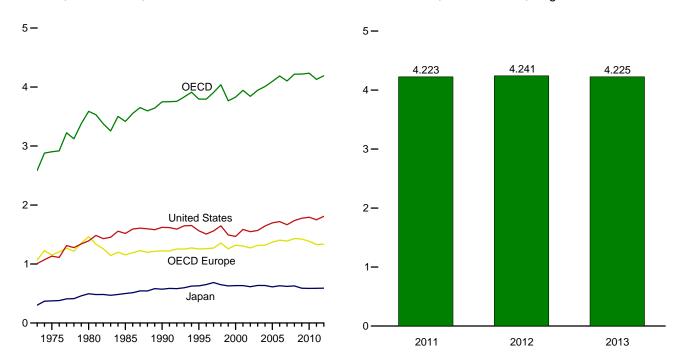
R=Revised. NA=Not available.

Notes: • Totals may not equal sum of components due to independent

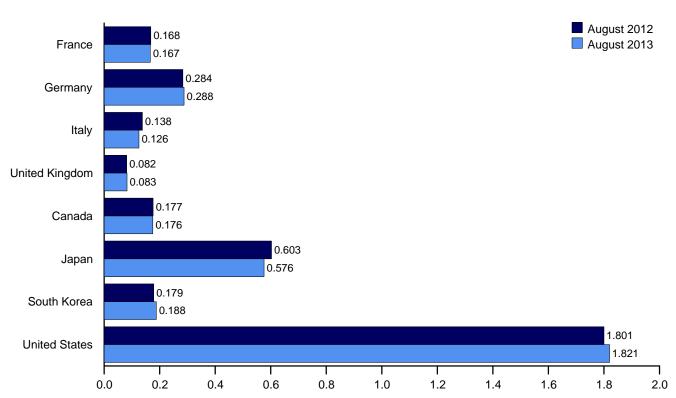
Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)

Overview, End of Year, 1973-2012

OECD Stocks, End of Month, August



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)

	non ban	1									
	France	Germanya	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD d
1973 Year	201	181	152	156	1,070	140	303	NA	1,008	67	2,588
1975 Year	225	187	143	165	1,070	174	375	NA NA	1,133	67	2,903
1980 Year	243	319	170	168	1,464	164	495	NA	1,133	72	3,587
1985 Year	139	277	156	131	1,154	112	500	13	1,519	119	3,417
1990 Year	143	280	171	103	1,222	143	572	64	1,621	126	3.749
1995 Year	155	302	162	101	1,256	132	631	92	1,563	122	3,795
1996 Year	154	303	152	103	1,259	127	651	123	1,507	127	3,794
1997 Year	161	299	147	100	1,271	144	685	124	1,560	123	3,907
1998 Year	169	323	153	104	1,355	139	649	129	1,647	120	4.039
1999 Year	160	290	148	101	1,258	141	629	132	1.493	114	3.766
2000 Year	170	272	157	100	1,318	143	634	140	1,468	126	3,829
2001 Year	165	273	151	113	1,306	154	634	143	1,586	120	3,944
2002 Year	170	253	156	104	1,273	155	615	140	1,548	112	3,843
2003 Year	179	273	153	100	1,316	165	636	155	1,568	105	3.945
2004 Year	177	267	154	101	1,319	154	635	149	1,645	108	4.010
2005 Year	185	283	151	95	1,371	168	612	135	1,698	112	4,015
2006 Year	182	283	153	103	1,404	169	631	152	1,720	113	4,033
2007 Year	180	275	152	92	1,389	163	621	143	1,720	121	4,107
2008 Year	179	279	148	93	1,431	162	629	135	1,737	124	4,218
2009 Year	175	284	146	89	1,424	157	589	155	1,737	118	4,219
2010 Year	168	287	143	83	1,385	184	587	165	1,776	120	4,219
2011 January	173	291	148	90	1,425	174	596	168	1,809	120	4,291
February	170	288	139	89	1,395	169	591	162	1,780	122	4,221
March	167	286	140	87	1,384	172	580	170	1,776	118	4,199
April	163	291	141	89	1,372	179	601	173	1,779	125	4,228
May	168	288	137	85	1,372	177	598	170	1,807	124	4,248
June	167	286	139	79	1,366	177	593	175	1,809	121	4,241
July	164	290	139	81	1,355	177	599	173	1,816	124	4,243
August	162	283	140	83	1,359	176	598	171	1,796	124	4,223
September	160	277	138	78	1,337	176	601	174	1,781	121	4,190
October	165	278	138	79	1,327	178	599	174	1,769	120	4,167
November	164	277	140	86	1,342	179	603	170	1,770	117	4,182
December	165	281	135	80	1,330	178	589	167	1,750	117	4,130
2012 January	166	288	138	84	1,359	178	594	164	1,773	121	4,188
February	165	286	138	84	1,356	180	583	171	1,767	113	4,172
March	165	284	139	82	1,367	171	580	164	1,783	113	4.178
April	163	284	137	85	1,359	170	592	174	1,784	115	4,195
May	162	281	137	82	1,338	172	597	183	1,796	117	4,202
June	164	280	134	82	1,340	170	601	177	1,810	112	4,210
July	163	285	132	80	1,350	173	608	181	1,813	116	4,241
August	168	284	138	82	1,367	177	603	179	1,801	114	4,241
September	164	283	143	75	1,349	180	606	184	1,819	117	4,254
October	160	282	141	75	1,330	175	614	180	1,810	110	4,219
November	160	287	138	85	1,345	174	604	177	1,810	106	4,217
December	162	287	126	81	1,337	R 174	590	175	1,808	108	^R 4,192
2012 January	162	292	120	86	^R 1.381	^R 172	591	179	1 010	105	4 2 4 2
2013 January	162	292 289	130		R 1,381	R 174	591 581		1,812	1105	4,242 R 4,207
February	162	289 291	130 130	81 79	R 1,374	R 170	589	176 188	1,791	110	R 4,207
March									1,793		R 4,226
April	159	289	132	84	1,370	172	596	176	1,807	114	
May	163	291	121	80	R 1,345	170	592	177	1,817	112	R 4,213
June	166	288	126	83	R 1,346	174	586	182	1,818	116	R 4,222
July	166	289	125	83	R 1,358	R 175	577	189	1,818	115	R 4,231
August	167	288	126	83	1,349	176	576	188	1,821	115	4,225

^a Through December 1983, the data for Germany are for the former West Germany only. Beginning with January 1984, the data for Germany are for the

R=Revised. NA=Not available.

Notes: • Stocks are at end of period. • Petroleum stocks include crude oil

(including strategic reserves), unfinished oils, natural gas plant liquids, and refined products. • In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, thereby affecting subsequent stocks reported. New-basis end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 states and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international (Excel and CSV files) for all available annual and monthly 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, December 11, 2013

Germany Only. Beginning with January 1904, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom; for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia; and, for 2000 forward, Slovenia.

C "Other OECD" consists of Australia, New Zealand, and the U.S. Territories; for 1984 forward, Mexico; and, for 2000 forward, Chile, Estonia, and Israel.

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

International Petroleum

Tables 11.1a and 11.1b Sources

United States

Table 3.1.

2013.

All Other Countries and World, Annual Data

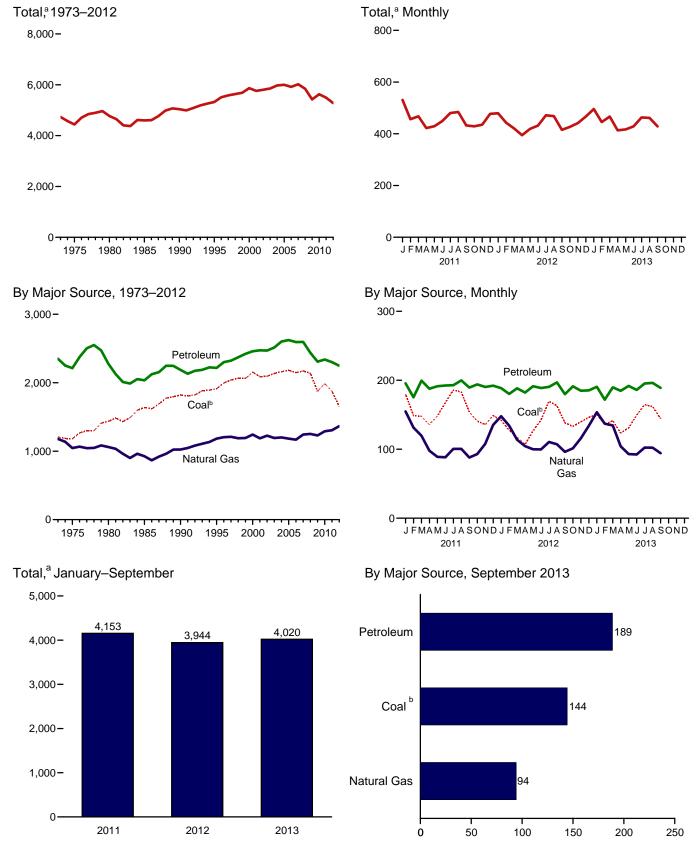
1973–1979: U.S. Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8. 1980 forward: EIA, International Energy Database, December 2013.

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, December

12. Environment

Figure 12.1 Carbon Dioxide Emissions From Energy Consumption by Source (Million Metric Tons of Carbon Dioxide)



^a Excludes emissions from biomass energy consumption.

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

^b Includes coal coke net imports.

Table 12.1 Carbon Dioxide Emissions From Energy Consumption by Source

			1	- AIDOII L	. 37	,								
								Petrole	um					
	Coalb	Natural Gas ^c	Aviation Gasoline	Distillate Fuel Oil ^d	Jet Fuel	Kero- sene	LPG ^e	Lubri- cants	Motor Gasoline ^f	Petroleum Coke	Residual Fuel Oil	Otherg	Total	Total ^{h,i}
1973 Total 1975 Total 1975 Total 1980 Total 1985 Total 1990 Total 1996 Total 1997 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2008 Total 2009 Total	1,207 1,181 1,436 1,638 1,913 1,995 2,040 2,064 2,065 2,155 2,088 2,095 2,136 2,160 2,182 2,147 2,147 2,147 2,147 2,147 2,147 2,147 2,149 1,876 1,986	1,178 1,046 1,061 926 1,024 1,183 1,200 1,189 1,193 1,193 1,243 1,188 1,227 1,193 1,200 1,183 1,263 1,	6 5 4 4 3 3 3 3 3 3 3 2 2 2 2 2 2 2 2 2 2 2	480 443 446 445 470 498 525 534 538 555 580 598 587 610 632 640 648 652 615 564 590	155 146 156 178 223 222 234 238 245 243 243 240 246 240 238 225 240 240 240 240 240 240 240 240 240 240	32 24 24 17 6 8 9 10 11 6 8 10 10 10 8 5 2 3	92 82 87 87 80 86 87 82 90 97 88 91 87 87 87 87 87	13 111 13 12 13 13 12 13 14 14 14 13 11 12 11 11 12 11 11	911 900 930 988 1,044 1,063 1,075 1,107 1,127 1,135 1,151 1,183 1,214 1,224 1,224 1,227 1,166 1,157 1,146	54 51 49 54 70 76 79 80 93 96 89 96 107 106 106 100 93 87 81	508 443 453 216 220 152 152 158 148 163 144 125 138 155 165 122 129 111 91	100 97 142 93 127 121 139 145 128 133 118 135 130 142 144 143 152 150 132 122	2,350 2,212 2,275 2,036 2,187 2,216 2,302 2,323 2,372 2,459 2,474 2,603 2,623 2,593 2,593 2,593 2,593 2,307 2,339	4,735 4,439 4,771 4,609 5,323 5,510 5,584 5,635 5,868 5,761 5,804 5,855 5,975 5,992 6,023 5,842 5,627
Petron January February March April May June July August September October November December Total	180 149 148 136 148 168 183 154 141 136 149 1,876	155 131 120 98 89 88 101 101 88 93 108 135 1,306	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	52 47 53 48 49 50 47 53 50 53 52 51 603	17 15 17 18 18 19 18 19 17 17 17	(s) 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 8 7 6 6 6 6 6 7 7 8 8	1 1 1 1 1 1 1 1 1 1	91 84 95 92 95 95 98 96 92 93 89 94	7 5 6 8 7 7 8 6 7 7 4	9 8 7 7 7 7 5 5 7 6 6 8 82	10 8 11 10 8 9 11 10 10 10 11 10	196 175 199 188 191 192 193 200 189 194 190 192 2,301	531 456 468 422 429 449 480 484 432 429 435 477 5,494
Petron July September October November December Total	142 127 118 107 127 R 142 170 163 138 R 133 140 146 R 1,654	148 134 114 R 104 100 100 111 107 R 96 R 101 116 R 134 R 1,365	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	51 48 49 47 49 47 49 47 49 47 50 49 46 579	16 16 17 16 18 19 18 18 17 17 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	8 8 7 6 7 6 6 7 7 8 8 9	1 1 1 1 1 1 1 1 1 1 1 1	89 87 93 91 97 94 95 99 90 94 89 91 1,107	7 5 6 7 7 6 7 6 7 7	7 6 6 6 5 5 5 7 6 5 5 5 5 3 66	9 10 9 8 8 10 10 10 7 11 11 11 12	189 180 188 182 191 189 190 197 180 191 185 185 2,248	R 479 443 421 395 R 419 432 R 472 R 468 R 415 427 441 R 467
Pebruary	150 136 142 124 131 150 165 162 144 1,303	154 137 134 104 93 92 102 102 94 1,014	(s) (s) (s) (s) (s) (s) (s) (s) (s)	53 47 49 49 46 46 48 47 435	16 15 17 17 18 17 19 19	(s) (s) (s) (s) (s) (s) (s) (s)	10 9 9 7 6 6 7 7 7 68	1 1 1 1 1 1 1 1 8	89 82 93 91 97 93 98 98 93 835	7 5 6 5 7 7 7 8 7 57	5 4 7 4 3 4 5 6 5	10 9 8 10 11 10 12 9 12	191 172 190 185 192 186 195 196 189	496 445 467 414 417 429 463 461 429 4,020
2012 9-Month Total 2011 9-Month Total	1,235 1,450	1,014 970	1 1	434 448	155 158	1 2	63 61	7 8	834 837	59 60	53 62	80 87	1,687 1,724	3,944 4,153

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

b Includes coal coke net imports.

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

R=Revised. (s)=Less tan 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 (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: See end of section.

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

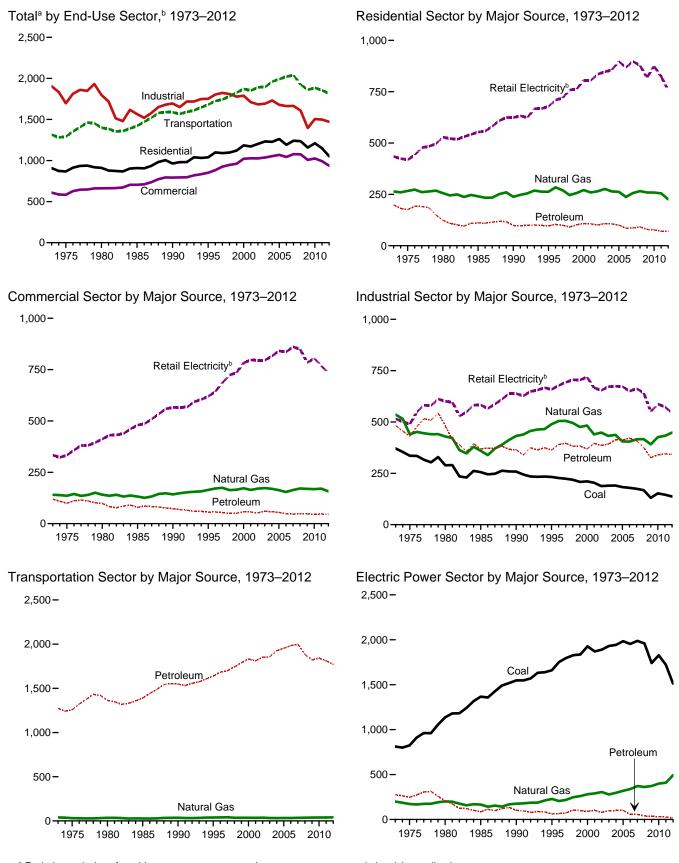
Liquefied petroleum gases.
Finished motor gasoline, excluding fuel ethanol.

g 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.

Includes electric power sector use of geothermal energy and non-biomass waste. See Table 12.6.

Excludes emissions from biomass energy consumption. See Table 12.7.

Figure 12.2 Carbon Dioxide Emissions From Energy Consumption by Sector (Million Metric Tons of Carbon Dioxide)



^a Excludes emissions from biomass energy consumption.

total electricity retail sales.

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

^b Emissions from energy consumption in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of

Table 12.2 Carbon Dioxide Emissions From Energy Consumption: Residential Sector

				Petrole	eum			
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Total	Retail Electricity ^e	Total ^f
1973 Total	9	264	147	16	36	199	435	907
1975 Total	ő	266	132	12	32	176	419	867
1980 Total	3	256	96	8	20	124	529	911
1985 Total	4	241	80	11	20	111	553	909
1990 Total	3	238	72	5	22	98	624	963
1995 Total	2	263	66	5	25 25	96	678	1,039
1995 Total	2	284	68	6	30	104	710	1,039
1996 Total	2	270	64	7	29	99	710	1,099
1997 Total	4	270 247	56	8	29 27	99 91	759	1,090
1998 Total	<u> </u>	247 257	61	8	33	102	759 762	1,097
1999 Total	<u> </u>	257 271	66	° 7	35 35		805	
2000 Total	<u> </u>					108		1,185
2001 Total	1	259	66	7	33	106	805	1,172
2002 Total	1	265	63	4	34	101	835	1,203
2003 Total	1	276	68	5	34	108	847	1,232
2004 Total	1	264	68	6	32	106	856	1,228
2005 Total	1	262	62	6	32	101	897	1,261
2006 Total	1	237	52	5	28	85	869	1,192
2007 Total	1	257	53	3	31	87	897	1,241
2008 Total	NA	266	55	2	35	92	878	1,235
2009 Total	NA	259	43	2	35	79	819	1,157
2010 Total	NA	259	41	2	33	77	875	1,210
2011 January	NA	52	5	(s)	3 3	8	87	147
February	NA	42	4	(s)	3	7	67	116
March	NA	33	3	(s)	3	6	59	98
April	NA	19	2	(s)		5	53	76
May	NA	11	2	(s)	2 2 2	4	57	73
June	NA	7	2	(s)	2	4 5	75	87
July	NA	6	2	(s)	2	5	95	106
	NA	6	3	(s)	2	5	92	103
August	NA NA	7	3		2	5	68	80
September	NA NA	12	3	(s)	3	6	53	72
October	NA NA	23	4	(s)	3	7	53	82
November		23 37	5	(s)	3	8		02 111
December	NA			(s)		71	66	
Total	NA	255	38	1	31	/1	824	1,149
2012 January	NA	43	5	(s)	3	8	_ 68	120
February	NA	36	4	(s)	3	7	R 57	101
March	NA	22	4	(s)	3	6	R 50	79
April	NA	15	3	(s)	2 2	5 5	44	^R 64
May	NA	9	3	(s)	2	5	55	69
June	NA	7	3	(s)	2	5	69	_R 80
July	NA	6	2	(s)	2	5	92	R 102
August	NA	6	3	(s)	3	6	85	96
September	NA	6	2	(s)	2 3 2	6 5 5	65	76
October	NA	13	2	(s)	3	5	R 53	72
November	NA	26	3	(s)	3	6	R 57	88
December	NA	37	3	(s)	3	6	65	108
Total	NA	226	37	1	32	69	R 757	R 1,053
2013 January	NA	48	4	(s)	3	8	72	128
2013 January	NA NA	46 41	4		3	° 7	61	109
February		36	3	(s)	3	<i>1</i>		
March	NA NA	20		(s)	3	6 5	62 50	105
April	NA NA		3	(s)	3	5		75 66
May	NA	10	2	(s)	2	4	51	66
June	NA	7	1	(s)	2	4	67	78
July	NA	6	1	(s)	3	4	83	93
	NA	6	2	(s)	3	4	79	89
August		7	1 2	(s)	3	4	67	78
September	NA							
	NA NA	181	21	(s)	24	46	594	820
September								

 ^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.

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 (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: See end of section.

Distillate fuel oil, excluding brodiesel.

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

Table 12.3 Carbon Dioxide Emissions From Energy Consumption: Commercial Sector

	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Total	Retail Electricity ^f	Total
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2007 Total 2007 Total 2008 Total 2009 Total	15 14 11 13 12 11 12 19 10 9 9 9 8 8 10 9 7 7	141 136 141 132 142 164 171 174 165 173 164 170 163 154 164 171 169 168	47 43 38 46 39 35 35 32 31 32 36 37 32 36 34 33 29 28 29 29	5 4 3 2 1 2 2 2 2 2 2 2 2 1 1 1 1 2 1 2 2 2 2 2 1	9 8 6 6 7 8 8 7 9 9 9 9 10 10 8 8 8 10 9 9	66878123322333443444	NA NA NA (S)	52 39 44 18 11 11 9 7 6 6 9 10 9 6 6 6 6 6 6	120 100 98 79 73 56 57 54 51 51 58 57 61 58 47 47 47	334 333 412 480 566 620 643 686 724 735 783 797 795 816 842 836 861 850 785 805	609 583 662 704 793 851 883 926 947 960 1,022 1,027 1,026 1,037 1,054 1,078 1,078 1,078 1,008
Petron January February March April May June July August September October November December Total	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	29 23 20 13 9 7 7 8 11 15 21	4 3 3 2 1 1 2 2 2 2 2 3 3 4	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) 0 0 0 0 0 0 0 0 (s) (s) (s)	1 (S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	5 5 4 3 2 3 3 4 4 4 4 4 6 47	65 55 58 57 63 70 79 77 66 61 57 60 769	99 85 83 73 75 81 89 77 77 77 87 992
Polyal January February March April May June July August September October November December Total	1 (S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	24 21 14 11 8 7 7 7 8 12 17 21	4 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	6 5 4 3 3 3 4 4 3 4 4 4 4 4 4 5	57 53 52 51 60 66 76 73 8 63 61 59 59	87 R 80 71 R 65 72 R 76 R 86 R 85 R 74 76 80 85 R 937
2013 January	(S) (S) (S) (S) (S) (S) (S) (S) (S)	26 23 21 13 9 7 7 7 122	3 3 2 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 7	(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)	5 5 4 3 2 2 2 2 2 2 2 2 2	59 55 58 53 59 67 73 73 65 563	90 83 84 70 71 77 83 83 76
2012 9-Month Total 2011 9-Month Total	3 5	108 123	23 21	(s) (s)	7 7	2 2	(s) (s)	2 3	34 33	552 591	697 751

Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 Natural gas, excluding supplemental gaseous fuels.
 Distillate fuel oil, excluding biodiesel.
 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.
 R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons.

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

coverage is the 50 states and the District of Columbia.

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

Carbon Dioxide Emissions From Energy Consumption: Industrial Sector

		Coal	Petroleum											
	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 1975 Total 1985 Total 1985 Total 1995 Total 1995 Total 1995 Total 1996 Total 1997 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 2008 Total 2009 Total 2009 Total	371 336 289 258 233 227 224 219 204 188 190 191 183 179 175 168	-1 2 -4 -2 1 7 3 5 8 7 7 3 7 6 6 5 7 3 3 -2 1 7 3 3 7 6 1 6 7 6 7 6 7 7 7 8 7 8 7 8 7 8 7 8 7 8 7	536 440 429 360 432 489 505 505 495 475 483 440 443 432 437 405 405 416 417 391 426	106 97 96 81 84 82 87 88 88 86 87 95 88 89 92 92 92 92 93 84	11 9 13 3 1 1 1 1 2 1 1 2 2 2 3 2 1 (s)	444 39 61 59 37 47 48 50 47 45 45 41 44 42 43 33 33 35	76767777666666666666666666666666666666	18 16 11 15 13 14 14 11 11 21 22 23 26 25 26 21 17 16 18	52 51 48 54 67 67 71 70 80 85 79 78 84 81 84 82 77	144 117 105 57 31 25 24 16 14 17 14 13 16 18 20 16 13	100 97 142 93 127 121 139 145 128 135 130 142 144 143 152 150 132 122	483 431 483 369 364 391 396 382 383 369 396 386 393 413 412 421 409 376 326 340	515 490 601 583 659 678 694 706 704 667 667 672 675 673 650 662 642 551 587	1,904 1,697 1,798 1,566 1,695 1,751 1,803 1,824 1,809 1,778 1,711 1,682 1,731 1,673 1,662 1,665 1,605 1,396 1,506
Pebruary	13 12 13 12 12 12 12 12 12 12 12 14 14	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	40 36 38 35 35 33 34 35 34 36 37 40 432	9 7 10 7 7 7 5 7 7 7 8 9 6	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	5 4 4 3 3 3 3 3 4 4 4 4 4 4 2	(s) (s) 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 2 2 2 1 1 1 1 1 1 1 1 1 1 1	5 4 5 5 7 5 7 5 6 6 3 63	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 8 11 10 8 9 11 10 10 11 10 11	32 25 33 28 27 27 26 30 28 30 28 30 32 26 345	48 42 46 45 48 50 54 53 47 47 46 45 574	133 117 130 120 123 122 125 131 122 125 126 124 1,498
2012 January	12 12 12 11 11 11 11 11 11 12 12	(s) (s) (s) 1 (s) (s) (s) (s) (s) (s) (s) (s) (s)	41 38 38 36 36 35 36 37 36 38 40 449	9 8 7 7 6 5 6 7 9 6 87	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	4 4 3 3 3 3 3 4 4 5 44	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	6 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 1 1 1 1 1 1 1 1 1 (s)	9 10 9 8 8 10 10 10 7 11 11 12	31 30 29 26 28 27 26 28 26 31 31 31 31	43 42 41 41 46 47 52 50 R 45 46 46 R 45 543	R 127 121 120 115 121 120 R 124 126 117 125 127 127 R 1,472
2013 January	12 12 12 12 12 12 12 11 11 11	(S) (S) (S) (S) (S) (S) (S) (S) (S)	42 38 40 37 37 36 37 37 37 342	11 9 8 9 9 7 6 7 8 74	(s) (s) (s) (s) (s) (s) (s) (s) (s)	5 5 4 3 3 4 3 3 3 5	(S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 2 1 2 2 2 1 1 3	6 4 5 4 5 6 5 6 6 47	1 (s) 1 (s) (s) 1 1 1 5	10 9 8 10 11 10 12 9 12 92	34 29 29 30 29 30 29 30 29 32 269	43 40 44 41 45 46 49 49 44 400	131 119 125 119 124 122 126 126 124 1,116
2012 9-Month Total 2011 9-Month Total	102 109	1 1	333 320	63 67	(s) (s)	31 30	4 4	13 13	52 48	6 7	80 87	249 257	406 434	1,091 1,122

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

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

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

metric tons. Notes: • 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 (Excel and CSV files) for all available annual and monthly data beginning in 1973.

Distillate ruel oil, excluding blodiesel.

d Liquefied 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.

Table 12.5 Carbon Dioxide Emissions From Energy Consumption: Transportation Sector

			Petroleum									
	Coal	Natural Gas ^b	Aviation Gasoline	Distillate Fuel Oil ^c	Jet Fuel	LPG ^d	Lubri- cants	Motor Gasoline ^e	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2007 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2009 Total 2009 Total	(s) (s) (h, h, h	39 32 34 28 36 38 39 41 35 36 35 37 33 32 33 33 35 37	6543333322222222222222222222222222222222	163 155 204 232 268 307 327 342 352 366 378 387 394 409 434 449 469 472 408 429	152 145 155 178 223 222 232 234 238 245 243 237 240 240 238 226 240 238 220 204 210	3 3 1 2 1 1 1 1 1 1 1 1 1 1 2 2 1 3 2 1 3 1 1 1 1	6666776666555555	886 889 881 908 907 1,029 1,047 1,057 1,090 1,115 1,121 1,127 1,158 1,161 1,185 1,186 1,194 1,201 1,146 1,137 1,145	57 56 110 62 80 72 67 56 53 52 70 46 53 45 58 66 71 78 73	1,273 1,258 1,363 1,391 1,548 1,639 1,683 1,699 1,743 1,783 1,813 1,813 1,856 1,926 1,953 1,984 1,999 1,882 1,820 1,843	2223333333444555555555555	1,315 1,292 1,400 1,421 1,588 1,681 1,725 1,744 1,782 1,852 1,872 1,852 1,893 1,962 1,991 2,022 2,040 1,924 1,863 1,886
2011 January February March April May June July August September October November December Total	(h h) (h h) (h h h) (h h h) (h h h) (h h h h	5 4 4 3 3 3 3 3 3 3 3 3 3 4 4 39	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	34 31 37 36 38 38 38 40 37 38 36 35 439	17 15 17 18 18 19 17 17 17 17 209	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	89 82 93 91 93 93 96 94 90 92 87 92 1,093	665555346556 61	147 135 154 150 156 156 157 158 150 152 146 150 1,811	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	152 139 158 154 159 159 160 162 153 156 150 155 1,855
2012 January February March April May June July August September October November December Total	(h) (h) (h h) (h h) (h h) (h h) (h h) (h h) (h h) (h h) (h h) (h h) (h h) (h h) (h h) (h h) (h h) (h h) (h)	4 4 3 3 3 3 3 3 3 3 3 3 3 4 4	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	32 31 34 35 37 36 37 38 35 38 35 34	16 16 17 16 18 19 18 17 17 17 206	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	87 85 91 90 95 92 94 97 88 92 87 89	5 4 5 5 4 4 5 5 4 3 4 2 4 9	141 137 148 147 154 152 155 158 145 151 143 142	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	146 142 152 150 157 155 158 162 148 154 147 147
Pebruary February March April May June July August September 9-Month Total	(h) (h) (h) (h) (h) (h) (h) (h)	5 4 4 3 3 3 3 3 3 3 3 3	(s) (s) (s) (s) (s) (s) (s) (s) (s)	34 31 35 36 37 37 37 38 36	16 15 17 17 18 17 19 19 17 155	(s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s)	87 81 91 90 95 92 96 97 91	4 3 5 3 2 3 4 5 4 5 4 3 3	142 130 149 146 153 150 157 159 149 1,334	(s) (s) (s) (s) (s) (s) (s) (s) (s)	147 134 153 149 156 153 161 163 152 1,368
2012 9-Month Total 2011 9-Month Total	{h}	30 29	1 1	316 330	155 158	2 2	3 4	819 822	40 46	1,336 1,363	3 3	1,369 1,395

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.

(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 (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: See end of section.

Equalities performing sales.

Finished motor gasoline, excluding fuel ethanol.

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.

Expludes emissions from biomass 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.

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

				Petro	leum				
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Petroleum Coke	Residual Fuel Oil	Total	Geo- thermal	Non- Biomass Waste ^d	Totale
1973 Total	812	199	20	2	254	276	NA	NA	1,286
1975 Total	824	172	17	(s)	231	248	NA	NA	1,244
1980 Total	1,137	200	12	`1	194	207	NA	NA	1,544
1985 Total	1,367	166	6	1	79	86	NA	NA	1,619
1990 Total	1,548	176	7	3	92	102	(s)	6	1,831
1995 Total	1,661	228	8	8	45	61	(s)	10	1,960
1996 Total	1,752	205	8	8	50	66	(s)	10	2,033
1997 Total	1,797	219	8	10	56	75	(s)	10	2,101
1998 Total	1,828	248	10	13	82	105	(s)	10	2,192
1999 Total	1,836	260	10	11	76	97	(s)	10	2,204
2000 Total	1,927	281	13	10	69	91	(s)	10	2,310
2001 Total	1,870	290	12	11	79	102	(s)	11	2,273
2002 Total	1,890	306	.9	18	52	79	(s)	13	2,288
2003 Total	1,931	278	12	18	69	98	(s)	11	2,319
2004 Total	1,943	297	8	23	69	100	(s)	11	2,352
2005 Total	1,984	319	8	25	69	102	(s)	11	2,417
2006 Total	1,954	338	5	22	28	56	(s)	12	2,359
2007 Total	1,987	372	7	17	31	55	(S)	11	2,426
2008 Total	1,959	362	5 5	16 14	19 14	40 34	(s)	12	2,374
2009 Total 2010 Total	1,741 1.828	373 399	6	15	12	34 33	(s) (s)	11 11	2,159 2,271
2010 Total	1,020	333		13	12	33	(5)	""	2,211
2011 January	166	29	1	2	1	3	(s)	1	200
February	136	26	(s)	<u>1</u>	1	2	(s)	1	165
March	134	26	(s)	2	1	3	(s)	1	163
April	124	28	(s)	1	1	2	(s)	1	155
May	135	31	(s)	1	1	2	(s)	1	169
June	155	38	(s)	1	1	2	(s)	1	196
July	174	51	(s)	2	1	3	(s)	1	228
August	170	50	(s)	1	1	2	(s)	1	223
September	141	37	(s)	1	(s)	2	(s)	1	182
October	128	31	(s)	1	(s)	2	(s)	1	162
November	124	29	(s)	1	(s)	2	(s)	1	155
December Total	136 1,723	33 409	(s)	1 15	(s <u>)</u>	2 27	(s) (s)	11	172 2,171
10tai	1,723	409		13	,	21	(5)	""	2,171
2012 January	130	35	(s)	1	1	2	(s)	1	168
February	115	35	(s)	1	(s)	2	(s)	1	153
March	105	R 36	(s)	_ 1	(s)	1	(s)	1	144
April	95	39	(s)	R 1	(s)	1	(s)	1	_ 136
May	115	44	(s)	1	(s)	1	(s)	1	^R 161
June	131	48	(s)	1	1	2	(s)	1	182
July	R 158	59	(s)	1	1	2	(s)	1	R 220
August	R 151	54 ^R 43	(s)	1	1	2 R 1	(s)	1	R 208
September	127 122	36	(s)	1	(s)	1	(s) (s)	1	173 ^R 160
October	128	31	(s) (s)	1	(s) (s)	1		1	162
November December	134	32	(s)	1	(s)	R 2	(s) (s)	1	R 169
Total	R 1,512	R 493	4	ģ	6	19	(s)	11	R 2,036
							. ,		•
2013 January	138	34	(s)	1	1	2	(s)	1	175
February	123	31	(s)	1	, 1	2	(s)	1	156
March	129	33	(s)	1	(s)	2	(s)	1	164
April	112	30	(s)	1	(s)	2 2	(s)	1	145
May	119	33 40	(s)	1	(s)	2	(s)	1	155 181
June	138 153	40 49	(s) (s)	1	(s)	2	(s)	1	205
July August	150	49 49	(S)	1	1	2	(s) (s)	1	202
September	133	41	\\ \\ \\ \\ \\ \\ \	i	(s)	2	(s)	i	177
9-Month Total	1,195	339	3	10	5	18	(s)	8	1,561
	•					-	. ,		•
2012 9-Month Total	1,128	393	3 4	7	5 6	15	(s) (s)	8 8	1,544
2011 9-Month Total	1,335	316	4	12	О	22	(8)	ð	1,681

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

[•] See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

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

Table 12.7 Carbon Dioxide Emissions From Biomass Energy Consumption

			By Source			By Sector						
	Woodb	Biomass Waste ^c	Fuel Ethanol ^d	Bio- diesel	Total	Resi- dential	Com- mercial ^e	Indus- trial ^f	Trans- portation	Electric Power ^g	Total	
1973 Total 1975 Total 1980 Total 1980 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 2090 Total 2000 Total 2001 Total 2002 Total	143 140 232 252 208 222 229 222 205 208 212 188 187	(s) (s) (s) 14 24 30 32 30 32 30 39 27 33	NA NA NA 3 4 8 6 7 8 8 9	NA NA NA NA NA NA NA NA NA (s)	143 141 232 270 237 260 266 259 242 245 248 231	33 40 80 95 54 49 51 40 36 37 39 35 36	1 1 2 2 8 9 10 10 9 9 9	109 100 150 168 147 166 170 172 160 161 161 147	NA NA NA 3 4 8 6 7 8 8 9 10	(s) (s) (s) 23 28 30 30 30 29 31 35	143 141 232 270 237 260 266 259 242 245 248 231	
2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2010 Total	188 199 200 197 196 193 181 186	36 35 37 36 37 39 41 42	16 20 23 31 39 55 62 73	(s) (s) 1 2 3 3 3	240 255 261 266 276 290 287 303	38 38 40 36 39 44 47 41	9 10 10 9 9 10 10	141 151 150 151 146 139 125	16 20 23 33 41 57 64 74	37 36 37 38 39 40 41 42	240 255 261 266 276 290 287 303	
Petron June July August September October November December Total	17 15 16 15 15 16 16 16 16 16 17	3 3 3 3 3 4 4 4 4 4 4 4 4	6 6 6 6 6 6 7 6 6 6 6 7	(s) (s) (s) 1 1 1 1 1 1 1 1 8	26 24 26 25 25 26 27 26 26 26 28 312	4 3 4 3 4 4 3 4 4 3 4 4 4 4 4 4 4 4 4 4	1 1 1 1 1 1 1 1 1 1 1 1	12 11 12 11 11 12 12 12 11 12 12 12 12 1	6 6 6 7 7 7 7 7 7 7 7	3 3 3 3 3 4 4 4 3 3 3 4 4 4 4 4 4 4 4 4	26 24 26 25 25 26 26 27 26 26 26 28 312	
Page 1 Page 1 Page 2 Pa	16 15 15 15 15 15 16 R 16 R 16 R 16 R 16 R 16	4 3 4 3 4 4 4 4 4 8 4 4 4 4 4	6 6 6 6 6 6 7 6 6 6 6 7 7	(s) 1 1 1 1 1 1 1 1 (s) 8	26 R 25 R 26 R 25 26 26 27 R 27 R 27 R 26 26 R 26 R 27 R 27 R 313	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 1 1 1 1 1 1 1 1 1 1 1	12 11 R 12 11 12 11 R 12 R 12 R 12 R 12	6 6 7 7 7 7 7 7 6 6 6 80	R 4 3 3 3 3 3 4 8 4 8 4 8 4 8 4 8 4 8 4 8	26 R 25 R 26 R 25 26 26 R 27 R 27 R 26 R 26 R 26 R 27 R 313	
2013 January	16 14 16 14 15 15 16 16 15 138	4 3 4 3 4 4 4 4 3 3 3 2	6 5 6 6 6 6 55	1 1 1 1 1 1 1 1 1 8	26 24 26 25 26 26 28 27 26 233	3 3 3 3 3 3 3 3 29	1 1 1 1 1 1 1 1 1 8	12 11 12 11 11 11 12 12 11 104	6 6 7 7 7 7 7 7 63	3 3 3 3 3 4 4 4 3 30	26 24 26 25 26 26 28 27 26 233	
2012 9-Month Total 2011 9-Month Total	140 141	32 31	55 54	7 5	234 232	29 32	8 8	105 103	60 59	31 30	234 232	

R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons. Notes: • Carbon dioxide emissions from biomass energy consumption are excluded from the energy-related carbon dioxide emissions reported in Tables 12.1–12.6. See Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#environment (Excel and CSV files) for all available annual and monthly data beginning in 1973. Sources: See end of section.

Sources: See end of section.

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

Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.

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.

Environment

Note 1. Emissions of Carbon Dioxide and Other Greenhouse Gases. Greenhouse gases are those gases—such as water vapor, carbon dioxide (CO₂), methane, nitrous oxide, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride—that are transparent to solar (shortwave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Energy-related carbon dioxide emissions account for about 98 percent of U.S. CO₂ emissions. The vast majority of CO₂ emissions come from fossil fuel combustion, with smaller amounts from the nonfuel use of fossil fuels, as well as from electricity generation using geothermal energy and non-biomass waste. Other sources of CO₂ emissions include industrial processes, such as cement and limestone production. Data in the U.S. Energy Information Administration's (EIA) *Monthly Energy Review (MER)* Tables 12.1–12.6 are estimates for U.S. CO₂ emissions from energy consumption, including the nonfuel use of fossil fuels (excluded are estimates for CO₂ emissions from biomass energy consumption, which appear in Table 12.7).

For annual U.S. estimates for emissions of CO₂ from all sources, as well as for emissions of other greenhouse gases, see EIA's *Emissions of Greenhouse Gases Report* at http://www.eia.gov/environment/emissions/ghg_report/.

Note 2. Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion. Carbon dioxide (CO₂) emissions from the combustion of biomass to produce energy are excluded from the energy-related CO₂ emissions reported in MER Tables 12.1-12.6, but appear in Table 12.7. According to current international convention (see the Intergovernmental Panel on Climate Change's "2006 IPCC Guidelines for National Greenhouse Gas Inventories"), carbon released through biomass combustion is excluded from reported energy-related emissions. The release of carbon from biomass combustion is assumed to be balanced by the uptake of carbon when the feedstock is grown, resulting in zero net emissions over some period of time. (This is not to say that biomass energy is carbon-neutral. Energy inputs are required in order to grow, fertilize, and harvest the feedstock and to produce and process the biomass into fuels.)

However, analysts have debated whether increased use of biomass energy may result in a decline in terrestrial carbon stocks, leading to a net positive release of carbon rather than the zero net release assumed by its exclusion from reported energy-related emissions. For example, the clearing of forests for biofuel crops could result in an initial release of carbon that is not fully recaptured in subsequent use of the land for agriculture.

To reflect the potential net emissions, the international convention for greenhouse gas inventories is to report biomass emissions in the category "agriculture, forestry, and other land use," usually based on estimates of net changes in carbon stocks over time.

This indirect accounting of CO₂ emissions from biomass can potentially lead to confusion in accounting for and understanding the flow of CO₂ emissions within energy and nonenergy systems. In recognition of this issue, reporting of CO₂ emissions from biomass combustion alongside other energy-related CO₂ emissions offers an alternative accounting treatment. It is important, however, to avoid misinterpreting emissions from fossil energy and biomass energy sources as necessarily additive. Instead, the combined total of direct CO₂ emissions from biomass and energy-related CO₂ emissions implicitly assumes that none of the carbon emitted was previously or subsequently reabsorbed in terrestrial sinks or that other emissions sources offset any such sequestration.

Section 12 Methodology and Sources

To estimate carbon dioxide emissions from energy consumption for the *Monthly Energy Review (MER)*, Tables 12.1–12.7, the U.S. Energy Information Administration (EIA) uses the following methodology and sources:

Step 1. Determine Fuel Consumption

Coal—Coal sectoral (residential, commercial, coke plants, other industrial, transportation, electric power) consumption data in thousand short tons are from MER Table 6.2. Coal sectoral consumption data are converted to trillion Btu by multiplying by the coal heat content factors in MER Table A5

Coal Coke Net Imports—Coal coke net imports data in trillion Btu are derived from coal coke imports and exports data in MER Tables 1.4a and 1.4b.

Natural Gas (excluding supplemental gaseous fuels)—Natural gas sectoral consumption data in trillion Btu are from MER Tables 2.2–2.6.

Petroleum—Total and sectoral consumption (product supplied) data in thousand barrels per day for asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, liquefied petroleum gases (LPG), lubricants, motor gasoline, petroleum coke, and residual fuel oil are from MER Tables 3.5 and 3.7a-3.7c. For the component products of LPG (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene) and "other petroleum" (aviation gasoline blending components, crude oil, motor gasoline blending components, naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products), consumption (product supplied) data in thousand barrels per day are from EIA's Petroleum Supply Annual (PSA), Petroleum Supply Monthly (PSM), and earlier

publications (see sources for MER Table 3.5). Petroleum consumption data by product are converted to trillion Btu by multiplying by the petroleum heat content factors in MER Table A1 (Table A3 for motor gasoline).

Biomass—Sectoral consumption data in trillion Btu for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are from MER Tables 10.2a–10.2c.

Step 2. Remove Biofuels From Petroleum

Distillate Fuel Oil—Beginning in 2009, the distillate fuel oil data (for total and transportation sector) in Step 1 include biodiesel, a non-fossil renewable fuel. To remove the biodiesel portion from distillate fuel oil, data in thousand barrels per day for refinery and blender net inputs of renewable diesel fuel (from the PSA/PSM) are converted to trillion Btu by multiplying by the biodiesel heat content factor in MER Table A3, and then subtracted from the distillate fuel oil consumption values.

Motor Gasoline—Beginning in 1993, the motor gasoline data (for total, commercial sector, industrial sector, and transportation sector) in Step 1 include fuel ethanol, a nonfossil renewable fuel. To remove the fuel ethanol portion from motor gasoline, data in trillion Btu for fuel ethanol consumption (from MER Tables 10.2a, 10.2b, and 10.3) are subtracted from the motor gasoline consumption values. (Note that about 2 percent of fuel ethanol is fossilbased petroleum denaturant, to make the fuel ethanol For 1993-2008, petroleum denaturant is undrinkable. double counted in the PSA product supplied statistics, in both the original product category—e.g., pentanes plus—and also in the finished motor gasoline category; for this time period for MER Section 12, petroleum denaturant is removed along with the fuel ethanol from motor gasoline, but left in the original product. Beginning in 2009, petroleum denaturant is counted only in the PSA/PSM product supplied statistics for motor gasoline; for this time period for MER Section 12, petroleum denaturant is left in motor gasoline.)

Step 3. Remove Carbon Sequestered by Nonfuel Use

The following fuels have industrial nonfuel uses as chemical feedstocks and other products: coal, natural gas, asphalt and road oil, distillate fuel oil, liquefied petroleum gases (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene), lubricants (which have industrial and transportation nonfuel uses), naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, petroleum coke, residual fuel oil, special naphthas, still gas, waxes, and miscellaneous petroleum products. In the nonfuel use of these fuels, some of the carbon is sequestered, and is thus subtracted from the fuel consumption values in Steps 1 and 2.

Estimates of annual nonfuel use and associated carbon sequestration are developed by EIA using the methodology

detailed in "Documentation for *Emissions of Greenhouse Gases in the United States* 2008" at http://www.eia.gov/oiaf/1605/ggrpt/documentation/pdf/0638(2006).pdf.

To obtain monthly estimates of nonfuel use and associated carbon sequestration, monthly patterns for industrial consumption and product supplied data series are used. For coal nonfuel use, the monthly pattern for coke plants coal consumption from MER Table 6.2 is used. For natural gas, the monthly pattern for other industrial non-CHP natural gas consumption from MER Table 4.3 is used. For distillate fuel oil, petroleum coke, and residual fuel oil, the monthly patterns for industrial consumption from MER Table 3.7b are used. For the other petroleum products, the monthly patterns for product supplied from the PSA and PSM are used.

Step 4. Determine Carbon Dioxide Emissions From Energy Consumption

Carbon dioxide (CO₂) emissions data in million metric tons are calculated by multiplying consumption values in trillion Btu from Steps 1 and 2 (minus the carbon sequestered in nonfuel use in Step 3) by the CO₂ emissions factors at http://www.eia.gov/oiaf/1605/ggrpt/excel/CO2_coeffs_09_v2.xls. Beginning in 2010, the 2009 factors are used.

Coal—CO₂ emissions for coal are calculated for each sector (residential, commercial, coke plants, other industrial, transportation, electric power). Total coal emissions are the sum of the sectoral coal emissions.

Coal Coke Net Imports—CO₂ emissions for coal coke net imports are calculated.

Natural Gas—CO₂ emissions for natural gas are calculated for each sector (residential, commercial, industrial, transportation, electric power). Total natural gas emissions are the sum of the sectoral natural gas emissions.

Petroleum—CO₂ emissions are calculated for each petroleum product. Total petroleum emissions are the sum of the product emissions. Total LPG emissions are the sum of the emissions for the component products (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene); residential, commercial, and transportation sector LPG emissions are estimated by multiplying consumption values in trillion Btu from MER Tables 3.8a and 3.8c by the propane emissions factor; industrial sector LPG emissions are estimated as total LPG emissions minus emissions by the other sectors.

Geothermal and Non-Biomass Waste—Annual CO₂ emissions data for geothermal and non-biomass waste are EIA estimates based on Form EIA-923, "Power Plant Operations Report" (and predecessor forms). Monthly estimates are created by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month. (Annual estimates for the current year are set equal to those of the previous year.)

Biomass—CO₂ emissions for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are calculated for each sector. Total emissions for each biomass fuel are the sum of the sectoral emissions. The following factors, in million metric tons CO₂ per quadrillion Btu, are used: wood—93.80; biomass waste—90.70; fuel ethanol—68.44; and biodiesel—73.84. For 1973–1988, the biomass portion

of waste in MER Tables 10.2a–10.2c is estimated as 67 percent; for 1989–2000, the biomass portion of waste is estimated as 67 percent in 1989 to 58 percent in 2000, based on the biogenic shares of total municipal solid waste shown in EIA's "Methodolology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy," Table 1 at http://www.eia.gov/cneaf/solar.renewables/page/mswaste/msw.pdf.

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Appendix A

British Thermal Unit Conversion Factors

The thermal conversion factors presented in the following tables can be used to estimate the heat content in British thermal units (Btu) of a given amount of energy measured in physical units, such as barrels or cubic feet. For example, 10 barrels of asphalt has a heat content of approximately 66.36 million Btu (10 barrels x 6.636 million Btu per barrel = 66.36 million Btu).

The heat content rates (i.e., thermal conversion factors) provided in this section represent the gross (or higher or upper) energy content of the fuels. Gross heat content rates are applied in all Btu calculations for the *Monthly Energy Review* and are commonly used in energy calculations in the United States; net (or lower) heat content rates are typically used in European energy calculations. The difference between the two rates is the amount of energy that is consumed to vaporize water that is created during the combustion process. Generally, the difference ranges from 2 percent to 10 percent, depending on the specific fuel and its hydrogen content. Some fuels, such as unseasoned wood, can be more than 40 percent different in their gross

and net heat content rates. See "Heat Content" and "British Thermal Unit (Btu)" in the Glossary for more information.

Thermal conversion factors for hydrocarbon mixes (Table A1) are weighted averages of the thermal conversion factors for each hydrocarbon included in the mix. For example, in calculating the thermal conversion factor for a 60-40 butane-propane mixture, the thermal conversion factor for butane is weighted 1.5 times the thermal conversion factor for propane.

In general, the annual thermal conversion factors presented in Tables A2 through A6 are computed from final annual data or from the best available data and labeled "preliminary." Often, the previous year's factor is used as a preliminary value until data become available to calculate the factor appropriate to the year. The source of each factor is described in the section entitled "Thermal Conversion Factor Source Documentation," which follows Table A6 in this appendix.

Table A1. Approximate Heat Content of Petroleum Products (Million Btu per Barrel)

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	6.636	Pentanes Plus	4.620
Aviation Gasoline	5.048	Petrochemical Feedstocks	
Butane	4.326	Naptha Less Than 401°F	5.248
Butane-Propane Mixture ^a	4.130	Other Oils Equal to or Greater Than 401°F	5.825
Distillate Fuel Oil ^b	5.825	Still Gas	6.000
Ethane	3.082	Petroleum Coke	6.024
Ethane-Propane Mixture ^c	3.308	Plant Condensate	5.418
Isobutane	3.974	Propane	3.836
Jet Fuel, Kerosene Type	5.670	Residual Fuel Oil	6.287
Jet Fuel, Naphtha Type	5.355	Road Oil	6.636
Kerosene	5.670	Special Naphthas	5.248
Lubricants	6.065	Still Gas	6.000
Motor Gasolined		Unfinished Oils	5.825
Conventional	5.253	Unfractionated Stream	5.418
Reformulated	5.150	Waxes	5.537
Oxygenated	5.150	Miscellaneous	5.796
Natural Gasoline and Isopentane	4.620		

^a 60 percent butane and 40 percent propane.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

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

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

^b Does not include biodiesel. See Table A3 for biodiesel heat contents.

^{° 70} percent ethane and 30 percent propane.

^d See Table A3 for motor gasoline weighted heat contents beginning in 1994, and for fuel ethanol heat contents.

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

	Pro	Production		Imports			Exports		
	Crude Oil ^a	Natural Gas Plant Liquids	Crude Oil ^a	Petroleum Products	Total	Crude Oil ^a	Petroleum Products	Total	
950	5.800	4.522	5.943	6.263	6.080	5.800	5.751	5.766	
955		4.406	5.924	6.234	6.040	5.800	5.765	5.768	
960		4.295	5.911	6.161	6.021	5.800	5.835	5.834	
965		4.264	5.872	6.123	5.997	5.800	5.742	5.743	
970		4.146	5.822	6.088	5.985	5.800	5.811	5.810	
975		3.984	5.821	5.935	5.858	5.800	5.747	5.748	
980		3.914	5.812	5.748	5.796	5.800	5.841	5.820	
981		3.930	5.818	5.659	5.775	5.800	5.837	5.821	
982		3.872	5.826	5.664	5.775	5.800	5.829	5.820	
983		3.839	5.825	5.677	5.774	5.800	5.800	5.800	
984		3.812	5.823	5.613	5.745	5.800	5.867	5.850	
985		3.815	5.832	5.572	5.736	5.800	5.819	5.814	
986		3.797	5.903	5.624	5.808	5.800	5.839	5.832	
987		3.804	5.901	5.599	5.820	5.800	5.860	5.858	
988		3.800	5.900	5.618	5.820	5.800	5.842	5.840	
989		3.826	5.906	5.641	5.833	5.800	5.869	5.857	
990		3.822	5.934	5.614	5.849	5.800	5.838	5.833	
991		3.807	5.948	5.636	5.873	5.800	5.827	5.823	
992		3.804	5.953	5.623	5.877	5.800	5.774	5.777	
993		3.801	5.954	5.620	5.883	5.800	5.777	5.779	
994		3.794	5.950	5.534	5.861	5.800	5.777	5.779	
995		3.796	5.938	5.483	5.855	5.800	5.740	5.746	
996		3.777	5.947	5.468	5.847	5.800	5.728	5.736	
97		3.762	5.954	5.469	5.862	5.800	5.726	5.734	
998		3.769	5.953	5.462	5.861	5.800	5.710	5.720	
999		3.744	5.942	5.421	5.840	5.800	5.684	5.699	
000		3.733	5.959	5.432	5.849	5.800	5.651	5.658	
001		3.735	5.976	5.443	5.862	5.800	5.751	5.752	
002		3.729	5.971	5.451	5.863	5.800	5.687	5.688	
003		3.739	5.970	5.438	5.857	5.800	5.739	5.740	
004		3.724	5.981	5.475	5.863	5.800	5.753	5.754	
005		3.724	5.977	5.474	5.845	5.800	5.741	5.743	
006		3.712	5.980	5.454	5.842	5.800	5.723	5.724	
007	5.800	3.701	5.985	5.503	5.862	5.800	5.749	5.750	
800	5.800	3.706	5.990	5.479	5.866	5.800	5.762	5.762	
009	5.800	3.692	5.988	5.525	5.882	5.800	5.737	5.738	
)10	5.800	3.674	5.989	5.557	5.894	5.800	5.670	5.672	
011		3.672	6.008	5.507	5.896	5.800	5.596	5.599	
012		3.683	6.165	5.514	6.038	5.800	5.583	5.587	
013 ^E		3.683	6.165	5.514	6.038	5.800	5.583	5.587	

a Includes lease condensate.
 E=Estimate.
 Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.
 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#appendices (Excel and CSV files) for all available annual data beginning in 1949.
 Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A3. Approximate Heat Content of Petroleum Consumption and Biofuels Production (Million Btu per Barrel)

	Total Petroleum ^a Consumption by Sector						Liquefied			Fuel		5: "
	Resi- dential	Com- mercial ^b	Indus- trial ^b	Trans- portation ^{b,c}	Electric Power ^{d,e}	Total ^{b,c}	Petroleum Gases Con- sumption ^f	Motor Gasoline Con- sumption ^g	Fuel Ethanol ^h	Ethanol Feed- stock Factor	Biodiesel	Biodiesel Feed- stock Factori
1950	5.473	5.817	5.953	5.461	6.254	5.649	4.011	5.253	NA NA	NA	NA	NA
1955	5.469	5.781	5.881	5.407	6.254	5.591	4.011	5.253	NA NA	NA	NA NA	NA
1960	5.417	5.781	5.818	5.387	6.267	5.555	4.011	5.253	NA NA	NA	NA	NA
1965	5.364	5.760	5.748	5.386	6.267	5.532	4.011	5.253	NA NA	NA	NA NA	NA
1970	5.260	5.708	5.595	5.393	6.252	5.503	f 3.779	5.253	NA NA	NA	NA NA	NA
1975	5.253	5.649	5.513	5.392	6.250	5.494	3.715	5.253	NA NA	NA	NA 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	NA
1981	5.283	5.693	5.299	5.433	6.258	5.448	3.643	5.253	3.563	6.562	NA 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	NA
1983	5.140	5.591	5.254	5.416	6.255	5.406	3.614	5.253	3.563	6.515	NA 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	NA
1985	5.263	5.598	5.199	5.423	6.247	5.387	3.603	5.253	3.563	6.469	NA 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	NA
1987	5.239	5.594	5.233	5.429	6.249	5.403	3.659	5.253	3.563	6.423	NA 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	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	NA
1990	5.145	5.553	5.253	5.442	6.244	5.411	3.625	5.253	3.563	6.355	NA 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	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	NA
1994	5.098	5.515	5.150	5.424	6.213	5.361	3.635	g 5.230	3.563	6.264	NA 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	NA
1996	4.998	5.433	5.114	5.420	6.195	5.336	3.613	5.216	3.563	6.220	NA 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	NA
1998	4.975	5.365	5.137	5.413	6.210	5.349	3.614	5.212	3.563	6.176	NA 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	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	4.921	5.316	5.144	5.407	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	4.790	5.186	5.154	5.424	6.123	5.339	3.600	5.218	3.563	5.983	5.359	5.433
2009	4.679	5.250	5.019	°5.414	6.105	° 5.301	3.558	5.218	3.563	5.957	5.359	5.433
2010	4.679	5.228	4.985	5.423	6.084	5.297	3.557	5.218	3.561	5.931	5.359	5.433
2011	4.673	5.231	4.960	5.425	6.058	5.286	3.541	5.218	3.560	5.905	5.359	5.433
2012	E 4.636	E 5.189	E 4.928	E 5.418	P 6.064	5.274	3.534	5.219	3.560	5.880	5.359	5.433
2013	E 4.636	E 5.189	E 4.928	E 5.418	E 6.064	E 5.274	E 3.534	E 5.219	E 3.560	5.880	5.359	5.433
		000		00	0.00	J	0.00.	0.2.0	0.000	0.000	0.000	000

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.

Note: The heat content values in this table are for gross heat contents. See "Heat Content" in Glossary.

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

Sources: See "Thermal Conversion Factor Source Documentation." which follows Table A6.

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

d Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers

Electric power sector factors are weighted average heat contents for distillate fuel oil, petroleum coke, and residual fuel oil; they exclude other liquids.

There is a discontinuity in this time series between 1966 and 1967; beginning in 1967, the single constant factor is replaced by a quantity-weighted

factor—quantity-weighted averages of the major components of liquefied petroleum gases are calculated by using heat content values shown in Table A1.

⁹ There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a quantity-weighted

factor—quantity-weighted averages of the major components of motor gasoline, including fuel ethanol, are calculated by using heat content values shown in Table A1.

h Includes denaturant (petroleum added to ethanol to make it undrinkable). Fuel ethanol factors are weighted average heat contents for undenatured ethanol (3.539). million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as denaturant (5.253 million Btu per barrel). The factor for 2009 is used as the estimated factor for 1980–2008.

Corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol), used as the factor to estimate total biomass inputs to the

production of undenatured ethanol. Observed ethanol yields (gallons undenatured ethanol per bushel of corn) are 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; yields in other years are estimated. Corn is assumed to have a gross heat content of 0.392 million Btu per bushel. Undenatured ethanol is assumed to have a gross heat content of 3.539 million Btu per barrel.

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 Bu 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.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Production			Consumptiona			
	Marketed	Dry	End-Use Sectors ^b	Electric Power Sector ^c	Total	Imports	Exports
950	1,119	1,035	1,035	1,035	1,035		1,035
955	1,120	1,035	1,035	1,035	1,035	1.035	1,035
960	1,107	1,035	1,035	1,035	1,035	1,035	1,035
965	1,101	1,032	1,032	1,032	1,032	1,032	1,032
970	1,102	1,031	1,031	1,031	1,031	1,031	1,031
975	1,095	1,021	1,020	1,026	1,021	1,026	1,014
980	1,098	1,026	1,024	1,020	1,026	1.022	1,013
	1,103	1,026	1,024	1,035	1,026	1,022	1,013
981							
982	1,107	1,028	1,026	1,036	1,028	1,018	1,011
983	1,115	1,031	1,031	1,030	1,031	1,024	1,010
984	1,109	1,031	1,030	1,035	1,031	1,005	1,010
985	1,112	1,032	1,031	1,038	1,032	1,002	1,011
986	1,110	1,030	1,029	1,034	1,030	997	1,008
987	1,112	1,031	1,031	1,032	1,031	999	1,011
988	1,109	1,029	1,029	1,028	1,029	1,002	1,018
989	1,107	1,031	1,031	c 1,028	1,031	1,004	1,019
990	1,105	1,029	1,030	1,027	1,029	1,012	1,018
991	1,108	1,030	1,031	1,025	1,030	1,014	1,022
992	1,110	1,030	1,031	1,025	1,030	1,011	1,018
993	1,106	1,027	1,028	1,025	1,027	1,020	1,016
994	1,105	1,028	1,029	1,025	1,028	1,022	1,011
995	1,106	1,026	1,027	1,021	1,026	1,021	1,011
996	1,109	1,026	1,027	1.020	1,026	1.022	1,011
997	1,107	1,026	1,027	1,020	1,026	1,023	1,011
998	1,109	1,031	1,033	1,024	1,031	1,023	1,011
999	1,107	1,027	1,028	1,022	1,027	1,022	1,006
000	1,107	1,025	1,026	1,021	1,025	1,023	1,006
001	1,105	1,028	1,020	1,026	1,028	1,023	1,010
002	1,103	1,024	1,029	1,020	1,028		1,008
						1,022	
003	1,103	1,028	1,029	1,025	1,028	1,025	1,009
004	1,104	1,026	1,026	1,027	1,026	1,025	1,009
005	1,104	1,028	1,028	1,028	1,028	1,025	1,009
006	1,103	1,028	1,028	1,028	1,028	1,025	1,009
007	1,102	1,027	1,027	1,027	1,027	1,025	1,009
800	1,100	1,027	1,027	1,027	1,027	1,025	1,009
009	1,101	1,025	1,025	1,025	1,025	1,025	1,009
010	1,098	1,023	1,023	1,022	1,023	1,025	1,009
011	1,094	1,022	1,022	1,021	1,022	1,025	1,009
012	E 1,094	E 1,022	E 1,022	P 1,022	E 1,022	E 1,025	E 1,009
013	E 1,094	E 1,022	E 1.022	E 1,022	E 1.022	E 1,025	E 1,009

a Consumption factors are for natural gas, plus a small amount of supplemental gaseous fuels.

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. $\mbox{ P=Preliminary. E=Estimate. } -- \mbox{ =Not applicable.}$

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#appendices (Excel and CSV files) for all available annual data beginning in 1949. 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
				c	onsumption					
		Waste	Residential and	Industria	l Sector	Electric				Imports
	Production ^a	Coal Supplied ^b	Commercial Sectors ^c	Coke Plants	Otherd	Power Sector ^{e,f}	Total	Imports	Exports	and Exports
1950	25.090	NA	24.461	26.798	24.820	23.937	24.989	25.020	26.788	24.800
1955	25.201	NA	24.373	26.794	24.821	24.056	24.982	25.000	26.907	24.800
1960	24.906	NA	24.226	26.791	24.609	23.927	24.713	25.003	26.939	24.800
1965	24.775	NA	24.028	26.787	24.385	23.780	24.537	25.000	26.973	24.800
1970	23.842	NA	23.203	26.784	22.983	22.573	23.440	25.000	26.982	24.800
1975	22.897	NA	22.261	26.782	22.436	21.642	22.506	25.000	26.562	24.800
1980	22.415	NA NA	22.543	26.790	22.430	21.295	21.947	25.000	26.384	24.800
1981	22.308	NA NA	22.543 22.474	26.794	22.585	21.295	21.713	25.000	26.364	24.800
	22.239		22.474	26.797	22.565				26.223	24.800
1982		NA				21.194	21.674	25.000		
1983	22.052	NA	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800
1984	22.010	NA	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800
1985	21.870	NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
1986	21.913	NA	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800
1987	21.922	NA	23.404	26.799	22.381	21.136	21.517	25.000	26.291	24.800
1988	21.823	NA	23.571	26.799	22.360	20.900	21.328	25.000	26.299	24.800
1989	21.765	^b 10.391	23.650	26.800	22.347	e 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
2007		12.165	22.962	27.426	22.562	20.238			26.062	
	20.673						20.541	25.000		24.800
2003	20.499	12.360	22.242	27.425	22.468	20.082	20.387	25.000	25.972	24.800
2004	20.424	12.266	22.324	27.426	22.473	19.980	20.290	25.000	26.108	24.800
2005	20.348	12.093	22.342	26.279	22.178	19.988	20.246	25.000	25.494	24.800
2006	20.310	12.080	22.066	26.271	22.050	19.931	20.181	25.000	25.453	24.800
2007	20.340	12.090	22.069	26.329	22.371	19.909	20.168	25.000	25.466	24.800
2008	20.208	12.121	c 23.035	26.281	22.304	19.713	19.979	25.000	25.399	24.800
2009	19.963	12.076	22.852	26.334	21.823	19.521	19.741	25.000	25.633	24.800
2010	20.173	11.960	22.611	26.295	21.846	19.623	19.870	25.000	25.713	24.800
2011	20.142	11.604	22.099	26.299	21.568	19.341	19.600	25.000	25.645	24.800
2012	P 20.236	P 12.106	P 21.300	P 26.302	P 21.458	P 19.223	P 19.500	P 23.128	P 24.557	P 24.800
2013	E 20.236	E 12.106	E 21.300	E 28.721	E 21.458	E 19.223	E 19.500	E 23.128	E 24.557	E 24.800
	_000						.0.000	_00		

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

materials).

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

^c Through 2007, used as the thermal conversion factor for coal consumption by the residential and commercial sectors. Beginning in 2008, used as the thermal

conversion factor for coal consumption by the commercial sector only.

d Includes transportation. Excludes coal synfuel plants.

e 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.

f 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: See http://www.eia.gov/totalenergy/data/monthly/#appendices (Excel and CSV files) for all available annual data beginning in 1949. Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

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

(Btu per Kilowatthour)

		Approximate Heat Rates ^a for Electricity Net Generation									
		Fossil	Fuels ^b		Nuclear ^h	Noncombustible					
	Coalc	Petroleum ^d	Natural Gas ^e	Total Fossil Fuels ^{f,g}		Renewable Energy ^{g,i}	Heat Content ^j of Electricity ^k				
1950	NA	NA	NA	14,030		14,030	3,412				
1955		NA NA	NA NA	11,699		11,699	3,412				
1960		NA NA	NA NA	10,760	11.629	10,760	3,412				
1965		NA NA	NA NA	10,760	11,804	10,760	3,412				
1970		NA NA	NA NA	10,453	10.977	10,455	3,412				
1970		NA NA	NA NA	10,494	11.013	10,494	3,412				
				-,	,	-,	3,412				
1980		NA	NA	10,388	10,908	10,388					
1981		NA	NA	10,453	11,030	10,453	3,412				
1982		NA	NA	10,454	11,073	10,454	3,412				
1983		NA	NA	10,520	10,905	10,520	3,412				
1984		NA	NA	10,440	10,843	10,440	3,412				
1985		NA	NA	10,447	10,622	10,447	3,412				
1986		NA	NA	10,446	10,579	10,446	3,412				
1987		NA	NA	10,419	10,442	10,419	3,412				
1988		NA	NA	10,324	10,602	10,324	3,412				
1989		NA	NA	10,432	10,583	10,432	3,412				
1990	NA	NA	NA	10,402	10,582	10,402	3,412				
1991	NA	NA	NA	10,436	10,484	10,436	3,412				
1992	NA	NA	NA	10,342	10,471	10,342	3,412				
1993	NA	NA	NA	10,309	10,504	10,309	3,412				
1994	NA	NA	NA	10,316	10,452	10,316	3,412				
1995	NA	NA	NA	10,312	10,507	10,312	3,412				
1996		NA	NA	10.340	10.503	10.340	3,412				
1997		NA	NA	10.213	10.494	10.213	3,412				
1998		NA	NA	10,197	10,491	10,197	3,412				
1999		NA	NA	10,226	10,450	10,226	3,412				
2000		NA	NA	10,201	10,429	10,201	3,412				
2001		10,742	10,051	b 10,333	10,443	10,333	3,412				
2002		10,641	9,533	10,173	10,442	10,173	3,412				
2003		10,610	9,207	10,125	R 10,422	10,125	3,412				
2004		10,571	8.647	10,016	R 10,428	10,016	3,412				
2005		10,631	8.551	9.999	10,436	9.999	3,412				
2006		10,809	8.471	9.919	R 10,435	9.919	3,412				
2007		10,794	8.403	9.884	R 10,433	9.884	3,412				
2007		11,015	8.305	9.854	R 10,452	9.854	3,412				
2009		10.923	R 8,159	9,760	R 10,452	9,760	3,412				
2010		10,923	8.185	9,760	10,459	9,760 9.756	3,412				
2010 2011		10,964	8,152	9,756	10,452	9,756 9.716	3,412				
2011 2012		R 10,829	8,152 R 8.039	9,716 R 9,516	R 10,464	9,716 R 9,516	- /				
		RE 10,991	RE 8,039	^N 9,516 RE 9,516	RE 10,479	RE 9,516	3,412				
2013	10,498	10,991	**E 8,039	'\- 9,516	10,479	115 9,516	3,412				

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.

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

Includes natural gas and supplemental gaseous fuels.

f Includes coal, petroleum, natural gas, and, beginning in 2001, other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil

fuels).

g The fossil-fuels heat rate is used as the thermal conversion factor for electricity net generation from noncombustible renewable energy (hydro, geothermal, solar thermal, photovoltaic, and wind) to approximate the quantity of fossil fuels replaced by these sources. Through 2000, also used as the thermal conversion factor for wood and waste electricity net generation at electric utilities; beginning in 2001, Blu data for wood and waste at electric utilities are available from surveys.

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

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#appendices (Excel and CSV files) for all available annual data beginning in 1949. 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. • 1949–1966: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, "Crude Petroleum and Petroleum Products, 1956," Table 4 footnote, constant value of 4.011 million Btu per barrel. • 1967 forward: 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 1967–1980, 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. • 1949–1993: 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 or 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 or 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 or 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/state/seds/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/state/seds/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/state/seds/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/state/seds/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. • 1949–1962: EIA adopted the thermal conversion factor of 1,035 Btu per cubic foot as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*. • 1963–1979: 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. • 1949–1972: Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed (see Natural Gas Consumption, Total). • 1973 forward: 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. • 1949–1972: Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed (see Natural Gas Consumption, Total). • 1973 forward: 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.

• 1949–2012: Calculated annually by EIA based on the reported volatility (low, medium, or high) of coal received by coke plants. (For 2012, EIA used the following volatility factors, in million Btu per short ton: low volatile—26.680; medium volatile—27.506; and high volatile—25.652.) Data are from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants," and predecessor forms.
• 2013: Calculated annually by EIA by dividing the heat content of coal received by coke plants by the quantity received. Data are from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants."

Coal Consumption, Industrial Sector, Other.

• 1949–2007: Calculated annually by EIA by dividing the heat content of coal received by manufacturing plants by the quantity received. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants," and predecessor forms. • 2008 forward: Calculated annually by EIA by dividing the heat content of coal received by manufacturing, gasification, and liquefaction plants by the quantity received. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users."

Coal Consumption, Residential and Commercial Sectors. • 1949–1999: Calculated annually by EIA by dividing the heat content of coal received by the residential and commercial sectors by the quantity received. Data are from Form EIA-6, "Coal Distribution Report," and predecessor forms. • 2000-2007: Calculated annually by EIA by dividing the heat content of coal consumed by commercial combined-heat-and-power (CHP) plants by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms. forward: Calculated annually by EIA by dividing the heat content of coal received by commercial and institutional users by the quantity received. Data are from Form EIA-3, "Ouarterly Consumption Coal and **Ouality** Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users."

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. • 1949–2011: 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," and predecessor forms. • 2012 forward: Calculated annually by EIA by dividing the heat content of steam coal and metallurgical coal exported by the quantity exported. The average heat content of steam coal is derived from receipts data from Form EIA-3, Consumption "Ouarterly Coal and Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users," and Form EIA-923, "Power Plant Operations Report." The average heat content of metallurgical coal is derived from receipts data from Form EIA-5, "Quarterly Coal Consumption and Quality Report-Coke Plants." Data for export quantities are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545."

Coal Imports. • 1949–1963: Calculated annually by EIA by dividing the heat content of coal imported by the quantity imported. Data are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report IM 145," and predecessor forms. • 1964–2011: Assumed by EIA to be 25.000 million Btu per short ton. • 2012 forward: Calculated annually by EIA by dividing the heat content of coal imported (received) by the quantity imported (received). Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users"; Form EIA-5, "Quarterly Coal Consumption and Quality Report -Coke Plants"; and Form EIA-923, "Power Plant Operations Report."

Coal Production. • 1949–2011: Calculated annually by EIA by dividing the heat content of domestic coal (excluding waste coal) received by the quantity received. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/ Processing Coal Plants and Commercial and Institutional Users"; Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants"; Form EIA-923, "Power Plant Operations Report"; and predecessor forms. forward: Calculated annually by EIA by dividing the heat content of domestic coal (excluding waste coal) received and exported by the quantity received and exported. Data are from Form EIA-3, "Quarterly Coal Consumption and **Ouality** Report—Manufacturing Transformation/Processing Coal Plants and Commercial and Institutional Users"; Form EIA-5, "Quarterly Coal Consumption and Quality Report-Coke Plants"; Form EIA-923, "Power Plant Operations Report"; U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545"; and predecessor forms.

Waste Coal Supplied. • 1989–2000: Calculated annually by EIA by dividing the heat content of waste coal consumed by the quantity consumed. Data are from Form EIA-860B, "Annual Electric Generator Report—Nonutility," and

predecessor form. • 2001 forward: Calculated by EIA by dividing the heat content of waste coal received (or consumed) by the quantity received (or consumed). Receipts data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing and Transformation/Processing Coal Plants and Commercial and Institutional Users," and predecessor form. Consumption data are from 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 all 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 all 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. • 1957–1984: 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 all 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.

• 1949–1955: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published by EIA in *Thermal-Electric Plant Construction Cost and Annual Production Expenses—1981* and *Steam-Electric Plant Construction Cost and Annual Production Expenses—1978.* • 1956–1988: 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 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 all electric utilities and electricityonly 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).

Appendix B

Metric Conversion Factors, Metric Prefixes, and Other Physical Conversion Factors

Data presented in the *Monthly Energy Review* and in other U.S. Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. Customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

Table B1. Metric Conversion Factors

Type of Unit	U.S. Unit		Equivalent in	Metric Units
Mass	1 short ton (2,000 lb)	=	0.907 184 7	metric tons (t)
	1 long ton	=	1.016 047	metric tons (t)
	1 pound (lb)	=	0.453 592 37ª	kilograms (kg)
	1 pound uranium oxide (lb U ₃ O ₈)	=	0.384 647 ^b	kilograms uranium (kgU)
	1 ounce, avoirdupois (avdp oz)	=	28.349 52	grams (g)
Volume	1 barrel of oil (bbl)	=	0.158 987 3	cubic meters (m³)
	1 cubic yard (yd³)	=	0.764 555	cubic meters (m³)
	1 cubic foot (ft³)	=	0.028 316 85	cubic meters (m³)
	1 U.S. gallon (gal)	=	3.785 412	liters (L)
	1 ounce, fluid (fl oz)	=	29.573 53	milliliters (mL)
	1 cubic inch (in³)	=	16.387 06	milliliters (mL)
Length	1 mile (mi)	=	1.609 344ª	kilometers (km)
	1 yard (yd)	=	0.914 4 ^a	meters (m)
	1 foot (ft)	=	0.304 8 ^a	meters (m)
	1 inch (in)	=	2.54ª	centimeters (cm)
Area	1 acre	=	0.404 69	hectares (ha)
	1 square mile (mi ²)	=	2.589 988	square kilometers (km²)
ength Area	1 square yard (yd²)	=	0.836 127 4	square meters (m²)
	1 square foot (ft²)	=	0.092 903 04°	square meters (m²)
	1 square inch (in²)	=	6.451 6ª	square centimeters (cm ²)
Energy	1 British thermal unit (Btu) ^c	=	1,055.055 852 62ª	joules (J)
	1 calorie (cal)	=	4.186 8 ^a	joules (J)
	1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)
Temperature ^d	32 degrees Fahrenheit (°F)	=	O ^a	degrees Celsius (°C)
-	212 degrees Fahrenheit (°F)	=	100 ^a	degrees Celsius (°C)

^aExact conversion.

Sources: • General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 1993), pp. 9-11, 13, and 16. • U.S. Department of Commerce, National Institute of Standards and Technology, Special Publications 330, 811, and 814. • American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268-1992, pp. 28 and 29.

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

^cThe Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. ^dTo convert degrees Fahrenheit (°F) to degrees Celsius (°C) exactly, subtract 32, then multiply by 5/9.

Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, see http://physics.nist.gov/cuu/Units/index.html.

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

Table B2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10¹	deka	da	10 ⁻¹	deci	d
10 ²	hecto	h	10-2	centi	С
10 ³	kilo	k	10 ⁻³	milli	m
10 ⁶	mega	M	10 ⁻⁶	micro	μ
10 ⁹	giga	G	10-9	nano	n
10 ¹²	tera	Т	10 ⁻¹²	pico	р
10 ¹⁵	peta	Р	10 ⁻¹⁵	femto	f
10 ¹⁸	exa	E	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	Z
10 ²⁴	yotta	Υ	10 ⁻²⁴	yocto	у

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices. Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p.10.

Table B3. Other Physical Conversion Factors

Energy Source	Original Unit		Equivalent in Final Units				
Petroleum	1 barrel (bbl)	=	42ª	U.S. gallons (gal)			
Coal	1 short ton	=	2,000ª	pounds (lb)			
	1 long ton	=	2,240 ^a	pounds (lb)			
	1 metric ton (t)	=	1,000°	kilograms (kg)			
Wood	1 cord (cd)	=	1.25 ^b	shorts tons			
	1 cord (cd)	=	128ª	cubic feet (ft3)			

^aExact conversion.

Source: U.S. Department of Commerce, National Institute of Standards and Technology, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17 and C-21.

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

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

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Glossary

Alcohol: The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a **hydrocarbon** plus a hydroxyl group; CH(3)-(CH(2))_n-OH (e.g., **methanol**, **ethanol**, and tertiary butyl alcohol). See **Fuel Ethanol**.

Alternative Fuel: Alternative fuels, for transportation applications, include the following: methanol; denatured ethanol, and other alcohols; fuel mixtures containing 85 percent or more by volume of methanol, denatured ethanol, and other alcohols with motor gasoline or other fuels; natural gas; liquefied petroleum gas (propane); hydrogen; coal-derived liquid fuels; fuels (other than alcohol) derived from biological materials (biofuels such as soy diesel fuel); electricity (including electricity from solar energy); and "... any other fuel the Secretary determines, by rule, is substantially not petroleum and would yield substantial energy security benefits and substantial environmental benefits." The term "alternative fuel" does not include alcohol or other blended portions of primarily petroleum-based fuels used as oxygenates or extenders, i.e., MTBE, ETBE, other ethers, and the 10-percent ethanol portion of gasohol.

Alternative-Fuel Vehicle (AFV): A vehicle designed to operate on an alternative fuel (e.g., compressed natural gas, methane blend, or electricity). The vehicle could be either a dedicated vehicle designed to operate exclusively on alternative fuel or a nondedicated vehicle designed to operate on alternative fuel and/or a traditional fuel.

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). *Note:* Since the 1980's, anthracite refuse or mine waste has been used for steam-electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Anthropogenic: Made or generated by a human or caused by human activity. The term is used in the context of global **climate change** to refer to gaseous emissions that are the result of human activities, as well as other potentially climate-altering activities, such as deforestation.

Asphalt: A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

Barrel (Petroleum): A unit of volume equal to 42 U.S. Gallons.

Base Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

Biodiesel: A fuel typically made from soybean, canola, or other vegetable oils; animal fats; and recycled grease. It can serve as a substitute for **petroleum**-derived **diesel fuel** or **distillate fuel oil**. For U.S. Energy Information Administration reporting, it is a fuel composed of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, designated B100, and meeting the requirements of ASTM (American Society for Testing & Materials) D 6751.

Biofuels: Liquid fuels and blending components produced from **biomass** (plant) feedstocks, used primarily for transportation. See **Biodiesel** and **Fuel Ethanol**.

Biogenic: Produced by biological processes of living organisms. Note: EIA uses the term "biogenic" to refer only to organic nonfossil material of biological origin.

Biomass: Organic non-fossil material of biological origin constituting a renewable energy source. See **Biodiesel**,

Biofuels, Biomass Waste, Fuel Ethanol, and Wood and Wood-Derived Fuels.

Biomass Waste: Organic non-fossil material of biological origin that is a byproduct or a discarded product. "Biomass waste" includes municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other biomass solids, liquids, and gases; but excludes wood and wood-derived fuels (including black liquor), biofuels feedstock, biodiesel, and fuel ethanol. Note: EIA "biomass waste" data also include energy crops grown specifically for energy production, which would not normally constitute waste.

Bituminous Coal: A dense coal, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steamelectric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Black Liquor: A byproduct of the paper production process, alkaline spent liquor, that can be used as a source of energy. Alkaline spent liquor is removed from the digesters in the process of chemically pulping wood. After evaporation, the residual "black" liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit). See **Heat Content**.

Btu: See British Thermal Unit.

Btu Conversion Factor: A factor for converting energy data between one unit of measurement and British thermal units (Btu). Btu conversion factors are generally used to convert energy data from physical units of measure (such as barrels, cubic feet, or short tons) into the energy-equivalent measure of Btu. (See http://www.eia.gov/totalenergy/data/monthly/#appendices for further information on Btu conversion factors.)

Butane: A normally gaseous straight-chain or branched-chain hydrocarbon (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams.

Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C₄H₈) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

Carbon Dioxide (CO₂): A colorless, odorless, non-poisonous gas that is a normal part of Earth's atmosphere. Carbon dioxide is a product of **fossil-fuel** combustion as well as other processes. It is considered a **greenhouse gas** as it traps heat (infrared energy) radiated by the Earth into the atmosphere and thereby contributes to the potential for **global warming**. The **global warming potential** (GWP) of other greenhouse gases is measured in relation to that of carbon dioxide, which by international scientific convention is assigned a value of one (1).

Chained Dollars: A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Prior to 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period and is therefore subject to less distortion over time.

CIF: See Cost, Insurance, Freight.

Citygate: A point or measuring station at which a distribution gas utility receives gas from a natural gas pipeline company or transmission system.

Climate Change: A term used to refer to all forms of climatic inconsistency, but especially to significant change from one prevailing climatic condition to another. In some cases, "climate change" has been used synonymously with the term "global warming"; scientists, however, tend to use the term in a wider sense inclusive of natural changes in climate, including climatic cooling.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. See Anthracite, Bituminous Coal, Lignite, Subbituminous Coal, Waste Coal, and Coal Synfuel.

Coal Coke: See Coke, Coal.

Coal Stocks: Coal quantities that are held in storage for future use and disposition. Note: When coal data are collected for a particular reporting period (month, quarter, or year), coal stocks are commonly measured as of the last day of the period.

Coal Synfuel: Coal-based solid fuel that has been processed by a **coal synfuel plant**; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coal Synfuel Plant: A plant engaged in the chemical transformation of **coal** into **coal synfuel**.

Coke, Coal: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000° F so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke (coal) has a heating value of 24.8 million Btu per ton.

Coke, Petroleum: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (42 U.S. gallons each) per short ton. Coke (petroleum) has a heating value of 6.024 million Btu per barrel.

Coking Coal: Bituminous coal suitable for making coke. See **Coke**, **Coal**.

Combined-Heat-and-Power (CHP) Plant: A plant designed to produce both heat and electricity from a single heat source. Note: This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; federal, state, and local governments; and other private and public organizations, such as religious,

social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the abovementioned commercial establishments. Various EIA programs differ in sectoral coverage-for more information see http://www.eia.gov/neic/datadefinitions/Guideforwebcom.htm. See End-Use Sectors and Energy-Use Sectors.

Completion: The installation of permanent equipment for the production of oil or gas. If a well is equipped to produce only oil or gas from one zone or reservoir, the definition of a well (classified as an oil well or gas well) and the definition of a completion are identical. However, if a well is equipped to produce oil and/or gas separately from more than one reservoir, a well is not synonymous with a completion.

Conventional Hydroelectric Power: Hydroelectric power generated from flowing water that is not created by hydroelectric pumped storage.

Conventional Motor Gasoline: See **Motor Gasoline Conventional.**

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 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. Degree-day readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

Denaturant: Petroleum, typically **pentanes plus** or **conventional motor gasoline**, added to **fuel ethanol** to make it unfit for human consumption. Fuel ethanol is denatured, usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent denaturant. See **Fuel Ethanol** and **Fuel Ethanol Minus Denaturant**.

Design Electrical Rating, Net: The nominal net electrical output of a nuclear unit as specified by the electric utility for the purpose of plant design.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Diesel Fuel: A fuel composed of **distillate fuel oils** obtained in petroleum refining operation or blends of such

distillate fuel oils with **residual fuel oil** used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

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

Distillate Fuel Oil: A general classification for one of the **petroleum** fractions produced in conventional distillation operations. It includes **diesel fuels** and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and **electricity generation**.

Dry Hole: An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Dry Natural Gas Production: See Natural Gas (Dry) Production.

E85: A fuel containing a mixture of 85 percent **ethanol** and 15 percent **motor gasoline**.

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-i.e., North American Industry Classification System 22 plants. See also Combined-Heat-and-Power (CHP) Plant, Electricity-Only Plant, Electric Utility, and Independent Power Producer.

Electric Utility: Any entity that generates, transmits, or distributes electricity and recovers the cost of its generation, transmission or distribution assets and operations, either directly or indirectly, through cost-based rates set by a separate regulatory authority (e.g., State Public Service Commission), or is owned by a governmental unit or the consumers that the entity serves. Examples of these entities include: investor-owned entities, public power districts, public utility districts, municipalities, rural electric cooperatives, and state and federal agencies. Electric utilities may have Federal Energy Regulatory Commission approval for interconnection agreements and wholesale trade tariffs covering either cost-of-service and/or market-based rates under the authority of the Federal Power Act. See Electric Power Sector.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity Generation: The process of producing electric energy, or the amount of electric energy produced by transforming other forms of energy, commonly expressed in **kilowatthours** (kWh) or megawatthours (Mwh).

Electricity Generation, Gross: The total amount of electric energy produced by generating units and measured at the generating terminal in **kilowatthours** (kWh) or megawatthours (MWh).

Electricity Generation, Net: The amount of gross electricity generation less station use (the electric energy consumed at the generating station(s) for station service or auxiliaries). *Note*: Electricity required for pumping at hydroelectric pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Electricity-Only Plant: A plant designed to produce electricity only. See also Combined-Heat-and-Power (CHP) Plant.

Electricity Retail Sales: The amount of electricity sold to customers purchasing electricity for their own use and not for resale.

End-Use Sectors: The **residential**, **commercial**, **industrial**, and **transportation** sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power or as an input in the manufacturing process.

Energy Service Provider: An energy entity that provides service to a retail or end-use customer.

Energy-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and analyze energy use. The sectors most commonly referred to in EIA are: **residential**, **commercial**, **industrial**, **transportation**, and **electric power**.

Ethane: A normally gaseous straight-chain hydrocarbon (C₂H₆). It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethanol (C_2H_5OH): A clear, colorless, flammable alcohol. Ethanol is typically produced biologically from biomass feedstocks such as agricultural crops and cellulosic residues from agricultural crops or wood. Ethanol can also be produced chemically from ethylene. See Biomass, Fuel Ethanol, and Fuel Ethanol Minus Denaturant.

Ethylene: An olefinic hydrocarbon (C2H4) recovered from refinery processes or petrochemical processes.

Exploratory Well: A well drilled to find and produce oil or gas in an area previously considered an unproductive area, to find a new reservoir in a known field (i.e., one previously found to be producing oil or gas in another reservoir), or to extend the limit of a known oil or gas reservoir.

Exports: Shipments of goods from within the 50 states and the District of Columbia to U.S. possessions and territories or to foreign countries.

Extraction Loss: The reduction in volume of natural gas due to the removal of natural gas liquid constituents, such as ethane, propane, and butane, at natural gas processing plants.

Federal Energy Administration (FEA): A predecessor of the U.S. Energy Information Administration.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the U.S. Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the U.S. Department of Energy was created. Its functions were divided between the U.S. Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

First Purchase Price: The price for domestic crude oil reported by the company that owns the crude oil the first time it is removed from the lease boundary.

Flared Natural Gas: Natural gas burned in flares on the base site or at gas processing plants.

F.O.B. (Free on Board): A sales transaction in which the seller makes the product available for pick up at a specified port or terminal at a specified price and the buyer pays for the subsequent transportation and insurance.

Footage Drilled: Total footage for wells in various categories, as reported for any specified period, includes (1) the deepest total depth (length of well bores) of all wells drilled from the surface, (2) the total of all bypassed footage drilled in connection with reported wells, and (3) all new footage drilled for directional sidetrack wells. Footage reported for directional sidetrack wells does not include footage in the common bore, which is reported as footage for the original well. In the case of old wells drilled deeper, the reported footage is that which was drilled below the total depth of the old well.

Former U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Fossil Fuel: An energy source formed in the Earth's crust from decayed organic material, such as **petroleum**, **coal**, and **natural gas**.

Fossil-Fueled Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Fuel Ethanol: Ethanol intended for fuel use. Fuel ethanol in the United States must be anhydrous (less than 1 percent water). Fuel ethanol is denatured (made unfit for human consumption), usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent petroleum, typically pentanes plus or conventional motor gasoline. Fuel ethanol is used principally for blending in low concentrations with motor gasoline as an oxygenate or octane enhancer. In high concentrations, it is used to fuel alternative-fuel vehicles specially designed for its use. See Alternative-Fuel Vehicle, Denaturant, E85, Ethanol, Fuel Ethanol Minus Denaturant, and Oxygenates.

Fuel Ethanol Minus Denaturant: An unobserved quantity of anhydrous, biomass-derived, undenatured ethanol for fuel use. The quantity is obtained by subtracting the estimated denaturant volume from fuel ethanol volume. Fuel ethanol minus denaturant is counted as renewable energy, while denaturant is counted as nonrenewable fuel. See Denaturant, Ethanol, Fuel Ethanol, Nonrenewable Fuels, Oxygenates, and Renewable Energy.

Full-Power Operation: Operation of a nuclear generating unit at 100 percent of its design capacity. Full-power operation precedes commercial operation.

Gasohol: A blend of finished motor gasoline containing alcohol (generally ethanol but sometimes methanol) at a

concentration between 5.7 percent and 10 percent by volume. See **Motor Gasoline**, **Oxygenated**.

Gas Well: A well completed for the production of natural gas from one or more gas zones or reservoirs. (Wells producing both crude oil and natural gas are classified as oil wells.)

Geothermal Energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust and used for geothermal heat pumps, water heating, or electricity generation.

Global Warming: An increase in the near-surface temperature of the Earth. Global warming has occurred in the distant past as the result of natural influences, but the term is today most often used to refer to the warming some scientists predict will occur as a result of increased anthropogenic emissions of greenhouse gases. See Climate Change.

Global Warming Potential (GWP): An index used to compare the relative radiative forcing of different gases without directly calculating the changes in atmospheric concentrations. GWPs are calculated as the ratio of the radiative forcing that would result from the emission of one kilogram of a greenhouse gas to that from the emission of one kilogram of carbon dioxide over a fixed period of time, such as 100 years.

Greenhouse Gases: Those gases, such as water vapor, **carbon dioxide**, nitrous oxide, **methane**, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulfur hexafluoride, that are transparent to solar (short-wave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Gross Domestic Product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

GT/IC: Gas turbine and internal combustion plants.

Heat Content: The amount of heat energy available to be released by the transformation or use of a specified physical unit of an energy form (e.g., a ton of coal, a barrel of oil, a kilowatthour of electricity, a cubic foot of natural gas, or a pound of steam). The amount of heat energy is commonly expressed in British thermal units (Btu). Note: Heat content of combustible energy forms can be expressed in terms of either gross heat content (higher or upper heating value) or net heat content (lower heating value), depending upon whether or not the available heat energy includes or excludes the energy used to vaporize water (contained in the original energy form or created during the combustion

process). The U.S. Energy Information Administration typically uses gross heat content values.

Heat Rate: A measure of generating station thermal efficiency commonly stated as **Btu** per **kilowatthour**. *Note:* Heat rates can be expressed as either gross or net heat rates, depending whether the electricity output is gross or net generation. Heat rates are typically expressed as net heat rates.

Hydrocarbon: An organic chemical compound of hydrogen and carbon in the gaseous, liquid, or solid phase. The molecular structure of hydrocarbon compounds varies from the simplest (methane, the primary constituent of natural gas) to the very heavy and very complex.

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

Hydroelectric Pumped Storage: Hydroelectricity that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen (H): The lightest of all gases, hydrogen occurs chiefly in combination with oxygen in water. It also exists in acids, bases, **alcohols**, **petroleum**, and other **hydrocarbons**.

Imports: Receipts of goods into the 50 states and the District of Columbia from U.S. possessions and territories or from foreign countries.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an **electric utility**.

Industrial Sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. Note: This sector includes generators that produce electricity and/or useful thermal output primarily to support the abovementioned 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, (CH₃)₃COCH₃, intended for motor gasoline blending. See **Oxygenates**.

Methanol: A light, volatile alcohol (CH₃OH) eligible for motor gasoline blending. See **Oxygenates**.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere-for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline Blending: Mechanical mixing of motor gasoline blending components and oxygenates as required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components: Naphtha (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. *Note*: oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Motor Gasoline, Conventional: Finished motor gasoline not included in the oxygenated or reformulated motor gasoline categories. *Note*: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock. Conventional motor gasoline can be leaded or unleaded; regular, midgrade, or premium. See Motor Gasoline Grades.

Motor Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in sparkignition. Motor gasoline, as defined in ASTM Specification D-4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122°F to 158°F at the 10-percent recovery point to 365°F to 374°F at the 90-percent recovery point. "Motor gasoline" includes conventional gasoline, all types of oxygenated gasoline including gasohol, and reformulated gasoline, but excludes aviation gasoline. Note: Volumetric data on blending components, as well as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

Motor Gasoline Grades: The classification of gasoline by octane ratings. Each type of gasoline (conventional, oxygenated, and reformulated) is classified by three grades: regular, midgrade, and premium. *Note*: Gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades may be 2 or more octane points lower.

Regular Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 85 and less than 88. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Midgrade Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 88 and less than or equal to 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Premium Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Motor Gasoline, Oxygenated: Finished motor gasoline, other than reformulated gasoline, having an oxygen content of 2.7 percent or higher by weight and required by the U.S. Environmental Protection Agency (EPA) to be sold in areas designated by EPA as carbon monoxide (CO) nonattainment areas. Note: Oxygenated gasoline excludes oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB). Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside CO nonattainment areas are included in data on oxygenated gasoline. Other data on gasohol are included in data on conventional gasoline.

Motor Gasoline, Reformulated: Finished motor gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Note: This category includes oxygenated fuels program reformulated gasoline (OPRG) but excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Motor Gasoline Retail Prices: Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). Those prices are collected in 85 urban areas selected to represent all urban consumers-about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those

providing all types of service (i.e., full-, mini-, and self-service.

Motor Gasoline (Total): For stock level data, a sum including finished motor gasoline stocks plus stocks of motor gasoline blending components but excluding stocks of oxygenates.

MTBE: See Methyl Tertiary Butyl Ether.

NAICS (North American Industry Classification System): A coding system developed jointly by the United States, Canada, and Mexico to classify businesses and industries according to the type of economic activity in which they are engaged. NAICS replaces the Standard Industrial Classification (SIC) codes. For additional information on NAICS, go to http://www.census.gov/eos/www/naics/.

Naphtha: A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400° F.

Natural Gas: A gaseous mixture of hydrocarbon compounds, primarily methane, used as a fuel for electricity generation and in a variety of ways in buildings, and as raw material input and fuel for industrial processes.

Natural Gas, Dry: Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. *Note:* Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Natural Gas (Dry) Production: The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at the production site include 1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and 2) gas vented and flared. Processing losses include 1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and 2) gas converted to liquid form, such as lease condensate and plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals marketed production less extraction loss.

Natural Gas Marketed Production: Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring; nonhydrocarbon gases removed in treating and processing operations; and quantities vented and flared.

Natural Gas Plant Liquids (NGPL): Natural gas liquids recovered from natural gas in processing plants and, in some situations, from natural gas field facilities, as well as those extracted by fractionators. Natural gas plant liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Material as follows: ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e., products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gas Wellhead Price: The wellhead price of natural gas is calculated by dividing the total reported value at the wellhead by the total quantity produced as reported by the appropriate agencies of individual producing states and the U.S. Minerals Management Service. The price includes all costs prior to shipment from the lease, including gathering and compression costs, in addition to state production, severance, and similar charges.

Natural Gasoline: A mixture of hydrocarbons (mostly pentanes and heavier) extracted from natural gas that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane, which is a saturated branch-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Summer Capacity: The maximum output, commonly expressed in **kilowatts** (kW) or megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of June 1 through September 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Neutral Zone: A 6,200 square-mile area shared equally between Kuwait and Saudi Arabia under a 1992 agreement. The Neutral Zone contains an estimated 5 billion barrels of oil and 8 trillion cubic feet of natural gas.

Nominal Dollars: A measure used to express **nominal price**.

Nominal Price: The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

Non-Biomass Waste: Material of non-biological origin that is a byproduct or a discarded product. "Non-biomass waste" includes municipal solid waste from non-biogenic sources, such as plastics, and tire-derived fuels.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

Nonrenewable Fuels: Fuels that cannot be easily made or "renewed," such as **crude oil**, **natural gas**, and **coal**.

Nuclear Electric Power (Nuclear Power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

Nuclear Electric Power Plant: A single-unit or multiunit facility in which heat produced in one or more reactors by the fissioning of nuclear fuel is used to drive one or more steam turbines.

Nuclear Reactor: An apparatus in which a nuclear fission chain reaction can be initiated, controlled, and sustained at a specific rate. A reactor includes fuel (fissionable material), moderating material to control the rate of fission, a heavy-walled pressure vessel to house reactor components, shielding to protect personnel, a system to conduct heat away from the reactor, and instrumentation for monitoring and controlling the reactor's systems.

OECD: See Organization for Economic Cooperation and Development.

Offshore: That geographic area that lies seaward of the coastline. In general, the coastline is the line of ordinary low water along with that portion of the coast that is in direct contact with the open sea or the line marking the seaward limit of inland water.

Oil: See Crude Oil.

OPEC: See Organization of the Petroleum Exporting Countries.

Operable Unit (Nuclear): In the United States, a nuclear generating unit that has completed low-power testing and been issued a full-power operating license by the Nuclear Regulatory Commission, or equivalent permission to operate.

Organization for Economic Cooperation and Development (OECD): An international organization helping governments tackle the economic, social and governance challenges of a globalized economy. Its membership comprises about 30 member countries. With active relationships with some 70 other countries, non-governmental organizations (NGOs) and civil society, it has a global reach. For details about the organization, see http://www.oecd.org.

Organization of the Petroleum Exporting Countries (OPEC): An intergovernmental organization whose stated objective is to "coordinate and unify the petroleum policies of member countries." It was created at the Baghdad Conference on September 10–14, 1960. Current members

(with years of membership) include Algeria (1969–present), Angola (2007–present), Ecuador (1973–1992 and 2007–present), Iran (1960–present), Iraq (1960–present), Kuwait (1960–present), Libya (1962–present), Nigeria (1971–present), Qatar (1961–present), Saudi Arabia (1960–present), United Arab Emirates (1967–present), and Venezuela (1960–present). Countries no longer members of OPEC include Gabon (1975–1994) and Indonesia (1962–2008).

Oxygenates: Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. **Ethanol, Methyl Tertiary Butyl Ether (MTBE),** Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 states and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum Coke: See Coke, Petroleum.

Petroleum Consumption: See **Products Supplied** (Petroleum).

Petroleum Imports: Imports of petroleum into the 50 states and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. territories and possessions. Included are imports for the Strategic Petroleum Reserve and withdrawals from bonded warehouses for onshore consumption, offshore bunker use, and military use. Excluded are receipts of foreign petroleum into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include

unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Stocks, Primary: For individual products, quantities that are held at refineries, in pipelines, and at bulk terminals that have a capacity of 50,000 barrels or more, or that are in transit thereto. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but are included in other oils estimates and total.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquid at gas inlet separators or scrubbers in processing plants.

Primary Energy: Energy in the form that it is first accounted for in a statistical energy balance, before any transformation to secondary or tertiary forms of energy. For example, **coal** can be converted to synthetic gas, which can be converted to **electricity**; in this example, coal is primary energy, synthetic gas is secondary energy, and electricity is tertiary energy. See **Primary Energy Production** and **Primary Energy Consumption**.

Primary Energy Consumption: Consumption of primary energy. (Energy sources that are produced from other energy sources—e.g., coal coke from coal—are included in primary energy consumption only if their energy content has not already been included as part of the original energy source. Thus, U.S. primary energy consumption does include net imports of coal coke, but not the coal coke produced from domestic coal.) The U.S. Energy Information Administration includes the following in U.S. primary energy consumption: coal consumption; coal coke net imports; petroleum consumption (petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel); dry natural gas-excluding supplemental gaseous fuels—consumption; nuclear electricity net generation (converted to **Btu** using the nuclear plants **heat rate**): generation hydroelectricity net conventional (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and geothermal heat pump energy and geothermal direct use

energy; **solar thermal** and **photovoltaic** electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; **wind** electricity net generation (converted to Btu using the fossil-fueled plants heat rate); **wood and wood-derived fuels** consumption; **biomass waste** consumption; **fuel ethanol** and **biodiesel** consumption; losses and co-products from the production of fuel ethanol and biodiesel; and electricity net imports (converted to Btu using the electricity heat content of 3,412 Btu per kilowatthour). See **Total Energy Consumption**.

Primary Energy Production: Production of primary energy. The U.S. Energy Information Administration includes the following in U.S. primary energy production: coal production, waste coal supplied, and coal refuse recovery; crude oil and lease condensate production; natural gas plant liquids production; dry natural gas—excluding supplemental gaseous fuels—production; nuclear electricity net generation (converted to Btu using the nuclear plants heat rate); conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossilfueled 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 (C₃H₈). It is a colorless paraffinic gas that boils at a temperature of -43.67° F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene: An olefinic hydrocarbon (C₃H₆) recovered from refinery or petrochemical processes.

Real Dollars: These are dollars that have been adjusted for inflation. See **Real Price**.

Real Price: A price that has been adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices, which are expressed in constant dollars, usually reflect buying power relative to a base year.

Refiner Acquisition Cost of Crude Oil: The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Refinery and Blender Net Inputs: Raw materials, unfinished oils, and blending components processed at refineries, or blended at refineries or petroleum storage terminals to produce finished petroleum products. Included are gross inputs of crude oil, natural gas plant liquids, other hydrocarbon raw materials. hydrogen, oxygenates (excluding fuel ethanol), and renewable fuels (including fuel ethanol). Also included are net inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components. Net inputs are calculated as gross inputs minus gross production. Negative net inputs indicate gross inputs are less than gross production. Examples of negative net inputs include reformulated gasoline blendstock for oxygenate blending (RBOB) produced at refineries for shipment to blending terminals, and unfinished oils produced and added to inventory in advance of scheduled maintenance of a refinery crude oil distillation unit.

Refinery and Blender Net Production: Liquefied refinery gases, and finished petroleum products produced at a refinery or petroleum storage terminal blending facility. Net production equals gross production minus gross inputs. Negative net production indicates gross production is less than gross inputs for a finished petroleum product. Examples of negative net production include reclassification of one finished product to another finished product, or reclassification of a finished product to unfinished oils or blending components.

Refinery (Petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Refuse Mine: A surface site where **coal** is recovered from previously mined coal. It may also be known as a silt bank, culm bank, refuse bank, slurry dam, or dredge operation.

Refuse Recovery: The recapture of **coal** from a **refuse mine** or the coal recaptured by that process. The resulting product has been cleaned to reduce the concentration of noncombustible materials.

Renewable Energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, the **fossil fuels**, of which there is a finite supply). Renewable sources

of energy include conventional hydrolectric power, biomass, geothermal, solar, and wind.

Repressuring: The injection of a pressurized fluid (such as air, gas, or water) into oil and gas reservoir formations to effect greater ultimate recovery.

Residential Sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. *Note:* Various EIA programs differ in sectoral coverage for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebres.htm. See **End-Use Sectors** and **Energy-Use Sectors**.

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC (Standard Industrial Classification): A set of codes developed by the U.S. Office of Management and Budget which categorizes industries into groups with similar economic activities. Replaced by NAICS (North American Industry Classification System).

Solar Energy: See **Solar Thermal Energy** and **Photovoltaic Energy**.

Solar Thermal Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or **electricity**.

Special Naphthas: All finished products within the naphtha boiling ranges that are used as paint thinner, cleaners or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are

to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Station Use: Energy that is used to operate an **electric power plant**. It includes energy consumed for plant lighting, power, and auxiliary facilities, regardless of whether the energy is produced at the plant or comes from another source.

Steam Coal: All nonmetallurgical coal.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas (Refinery Gas): Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and, petrochemical feedstock.

Stocks: See Coal Stocks, Crude Oil Stocks, or Petroleum Stocks, Primary.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the federal Government for use during periods of major supply interruption.

Subbituminous Coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Supplemental Gaseous Fuels: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): (Also referred to as substitute natural gas) A manufactured product, chemically similar in most respects to **natural gas**, resulting from the conversion or reforming of **hydrocarbons** that may easily be substituted for or interchanged with pipeline-quality natural gas.

Thermal Conversion Factor: A factor for converting data between physical units of measure (such as barrels, cubic feet, or short tons) and thermal units of measure (such as British thermal units, calories, or joules); or for

converting data between different thermal units of measure. See **Btu Conversion Factor.**

Total Energy Consumption: Primary energy consumption in the end-use sectors, plus electricity retail sales and electrical system energy losses.

Transportation Sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. Note: Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebtrans.htm See End-Use Sectors and Energy-Use Sectors.

Underground Storage: The storage of natural gas in underground reservoirs at a different location from which it was produced.

Unfinished Oils: All oils requiring further refinery processing except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Stream: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

Union of Soviet Socialist Republics (U.S.S.R.): A political entity that consisted of 15 constituent republics: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. The U.S.S.R. ceased to exist as of December 31, 1991.

United States: The 50 states and the District of Columbia. Note: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 states and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term "United States."

Useful Thermal Output: The thermal energy made available in a combined-heat-and-power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Vented Natural Gas: Gas released into the air on the production site or at processing plants.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Coal: Usable material that is a byproduct of previous coal processing operations. Waste coal is usually composed of mixed coal, soil, and rock (mine waste). Most waste coal is burned as-is in unconventional fluidized-bed combustors. For some uses, waste coal may be partially cleaned by removing some extraneous noncombustible constituents. Examples of waste coal include fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste.

Waste: See Biomass Waste and Non-Biomass Waste.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A watt is equal to 1/746 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.