July 2012 Monthly Energy Review





Monthly Energy Review

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

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

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

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

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

Important Notes About the Data

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

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

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

Electronic Access

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

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

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

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

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Monthly Energy Review July 2012

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Contents

		I	Page
Section	1.	Energy Overview	. 1
Section	2.	Energy Consumption by Sector	21
Section	3.	Petroleum	35
Section	4.	Natural Gas	. 67
Section	5.	Crude Oil and Natural Gas Resource Development	. 75
Section	6.	Coal	81
Section	7.	Electricity	91
Section	8.	Nuclear Energy	113
Section	9.	Energy Prices	117
Section	10.	Renewable Energy	137
Section	11.	International Petroleum.	149
Section	12.	Environment	159
Appendix	A.	British Thermal Unit Conversion Factors	173
Appendix	B.	Metric Conversion Factors, Metric Prefixes, and Other	
		Physical Conversion Factors	185
Glossary			189

Tables

			Page
Section	1.	Energy Overview	
1.1		Primary Energy Overview	
1.2		Primary Energy Production by Source.	
1.3		Primary Energy Consumption by Source.	
1.4a		Primary Energy Imports by Source	
1.4b		Primary Energy Exports by Source and Total Net Imports	11
1.5		Merchandise Trade Value	13
1.6		Cost of Fuels to End Users in Real (1982-1984) Dollars	15
1.7		Primary Energy Consumption per Real Dollar of Gross Domestic Product	16
1.8		Motor Vehicle Mileage, Fuel Consumption, and Fuel Economy	17
1.9		Heating Degree-Days by Census Division	18
1.10		Cooling Degree-Days by Census Division.	19
Section	2.	Energy Consumption by Sector	
2.1		Energy Consumption by Sector.	23
2.2		Residential Sector Energy Consumption	
2.3		Commercial Sector Energy Consumption.	
2.4		Industrial Sector Energy Consumption.	
2.5		Transportation Sector Energy Consumption.	
2.6		Electric Power Sector Energy Consumption.	
G	•		
Section	3.	Petroleum	27
3.1		Petroleum Overview	
3.2		Refinery and Blender Net Inputs and Net Production.	39
3.3		Petroleum Trade	4.1
		3.3a Overview	
		3.3b Imports and Exports by Type.	
		3.3c Imports From OPEC Countries.	
2.4		3.3d Imports From Non-OPEC Countries	
3.4		Petroleum Stocks.	
3.5		Petroleum Products Supplied by Type.	
3.6		Heat Content of Petroleum Products Supplied by Type	51
3.7		Petroleum Consumption	5 0
		3.7a Residential and Commercial Sectors.	
		3.7b Industrial Sector.	
2.0		3.7c Transportation and Electric Power Sectors	55
3.8		Heat Content of Petroleum Consumption	
		3.8a Residential and Commercial Sectors	
		3.8b Industrial Sector.	
		3.8c Transportation and Electric Power Sectors	59
Section	4.	Natural Gas	
4.1		Natural Gas Overview	69
4.2		Natural Gas Trade by Country	70
4.3		Natural Gas Consumption by Sector	
4.4		Natural Gas in Underground Storage	
Section	5.	Crude Oil and Natural Gas Resource Development	
5.1		Crude Oil and Natural Gas Drilling Activity Measurements.	77
5.2		Crude Oil and Natural Gas Exploratory and Development Wells	

Tables

		Page
Section	6	Coal
6.1	0.	Coal Overview
6.2		Coal Consumption by Sector. 84
6.3		Coal Stocks by Sector
0.5		Coal Stocks by Sector
Section	7.	Electricity
7.1		Electricity Overview. 93
7.2		Electricity Net Generation
		7.2a Total (All Sectors)
		7.2b Electric Power Sector. 96
		7.2c Commercial and Industrial Sectors
7.3		Consumption of Combustible Fuels for Electricity Generation
		7.3a Total (All Sectors)
		7.3b Electric Power Sector
		7.3c Commercial and Industrial Sectors (Selected Fuels)
7.4		Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output
		7.4a Total (All Sectors)
		7.4b Electric Power Sector
		7.4c Commercial and Industrial Sectors (Selected Fuels)
7.5		Stocks of Coal and Petroleum: Electric Power Sector
7.6		Electricity End Use. 109
Section	8.	Nuclear Energy
8.1		Nuclear Energy Overview
Section	9.	Energy Prices
9.1		Crude Oil Price Summary
9.2		F.O.B. Costs of Crude Oil Imports From Selected Countries
9.3		Landed Costs of Crude Oil Imports From Selected Countries
9.4		Motor Gasoline Retail Prices, U.S. City Average
9.5		Refiner Prices of Residual Fuel Oil
9.6		Refiner Prices of Petroleum Products for Resale
9.7		Refiner Prices of Petroleum Products to End Users
9.8		No. 2 Distillate Prices to Residences
		9.8a Northeastern States
		9.8b Selected South Atlantic and Midwestern States
0.0		9.8c Selected Western States and U.S. Average
9.9		Average Retail Prices of Electricity
9.10 9.11		Cost of Fossil-Fuel Receipts at Electric Generating Plants
9.11		Natural Gas Prices
Section	10.	Renewable Energy
10.1		Renewable Energy Production and Consumption by Source
10.2		Renewable Energy Consumption
		10.2a Residential and Commercial Sectors
		10.2b Industrial and Transportation Sectors
		10.2c Electric Power Sector
10.3		Fuel Ethanol Overview
10.4		Biodiesel Overview

Tables

			Page
Section	11.	International Petroleum	
11.1		World Crude Oil Production	
		11.1a OPEC Members.	152
		11.1b Persian Gulf Nations, Non-OPEC, and World	
11.2		Petroleum Consumption in OECD Countries	
11.3		Petroleum Stocks in OECD Countries	
Section	12.	Environment	
12.1		Carbon Dioxide Emissions From Energy Consumption by Source	. 161
12.2		Carbon Dioxide Emissions From Energy Consumption: Residential Sector	163
12.3		Carbon Dioxide Emissions From Energy Consumption: Commercial Sector	. 164
12.4		Carbon Dioxide Emissions From Energy Consumption: Industrial Sector	165
12.5		Carbon Dioxide Emissions From Energy Consumption: Transportation Sector	166
12.6		Carbon Dioxide Emissions From Energy Consumption: Electric Power Sector	. 167
12.7		Carbon Dioxide Emissions From Biomass Energy Consumption	168
Append	ix A	. British Thermal Unit Conversion Factors	
A1.		Approximate Heat Content of Petroleum Products	173
A2.		Approximate Heat Content of Petroleum Production, Imports, and Exports	
A3.		Approximate Heat Content of Petroleum Consumption and Biofuels Production	
A4.		Approximate Heat Content of Natural Gas	
A5.		Approximate Heat Content of Coal and Coal Coke	
A6.		Approximate Heat Rates for Electricity, and Heat Content of Electricity.	
Append	ix B.	Metric Conversion Factors, Metric Prefixes, and Other Physical Conversion Factors	
B1.		Metric Conversion Factors.	186
B2.		Metric Prefixes.	
B3.		Other Physical Conversion Factors	187

Figures

		Page
	1.	Energy Overview
1.1		Primary Energy Overview
1.2		Primary Energy Production
1.3		Primary Energy Consumption
1.4a		Primary Energy Imports and Exports
1.4b		Primary Energy Net Imports
1.5		Merchandise Trade Value
1.6		Cost of Fuels to End Users in Real (1982-1984) Dollars
1.7		Primary Energy Consumption per Real Dollar of Gross Domestic Product
1.8		Motor Vehicle Fuel Economy
Section	•	Enougy Congumntion by Sector
2.1	4.	Energy Consumption by Sector Energy Consumption by Sector
2.2		Residential Sector Energy Consumption
2.3		Commercial Sector Energy Consumption
2.4		Industrial Sector Energy Consumption
2.5		Transportation Sector Energy Consumption
2.6		Electric Power Sector Energy Consumption. 32
2.0		Electric Fower Sector Energy Consumption
Section	3.	Petroleum
3.1		Petroleum Overview
3.2		Refinery and Blender Net Inputs and Net Production
3.3		Petroleum Trade
		3.3a Overview
		3.3b Imports
3.4		Petroleum Stocks
3.5		Petroleum Products Supplied by Type
3.6		Heat Content of Petroleum Products Supplied by Type
3.7		Petroleum Consumption by Sector
3.8		Heat Content of Petroleum Consumption by Sector, Selected Products
Section	4.	Natural Gas
4.1		Natural Gas
G	_	
	5.	Crude Oil and Natural Gas Resource Development
5.1		Crude Oil and Natural Gas Resource Development Indicators
Section	6.	Coal
6.1		Coal
Section	7.	Electricity
7.1		Electricity Overview
7.2		Electricity Net Generation
7.3		Consumption of Selected Combustible Fuels for Electricity Generation
7.4		Consumption of Selected Combustible Fuels for Electricity Generation and
		Useful Thermal Output
7.5		Stocks of Coal and Petroleum: Electric Power Sector
7.6		Electricity End Use
Section	8.	9 (
8.1		Nuclear Energy Overview. 114

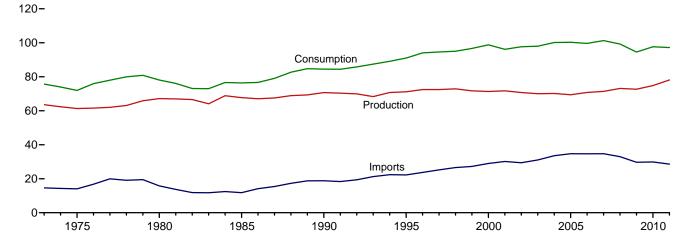
Figures

			Page
Section	9.	Energy Prices	Ü
9.1		Petroleum Prices.	118
9.2		Average Retail Prices of Electricity	129
9.3		Cost of Fossil-Fuel Receipts at Electric Generating Plants	. 129
9.4		Natural Gas Prices	
Section	10.	Renewable Energy	
10.1		Renewable Energy Consumption	138
Sectionr	11.	International Petroleum	
11.1		World Crude Oil Production	
		11.1a Overview	. 150
		11.1b By Selected Country	151
11.2		Petroleum Consumption in OECD Countries	
11.3		Petroleum Stocks in OECD Countries.	
Section	12.	Environment	
12.1		Carbon Dioxide Emissions From Energy Consumption by Source	160
12.2		Carbon Dioxide Emissions From Energy Consumption by Sector	162

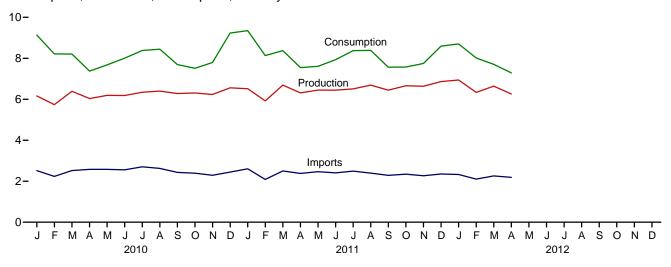
1. Energy Overview

Figure 1.1 Primary Energy Overview (Quadrillion Btu)

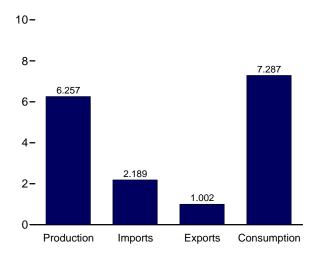
Consumption, Production, and Imports, 1973-2011



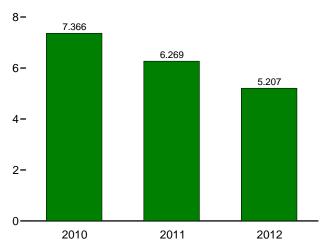
Consumption, Production, and Imports, Monthly



Overview, April 2012



Net Imports, January-April



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

Table 1.1 Primary Energy Overview

		Produ	uction			Trade		Ctash		Consu	Consumption				
	Fossil Fuels ^a	Nuclear Electric Power	Renew- able Energy ^b	Total	Imports	Exports	Net Imports ^c	Stock Change and Other ^d	Fossil Fuels ^e	Nuclear Electric Power	Renew- able Energy ^b	Total ^f			
1973 Total	58.241	0.910	4.411	63.563	14.613	2.033	12.580	-0.459	70.314	0.910	4.411	75.684			
1975 Total	54.733	1.900	4.687	61.320	14.032	2.323	11.709	-1.065	65.357	1.900	4.687	71.965			
1980 Total	59.008	2.739	5.428	67.175	15.796	3.695	12.101	-1.210	69.828	2.739	5.428	78.067			
1985 Total	57.539	4.076	6.084	67.698	11.781	4.196	7.584	1.110	66.093	4.076	6.084	76.392			
1990 Total	58.560	6.104	6.041	70.705	18.817	4.752	14.065	284	72.332	6.104	6.041	84.485			
1995 Total	57.540	7.075	6.558	71.174	22.260	4.511	17.750	2.105	77.259	7.075	6.560	91.029			
1996 Total	58.387	7.087	7.012	72.486	23.702	4.633	19.069	2.468	79.785	7.087	7.014	94.022			
1997 Total	58.857	6.597	7.018	72.472	25.215	4.514	20.701	1.429	80.873	6.597	7.016	94.602			
1998 Total	59.314	7.068	6.494	72.876	26.581	4.299	22.281	140	81.369	7.068	6.493	95.018			
1999 Total	57.614	7.610	6.517	71.742	27.252	3.715	23.537	1.372	82.427	7.610	6.516	96.652			
2000 Total	57.366	7.862	6.104	71.332	28.973	4.006	24.967	2.515	84.731	7.862	6.106	98.814			
2001 Total	58.541	8.029	5.164	71.735	30.157	3.771	26.386	-1.953	82.902	8.029	5.163	96.168			
2002 Total	56.837	8.145	5.734	70.716	29.408	3.669	25.739	1.190	83.699	8.145	5.729	97.645			
2003 Total	56.099	7.959	5.982	70.040	31.061	4.054	27.007	.931	84.014	7.959	5.983	97.978			
2004 Total	55.895	8.222	6.070	70.188	33.544	4.434	29.110	.864	85.819	8.222	6.082	100.162			
2005 Total	55.038	8.161	6.229	69.428	34.709	4.560	30.149	.705	85.794	8.161	6.242	100.282			
2006 Total	55.968 56.409	8.215 8.455	6.599 6.509	70.782	34.679 34.703	4.872 5.482	29.806	959	84.702	8.215 8.455	6.649	99.629 101.296			
2007 Total 2008 Total	56.409 57.482	8.435 8.427	7.202	71.373 73.111	34.703	7.060	29.221 25.932	.702 .231	86.211 83.549	8.455 8.427	6.523 7.186	99.275			
2009 Total	56.685	8.356	7.616	72.657	29.706	6.965	22.741	839	78.488	8.356	7.600	94.559			
2009 TOTAL	30.003	0.330	7.010	12.031	29.700	0.903	22.741	039	70.400	0.330	7.000	34.333			
2010 January	4.733	.758	.672	6.164	2.516	.590	1.926	1.042	7.697	.758	.662	9.132			
February	4.445	.682	.610	5.738	2.237	.556	1.681	.794	6.915	.682	.605	8.213			
March	5.032	.676	.682	6.389	2.519	.654	1.865	049	6.846	.676	.673	8.205			
April	R 4.773	.602	.661	R 6.036	2.580	.686	1.894	R557	6.104	.602	.657	7.372			
May	4.778	.697	.717	R 6.191	2.578	.704	1.874	388	6.261	.697	.715	7.678			
June	4.716	.714	.753	6.183	2.556	.684	1.872	048	6.530	.714	.755	8.008			
July	4.889 4.987	.752	.701 .662	R 6.341	2.705	.716 .698	1.989	.052	6.920	.752 .748	.701 .660	8.383			
August	4.931	.748 .725	.626	6.397	2.627 2.431	.675	1.929	.118 344	7.030	.746	.622	8.445 7.694			
September	R 5.005	.656	.646	6.281 6.308	2.431	.714	1.757 1.676	344 474	6.345 6.209	.656	.643	7.509			
October November	4.898	.655	.682	6.235	2.289	.760	1.529	.033	6.464	.655	.676	7.797			
December	5.061	.770	.726	R 6.556	2.447	.797	1.650	1.025	7.732	.770	.720	9.231			
Total	R 58.248	8.434	8.136	R 74.819	29.877	8.234	21.643	R 1.204	81.054	8.434	8.090	97.667			
2011 January	5.000	.760	.754	6.514	2.607	.832	1.776	R 1.061	R 7.843	.760	.739	^R 9.351			
February	4.527	.677	.717	5.921	2.007	.751	1.336	R .874	R 6.736	.677	.710	R 8.131			
March	5.181	.686	.822	6.689	2.501	.869	1.631	R .053	R 6.867	.686	.811	R 8.373			
April	4.920	.570	.821	6.311	2.378	.852	1.526	R292	R 6.156	.570	.812	R 7.545			
May	5.011	.596	.840	6.448	2.466	.832	1.634	R473	R 6.166	.596	.835	R 7.609			
June	4.934	.682	.828	6.445	2.407	.802	1.605	R118	R 6.412	.682	.827	R 7.932			
July	4.953	.756	.797	6.506	2.493	.833	1.660	R 208	^R 6.814	.756	.787	R 8.373			
August	5.200	.746	.746	6.691	2.395	.893	1.502	R .191	R 6.879	.746	.744	R 8.384			
September	5.065	.699	.680	6.443	2.288	.891	1.397	R273	R 6.184	.699	.673	7.567			
October	5.286	.662	.711	R 6.659	2.345	.892	1.453	R539	^R 6.199	.662	.702	7.573			
November	^R 5.221	.674	.742	R 6.637	2.269	.900	1.369	R255	6.339	.674	.730	7.751			
December	R 5.333	.751	.779	R 6.862	2.354	1.008	1.347	R .383	7.064	.751	.766	8.592			
Total	R 60.630	8.259	9.236	R 78.125	28.590	10.356	18.234	R .820	R 79.658	8.259	9.135	R 97.180			
2012 January	R 5.391	.757	.792	R 6.940	2.330	.866	1.464	R .297	^R 7.161	.757	.773	8.701			
February	R 4.963	.667	.705	R 6.336	2.102	.839	1.263	R .416	R 6.643	.667	.695	R 8.015			
March	^R 5.198	.645	.797	R 6.640	2.259	.966	1.293	R226	R 6.262	.645	.789	R 7.706			
April	4.897	.584	.776	6.257	2.189	1.002	1.187	157	5.917	.584	.773	7.287			
4-Month Total	20.449	2.653	3.070	26.172	8.880	3.673	5.207	.330	25.983	2.653	3.030	31.709			
2011 4-Month Total 2010 4-Month Total	19.628 18.984	2.694 2.718	3.114 2.625	25.435 24.326	9.573 9.852	3.304 2.486	6.269 7.366	1.696 1.230	27.601 27.563	2.694 2.718	3.073 2.597	33.401 32.922			

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

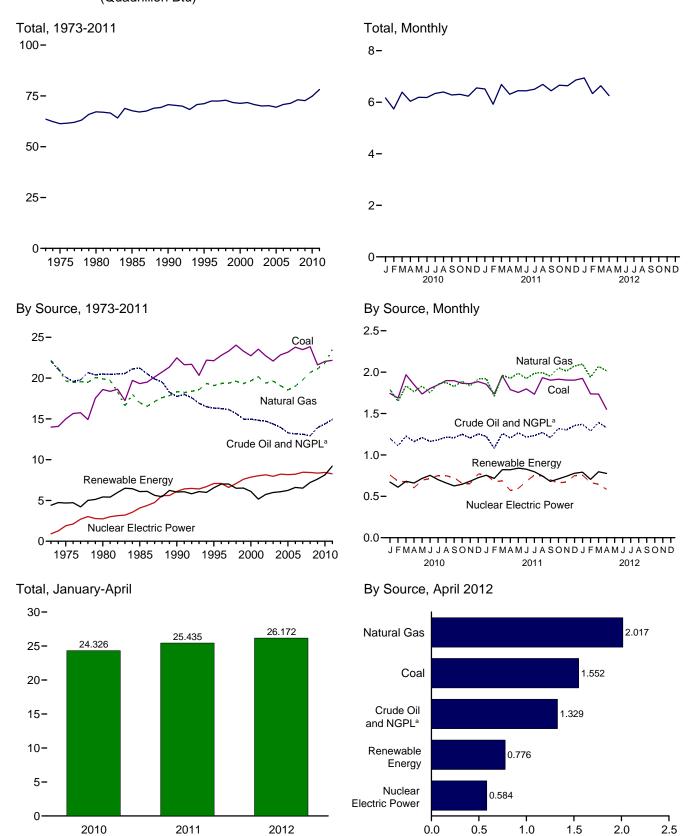
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1973.
Sources: • Production: Table 1.2. • Trade: Tables 1.4a and 1.4b. • Stock Change and Other: Calculated as consumption minus production and net imports.

• Consumption: Table 1.3.

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

R=Revised.

Figure 1.2 Primary Energy Production (Quadrillion Btu)



^a Natural gas plant liquids. Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.2.

Table 1.2 Primary Energy Production by Source

	adrillori												
		F	ossil Fuels						Renewabl	e Energy	1		
	Coal ^b	Natural Gas (Dry)	Crude Oil ^c	NGPLd	Total	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1996 Total	13.992 14.989 18.598 19.325 22.488 22.130 22.790 23.310	22.187 19.640 19.908 16.980 18.326 19.082	19.493 17.729 18.249 18.992 15.571 13.887 13.723	2.569 2.374 2.254 2.241 2.175 2.442 2.530 2.495	58.241 54.733 59.008 57.539 58.560 57.540 58.387 58.857	0.910 1.900 2.739 4.076 6.104 7.075 7.087 6.597	2.861 3.155 2.900 2.970 3.046 3.205 3.590 3.640	0.020 .034 .053 .097 .171 .152 .163	NA NA NA (s) .059 .069 .070	NA NA NA (s) .029 .033 .033	1.529 1.499 2.475 3.016 2.735 3.099 3.155 3.108	4.411 4.687 5.428 6.084 6.041 6.558 7.012	63.563 61.320 67.175 67.698 70.705 71.174 72.486 72.472
1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2007 Total 2007 Total	24.045 23.295 22.735 23.547 22.732 22.094 22.852 23.185 23.790 23.493 23.851 21.624	19.394 19.613 19.341 19.662 20.166 19.382 19.633 19.074 18.556 19.022 19.786 20.703 21.139	13.658 13.235 12.451 12.358 12.282 12.163 12.026 11.503 10.963 10.801 10.721 10.509 11.348	2.4490 2.528 2.611 2.547 2.559 2.346 2.466 2.334 2.356 2.419 2.574	59.314 57.614 57.366 58.541 56.837 56.099 55.895 55.038 55.968 56.409 57.482 56.685	7.068 7.610 7.862 8.029 8.145 7.959 8.222 8.161 8.215 8.455 8.427 8.356	3.297 3.268 2.811 2.242 2.689 2.825 2.690 2.703 2.869 2.446 2.511 2.669	.107 .168 .171 .164 .164 .171 .175 .178 .181 .181 .186 .192	.070 .069 .068 .066 .064 .063 .062 .063 .063 .068 .076	.034 .031 .046 .057 .070 .105 .115 .142 .178 .264 .341 .546	2.929 2.965 3.006 2.624 2.705 2.805 2.998 3.104 3.216 3.461 3.864 3.928	7.018 6.494 6.517 6.104 5.164 5.734 5.982 6.070 6.229 6.599 7.202 7.616	72.876 71.742 71.332 71.735 70.716 70.040 70.188 69.428 70.782 71.373 73.111 72.657
Petron January	1.743 1.687 1.969 1.848 1.736 1.802 1.847 1.898 1.897 1.864 1.860 1.886 22.038	1.790 1.648 1.835 1.763 1.832 1.751 1.859 1.874 1.826 1.892 1.833 1.920 21.823	.970 .900 .991 R.935 R.971 .937 .956 R.979 .977 R1.007 .969 1.012 R 11.605	.230 .210 .236 .227 .238 .226 .227 .236 .232 .242 .235 .242 2.781	4.733 4.445 5.032 R 4.773 4.778 4.716 4.889 4.987 F 5.005 4.898 5.061 R 58.248	.758 .682 .676 .602 .697 .714 .752 .748 .725 .656 .655 .770	.218 .201 .204 .186 .245 .291 .239 .196 .168 .173 .191 .226 2.539	.018 .016 .018 .017 .018 .017 .017 .018 .017 .017 .018 .208	.010 .009 .010 .010 .011 .011 .011 .011	.067 .053 .084 .095 .085 .079 .066 .065 .069 .077 .095 .088	.359 .332 .366 .351 .358 .355 .367 .371 .360 .369 .369 .383	.672 .610 .682 .661 .717 .753 .701 .662 .626 .646 .682 .726 8.136	6.164 5.738 6.389 R 6.036 R 6.191 6.183 R 6.341 6.397 6.281 6.308 6.235 R 6.556
February February April March April May June July August September October November December Total	1.854 1.736 1.958 1.789 1.755 1.798 1.733 1.933 1.903 1.915 1.904 1.903 22.181	E 1.922 E 1.711 E 1.963 E 1.925 E 1.988 E 1.923 E 1.987 E 1.994 E 1.952 E 2.052 E 2.014 E 2.075 E 23.506	E .994 E .883 E 1.013 E .967 E 1.015 E .974 E .983 E 1.021 E .973 RE 1.060 RE 1.045 RE 1.086 RE 12.015	.230 .198 .247 .238 .253 .240 .250 .251 .237 .259 .258 .268 2.928	5.000 4.527 5.181 4.920 5.011 4.934 4.953 5.200 5.065 5.286 R 5.221 R 5.333 R 60.630	.760 .677 .686 .570 .596 .682 .756 .746 .699 .662 .674 .751	.255 .241 .310 .309 .323 .315 .308 .257 .210 .195 .209 .241	.020 .018 .020 .018 .019 .019 .019 .019 .019 .019	.012 .012 .013 .013 .014 .014 .014 .013 .013 .013 .013 .158	.084 .103 .103 .121 .114 .106 .072 .072 .072 .067 .104 .121 .102	.383 .344 .377 .359 .371 .375 .384 .384 .371 .379 .382 .403	.754 .717 .822 .821 .840 .828 .797 .746 .680 .711 .742 .779	6.514 5.921 6.689 6.311 6.448 6.445 6.506 6.691 R 6.659 R 6.637 R 6.862 R 78.125
2012 January	1.924 1.737 1.735 1.552 6.949 7.337 7.247	RE 2.096 RE 1.939 RE 2.070 E 2.017 E 8.121 7.521 7.036	RE 1.100 RE 1.032 RE 1.122 E 1.066 E 4.321 3.857 3.797	.271 .255 .271 .263 1.058 .913 .904	R 5.391 R 4.963 R 5.198 4.897 20.449 19.628 18.984	.757 .667 .645 .584 2.653 2.694	.233 .203 .256 .261 .954 1.114 .809	.019 .018 .019 .018 .076	.015 .015 .016 .017 .063	.135 .108 .132 .123 .498	.389 .362 .372 .357 1.480 1.463 1.408	.792 .705 .797 .776 3.070 3.114 2.625	R 6.940 R 6.336 R 6.640 6.257 26.172 25.435 24.326

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

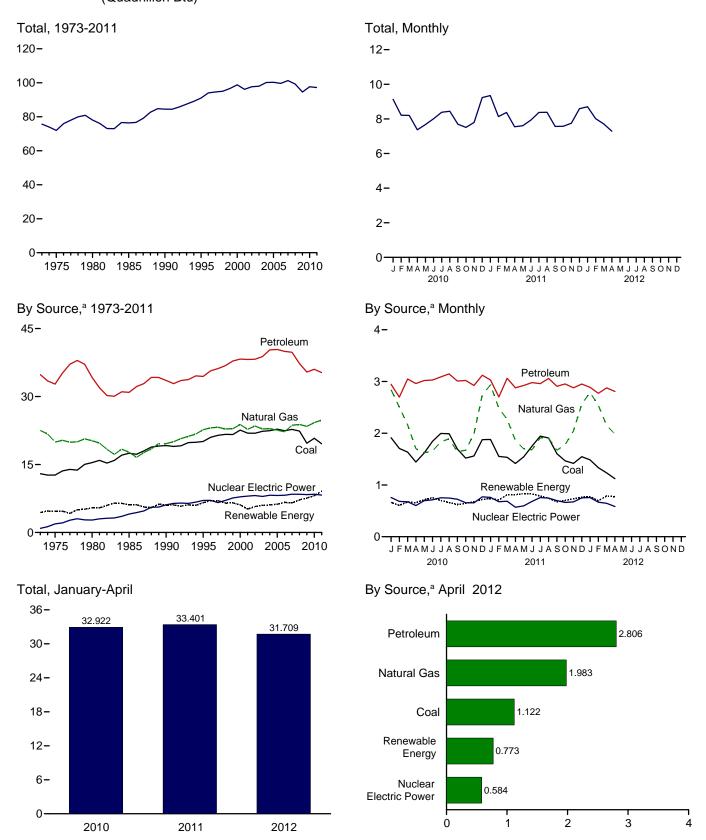
Notes: • See "Primary Energy Production" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

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

• Renewable Energy: Table 10.1.

Figure 1.3 Primary Energy Consumption (Quadrillion Btu)



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

Table 1.3 Primary Energy Consumption by Source

		Fossil	Fuels			Renewable Energy ^a						
	Coal	Natural Gas ^b	Petro- leum ^c	Totald	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total ^f
1973 Total	12,971	22.512	34.837	70.314	0.910	2.861	0.020	NA	NA	1.529	4.411	75.684
1975 Total	12.663	19.948	32.732	65.357	1.900	3.155	.034	NA	NA	1.499	4.687	71.965
1980 Total	15.423	20.235	34.205	69.828	2.739	2.900	.053	NA	NA	2.475	5.428	78.067
1985 Total	17.478	17.703	30.925	66.093	4.076	2.970	.097	(s)	(s)	3.016	6.084	76.392
1990 Total	19.173	19.603	33.552	72.332	6.104	3.046	.171	.059	.029	2.735	6.041	84.485
1995 Total	20.089	22.671	34.438	77.259	7.075	3.205	.152	.069	.033	3.101	6.560	91.029
1996 Total	21.002	23.085	35.675	79.785	7.087	3.590	.163	.070	.033	3.157	7.014	94.022
1997 Total	21,445	23.223	36.159	80.873	6.597	3.640	.167	.070	.034	3.105	7.016	94.602
1998 Total	21.656	22.830	36.816	81.369	7.068	3.297	.168	.069	.031	2.927	6.493	95.018
1999 Total	21.623	22.909	37.838	82.427	7.610	3.268	.171	.068	.046	2.963	6.516	96.652
2000 Total	22.580	23.824	38.262	84.731	7.862	2.811	.164	.066	.057	3.008	6.106	98.814
2001 Total	21.914	22.773	38.186	82.902	8.029	2.242	.164	.064	.070	2.622	5.163	96.168
2002 Total	21.904	23.510	38.224	83.699	8.145	2.689	.171	.063	.105	2.701	5.729	97.645
2003 Total	22.321	22.831	38.811	84.014	7.959	2.825	.175	.062	.115	2.807	5.983	97.978
2004 Total	22.466	22.923	40.292	85.819	8.222	2.690	.178	.063	.142	3.010	6.082	100.162
2005 Total	22.797	22.565	40.388	85.794	8.161	2.703	.181	.063	.178	3.117	6.242	100.282
2006 Total	22.447	22.239	39.955	84.702	8.215	2.869	.181	.068	.264	3.267	6.649	99.629
2007 Total	22.749	23.663	39.774	86.211	8.455	2.446	.186	.076	.341	3.474	6.523	101.296
2008 Total	22.385	23.843	37.280	83.549	8.427	2.511	.192	.089	.546	3.849	7.186	99.275
2009 Total	19.692	23.416	35.403	78.488	8.356	2.669	.200	.098	.721	3.912	7.600	94.559
2010 January	1.914	2.841	2.947	7.697	.758	.218	.018	.010	.067	.349	.662	9.132
February	1.706	2.507	2.698	6.915	.682	.201	.016	.009	.053	.326	.605	8.213
March	1.635	2.160	3.048	6.846	.676	.204	.018	.010	.084	.357	.673	8.205
April	1.444	1.700	2.960	6.104	.602	.186	.017	.010	.095	.348	.657	7.372
May	1.618	1.622	3.020	6.261	.697	.245	.018	.011	.085	.356	.715	7.678
June	1.844	1.656	3.029	6.530	.714	.291	.017	.011	.079	.357	.755	8.008
July	1.995	1.836	3.089	6.920	.752	.239	.017	.011	.066	.368	.701	8.383
August	1.991	1.890	3.148	7.030	.748	.196	.018	.011	.065	.370	.660	8.445
September	1.693	1.644	3.008	6.345	.725	.168	.017	.011	.069	.357	.622	7.694
October	1.519	1.671	3.020	6.209	.656	.173	.017	.010	.077	.366	.643	7.509
November	1.561	1.986	2.923	6.464	.655	.191	.017	.010	.095	.363	.676	7.797
December	1.876	2.741	3.120	7.732	.770	.226	.018	.010	.088	.377	.720	9.231
Total	20.794	24.256	36.010	81.054	8.434	2.539	.208	.126	.923	4.294	8.090	97.667
2011 January	1.879	R 2.933	3.030	R 7.843	.760	.255	.020	.012	.084	.367	.739	^R 9.351
February	1.552	R 2.482	2.701	^R 6.736	.677	.241	.018	.012	.103	.337	.710	^R 8.131
March	1.534	R 2.269	3.062	R 6.867	.686	.310	.020	.013	.103	.366	.811	R 8.373
April	1.416	^R 1.861	2.878	^R 6.156	.570	.309	.018	.013	.121	.351	.812	^R 7.545
May	1.545	R 1.696	2.923	^R 6.166	.596	.323	.019	.014	.114	.365	.835	^R 7.609
June	1.752	R 1.680	2.979	R 6.412	.682	.315	.019	.014	.106	.374	.827	R 7.932
July	1.945	R 1.910	2.959	^R 6.814	.756	.308	.019	.014	.072	.374	.787	R 8.373
August	1.908	R 1.908	3.059	R 6.879	.746	.257	.019	.014	.072	.382	.744	R 8.384
September	1.604	R 1.671	2.908	R 6.184	.699	.210	.018	.013	.067	.365	.673	7.567
October	1.467	R 1.779	2.953	R 6.199	.662	.195	.019	.014	.104	.370	.702	7.573
November	1.417	2.045	2.879	6.339	.674	.209	.019	.012	.121	.370	.730	7.751
December Total	1.547 19.565	2.564 R 24.799	2.951 35.283	7.064 R 79.658	.751 8.259	.241 3.171	.019 .226	.013 .158	.102 1.168	.390 4.411	.766 9.135	8.592 R 97.180
2012 January	1.486	2.786	2.887	R 7.161	.757	.233	.019	.015	.135	.370	.773	8.701
February	1.333	R 2.538	2.772	R 6.643	.667	.203	.018	.015	.108	.351	.695	R 8.015
March	1.233	R 2.150	2.876	R 6.262	.645	.256	.019	.016	.132	.364	.789	R 7.706
April 4-Month Total	1.122 5.174	1.983 9.457	2.806 11.341	5.917 25.983	.584 2.653	.261 .954	.018 .076	.017 .063	.123 .498	.354 1.439	.773 3.030	7.287 31.709
2011 4-Month Total 2010 4-Month Total	6.382 6.698	9.546 9.209	11.671 11.653	27.601 27.563	2.694 2.718	1.114 .809	.076 .069	.050 .040	.411 .299	1.421 1.380	3.073 2.597	33.401 32.922

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

separately displayed. See Tables 1.4a and 1.4b.
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.
Notes:
See "Primary Energy Consumption" in Glossary.
Totals may not equal sum of components due to independent rounding.
Geographic coverage is the 50 States and the District of Columbia.
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1973.
Sources:
Coal: Tables 6.1 and A5.
Nuclear Electric Power: 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.

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

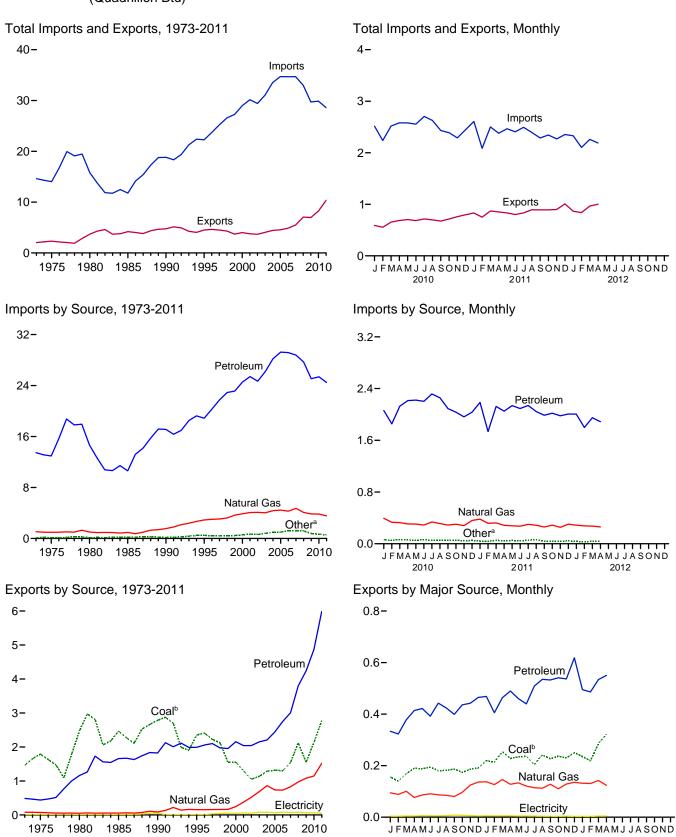
^b Natural gas only; excludes supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.

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

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

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

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

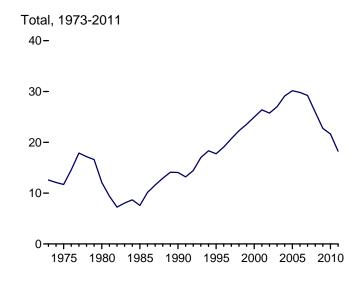


^a Coal, coal coke, biofuels, and electricity. Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Sources: Tables 1.4a and 1.4b.

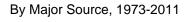
^b Includes coal coke.

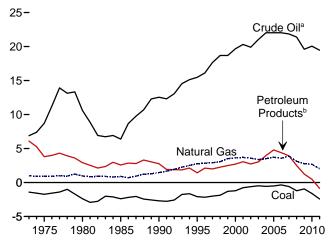
Figure 1.4b Primary Energy Net Imports

(Quadrillion Btu, Except as noted)



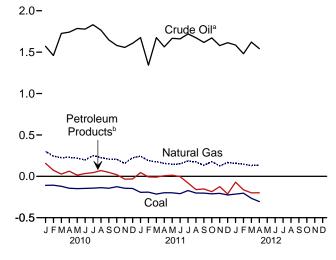








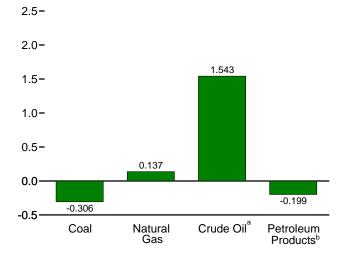
2010



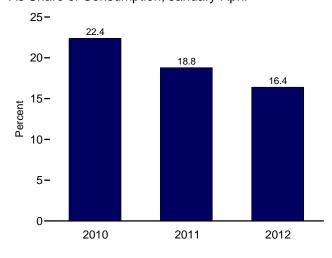
2011

2012

By Major Source, April 2012



As Share of Consumption, January-April



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

blending components. Does not include biofuels.

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

Sources: Tables 1.3, 1.4a, and 1.4b.

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

Table 1.4a Primary Energy Imports by Source

					Imports				
					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Total	Biofuels ^c	Electricity	Total
1973 Total	0.003	0.027	1.060	6.887	6.578	13.466	NA	0.057	14.613
1975 Total	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032
1980 Total	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796
1985 Total	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781
1990 Total 1995 Total	.067 .237	.019 .095	1.551 2.901	12.766 15.669	4.351 3.211	17.117 18.881	NA .001	.063 .146	18.817 22.260
1996 Total	.203	.063	3.002	16.341	3.943	20.284	.001	.148	23.702
1997 Total	.187	.078	3.063	17.876	3.864	21.740	(s)	.147	25.215
1998 Total	.218	.095	3.225	18.916	3.992	22.908	(s)	.135	26.581
1999 Total	.227	.080	3.664	18.935	4.198	23.133	(s)	.147	27.252
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 2004 Total	.626 .682	.068 .170	4.042 4.365	21.060 22.082	5.159 6.114	26.219 28.197	.002 .013	.104 .117	31.061 33.544
2005 Total	.762	.088	4.450	22.091	7.157	29.248	.013	.150	34.709
2006 Total	.906	.101	4.291	22.085	7.084	29.169	.066	.146	34.679
2007 Total	.909	.061	4.723	21.914	6.868	28.781	.054	.175	34.703
2008 Total	.855	.089	4.084	21.448	6.237	27.685	.084	.195	32.992
2009 Total	.566	.009	3.845	19.699	5.383	25.082	.026	.178	29.706
2010 January	.042	.001	.394	1.577	.483	2.060	.001	.018	2.516
February	.031	.005	.332	1.469	.384	1.853	(s)	.015	2.237
March	.047	.003	.327	1.734	.393	2.127	.001	.015	2.519
April	.045	.001	.306	1.747	.466	2.214	(s)	.013	2.580
May	.037 .044	.005 .005	.305 .289	1.793 1.784	.428 .419	2.221 2.203	.001	.010	2.578 2.556
June July	.035	.003	.337	1.844	.472	2.316	(s) (s)	.014 .015	2.705
August	.043	.003	.313	1.772	.484	2.256	(s)	.012	2.627
September	.040	.002	.289	1.658	.432	2.090	(s)	.010	2.431
October	.044	.001	.302	1.585	.448	2.034	(s)	.009	2.390
November	.037	(s)	.280	1.563	.400	1.963	(s)	.009	2.289
December	.039	(s)	.361	1.614	.420	2.034	(s)	.013	2.447
Total	.484	.030	3.834	20.140	5.231	25.371	.004	.154	29.877
2011 January	.025	.001	.380	1.689	.497	2.186	(s)	.015	2.607
February	.021	.002	.316	1.348	.387	1.735	(s)	.013	2.087
March	.038 .028	.004 .001	.322 .285	1.682 1.570	.441 .479	2.123 2.050	(s) (s)	.014 .013	2.501 2.378
April May	.026	.001	.205	1.674	.462	2.050	(S) (S)	.013	2.376
June	.024	.004	.272	1.666	.424	2.090	.001	.015	2.407
July	.030	.003	.300	1.734	.404	2.138	.001	.021	2.493
August	.039	.005	.286	1.680	.364	2.044	.002	.019	2.395
September	.021	.003	.260	1.623	.365	1.988	.003	.014	2.288
October	.023	.002	.288	1.681	.337	2.018	.002	.013	2.345
November	.020	.002	.254	1.591	.388	1.979	.002	.012	2.269
December Total	.024 .327	.004 .035	.303 3.542	1.623 19.561	.383 4.930	2.006 24.491	.004 .016	.015 .178	2.354 28.590
2012 January	.020	.003	.288	1.596	.408	2.005	(s)	.014	2.330
February	.013 .017	.002 .004	.277 .273	1.491 1.633	.307 .316	1.798 1.949	(s) .002	.012 .014	2.102 2.259
March April	.017	.004	.261	1.548	.339	1.887	.002	.014	2.259
4-Month Total	.066	.016	1.098	6.268	1.370	7.638	.003	.058	8.880
2011 4-Month Total	.113	.008	1,303	6.289	1.804	8.093	.001	.054	9.573
2010 4-Month Total	.165	.010	1.359	6.527	1.727	8.254	.002	.061	9.852

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

available data beginning in 1973.

Sources: • Coal: Tables 6.1 and A5. • Coal Coke: 1973-1975—U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, "Coke and Coal Chemicals" chapter. 1976-1980—U.S. Energy Information Administration (EIA), Energy Data Report, "Coke and Coal Chemicals," annual reports. 1981 forward—EIA, Quarterly Coal Report, quarterly reports and Table A5. • Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.3b, 10.3, 10.4, and A2. • Biofuels: Tables 10.3, 10.4 and A3. • Electricity: Tables 7.1 and A6.

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

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

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

					Exports					Net Imports ^a
					Petroleum					
	Coal	Coal Coke	Natural Gas	Crude Oil ^b	Petroleum Products ^C	Total	Biofuelsd	Electricity	Total	Total
1973 Total	1.425	0.035	0.079	0.004	0.482	0.486	NA	0.009	2.033	12.580
1975 Total	1.761	.032	.074	.012	.427	.439	NA	.017	2.323	11.709
1980 Total	2.421	.051	.049	.609	.551	1.160	NA	.014	3.695	12.101
1985 Total	2.438	.028	.056	.432	1.225	1.657	NA	.017	4.196	7.584
1990 Total	2.772	.014	.087	.230	1.594	1.824	NA	.055	4.752	14.065
1995 Total	2.318	.034	.156	.200	1.791	1.991	NA	.012	4.511	17.750
1996 Total 1997 Total	2.368 2.193	.040 .031	.155 .159	.233 .228	1.825 1.872	2.059 2.100	NA NA	.011 .031	4.633 4.514	19.069 20.701
1998 Total	2.092	.028	.161	.233	1.740	1.972	NA NA	.047	4.299	22.281
1999 Total	1.525	.022	.164	.250	1.705	1.955	NA NA	.049	3.715	23.537
2000 Total	1.528	.028	.245	.106	2.048	2.154	NA	.051	4.006	24.967
2001 Total	1.265	.033	.377	.043	1.996	2.039	(s)	.056	3.771	26.386
2002 Total	1.032	.020	.520	.019	2.023	2.042	(s)	.054	3.669	25.739
2003 Total	1.117	.018	.686	.026	2.124	2.151	.001	.082	4.054	27.007
2004 Total	1.253	.033	.862	.057	2.151	2.208	.001	.078	4.434	29.110
2005 Total	1.273	.043	.735	.067 .052	2.374	2.442 2.751	.001	.065	4.560	30.149
2006 Total 2007 Total	1.264 1.507	.040 .036	.730 .830	.052	2.699 2.949	3.007	.004 .035	.083 .069	4.872 5.482	29.806 29.221
2008 Total	2.071	.049	.972	.061	3.739	3.800	.086	.083	7.060	25.932
2009 Total	1.515	.032	1.082	.093	4.147	4.240	.034	.062	6.965	22.741
2010 January	.151	.006	.094	.006	.327	.332	.003	.004	.590	1.926
February	.138	.001	.089	.009	.312	.321	.003	.003	.556	1.681
March	.169	(s)	.100	.008	.366	.374	.006	.004	.654	1.865
April	.189	.001	.077	.006	.404	.411	.005	.004	.686	1.894
May	.186	.003	.086	.007	.414	.420	.003	.006	.704	1.874
June July	.190 .178	.004 .003	.091 .087	.005 .012	.385 .428	.391 .440	.003 .003	.005 .005	.684 .716	1.872 1.989
August	.180	.003	.085	.006	.415	.421	.003	.006	.698	1.929
September	.184	.002	.080	.011	.385	.396	.004	.008	.675	1.757
October	.170	.003	.097	.004	.429	.433	.004	.007	.714	1.676
November	.180	.006	.125	.006	.433	.439	.004	.006	.760	1.529
December	.186	.005	.136	.007	.452	.459	.007	.005	.797	1.650
Total	2.101	.036	1.147	.088	4.750	4.838	.046	.065	8.234	21.643
2011 January	.218	.001	.137 .126	.013 .005	.451 .395	.464 .400	.006 .005	.005 .005	.832 .751	1.776 1.336
February March	.212 .252	.002 .001	.126	.005	.395 .450	.400 .457	.005	.005	.751	1.631
April	.232	.001	.128	.007	.473	.480	.011	.005	.852	1.526
May	.232	.002	.133	.007	.448	.454	.007	.004	.832	1.634
June	.233	.003	.121	.006	.428	.434	.006	.004	.802	1.605
July	.202	.003	.114	.013	.485	.498	.011	.004	.833	1.660
August	.241	.001	.112	.006	.525	.531	.005	.003	.893	1.502
September	.224	.003	.128	.006	.518	.524	.010	.003	.891	1.397
October	.235	.002	.110	.009	.522	.531	.011	.003	.892	1.453
November	.226 .249	.004 .001	.129 .136	.011 .010	.513 .595	.524 .604	.013 .014	.004 .003	.900 1.008	1.369 1.347
December Total	.249 2.751	.001 . 024	1.521	.010 .100	.595 5.801	.604 5.901	.014 .108	.003 . 051	1.008 1 0.356	1.347 18.234
2012 January	.234	.001	.132	.010	.478	.489	.008	.003	.866	1.464
February	.217	.002	.131	.010	.470	.480	.007	.003	.839	1.263
March	.284	.002	.142	.011	.516	.527	.008	.004	.966	1.293
April 4-Month Total	.321 1.056	.001 .005	.124 .529	.006 .036	.538 2.003	.544 2.039	.007 .030	.004 .015	1.002 3.673	1.187 5.207
2011 4-Month Total 2010 4-Month Total	.909 .647	.006 .008	.537 .360	.031 .030	1.769 1.408	1.800 1.438	.030 .016	.021 .016	3.304 2.486	6.269 7.366

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

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1973.
Sources: • Coal: Tables 6.1 and A5. • Coal Coke: 1973-1975—U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, "Coke and Coal Chemicals" chapter. 1976-1980—U.S. Energy Information Administration (EIA), Energy Data Report, "Coke and Coal Chemicals," annual reports. 1981 forward—EIA, Quarterly Coal Report, quarterly reports and Table A5.
• Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.3b, 10.4, and A2. • Biofuels: Tables 10.3, 10.4 and A3. • Electricity: Tables 7.1 and A6.

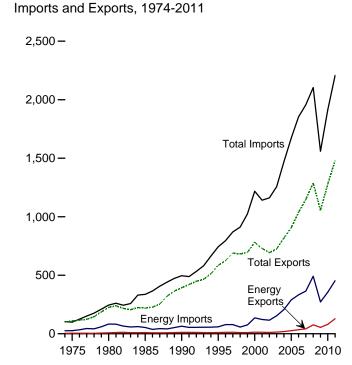
a Net imports equal imports minus exports.
 b Crude oil and lease condensate.
 c Petroleum products, unfinished oils, pentanes plus, and gasoline blending

omponents. Does not include biofuels.

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

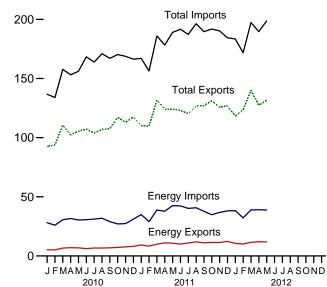
NA=Not available. (s)=Less than 0.5 trillion Btu.

Figure 1.5 Merchandise Trade Value (Billion Dollars^a)

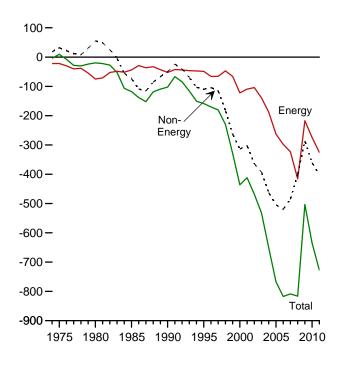


Imports and Exports, Monthly

250 -

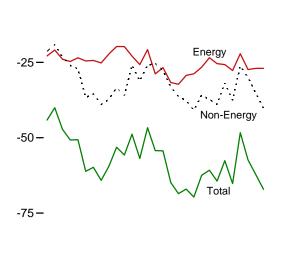


Trade Balance, 1974-2011



Trade Balance, Monthly

0



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

Table 1.5 Merchandise Trade Value

(Million Dollarsa)

1974 Total 702 24.668 23.876 3.444 25.454 -22.010 18,126 99.437 193.3 1975 Total 907 25.197 -24.289 4.470 26.476 -22.008 31.557 198.856 99.3 1975 Total 907 25.197 -24.289 4.470 26.476 -22.008 31.557 198.856 99.3 1975 Total 4,707 50.475 -45.768 9.971 53.917 -43.946 -73.765 218.815 33.65 1990 Total 6.901 61.583 -76.827 -75.803 7.92 82.224 -74.492 55.246 -50.068 39.552 1990 Total 6.921 54.368 48.047 10.358 59.109 -48.751 110.050 584.742 74.55. 1990 Total 6.321 54.368 -48.047 10.358 59.109 -48.751 110.050 584.742 74.55. 1995 Total 8.592 71.152 -62.560 12.682 78.277 -65.595 114.927 689.182 880.7 1998 Total 6.574 50.264 43.680 10.551 57.323 47.072 -182.686 65.593 71.1928 10.101 71.701 71.101 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.701 71.101 71.101 71.701 71.101 71.101 71.701 71.101 71.701			Petroleumb			Energy ^c		Non-	1	otal Merchandis	е
1975 Total 907 25,197 24,289 4,470 26,476 22,006 31,557 108,856 99,3 1980 Total 2,833 76,837 -75,803 76,837 -75,83	E	Exports	Imports	Balance	Exports	Imports	Balance		Exports	Imports	Balance
1980 Total 2,833 78,637 -75,803 7,982 82,924 74,942 55,246 225,566 245,256 1990 Total 6,901 61,533 -54,682 12,233 64,661 52,428 -50,068 335,592 490,0 1995 Total 6,901 61,533 -54,682 12,233 64,661 52,428 -50,068 335,592 490,0 1995 Total 7,984 72,022 -64,038 12,181 78,086 -65,905 -104,309 625,075 789,2 1996 Total 7,984 72,022 -64,038 12,181 78,086 -65,905 -104,309 625,075 789,2 1998 Total 6,574 50,244 -48,690 10,255 57,322 -46,073 11,000 50,000 10,200 10,		792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884
1985 Total		907	25,197	-24,289	4,470	26,476		31,557	108,856	99,305	9,551
1999 Total 6,901 61,583 -54,682 12,233 64,661 -52,428 -50,068 393,592 496,0 1995 Total 6,321 64,368 -48,047 10,358 69,109 -48,751 -110,050 594,742 743,5 1996 Total 7,7,984 72,022 -64,038 12,181 78,086 -65,995 -104,309 -625,075 795,2 1997 Total 8,592 71,152 -62,560 12,662 78,277 -65,595 -114,927 689,182 869,7 1998 Total 6,674 60,264 -43,690 10,251 57,323 -47,072 -182,686 682,138 911,8 1999 Total 7,118 67,173 -60,055 9,880 75,803 -65,923 -262,898 695,797 1,024,6 2000 Total 10,192 119,251 -109,059 13,179 135,367 -122,188 -313,916 781,918 1,218,0 2001 Total 8,868 102,747 -93,879 12,494 11,541 115,748 -104,207 -364,056 693,103 1,161,3 2001 Total 10,192 119,261 -109,059 13,179 135,367 -122,188 -313,916 781,918 1,218,0 2002 Total 8,868 102,747 -93,879 12,494 11,541 115,748 -104,207 -364,056 693,103 1,161,3 2003 Total 10,209 132,433 -122,224 13,768 163,298 1-39,530 -392,802 724,771 1,257,1 2004 Total 13,130 179,266 -166,136 18,642 206,660 -188,018 -462,912 818,775 +169,72 2005 Total 28,171 29,714 271,543 34,711 32,500 -297,789 -519,515 1,036,635 18,775 1,000 100 100 100 100 100 100 100 100 1	Total									245,262	-19,696
1995 Total										336,526	-117,712
1996 Total										496,088	-102,496
1997 Total										743,543	-158,801
1998 Total 6,574 50,264 43,690 10,251 57,323 47,072 -182,686 682,138 911,8 1999 Total 7,118 67,173 -60,055 9,880 75,803 -65,923 -262,889 695,97 10,24,6 2000 Total 10,192 119,251 190,059 13,179 135,367 -122,188 -313,916 781,918 12,180, 2001 Total 8,868 102,747 -93,879 12,494 121,923 -109,429 -302,470 729,100 11,190, 2002 Total 8,569 102,663 -40,994 11,541 115,748 -104,207 -364,056 693,103 11,613, 2003 Total 10,209 132,433 -122,241 13,768 153,288 -139,530 -364,056 693,103 11,613, 2004 Total 13,130 179,266 -166,136 18,642 206,660 -188,018 -462,912 818,775 1,4697, 2005 Total 191,155 250,068 -230,913 26,488 289,723 -263,235 5-04,24 905,978 1673,200 Total 281,171 299,714 -271,543 34,711 332,500 -297,789 -519,515 1,036,635 1853,98 2007 Total 33,233 327,620 -294,327 41,725 364,987 -322,262 485,501 1,148,199 1,956,9 2008 Total 61,695 449,847 -388,152 76,075 491,885 -415,810 -400,389 1,287,442 2,103,6 2009 Total 44,509 251,833 -207,324 54,536 271,739 -217,203 -286,379 1,056,043 1,559,6 2010 January 4,003 25,234 -21,151 5,236 28,075 -22,839 -21,285 92,601 136,7 February 4,003 25,234 -21,151 5,236 28,075 -22,839 -21,285 92,601 136,7 February 4,003 25,244 -21,351 5,236 28,075 -22,839 -21,285 92,601 136,7 February 4,003 25,234 -21,151 5,236 28,075 -22,839 -21,285 92,601 136,7 February 4,003 25,234 -21,231 5,235 249 6,877 30,369 -23,482 -23,271 110,511 157,7 April 5,680 30,016 -24,336 6,970 31,657 -24,687 -26,034 102,443 153,1 May 5,444 28,733 -23,249 6,887 30,369 -23,482 -23,271 110,511 157,51 June 4,788 29,011 -24,213 6,760 31,113 -24,353 -33,397 117,104 170,2 Cotober 6,084 25,556 19,472 -7,318 27,066 -19,738 -33,397 117,104 170,2 Cotober 6,694 29,892 -23,198 8,182 31,107 -22,925 -25,888 117,480 166,2 Cotober 6,694 29,892 -23,198 8,182 31,107 -22,925 -25,888 117,480 166,2 Cotober 9,573 33,465 -286,867 80,460 35,496 -20,777 -25,897 109,647 156,3 August 9,912 30,663 -25,604 9,275 35,014 -26,509 -36,374 123,399 191,5 October 9,573 33,467 -22,384 11,40 34,867 -23,450 -36,379 109,647 156,3 August 9,912 30,666 -26,132 11,401 34,8										795,289	-170,214
1999 Total 7,118 67,173 60,055 9,880 75,803 65,923 -26,2898 695,797 1,024,6 2000 Total 10,192 119,251 -109,069 13,179 135,367 -122,188 31,916 781,918 12,102 2001 Total 8,569 102,663 -94,094 11,541 115,748 -104,207 -33,1916 781,918 12,102 2002 Total 10,209 132,433 115,768 153,298 -139,530 -392,820 724,771 1,257,1 2003 Total 10,209 132,433 122,224 13,768 153,298 -139,530 -392,820 724,771 1,257,1 2004 Total 13,130 179,266 -166,136 18,642 206,660 -188,018 46,2912 818,775 1,487,7 2005 Total 19,155 250,068 -250,098 26,488 289,723 -263,325 -504,242 90,5,78 1,673,4 2006 Total 28,171 299,714 -271,543 34,711 332,500 -297,789 51,515 1,036,535 183,7 2005 Total 33,293 327,620 -294,327 41,725 364,987 -323,262 -403,501 1,148,199 1,956,9 2008 Total 61,695 449,847 -388,152 76,075 491,885 -415,810 -400,389 1,274,42 2,105,68 2009 Total 44,509 251,833 -207,324 54,536 271,739 -217,203 -286,379 1,056,043 1,559,6 2010 January 4,083 25,234 -21,151 5,236 28,075 -22,839 -21,285 92,601 136,7 April 5,680 30,016 -24,336 6,970 31,687 -24,887 -24,887 -24,877 -19,141 93,854 133,8 March 5,348 28,549 -23,201 6,667 30,613 -23,946 -23,271 110,511 157,7 April 5,680 30,016 -24,336 6,970 31,687 -24,887										869,704	-180,522
2000 Total										911,896	-229,758
2001 Total											-328,821
2002 Total							,				-436,104
2003 Total 10,209 132,433 122,224 13,768 153,298 -139,530 -392,820 724,771 1257,71 2005 Total 13,130 179,266 -166,136 18,642 206,660 -188,018 -462,912 818,775 818,775 14,689,7 2005 Total 19,155 250,068 -230,913 26,488 289,723 -263,235 -504,242 905,978 1,673,4 2005 Total 28,171 29,714 -271,543 34,711 332,500 -297,789 -519,515 10,36,635 18,633,9 2007 Total 33,293 327,620 -294,327 41,725 364,987 -323,262 -485,501 1,148,199 1,955,9 2008 Total 61,695 49,847 -388,152 76,075 491,885 -415,810 -400,389 1,287,442 2,103,6 209 Total 44,509 251,833 -207,324 54,536 271,739 -217,203 -266,379 1,056,043 1,559,6 209 Total 44,509 251,833 -207,324 54,536 271,739 -217,203 -218,500 1,056,043 1,559,6 209 Total 44,509 251,833 -207,324 54,536 271,739 -217,203 -21,285 92,601 136,7 February 4,003 23,666 -19,663 5,115 5,236 28,075 -22,839 -21,285 92,601 136,7 February 4,003 23,666 -19,663 5,115 5,236 28,075 -22,839 -21,285 92,601 136,7 February 5,884 28,733 -23,201 6,667 30,613 -23,946 -24,326 1,914 193,854 133,8 March 5,348 28,733 -23,249 6,887 30,369 -23,482 -27,165 105,477 156,1 June 4,798 29,011 -24,213 6,170 30,698 -23,482 -27,165 105,477 156,1 June 4,798 29,011 -24,213 6,170 30,698 -23,482 -27,165 105,477 156,1 June 4,798 29,011 -24,213 6,170 30,698 -23,482 -36,592 107,202 166,3 July 5,505 29,18 -23,713 6,760 31,113 -24,533 -35,451 104,057 163,8 August 5,346 30,130 -24,784 6,744 31,907 -25,163 -38,957 106,846 170,9 October 6,084 25,556 -19,472 -7,318 27,056 -19,738 -33,397 117,104 170,2 Cotober 6,084 25,556 -19,472 -7,318 27,056 -19,738 -33,397 117,104 170,640 170,644 170,640 1											-411,899
2004 Total 13,130 179,266 -166,136 18,642 206,660 180,018 -462,912 818,775 1,469,7 2005 Total 19155 250,068 -230,913 26,488 288,723 -263,235 -504,242 905,978 1,673,4 2006 Total 28,171 299,714 -271,543 34,711 332,500 -297,789 -519,515 1,036,635 18,539, 2007 Total 33,293 327,620 -294,327 41,725 364,987 -323,262 -485,501 1,148,199 1,956,9 2008 Total 61,685 449,847 -388,152 76,075 491,885 -415,810 -400,389 1,267,442 2,103,6 2009 Total 44,509 251,833 -207,324 54,536 271,739 -217,203 -286,379 1,056,043 1,559,6 2010 January 4,083 25,234 -21,151 5,236 28,075 -22,839 -21,285 92,601 136,7 February 4,003 23,666 -19,663 5,115 26,018 -20,903 -19,141 93,854 133,8 March 5,348 28,549 -23,201 6,667 30,613 -23,946 -23,271 110,511 157,7 April 5,680 30,16 -24,336 6,970 31,657 -24,687 -26,034 102,443 153,1 May 5,484 28,733 -23,249 6,887 30,369 -23,482 -27,165 105,477 156,1 June 4,798 29,011 -24,213 6,170 30,689 -24,245 -36,559 107,020 163,3 July 55,05 29,218 -23,713 6,760 31,113 -24,353 -35,451 104,057 163,8 August 5,346 30,130 -24,784 6,744 31,907 -25,163 -38,957 106,646 170,9 September 5,482 27,479 -21,997 6,802 28,992 -22,190 -37,244 107,644 167,0 October 6,004 25,556 -19,472 7,318 27,056 -19,738 -33,397 117,104 170,2 November 6,672 25,982 -19,710 7,610 27,363 -19,733 -35,966 113,046 186,7 December 6,604 27,551 -20,947 8,291 29,062 -20,771 -25,888 117,89 April 9,016 36,457 -27,441 11,059 37,803 -26,744 -27,589 12,78,263 19,131 July 9,069 38,622 -29,553 10,002 40,224 -27,168 -36,274 123,099 11,28,49 July 9,069 38,622 -29,551 10,003 42,305 -32,266 -36,274 123,099 117,28,19 July 9,069 38,622 -29,551 10,003 42,305 -32,266 -36,274 123,099 117,28,19 July 9,069 38,622 -29,551 10,003 42,305 -32,266 -36,274 123,099 117,28,19 July 9,069 38,622 -29,551 10,003 42,305 -32,266 -36,274 123,099 117,28,19 July 9,069 38,622 -29,551 11,401 36,821 -25,400 -35,855 127,107 188,9 April 9,016 36,457 -27,441 11,059 37,803 -26,744 -27,589 123,959 176,20 39,11 1,27,20 12,20 13,20 13,20 13,20 13,20 13,20 13,20 13,20 13,20 13,20 13,20 13,20 13,20 13,20 13,2											-468,263
2005 Total 19,155 250,068 -230,913 26,488 289,723 -263,255 504,242 905,978 1,673,4 2005 Total 28,171 299,774 -271,543 34,711 332,500 -297,789 5-19,515 1,036,655 1,853,9 2007 Total 33,293 327,620 -294,327 41,725 364,987 -323,262 485,501 1,148,199 1,956,9 2008 Total 61,695 449,847 -388,152 76,075 491,885 -415,870 -400,389 1,287,442 2,103,6 2009 Total 44,509 251,833 -207,324 54,536 271,739 -217,203 -286,379 1,056,043 1,559,6 2010 January 4,083 25,234 -21,151 5,236 28,075 -22,839 -21,285 92,601 136,7 February 4,003 23,666 -19,663 5,115 26,018 -20,903 -19,141 93,854 133,8 March 5,348 28,549 -23,201 6,667 30,613 -23,946 -23,271 110,511 157,7 April 5,680 30,016 -24,336 6,987 30,369 -23,482 -27,165 105,447 156,1 June 4,788 29,011 -24,213 6,170 30,698 -24,528 -36,592 107,202 186,3 July 5,505 92,18 -23,713 6,760 31,113 -24,353 -35,451 104,057 163,8 August 5,346 30,130 -24,784 6,774 31,103 -25,163 38,957 106,846 170,9 October 6,084 25,556 -19,472 7,318 27,056 -19,738 -33,397 117,104 157,0 October 6,694 29,892 -23,199 8,8182 31,107 -22,925 -25,888 117,490 166,2 December 6,604 29,892 -23,198 8,182 31,107 -22,925 -25,888 117,490 166,2 Total 66,778 333,465 -268,687 80,460 354,968 274,508 -360,389 1,278,263 1,913,17 24,107 4,1											-532,350
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2008 Total 61,695 449,847 -388,152 76,075 491,885 -415,810 -400,389 1,287,442 2,103,6 2009 Total 44,509 251,833 -207,324 54,536 271,739 -217,203 -286,379 1,056,043 1,559,6 2010 January 4,083 25,234 -21,151 5,236 28,075 -22,839 -21,285 92,601 136,7 February 4,003 23,666 -19,683 5,115 20,018 -20,903 -19,141 93,854 133,8 March 5,348 28,549 -23,201 6,667 30,613 -23,946 -23,271 110,511 157,7 April 5,680 30,016 -24,336 6,970 31,657 -24,687 -23,604 102,443 153,1 June 4,798 29,011 -24,213 6,170 30,698 -24,528 -36,592 107,202 168,3 July 5,505 29,218 -23,713 6,760 31,113 -24,553 35,95											-817,304
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February 4,003 23,666 1-19,663 5,115 26,018 20,903 1-19,141 93,854 133,8 March 5,348 28,549 -23,201 6,667 30,613 -23,946 -23,271 110,511 157,7 April 5,680 30,016 -24,336 6,970 31,657 -24,687 -26,034 102,443 153,1 May 5,484 28,733 -23,249 6,887 30,369 -23,482 -27,165 105,477 156,1 June 4,798 29,011 -24,213 6,170 30,698 -23,482 -27,165 105,477 156,1 June 4,798 29,011 -24,213 6,170 30,698 -23,482 -27,165 105,477 156,1 June 5,505 29,218 -23,713 6,760 31,113 -24,553 -35,451 104,057 163,8 August 5,346 30,130 -24,784 6,744 31,907 -25,163 -38,957 106,846 170,9 September 5,482 27,479 -21,997 6,802 28,992 -22,190 -37,244 107,644 167,0 October 6,084 25,556 1-19,472 7,318 27,056 -19,738 -33,397 117,104 170,2 November 6,272 25,982 -19,710 7,610 27,363 31,913,195 20,108,108 113,046 168,7 December 6,694 29,892 -23,198 8,182 31,107 -22,925 -25,888 117,480 166,2 Total 64,778 333,465 -268,687 80,460 354,968 -274,508 -360,389 1,278,263 1,913,14 February 6,604 27,551 -20,947 8,291 29,062 -20,771 -25,897 109,647 156,3 March 7,841 37,096 -29,255 9,958 38,763 -28,805 -25,442 131,728 185,9 April 9,016 36,457 -27,441 11,059 37,803 -28,805 -25,442 131,728 185,9 June 8,032 40,872 -32,840 10,039 42,305 -32,266 -36,274 123,039 115, October 9,573 33,667 -22,840 10,039 42,305 -32,266 -36,274 123,039 115, October 9,573 33,667 -22,855 11,414 37,741 -25,897 109,647 156,3 May 8,767 41,002 -32,235 10,795 42,470 -31,675 -33,171 124,107 188,9 June 8,032 40,872 -32,840 10,039 42,305 -32,266 -36,274 123,039 115, October 9,573 33,667 -22,853 10,902 40,224 -29,322 -37,702 120,239 187,2 August 9,912 39,063 -29,151 11,940 40,732 -28,792 -40,886 126,633 196,3 September 9,202 36,467 -27,265 11,411 37,741 37,741 -25,897 133,665 127,107 188,5 October 9,573 33,667 -23,894 11,410 34,857 -23,447 -37,306 131,058 191,8 November 9,533 33,665 -26,132 11,401 34,857 -23,447 -37,306 131,058 191,8 November 9,533 35,665 -26,132 11,401 34,857 -23,447 -37,506 131,058 191,8 November 9,533 35,665 -26,132 11,401 34,857 -23,447 -37,519 118,209 189,5 October 9,000 37,933 -22,2		44,000	201,000	201,024	04,000	27 1,700	217,200	200,070	1,000,040	1,000,020	000,002
March 5,348 28,549 -23,201 6,667 30,613 -23,946 -22,271 110,511 157,7 April 5,680 30,016 -24,336 6,970 31,657 -24,687 -26,034 102,443 153,1 May 5,484 28,733 -23,249 6,887 30,369 -23,482 -27,165 105,477 156,1 June 4,798 29,011 -24,213 6,760 30,190 -24,528 -36,592 107,202 188,3 August 5,346 30,130 -24,784 6,744 31,907 -25,163 -38,957 106,846 170,9 September 5,482 27,479 -21,997 6,802 28,992 -22,190 -37,244 107,644 167,0 October 6,084 25,556 -19,472 7,318 27,056 -19,738 -33,397 117,104 170,2 November 6,272 25,982 -19,710 7,610 27,363 -19,753 -35,966 113,046 <td>,</td> <td>,</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>136,725</td> <td>-44,124</td>	,	,								136,725	-44,124
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May 5,484 28,733 -23,249 6,887 30,369 -23,482 -27,165 105,477 156,1 June 4,798 29,011 -24,213 6,760 31,113 -24,528 -36,592 107,202 168,3 July 5,505 29,218 -23,713 6,760 31,113 -24,533 -35,451 104,057 163,8 August 5,346 30,130 -24,784 6,744 31,907 -25,163 -38,957 106,846 170,9 September 5,482 27,479 -21,997 6,802 28,992 -22,190 -37,244 107,644 167,0 October 6,084 25,556 -19,472 7,318 27,056 -19,738 -33,397 117,104 170,2 November 6,272 25,982 -19,710 7,610 27,353 -19,753 -35,666 113,046 168,7 Total 64,778 33,465 -268,687 80,460 354,968 -274,508 -360,389 1,278,										157,728	-47,217
June 4,788 29,011 -24,213 6,170 30,688 -24,528 -36,592 107,202 188,3 July 5,505 29,218 -23,713 6,760 31,113 -24,528 -36,541 104,057 163,8 August 5,346 30,130 -24,784 6,744 31,907 -25,163 -38,957 106,846 170,9 September 5,482 27,479 -21,997 6,802 28,992 -22,190 -37,244 107,644 167,0 October 6,084 25,556 -19,472 7,318 27,056 -19,738 -33,397 117,104 170,2 November 6,677 80 29,825 -31,107 -22,925 -25,886 113,046 168,7 Total 64,778 333,465 -268,687 80,460 354,968 -274,508 -360,389 1,278,263 1,913,1 2011 January 7,446 33,050 -25,664 9,275 35,010 -25,735 -31,34 110										153,163	-50,721
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August 5,346 30,130 -24,784 6,744 31,907 -25,163 -38,957 106,846 170,9 September 5,482 27,479 -21,997 6,802 28,992 -22,190 -37,244 107,644 167,0 October 6,084 25,556 -19,472 7,318 27,056 -19,738 -33,397 117,104 170,2 November 6,272 25,982 -19,710 7,610 27,363 -19,753 -35,966 113,046 168,7 December 6,694 29,892 -23,198 8,182 31,107 -22,925 -25,888 117,480 166,2 Total 64,778 333,465 -268,667 80,460 354,968 -274,508 -360,389 1,278,263 1,913,1 2011 January 7,446 33,050 -25,604 9,275 35,010 -25,735 -31,134 110,179 167,0 February 6,604 27,551 -20,947 8,291 29,062 -20,771 -25,897 109,647 156,3 March 7,841 37,096 -29,255 9,958 38,763 -28,805 -25,442 131,728 185,9 April 9,016 36,457 -27,441 11,059 37,803 -26,744 -27,589 123,959 178,2 May 8,767 41,002 -32,235 10,795 42,470 -31,675 -33,171 124,107 188,9 Julp 80,063 38,622 -29,553 10,092 40,224 -29,322 -37,702 120,239 191,5 October 9,573 33,467 -23,844 11,410 40,732 -28,792 -40,896 126,633 196,3 September 9,202 36,467 -27,265 11,141 37,741 -26,600 -35,855 127,107 189,5 October 9,573 33,467 -23,894 11,410 36,821 -25,420 -38,944 125,899 190,2 December 10,501 36,831 -26,330 12,353 38,083 -25,730 -31,876 126,837 184, Total 105,499 436,145 -330,646 128,564 453,872 -325,308 -402,084 1,480,432 2,207,8 May 10,056 37,835 -27,777 11,855 May 10,056 37,835 -27,777 11,856 38,829 -26,971 -40,137 131,508 198,6 5-Month Total 47,252 182,112 -134,860 56,197 187,349 -131,152 -168,990 640,521 940,6											-61,120
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November 6,272 25,982 -19,710 7,610 27,363 -19,753 -35,966 113,046 168,7 December 6,694 29,892 -23,198 8,182 31,107 -22,925 -25,888 117,480 166,2 Total 64,778 333,465 -268,687 80,460 354,968 -274,508 -360,389 1,278,263 1,913,1 2011 January 7,446 333,050 -25,604 9,275 35,010 -25,735 -31,134 110,179 167,0 February 6,604 27,551 -20,947 8,291 29,062 -20,771 -25,897 109,647 166,3 March 7,841 37,096 -29,255 9,958 38,763 -28,805 -25,442 131,728 185,9 April 9,016 36,457 -27,441 11,059 37,803 -26,744 -27,589 123,959 178,2 May 8,767 41,002 -32,235 10,795 42,470 -31,675 -33,171											-59,434
December 6,694 29,892 -23,198 8,182 31,107 -22,925 -25,888 117,480 166,2 Total 64,778 333,465 -268,687 80,460 354,968 -274,508 -360,389 1,278,263 1,913,1 2011 January 7,446 33,050 -25,604 9,275 35,010 -25,735 -31,134 110,179 167,0 February 6,604 27,551 -20,947 8,291 29,062 -20,771 -25,897 109,647 156,3 March 7,841 37,096 -29,255 9,958 38,763 -28,805 -25,442 131,728 185,9 April 9,016 36,457 -27,441 11,059 37,803 -26,744 -27,589 123,959 178,2 May 8,767 41,002 -32,235 10,795 42,470 -31,675 -33,171 124,107 188,9 July 9,069 38,622 -29,553 10,902 40,224 -29,322 -37,702		,			,						-53,135
Total 64,778 333,465 -268,687 80,460 354,968 -274,508 -360,389 1,278,263 1,913,1 2011 January 7,446 33,050 -25,604 9,275 35,010 -25,735 -31,134 110,179 167,0 February 6,604 27,551 -20,947 8,291 29,062 -20,771 -25,897 109,647 156,3 March 7,841 37,096 -29,255 9,958 38,763 -28,805 -25,442 131,728 185,9 April 9,016 36,457 -27,441 11,059 37,803 -26,744 -27,589 123,959 178,2 May 8,767 41,002 -32,235 10,795 42,470 -31,675 -33,171 124,107 188,9 July 9,069 36,622 -29,553 10,902 40,224 -29,322 -37,702 120,239 187,2 August 9,912 39,063 -29,151 11,940 40,732 -28,792 -40,896											-55,719 -48,813
2011 January 7,446 33,050 -25,604 9,275 35,010 -25,735 -31,134 110,179 167,0 February 6,604 27,551 -20,947 8,291 29,062 -20,771 -25,897 109,647 156,3 March 7,841 37,096 -29,255 9,958 38,763 -28,805 -25,442 131,728 185,9 April 9,016 36,457 -27,441 11,059 37,803 -26,744 -27,589 123,959 178,2 May 8,767 41,002 -32,235 10,795 42,470 -31,675 -33,171 124,107 188,9 July 9,069 38,622 -29,553 10,795 42,470 -31,675 -33,171 124,107 188,9 July 9,069 38,622 -29,553 10,902 40,224 -29,322 -37,702 120,239 191,5 July 9,069 38,622 -29,553 10,902 40,224 -29,322 -37,702 120,239 187,2 August 9,912 39,063 -29,151 11,940 40,732 -28,792 -40,896 126,633 196,3 September 9,202 36,467 -27,265 111,141 37,741 -26,600 -35,855 127,107 189,5 October 9,573 33,467 -23,894 11,410 34,857 -23,447 -37,306 131,058 191,8 November 9,533 35,665 -26,132 11,401 36,821 -25,420 -38,944 125,899 190,2 December 10,501 36,831 -26,330 12,353 38,083 -25,730 -31,876 126,837 184,4 Total 105,499 436,145 -330,646 128,564 453,872 -325,308 -402,084 1,480,432 2,207,8 April 10,152 38,129 -27,977 12,057 39,043 -26,986 8-35,179 R127,411 R189,5 May 10,056 37,835 -27,779 11,858 38,829 -26,971 -40,137 131,508 198,6 5-Month Total 47,252 182,112 -134,860 56,197 187,349 -131,152 -168,990 640,521 940,6										1,913,160	-46,613 - 634,897
February 6,604 27,551 -20,947 8,291 29,062 -20,771 -25,897 109,647 156,3 March 7,841 37,096 -29,255 9,958 38,763 -28,805 -25,442 131,728 185,9 April 9,016 36,457 -27,441 11,059 37,803 -26,744 -27,589 123,959 178,2 May 8,767 41,002 -32,235 10,795 42,470 -31,675 -33,171 124,107 188,9 June 8,032 40,872 -32,840 10,039 42,305 -32,266 -36,274 123,039 191,5 July 9,069 38,622 -29,553 10,902 40,224 -29,322 -37,702 120,239 187,2 August 9,912 39,063 -29,151 11,940 40,732 -28,792 -40,896 126,633 196,3 September 9,202 36,467 -27,265 11,141 37,741 -26,600 -35,855 127,107<				,	,	,	,	,,,,,,,			
March 7,841 37,096 -29,255 9,958 38,763 -28,805 -25,442 131,728 185,9 April 9,016 36,457 -27,441 11,059 37,803 -26,744 -27,589 123,959 178,2 May 8,767 41,002 -32,235 10,795 42,470 -31,675 -33,171 124,107 188,9 Jule 8,032 40,872 -32,840 10,039 42,305 -32,266 -36,274 123,039 191,5 July 9,069 38,622 -29,553 10,902 40,224 -29,322 -37,702 120,239 187,2 August 9,912 39,063 -29,151 11,940 40,732 -28,792 -40,896 126,633 196,3 September 9,202 36,467 -27,265 11,141 37,741 -26,600 -35,855 127,107 189,5 October 9,573 33,467 -23,894 11,410 34,857 -23,447 -37,306 131,058<										167,048	-56,869
April 9,016 36,457 -27,441 11,059 37,803 -26,744 -27,589 123,959 178,2 May 8,767 41,002 -32,235 10,795 42,470 -31,675 -33,171 124,107 188,9 June 8,032 40,872 -32,840 10,039 42,305 -32,266 -36,274 123,039 191,5 July 9,069 38,622 -29,553 10,902 40,224 -29,322 -37,702 120,239 187,2 August 9,912 39,063 -29,151 11,940 40,732 -28,792 -40,886 126,633 196,3 September 9,202 36,467 -27,265 11,141 37,741 -26,600 -35,855 127,107 189,5 October 9,573 33,467 -23,894 11,410 34,857 -23,447 -37,306 131,058 191,8 November 9,533 35,665 -26,132 11,401 36,821 -25,420 -38,944 125,										156,315	-46,668
May 8,767 41,002 -32,235 10,795 42,470 -31,675 -33,171 124,107 188,9 June 8,032 40,872 -32,840 10,039 42,305 -32,266 -36,274 123,039 191,5 July 9,069 38,622 -29,553 10,902 40,224 -29,322 -37,702 120,239 187,2 August 9,912 39,063 -29,151 11,940 40,732 -28,792 -40,896 126,633 196,3 September 9,202 36,467 -27,265 11,141 37,741 -26,600 -35,855 127,107 189,5 October 9,573 33,467 -23,894 11,410 34,857 -23,447 -37,306 131,058 191,8 November 9,533 35,665 -26,132 11,401 36,821 -25,420 -38,944 125,899 190,2 December 10,501 36,831 -26,330 12,353 38,083 -25,730 -31,876										185,975	-54,247
June 8,032 40,872 -32,840 10,039 42,305 -32,266 -36,274 123,039 191,5 July 9,069 38,622 -29,553 10,902 40,224 -29,322 -37,702 120,239 187,2 August 9,912 39,063 -29,151 11,940 40,732 -28,792 -40,896 126,633 196,3 September 9,202 36,467 -27,265 11,141 37,741 -26,600 -35,855 127,107 189,5 October 9,573 33,467 -23,894 11,410 34,857 -23,447 -37,306 131,058 191,8 November 9,533 35,665 -26,132 11,401 36,821 -25,420 -38,944 125,899 190,2 December 10,501 36,831 -26,330 12,353 38,083 -25,730 -31,876 126,837 184,4 Total 105,499 436,145 -330,646 128,564 453,872 -325,308 -402,084										178,293	-54,333
July 9,069 38,622 -29,553 10,902 40,224 -29,322 -37,702 120,239 187,2 August 9,912 39,063 -29,151 11,940 40,732 -28,792 -40,896 126,633 196,3 September 9,202 36,467 -27,265 11,141 37,741 -26,600 -35,855 127,107 189,5 October 9,573 33,467 -23,894 11,410 34,857 -23,447 -37,306 131,058 191,8 November 9,533 35,665 -26,132 11,401 36,821 -25,420 -38,944 125,899 190,2 December 10,501 36,831 -26,330 12,353 38,083 -25,730 -31,876 126,837 184,4 Total 105,499 436,145 -330,646 128,564 453,872 -325,308 -402,084 1,480,432 2,207,8 2012 January 8,730 37,044 -28,314 10,606 38,290 -27,684 -37,519 118,209 183,4 February 8,605 31,171										188,953	-64,846
August 9,912 39,063 -29,151 11,940 40,732 -28,792 -40,896 126,633 196,3 September 9,202 36,467 -27,265 11,141 37,741 -26,600 -35,855 127,107 189,5 October 9,573 33,467 -23,894 11,410 34,857 -23,447 -37,306 131,058 191,8 November 9,533 35,665 -26,132 11,401 36,821 -25,420 -38,944 125,899 190,2 December 10,501 36,831 -26,330 12,353 38,083 -25,730 -31,876 126,837 184,4 Total 105,499 436,145 -330,646 128,564 453,872 -325,308 -402,084 1,480,432 2,207,8 2012 January 8,730 37,044 -28,314 10,606 38,290 -27,684 -37,519 118,209 183,4 February 8,605 31,171 -22,566 10,124 32,250 -22,126 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>-68,540</td></td<>											-68,540
September 9,202 36,467 -27,265 11,141 37,741 -26,600 -35,855 127,107 189,5 October 9,573 33,467 -23,894 11,410 34,857 -23,447 -37,306 131,058 191,8 November 9,533 35,665 -26,132 11,401 36,821 -25,420 -38,944 125,899 190,2 December 10,501 36,831 -26,330 12,353 38,083 -25,730 -31,876 126,837 184,4 Total 105,499 436,145 -330,646 128,564 453,872 -325,308 -402,084 1,480,432 2,207,8 2012 January 8,730 37,044 -28,314 10,606 38,290 -27,684 -37,519 118,209 183,4 February 8,605 31,171 -22,566 10,124 32,250 -22,126 -26,181 123,428 171,7 March 9,709 37,933 -28,224 11,552 38,937 -27,385		-,									-67,024
October 9,573 33,467 -23,894 11,410 34,857 -23,447 -37,306 131,058 191,8 November 9,533 35,665 -26,132 11,401 36,821 -25,420 -38,944 125,899 190,2 December 10,501 36,831 -26,330 12,353 38,083 -25,730 -31,876 126,837 184,4 Total 105,499 436,145 -330,646 128,564 453,872 -325,308 -402,084 1,480,432 2,207,8 2012 January 8,605 31,171 -22,566 10,124 32,250 -27,684 -37,519 118,209 183,4 February 8,605 31,171 -22,566 10,124 32,250 -22,126 -26,181 123,428 171,7 March 9,709 37,933 -28,224 11,552 38,937 -27,385 -29,974 139,965 197,3 April 10,152 38,129 -27,977 12,057 39,043 -26,986 8-3											-69,688
November 9,533 35,665 -26,132 11,401 36,821 -25,420 -38,944 125,899 190,2 December 10,501 36,831 -26,330 12,353 38,083 -25,730 -31,876 126,837 184,4 Total 105,499 436,145 -330,646 128,564 453,872 -325,308 -402,084 1,480,432 2,207,8 2012 January 8,730 37,044 -28,314 10,606 38,290 -27,684 -37,519 118,209 183,4 February 8,605 31,171 -22,566 10,124 32,250 -22,126 -26,181 123,428 171,7 March 9,709 37,933 -28,224 11,552 38,937 -27,385 -29,974 139,965 197,3 April 10,152 38,129 -27,977 12,057 39,043 -26,986 R-35,179 R 127,411 R 189,5 May 10,056 37,835 -27,779 11,858 38,829 -26,971 -											-62,455
December 10,501 36,831 -26,330 12,353 38,083 -25,730 -31,876 126,837 184,4 Total 105,499 436,145 -330,646 128,564 453,872 -325,308 -402,084 1,480,432 2,207,8 2012 January 8,730 37,044 -28,314 10,606 38,290 -27,684 -37,519 118,209 183,4 February 8,605 31,171 -22,566 10,124 32,250 -22,126 -26,181 123,428 171,7 March 9,709 37,933 -28,224 11,552 38,937 -27,385 -29,974 139,965 197,3 April 10,152 38,129 -27,977 12,057 39,043 -26,986 ~35,179 R127,411 R 189,5 May 10,056 37,835 -27,779 11,858 38,829 -26,971 -40,137 131,508 198,6 5-Month Total 47,252 182,112 -134,860 56,197 187,349 -131,152											-60,753
Total 105,499 436,145 -330,646 128,564 453,872 -325,308 -402,084 1,480,432 2,207,8 2012 January 8,730 37,044 -28,314 10,606 38,290 -27,684 -37,519 118,209 183,4 February 8,605 31,171 -22,566 10,124 32,250 -22,126 -26,181 123,428 171,7 March 9,709 37,933 -28,224 11,552 38,937 -27,385 -29,974 139,965 197,3 April 10,152 38,129 -27,977 12,057 39,043 -26,986 R-35,179 R127,411 R189,5 May 10,056 37,835 -27,779 11,858 38,829 -26,971 -40,137 131,508 198,6 5-Month Total 47,252 182,112 -134,860 56,197 187,349 -131,152 -168,990 640,521 940,6											-64,364
2012 January											-57,606 -727,392
February 8,605 31,171 -22,566 10,124 32,250 -22,126 -26,181 123,428 171,7 March 9,709 37,933 -28,224 11,552 38,937 -27,385 -29,974 139,965 197,3 April 10,152 38,129 -27,977 12,057 39,043 -26,986 R-35,179 R127,411 R189,5 May 10,056 37,835 -27,779 11,858 38,829 -26,971 -40,137 131,508 198,6 5-Month Total 47,252 182,112 -134,860 56,197 187,349 -131,152 -168,990 640,521 940,6		•									
March 9,709 37,933 -28,224 11,552 38,937 -27,385 -29,974 139,965 197,3 April 10,152 38,129 -27,977 12,057 39,043 -26,986 -35,179 R127,411 R189,5 May 10,056 37,835 -27,779 11,858 38,829 -26,971 -40,137 131,508 198,6 5-Month Total 47,252 182,112 -134,860 56,197 187,349 -131,152 -168,990 640,521 940,6										183,411	-65,203
April 10,152 38,129 -27,977 12,057 39,043 -26,986 R -35,179 R 127,411 R 189,5 May 10,056 37,835 -27,779 11,858 38,829 -26,971 -40,137 131,508 198,6 5-Month Total 47,252 182,112 -134,860 56,197 187,349 -131,152 -168,990 640,521 940,6										171,735	-48,307
May										197,324	-57,359
5-Month Total 47,252 182,112 -134,860 56,197 187,349 -131,152 -168,990 640,521 940,6											R -62,165
										198,616	-67,108
2014 F Month Total 20 674 475 455 425 492 40 279 402 409 422 720 442 222 500 620 975 5	5-Month Lotal	47,252	182,112	-134,860	56,197	187,349	-131,152	-168,990	640,521	940,663	-300,142
		39,674	175,156	-135,482	49,378	183,108	-133,730	-143,233	599,620	876,583 737,638	-276,963 -232,753

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

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

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

Sources: See end of section.

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

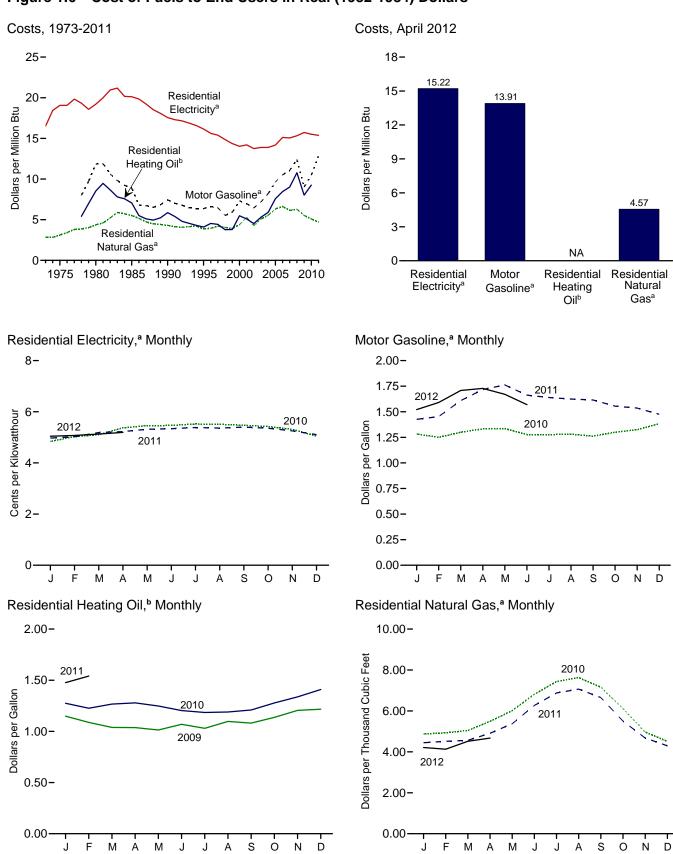
b Crude oil, petroleum preparations, liquefied propane and butane, and other mineral fuels.

c Petroleum, coal, natural gas, and electricity.

R=Revised.

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

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



^a Includes taxes.

^b Excludes taxes.

Note: See "Real Dollars" in Glossary.

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

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

	Consumer Price Index, All Urban Consumers ^a	Motor G	asoline ^b		dential ng Oil ^c		lential II Gas ^b	Residential Electricity ^b		
	Index 1982-1984=100	Dollars per Gallon	Dollars per Million Btu	Dollars per Gallon	Dollars per Million Btu	Dollars per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars pe Million Bt	
973 Average	44.4	NA	NA	NA	NA	2.91	2.85	5.6	16.50	
975 Average	53.8	NA	NA	NA	NA	3.18	3.12	6.5	19.07	
980 Average	82.4	1.482	11.85	1.182	8.52	4.47	4.36	6.6	19.21	
985 Average	107.6	1.112	8.89	0.979	7.06	5.69	5.52	6.87	20.13	
990 Average	130.7	0.931	7.44	0.813	5.86	4.44	4.31	5.99	17.56	
995 Average	152.4	0.791	6.37	0.569	4.10	3.98	3.87	5.51	16.15	
996 Average	156.9	0.821	6.61	0.630	4.54	4.04	3.94	5.33	15.62	
997 Average	160.5	0.804	6.48	0.613	4.42	4.32	4.21	5.25	15.39	
998 Average	163.0	0.684	5.51	0.523	3.77	4.18	4.05	5.07	14.85	
999 Average	166.6	0.733	5.91	0.526	3.79	4.02	3.91	4.90	14.36	
000 Average	172.2	0.908	7.32	0.761	5.49	4.51	4.39	4.79	14.02	
001 Average	177.1	0.864	6.97	0.706	5.09	5.44	5.28	4.84	14.20	
002 Average	179.9	0.801	6.46	0.628	4.52	4.39	4.28	4.69	13.75	
003 Average	184.0	0.890	7.18	0.736	5.31	5.23	5.09	4.74	13.89	
004 Average	188.9	1.018	8.20	0.819	5.91	5.69	5.55	4.74	13.89	
005 Average	195.3	1.197	9.64	1.051	7.58	6.50	6.33	4.84	14.18	
006 Average	201.6	1.307	10.52	1.173	8.46	6.81	6.63	5.16	15.12	
007 Average	207.342	1.374	11.06	1.250	9.01	6.31	6.14	5.14	15.05	
008 Average	215.303	1.541	12.40	1.495	10.78	6.45	6.28	5.23	15.33	
009 Average	214.537	1.119	9.01	1.112	8.02	5.66	5.52	5.37	15.72	
110 January	216.687	1.282	10.32	1.275	9.19	4.87	4.76	4.84	14.19	
February	216.741	1.250	10.06	1.226	8.84	4.93	4.82	5.02	14.73	
March	217.631	1.300	10.46	1.267	9.13	5.05	4.93	5.10	14.96	
April	218.009	1.333	10.73	1.278	9.22	5.49	5.37	5.37	15.74	
May	218.178	1.336	10.75	1.248	9.00	6.01	5.88	5.46	16.00	
June	217.965	1.277	10.28	1.203	8.68	6.82	6.66	5.46	16.01	
July	218.011	1.277	10.27	1.185	8.55	7.44	7.27	5.52	16.19	
August	218.312	1.280	10.31	1.190	8.58	7.63	7.46	5.51	16.15	
September	218.439	1.261	10.15	1.209	8.72	7.16	7.00	5.47	16.03	
October	218.711	1.300	10.46	1.278	9.21	6.11	5.98	5.42	15.89	
November	218.803	1.325	10.66	1.337	9.64	4.97	4.86	5.31	15.56	
December	219.179	1.383	11.13	1.409	10.16	4.51	4.41	5.05	14.79	
Average	218.056	1.301	10.47	1.283	9.25	5.22	5.11	5.29	15.51	
011 January	220.223	1.425	11.47	1.476	10.64	4.45	4.35	4.97	14.57	
February	221.309	1.453	11.69	1.540	11.11	4.52	4.42	5.02	14.73	
March	223.467	1.608	12.95	NA	NA	R 4.56	_ 4.46	5.19	15.20	
April	224.906	1.718	13.83	NA	NA	^R 4.91	R 4.80	5.22	15.31	
May	225.964	1.762	14.18	NA	NA	^R 5.37	5 25	5.32	15.58	
June	225.722	1.663	13.38	NA	NA	^R 6.27	R 6.13	5.34	15.65	
July	225.922	1.639	13.19	NA	NA	^R 6.88	6.72	5.38	15.77	
August	226.545	1.624	13.07	NA	NA	^R 7.07	^R 6.91	5.36	15.72	
September	226.889	1.615	13.00	NA	NA	^R 6.65	^R 6.50	5.40	15.82	
October	226.421	1.555	12.52	NA	NA	^R 5.50	^R 5.38	5.36	15.70	
November	226.230	1.536	12.36	NA	NA	4.68	4.57	5.25	15.39	
December	225.672	1.475	11.87	NA	NA	4.29	4.20	5.10	14.96	
Average	224.939	1.590	12.80	NA	NA	R 4.81	R 4.70	5.25	15.37	
012 January	226.665	1.521	12.24	NA	NA	4.21	4.12	5.04	14.78	
February	227.663	1.591	12.81	NA	NA	4.13	4.04	5.07	14.87	
March	229.392	1.708	13.75	NA	NA	4.52	4.41	5.13	15.03	
April	230.085	1.728	13.91	NA	NA	R 4.67	R 4.57	R 5.19	R 15.22	
May	229.815	1.670	13.45	NA	NA	NA	NA	NA	NA	
June	229.478	1.570	12.63	NA	NA	NA	NA	NA	NA	

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

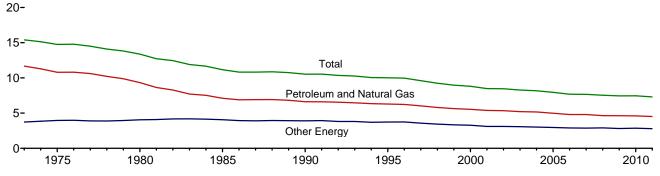
Columbia.

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

Sources: • Fuel Prices: Tables 9.4 (All Types), 9.8c, 9.9, and 9.11, adjusted by the CPI. • Consumer Price Index, All Urban Consumers: U.S. Department of Labor, Bureau of Labor Statistics, series ID CUUR0000SA0.

• Conversion Factors: Tables A1, A3, A4, and A6.

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



Note: See "Real Dollars" in Glossary.

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

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

	Ene	rgy Consumptior	1	Gross	Energy Consum	ption per Real Do	llar of GDF
	Petroleum and Natural Gas	Other Energy ^a	Total	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total
		Quadrillion Btu		Billion Chained (2005) Dollars	Thousand Btu	per Chained (200	5) Dollar
•							
973 Year	57.350	18.334	75.684	4,912.8	11.67	3.73	15.41
974 Year	55.186	18.776	73.962	4,885.7	11.30	3.84	15.14
75 Year	52.680	19.284	71.965	4,875.4	10.81	3.96	14.76
76 Year	55.523	20.452	75.975	5,136.9	10.81	3.98	14.79
977 Year	57.054	20.907	77.961	5,373.1	10.62	3.89	14.51
78 Year	57.963	21.987	79.950	5,672.8	10.22	3.88	14.09
979 Year	57.788	23.070	80.859	5,850.1	9.88	3.94	13.82
980 Year	54.440	23.627	78.067	5,834.0	9.33	4.05	13.38
981 Year	51.680	24.426	76.106	5.982.1	8.64	4.08	12.72
982 Year	48.588	24.511	73.099	5.865.9	8.28	4.18	12.46
983 Year	47.273	25.698	72.971	6,130.9	7.71	4.19	11.90
984 Year	49.447	27.185	76.632	6,571.5	7.52	4.14	11.66
985 Year	48.628	27.764	76.392	6,843.4	7.11	4.06	11.16
86 Year	48.790	27.857	76.647	7,080.5	6.89	3.93	10.83
987 Year	50.504	28.551	79.054	7,307.0	6.91	3.91	10.82
88 Year	52.671	30.038	82.709	7,607.4	6.92	3.95	10.87
989 Year	53.811	30.975	84.786	7,879.2	6.83	3.93	10.76
990 Year	53.155	31.330	84.485	8,027.1	6.62	3.90	10.52
91 Year	52.879	31.559	84.438	8,008.3	6.60	3.94	10.54
992 Year	54.239	31.544	85.783	8,280.0	6.55	3.81	10.36
993 Year	54.973	32.450	87.424	8,516.2	6.46	3.81	10.27
994 Year	56.289	32.803	89.091	8,863,1	6.35	3.70	10.05
95 Year	57.110	33.920	91.029	9,086.0	6.29	3.73	10.02
96 Year	58.760	35.262	94.022	9,425.8	6.23	3.74	9.97
997 Year	59.382	35.221	94.602	9,845.9	6.03	3.58	9.61
998 Year	59.646	35.372	95.018	10.274.7	5.81	3.44	9.25
999 Year	60.747	35.905	96.652	10,770.7	5.64	3.33	8.97
000 Year	62.086	36.729	98.814	11,216.4	5.54	3.27	8.81
001 Year	60.958	35.210	96.168	11,337.5	5.38	3.11	8.48
002 Year	61.734	35.911	97.645	11,543.1	5.35	3.11	8.46
003 Year	61.642	36.336	97.978	11,836.4	5.21	3.07	8.28
004 Year	63.215	36.947	100.162	12,246.9	5.16	3.02	8.18
005 Year	62.953	37.328	100.282	12,623.0	4.99	2.96	7.94
006 Year	62.194	37.435	99.629	12,958.5	4.80	2.89	7.69
007 Year	63.437	37.859	101.296	13,206.4	4.80	2.87	7.67
008 Year	61.123	38.152	99.275	13,161.9	4.64	2.90	7.54
009 Year	58.819	35.740	94.559	12,703.1	4.63	2.81	7.44
010 Year	60.266	37.401	97.667	13,088.0	4.60	2.86	7.46
011 Year	R 60.081	37.099	R 97.180	13,315.1	R 4.51	2.79	7.30

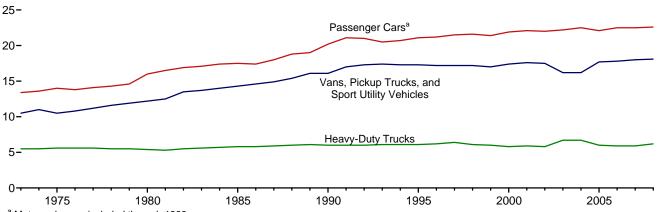
^a Coal, coal coke net imports, nuclear electric power, renewable energy, and electricity net imports.

R=Revised.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.
Sources: • Energy Consumption: Table 1.3. • Gross Domestic
Product: U.S. Department of Commerce, Bureau of Economic Analysis,
National Income and Product Accounts (June 28, 2012), Table 1.1.6.

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

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



^a Motorcycles are included through 1989.

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

Source: Table 1.8.

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

	Passenger Cars ^a				ns, Pickup Truc Sport Utility Veh		He	eavy-Duty Truck	(S ^C	All Motor Vehicles ^d			
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Economy (miles per gallon)										
1973	9,884	737	13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9	
1974	9,221	677	13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0	
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2	
1976	9,418	681	13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1	
1977	9,517	676	14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3	
1978	9,500	665	14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4	
1979	9,062	620	14.6	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5	
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3	
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6	
1982	9,050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9,644	686	14.1	
1983	9,118	534	17.1	10,497	767	13.7	21,083	3,769	5.6	9,760	686	14.2	
1984	9,248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5	
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6	
1986	9,464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7	
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1	
1988	9,972	531	18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6	
1989	^a 10,157	^a 533	^a 19.0	11,676	724	16.1	22,926	3,776	6.1	10,932	688	15.9	
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4	
1991	10,571	501	21.1	12,245	721	17.0	24,229	4,047	6.0	11,294	669	16.9	
1992	10,857	517	21.0	12,381	717	17.3	25,373	4,210	6.0	11,558	683	16.9	
1993	10,804	527	20.5	12,430	714	17.4	26,262	4,309	6.1	11,595	693	16.7	
1994	10,992	531	20.7	12,156	701	17.3	25,838	4,202	6.1	11,683	698	16.7	
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8	
1996	11,330	534	21.2	11,811	685	17.2	26,092	4,221	6.2	11,813	700	16.9	
1997	11,581	539	21.5	12,115	703	17.2	27,032	4,218	6.4	12,107	711	17.0	
1998	11,754	544	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721	16.9	
1999	11,848	553	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206	732	16.7	
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9	
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1	
2002	12,202	555	22.0	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9	
2003	12,325	556	22.2	11,287	697	16.2	28,093	4,215	6.7	12,208	718	17.0	
2004	12,460	553	22.5	11,184	690	16.2	27,023	4,057	6.7	12,200	714	17.1	
2005	12,510	567	22.1	10,920	617	17.7	26,235	4,385	6.0	12,082	706	17.1	
2006	12,485	554	22.5	10,920	612	17.8	25,231	4,304	5.9	12,017	698	17.2	
2007	12,304	547	22.5	10,962	609	18.0	25,152	4,275	5.9	11,920	693	17.2	
2008 ₽	11,788	522	22.6	10,951	605	18.1	25,254	4,075	6.2	11,619	667	17.4	

a Through 1989, includes motorcycles.

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

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

Sources: • Passenger Cars, 1990-1994: U.S. Department of Transportation, Bureau of Transportation Statistics, National Transportation Statistics 1998, Table 4-13. • All Other Data: • 1973-1994—Federal Highway Administration (FHWA), Highway Statistics Summary to 1995, Table VM-201A. • 1995 forward—FHWA, Highway Statistics, annual reports, Table VM-1.

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

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

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

Table 1.9 Heating Degree-Days by Census Division

			June				Jul	Cumulative y through J		
				Percent	Change				Percent	Change
Census Divisions	Normala	2011	2012	Normal to 2012	2011 to 2012	Normala	2011	2012	Normal to 2012	2011 to 2012
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	66	82	95	NM	NM	6,645	6,560	5,413	-19	-17
Middle Atlantic New Jersey, New York, Pennsylvania	39	21	37	NM	NM	5,943	5,778	4,736	-20	-18
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	50	40	45	NM	NM	6,531	6,549	5,222	-20	-20
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	49	42	28	NM	NM	6,784	6,873	5,414	-20	-21
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	7	1	7	NM	NM	2,868	2,929	2,226	-22	-24
East South Central Alabama, Kentucky, Mississippi, Tennessee	7	0	9	NM	NM	3,623	3,618	2,796	-23	-24
West South Central Arkansas, Louisiana, Oklahoma, Texas	1	0	1	NM	NM	2,299	2,212	1,792	-22	-19
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	82	62	32	NM	NM	5,232	4,928	4,619	-12	-6
Pacific ^b California, Oregon, Washington	76	96	63	NM	NM	3,243	3,356	3,113	-4	-7
U.S. Average ^b	39	35	33	NM	NM	4,547	4,528	3,723	-18	-18

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

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

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

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

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

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

b Excludes Alaska and Hawaii.

Table 1.10 Cooling Degree-Days by Census Division

			June			Cumulative January through June						
				Percent	Change				Percent	Change		
Census Divisions	Normala	2011	2012	Normal to 2012	2011 to 2012	Normala	2011	2012	Normal to 2012	2011 to 2012		
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	63	74	86	NM	NM	69	112	119	NM	NM		
Middle Atlantic New Jersey, New York, Pennsylvania	117	151	142	21	-6	140	220	211	51	-4		
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	147	161	204	39	27	198	235	310	57	32		
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	192	224	257	34	15	266	311	393	48	26		
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,	040						000					
West Virginia East South Central Alabama, Kentucky,	319	411	320	(s)	-22	680	900	830	22	-8		
Mississippi, Tennessee West South Central Arkansas, Louisiana, Oklahoma, Texas	296 431	399 581	325 496	10	-19 -15	489 858	675 1,224	665 1,159	36	-1 -5		
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	229	224	298	30	33	374	342	480	28	40		
Pacific ^b California, Oregon, Washington	100	59	81	-19	37	157	76	120	-24	58		
U.S. Average ^b	213	256	242	14	-5	375	475	487	30	3		

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

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

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.

⁽s)=Less than 0.5 percent and greater than -0.5 percent. NM=Not meaningful (because "Normal" is less than 100 or ratio is incalculable).

Energy Overview

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

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

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

Table 1.5 Sources

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

Petroleum Exports

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

1990–1992: "U.S. Merchandise Trade," Final Report. 1993–2011: "U.S. International Trade in Goods and Services," Annual Revision.

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

Petroleum Imports

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

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

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

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

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

Energy Exports and Imports

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

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

1989: Monthly FT-900, 1990 issues.

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

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

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

Petroleum, Energy, and Non-Energy Balances

Calculated by the U.S. Energy Information Administration.

Total Merchandise

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

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

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

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

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

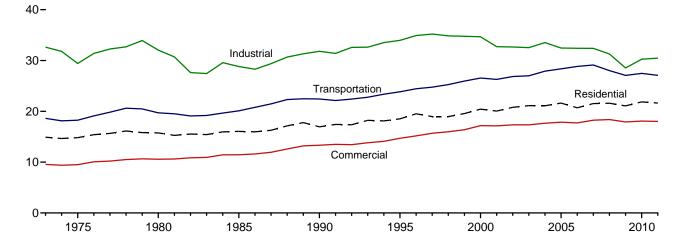
1992–2011: "U.S. International Trade in Goods and Services," Annual Revision.

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

2. Energy Consumption by Sector

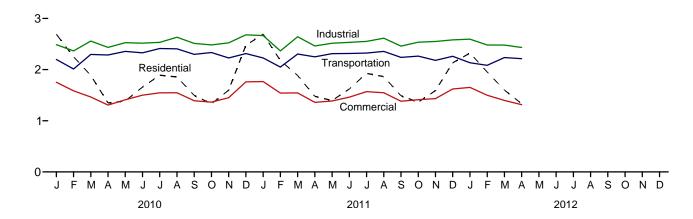
Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

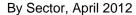
Total Consumption by End-Use Sector, 1973-2011

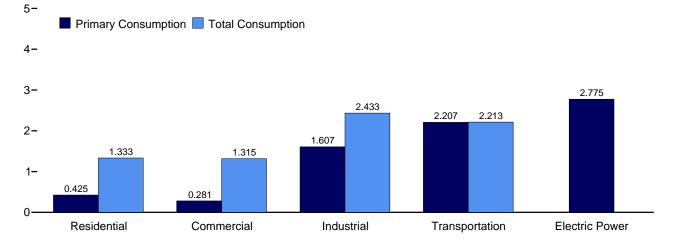


Total Consumption by End-Use Sector, Monthly

4-







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

Source: Table 2.1.

Table 2.1 Energy Consumption by Sector

(Trillion Btu)

				End-Use	Sectors				Electric		
	Resid	ential	Comme	erciala	Indus	strial ^b	Transpo	ortation	Power Sector ^{c,d}		
	Primarye	Total ^f	Primary ^e	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye	Balancing Item ^g	Primary Total ^h
1973 Total	8,225	14,897	4,423	9,543	24,720	32,623	18,577	18,613	19,731	7	75,684
1975 Total	7,990	14,813	4,059	9,492	21,434	29,413	18,210	18,245	20,270	1	71,965
1980 Total	7,439	15,753	4,105	10,578	22,595	32,039	19,659	19,697	24,269	-1	78,067
1985 Total 1990 Total	7,148 6.557	16,041 16,945	3,732 3,896	11,451 13,320	19,443 21,180	28,816 31,810	20,041 22,366	20,088 22,420	26,032 30,495	-4 -9	76,392 84.485
1995 Total	6,936	18,519	4,101	14,690	22,719	33,971	23,791	23,846	33,479	-9 3	91.029
1996 Total	7.467	19,504	4,273	15,172	23,410	34,904	24,383	24,437	34,485	4	94.022
1997 Total	7,033	18,965	4,295	15,681	23,686	35,200	24,695	24,750	34,886	6	94,602
1998 Total	6,413	18,955	4,005	15,968	23,177	34,843	25,201	25,256	36,225	-3	95,018
1999 Total	6,775	19,557	4,053	16,376	22,950	34,764	25,891	25,949	36,976	6	96,652
2000 Total	7,159	20,425	4,278	17,175	22,824	34,664	26,489	26,548	38,062	2	98,814
2001 Total	6,868	20,042	4,084	17,137	21,794	32,720	26,213	26,275	37,215	-6	96,168
2002 Total 2003 Total	6,912 7,211	20,791 21,110	4,132 4,283	17,345 17,343	21,799 21,503	32,662 32,532	26,781 26,920	26,842 26,994	38,016 38,062	5 -1	97,645 97,978
2004 Total	6.993	21,110	4,232	17,659	22,412	33,520	20,920 27,817	27,895	38,713	-1 -6	100,162
2005 Total	6,909	21,626	4,051	17,857	21,411	32,446	28,272	28,353	39,638	(s)	100,102
2006 Total	6,168	20,688	3,747	17,711	21,536	32,401	28,751	28,830	39,428	(s)	99.629
2007 Total	6,598	21,531	3,922	18,255	21,370	32,394	29,029	29,117	40,377	`- í	101,296
2008 Total	6,817	21,596	4,073	18,381	20,480	31,290	27,925	28,008	39,978	(s)	99,275
2009 Total	6,619	21,064	4,061	17,899	18,813	28,525	26,989	27,071	38,077	(s)	94,559
2010 January	1,142	2,691	617	1,752	1,695	2,487	2,190	2,198	3,484	4	9,132
February	985 737	2,250 1,887	548 419	1,585 1,465	1,601 1,752	2,365 2,557	2,004 2,290	2,012 2,297	3,073 3,008	1 -1	8,213 8,205
March April	439	1,007	277	1,465	1,752	2,557	2,290	2,297	2,755	-1 -2	7,372
May	328	1,347	226	1,410	1,612	2,527	2,349	2,356	3,163	(s)	7,678
June	268	1,659	198	1,501	1,608	2,517	2,320	2,328	3,611	2	8,008
July	240	1,889	182	1,546	1,618	2,532	2,404	2,411	3,934	4	8,383
August	232	1,855	186	1,547	1,707	2,633	2,399	2,406	3,917	4	8,445
September	237	1,494	189	1,390	1,671	2,512	2,291	2,298	3,306	(s)	7,694
October	343	1,331	256	1,364	1,644	2,482	2,327	2,333	2,942	-1	7,509
November	599	1,597	364	1,451	1,671	2,523	2,221	2,228	2,944	-1 1	7,797
December Total	1,054 6,603	2,476 21,862	579 4,039	1,761 18,078	1,802 20,003	2,679 30,250	2,307 27,384	2,314 27,466	3,488 39,626	11	9,231 97,667
2011 January	R 1.174	R 2.692	636	1.766	R 1.837	R 2.665	2,220	2,227	3.483	1	R 9.351
February	R 953	R 2,179	531	1,540	R 1,600	R 2,364	2,042	2,049	3,006	-1	R 8,131
March	R 774	R 1,886	448	R 1,544	R 1,787	R 2,642	2,297	2,304	3,070	-3	R 8,373
April	480	^R 1,478	298	1,359	R 1,622	R 2,462	R 2,242	2,249	2,905	-2	^R 7,545
May	329	1,396	221	1,387	R 1,633	R 2,515	2,306	R 2,312	3,121	R -1	R 7,609
June	261	R 1,621	193	1,462	R 1,639	R 2,533	2,308	2,315	3,530	1	R 7,932
July	239 250	1,925 1,863	185 202	1,569 1,548	R 1,616 R 1,695	^R 2,552 ^R 2,614	2,316 R 2,349	2,323 2,356	4,012 3,885	5 3	^R 8,373 ^R 8,384
August September	R 263	1,488	R 211	1,346	1,629	R 2,459	2,232	2,338	3,232	-1	7,567
October	382	1,364	293	1,411	R 1,675	2,536	2,257	2,264	2,967	-2	7.573
November	594	1,589	367	1,434	1,699	R 2,549	2,175	2,181	2,919	-3	7,751
December	885	2,132	504	1,621	1,736	2,581	2,253	2,260	3,215	-3	8,592
Total	^R 6,583	R 21,616	4,089	18,020	R 20,169	R 30,471	R 26,998	R 27,078	39,346	-5	^R 97,180
2012 January	1,008	2,323	560	1,652	R 1,777	R 2,595	R 2,127	2,133	3,232	-2	8,701
February	848	1,954	484	1,499	R 1,685	2,481	2,077	2,083	2,924	-3	R 8,015
March	575 425	1,599 1,333	348 281	1,397	^R 1,648 1,607	R 2,480 2,433	2,230 2,207	2,236 2,213	2,911 2,775	-5 -7	^R 7,706 7,287
April 4-Month Total	2, 856	7,209	1,672	1,315 5,863	6,717	2,433 9,988	2,207 8,640	8,666	2,775 11,842	-7 -18	7,287 31,709
2011 4-Month Total 2010 4-Month Total	3,380 3,303	8,234 8,175	1,913 1,860	6,209 6,108	6,847 6,671	10,134 9,844	8,802 8,764	8,829 8,792	12,464 12,321	-5 3	33,401 32,922

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

²² category whose primary business is to sell electricity, or electricity and read, at the public.

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

^e See "Primary Energy Consumption" in Glossary.

^f Total energy consumption in the end-use sectors consists of primary energy consumption, electricity retail sales, and electrical system energy losses. See Note 2, "Electrical System Energy Losses," at end of section.

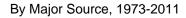
⁹ A balancing item. The sum of primary consumption in the five energy-use sectors equals the sum of total consumption in the four end-use sectors. However, total energy consumption does not equal the sum of the sectoral components due to the use of sector-specific conversion factors for coal and natural gas.

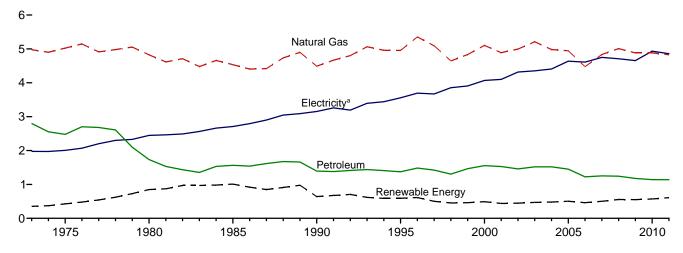
h Primary energy consumption total. See Table 1.3.

R=Revised. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu. Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973.

Sources: Tables 1.3 and 2.2–2.6.

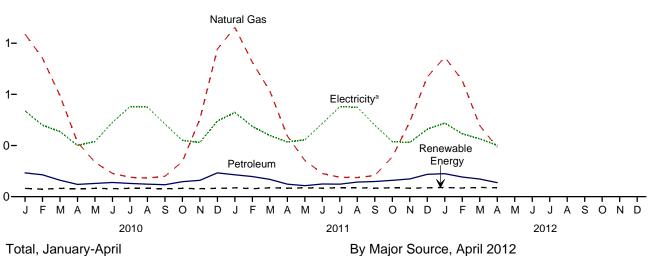
Figure 2.2 Residential Sector Energy Consumption (Quadrillion Btu)

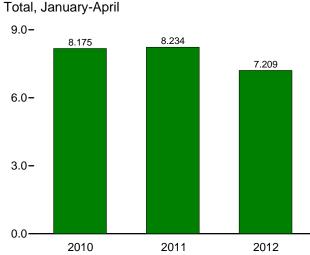


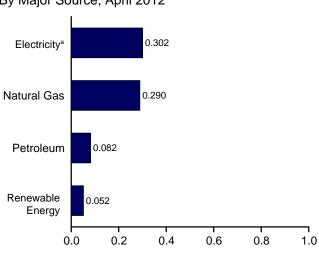


By Major Source, Monthly

1-







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

Table 2.2 Residential Sector Energy Consumption

(Trillion Btu)

				Prima	ry Consum	ptiona						
		Fossil	Fuels			Renewal	ble Energy ^b			Floot-1-1	Electrical	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Electricity Retail Sales	System Energy Losses ^e	Total
1973 Total 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1999 Total 2001 Total 2002 Total	94 63 31 39 31 17 17 16 12 14 11 12 12	4,977 5,023 4,825 4,534 4,491 4,954 5,093 4,646 4,835 5,105 4,889 4,995 5,209	2,800 2,479 1,734 1,565 1,394 1,484 1,422 1,304 1,465 1,554 1,554 1,559 1,457	7,871 7,564 6,589 6,138 5,916 6,854 6,531 5,962 6,314 6,670 6,430 6,464 6,741	NA NA NA 67 78 8 9 9	NA NA NA 56 64 65 64 63 61 59 57	354 425 850 1,010 580 520 540 430 380 390 420 370 380 400	354 425 850 1,010 641 591 612 502 452 461 489 438 448	8,225 7,990 7,439 7,148 6,557 6,936 7,467 7,033 6,413 6,775 7,159 6,868 6,912 7,211	1,976 2,007 2,448 2,709 3,153 3,557 3,694 3,671 3,856 3,906 4,100 4,317 4,353	4,696 4,817 5,866 6,184 7,235 8,026 8,344 8,261 8,686 8,875 9,197 9,074 9,562 9,546	14,897 14,813 15,753 16,041 16,945 18,519 19,504 18,965 18,965 19,557 20,425 20,042 20,791 21,110
2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	11 8 6 8 8	4,981 4,946 4,476 4,835 5,010 4,883	1,520 1,451 1,224 1,254 1,243 1,176	6,513 6,406 5,706 6,097 6,261 6,067	14 16 18 22 26 33	57 58 63 70 80 89	410 430 380 410 450 430	481 504 462 502 557 552	6,993 6,909 6,168 6,598 6,817 6,619	4,408 4,638 4,611 4,750 4,708 4,656	9,691 10,079 9,909 10,182 10,071 9,789	21,093 21,626 20,688 21,531 21,596 21,064
Pebruary February April May June July August September October November December Total	1 1 (s) (s) 1 1 (s) 1 7	953 812 592 320 201 137 114 109 120 206 456 865 4,883	140 128 96 72 78 83 78 74 70 88 96 140	1,094 941 689 392 280 221 192 183 190 294 552 1,006 6,032	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10 9 10 9 10 9 10 10 9 10 9	36 32 36 35 36 35 36 36 35 36 35 36 420	48 44 48 47 48 47 48 48 47 48 47 48 571	1,142 985 737 439 328 268 240 232 237 343 599 1,054 6,603	503 419 381 300 324 435 528 526 425 330 318 444 4,933	1,045 846 768 608 734 956 1,121 1,098 832 658 680 978 10,326	2,691 2,250 1,887 1,347 1,386 1,659 1,889 1,855 1,494 1,331 1,597 2,476 21,862
Petron June July August September October November December Total	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 993 787 619 R 356 212 136 114 112 124 234 439 702 R 4,828	129 118 102 73 64 74 73 86 89 96 104 131	R 1,122 R 906 R 722 R 430 277 211 R 187 198 R 213 330 544 834 R 5,973	3 3 3 3 3 3 3 3 3 3 40	12 11 12 12 12 12 12 12 12 12 12 12 140	37 33 37 35 37 35 37 37 37 35 37 35 37 430	52 47 52 50 52 50 52 52 50 52 50 52 50 52	R 1,174 R 953 R 774 480 329 261 239 250 R 263 382 594 885 R 6,583	494 412 358 321 334 430 528 524 419 323 318 396 4,858	1,023 814 754 677 733 931 1,158 1,089 806 659 678 851	R 2,692 R 2,179 R 1,886 R 1,478 1,396 R 1,621 1,925 1,863 1,488 1,364 1,589 2,132 R 21,616
2012 January February March April 4-Month Total	1 (s) 1 2	818 682 417 290 2,207	135 115 103 82 436	954 798 521 373 2,645	3 3 3 3 13	14 13 14 14 56	36 34 36 35 142	54 51 54 52 211	1,008 848 575 425 2,856	432 369 339 302 1,441	884 737 685 606 2,911	2,323 1,954 1,599 1,333 7,209
2011 4-Month Total 2010 4-Month Total	3 3	2,755 2,677	421 436	3,179 3,116	13 12	46 38	141 138	201 188	3,380 3,303	1,586 1,604	3,268 3,268	8,234 8,175

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

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

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

Notes: • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding.

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

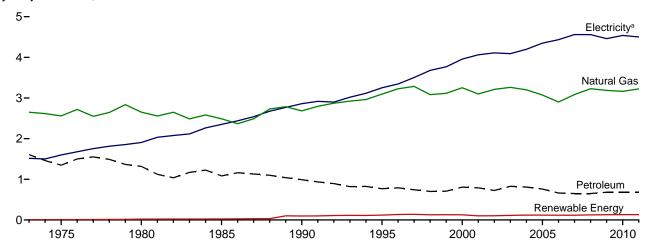
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973.

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

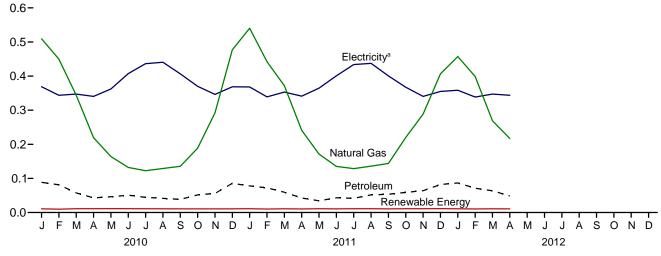
a See "Primary Energy Consumption" in Glossary.
 b Data are estimates. See Table 10.2a for notes on series components.
 c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 d Electricity retail sales to ultimate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

Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)

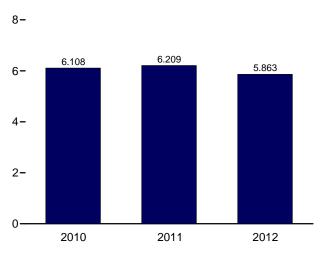




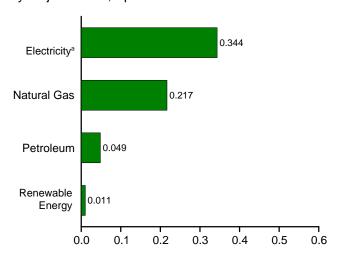
By Major Source, Monthly







By Major Source, April 2012



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

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

	1111101112	,			Primary	Consump	tiona							
		Fossi	l Fuels			R	enewabl	e Energy	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	System Energy Losses ⁹	Total
1973 Total 1975 Total 1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total	160 147 115 137 124 117 122 129 93 103 92 97 90 82 2103 97 65 70	2,649 2,558 2,651 2,488 2,685 3,096 3,226 3,285 3,115 3,252 3,097 3,212 3,261 3,201 3,073 2,902 3,085	1,607 1,346 1,318 1,083 991 769 743 702 707 807 790 726 827 761 829 761 663 649	4,416 4,051 4,084 3,708 3,798 4,138 4,157 3,878 3,925 4,150 3,984 4,028 4,170 4,113 3,932 3,629 3,805	NA N	NA NA NA 35 56 67 7 88 8 9 11 14 14 14 14	NA NA NA 	NA NA NA 	7 8 21 24 94 113 129 131 118 121 119 92 95 101 105 103 103 103	7 8 21 24 98 118 135 127 129 128 101 104 113 118 120 118 118	4,423 4,059 4,105 3,732 3,896 4,101 4,273 4,295 4,005 4,053 4,078 4,084 4,132 4,283 4,283 4,232 4,051 3,747 3,922	1,517 1,598 1,906 2,351 2,860 3,252 3,344 3,503 3,678 3,976 4,062 4,110 4,090 4,198 4,351 4,456	3,604 3,835 4,567 5,368 6,568 7,338 7,555 7,883 8,285 8,557 8,942 8,990 9,104 8,969 9,455 9,529 9,773	9,543 9,492 10,578 11,451 13,320 15,172 15,681 15,968 16,376 17,175 17,137 17,345 17,345 17,659 17,857 17,857 17,711
2008 Total 2009 Total	69 63	3,228 3,187	651 682	3,948 3,932	1	15 17	(s) (s)	(s)	109 112	125 129	4,073 4,061	4,558 4,460	9,749 9,378	18,381 17,899
Pebruary February March April May June July August September October November December Total	8 7 6 4 4 4 4 5 5 6 60	509 450 344 220 164 132 123 129 135 189 292 477 3,164	89 81 58 43 46 51 44 41 39 52 56 85	606 538 407 266 214 187 171 175 178 245 353 568 3,908	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 1 2 1 2	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	9 8 9 10 9 10 9 9 9 9 111	11 10 11 11 12 11 11 11 11 11 10 11	617 548 419 277 226 198 182 186 189 256 364 579 4,039	369 344 347 340 362 407 436 441 406 370 346 369 4,539	766 699 689 822 896 927 920 795 738 741 813 9,501	1,752 1,585 1,465 1,307 1,410 1,501 1,546 1,547 1,390 1,364 1,451 1,761 18,078
2011 January February March April May June July August September October November December Total	7 6 6 4 4 4 3 3 3 3 4 4 5 5	540 442 372 241 171 135 129 136 144 220 288 406	78 72 60 43 34 43 42 52 54 59 64 82 683	625 521 437 287 210 182 174 191 201 282 356 493 R 3,959	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	9 9 9 9 9 9 9 10 110	11 10 11 10 11 11 11 11 11 11 11 11	636 531 448 298 221 193 185 202 R 211 293 367 504 4,089	368 339 353 341 365 401 434 437 401 367 340 355 4,501	762 670 742 720 802 868 950 908 770 751 726 762 9,429	1,766 1,540 R 1,544 1,359 1,387 1,462 1,569 1,548 1,382 1,411 1,434 1,621 18,020
2012 January	5 4 4 4 17	457 399 269 217 1,342	87 71 64 49 270	549 474 337 270 1,629	(s) (s) (s) (s) (s)	2 2 2 2 7	(s) (s) (s) (s)	(s) (s) (s) (s)	9 9 9 9 36	11 10 11 11 43	560 484 348 281 1,672	359 339 347 344 1,388	734 676 702 691 2,803	1,652 1,499 1,397 1,315 5,863
2011 4-Month Total 2010 4-Month Total	23 24	1,595 1,523	253 270	1,871 1,817	(s) (s)	6 6	(s) (s)	(s) (s)	35 36	43 43	1,913 1,860	1,402 1,400	2,894 2,848	6,209 6,108

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of R=Revised. NA=Not available. – =No data reported. (s)=Less than 0.5 trillion

• The commercial sector includes commercial combined-heat-and-Notes: power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

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

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

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

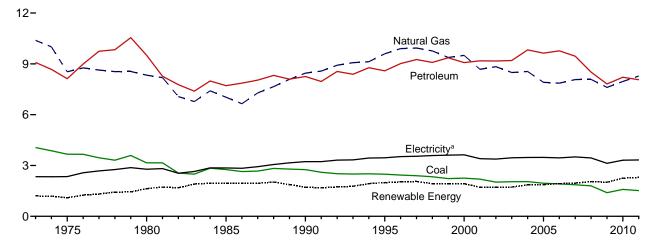
Conventional hydroelectric power.

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

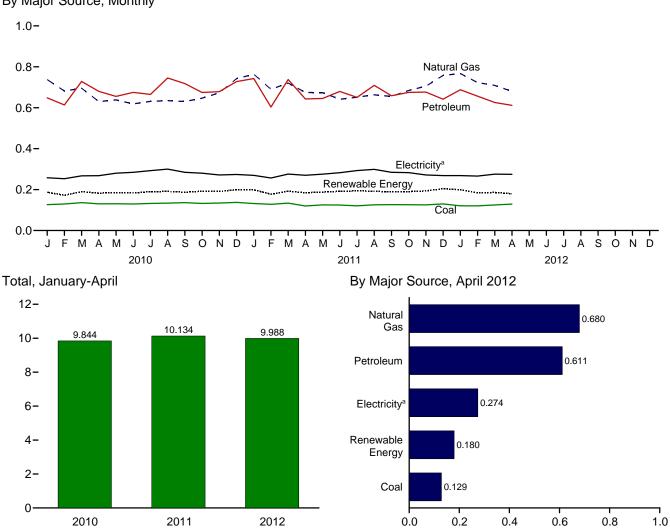
Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

By Major Source, 1973-2011



By Major Source, Monthly



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

Table 2.4 Industrial Sector Energy Consumption

(Trillion Btu)

	(11111101	i Diu)												
					Primar	y Consun	nptiona							
		Fossi	I Fuels			ا	Renewabl	e Energy	b			Elec-	Electrical	
	Coal	Natural Gas ^c	Petro- leum ^d	Total ^e	Hydro- electric Power ^f	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	tricity Retail Sales ⁹	System Energy Lossesh	Totale
1973 Total	4.057	10.388	9.083	23.521	35	NA	NA	NA	1.165	1.200	24.720	2.341	5,562	32.623
1975 Total	3,667	8,532	8,127	20,339	32	NA	NA	NA	1,063	1,096	21,434	2,346	5,632	29,413
1980 Total	3,155	8,333	9,509	20,962	33	NA	NA	NA	1,600	1,633	22,595	2,781	6,664	32,039
1985 Total	2,760	7,032	7,714	17,492	33	NA	NA	NA	1,918	1,951	19,443	2,855	6,518	28,816
1990 Total	2,756	8,451	8,251	19,463	31	2	-	-	1,684	1,717	21,180	3,226	7,404	31,810
1995 Total	2,488 2,434	9,592 9,901	8,586 9,019	20,727	55 61	3 3	-	_	1,934 1,969	1,992 2,033	22,719 23,410	3,455 3,527	7,796	33,971 34,904
1996 Total 1997 Total	2,434	9,933	9,019	21,377 21,629	58	3	_	_	1,909	2,055	23,686	3,542	7,968 7,972	35,200
1998 Total	2,335	9,763	9,082	21,248	55	3	_	_	1,872	1,929	23,177	3,587	8,079	34,843
1999 Total	2,227	9,375	9,356	21,016	49	4	_	_	1,882	1,934	22,950	3,611	8,203	34,764
2000 Total	2,256	9,500	9,075	20,896	42	4	-	_	1,881	1,928	22,824	3,631	8,208	34,664
2001 Total	2,192	8,676	9,178	20,075	33	5	-	-	1,681	1,719	21,794	3,400	7,526	32,720
2002 Total	2,019	8,832	9,168	20,079	39	5	-	-	1,676	1,720	21,799	3,379	7,484	32,662
2003 Total	2,041	8,488	9,197	19,777	43	3	-	-	1,679	1,726	21,503	3,454	7,575	32,532
2004 Total 2005 Total	2,047 1.954	8,550 7,907	9,825 9,633	20,559 19,538	33 32	4	_	_	1,817 1,837	1,853 1,873	22,412 21,411	3,473 3,477	7,635 7,557	33,520 32,446
2006 Total	1,914	7,861	9,770	19,606	29	4	_	_	1,897	1,930	21,536	3,451	7,415	32,440
2007 Total	1.865	8.074	9,451	19,414	16	5	_	_	1,936	1,956	21,370	3,507	7,517	32,394
2008 Total	1,796	8,083	8,511	18,431	17	5	_	_	2,028	2,049	20,480	3,444	7,365	31,290
2009 Total	1,396	7,609	7,816	16,797	18	4	-	_	1,994	2,016	18,813	3,130	6,582	28,525
2010 January	126	737	648	1,508	2	(s)	(s)	_	185	187	1,695	258	535	2,487
February	130	681	614	1,429	2	(s)	(s)	-	170	172	1,601	253	511	2,365
March	136 130	695 630	728 680	1,562 1,441	2 2	(s)	(s)	_	188 181	190 183	1,752 1,624	267 268	538 543	2,557
April May	131	638	655	1,441	2	(s) (s)	(s) (s)	_	183	185	1,624	280	635	2,435 2,527
June	130	619	675	1,424	1	(s)	(s)	_	182	183	1,608	284	625	2,517
July	132	631	665	1,429	1	(s)	(s)	_	188	190	1,618	292	621	2,532
August	134	635	745	1,515	1	(s)	(s)	-	190	191	1,707	300	626	2,633
September	136	630	718	1,484	1	(s)	(s)	-	185	187	1,671	284	557	2,512
October	132	647	675	1,452	1	(s)	(s)	-	190	192	1,644	280	559	2,482
November	134	672	679	1,479	1	(s)	(s)	-	190	191	1,671	272	581	2,523
December Total	138 1,590	742 7,959	728 8,210	1,602 17,753	1 16	(s) 4	(s) (s)	_	198 2,230	199 2,250	1,802 20,003	274 3,313	604 6,934	2,679 30,250
2011 January	132	^R 764	742	R 1,638	1	(s)	(s)	(s)	197	199	R 1,837	270	558	R 2,665
February	128	R 690	604	R 1,422	2	(s)	(s)	(s)	176	178	R 1,600	257	508	R 2,364
March	134	R 721	738	R 1,595	2	(s)	(s)	(s)	190	192	R 1,787	276	580	R 2,642
April	120	R 675	643	R 1,438	2	(s)	(s)	(s)	182	185	R 1,622	270	569	R 2,462
May	125 124	^R 674 ^R 641	645 680	^R 1,446 ^R 1,447	2 1	(s)	(s)	(s)	185 190	187 192	R 1,633 R 1,639	275 282	606	R 2,515 R 2,533
June July	124	R 651	651	R 1,447	1	(s) (s)	(s) (s)	(s) (s)	190	192	R 1,639	282	611 642	R 2,552
August	126	R 663	709	R 1.502	1	(s)	(s)	(s)	191	192	R 1.695	299	620	R 2,614
September	126	R 655	658	R 1,440	i	(s)	(s)	(s)	187	188	1,629	284	546	R 2,459
October	126	^R 684	675	R 1,485	1	(s)	(s)	(s)	189	190	R 1,675	283	578	2,536
November	125	705	677	1,505	1	(s)	(s)	(s)	192	194	1,699	271	579	R 2,549
December	130	758	642	1,532	2	(s)	(s)	(s)	202	204	1,736	268	576	2,581
Total	1,518	R 8,282	8,064	R 17,874	18	4	(s)	(s)	2,273	2,295	R 20,169	3,329	6,973	R 30,471
2012 January February	121 121	767 ^R 723	688 656	^R 1,578 ^R 1,500	2	(s) (s)	(s) (s)	(s) (s)	197 183	199 185	^R 1,777 ^R 1,685	268 266	549 531	R 2,595 2,481
March	125	R 709	626	R 1,462	2	(S)	(S) (S)	(S) (S)	184	186	R 1,648	275	556	R 2,480
April	129	680	611	1,427	2	(s)	(s)	(s)	178	180	1,607	274	552	2,433
4-Month Total	495	2,879	2,581	5,967	7	1	(s)	(s)	741	750	6,717	1,084	2,188	9,988
2011 4-Month Total 2010 4-Month Total	514 523	2,849 2,744	2,727 2,670	6,093 5,940	7 7	1	(s) (s)	(s) _	745 724	753 732	6,847 6,671	1,072 1,046	2,215 2,127	10,134 9,844

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

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

Notes: • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. States and the District of Columbia.

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

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

a See "Primary Energy Consumption" in Glossary.
 b Most data are estimates. 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.

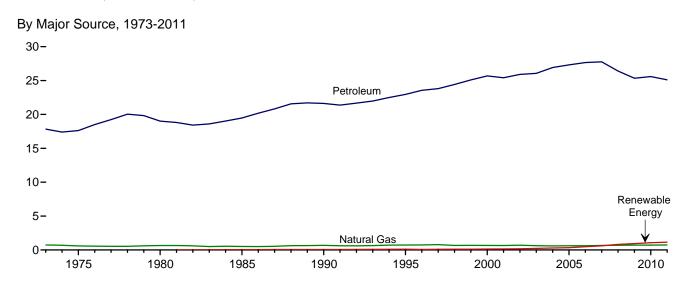
d Does not include biofuels that have been blended with petroleum—

Dues not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
 Includes coal coke net imports, which are not separately displayed. See Tables 1.4a and 1.4b.
 Conventional hydroelectric powers.

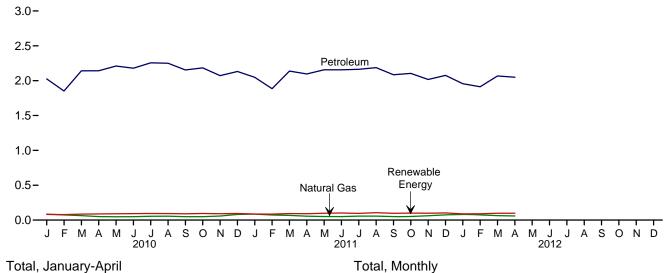
Conventional hydroelectric power.

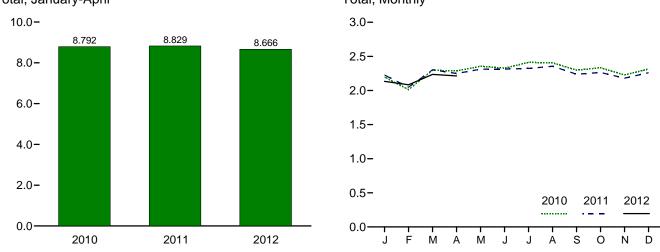
G Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are

Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)



By Major Source, Monthly





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

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Table 2.5 Transportation Sector Energy Consumption

(Trillion Btu)

			Primary Cor	nsumption ^a					
		Fossi	l Fuels		Renewable Energy ^b	Total	Electricity Retail	Electrical System Energy	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Primary	Sales	Losses	Total
1973 Total	3	743	17,832	18,577	NA	18,577	11	25	18,613
1975 Total	1	595	17,615	18,210	NA	18,210	10	24	18,245
1980 Total	(g)	650	19,009	19,659	NA	19,659	11	27	19,697
1985 Total	(g)	519	19,472	19,992	50	20,041	14	32	20,088
1990 Total	(g)	680	21,626	22,306	60	22,366	16	37	22,420
1995 Total	(g) (g)	724	22,955	23,679	112	23,791	17	38	23,846
1996 Total	(g)	737 780	23,565	24,302	81 102	24,383	17 17	38 38	24,437
1997 Total	(9)	780 666	23,813 24,422	24,593 25,088	102	24,695 25,201	17	38 38	24,750 25,256
1998 Total 1999 Total	(9)	675	24,422 25,098	25,000 25,774	118	25,201 25,891	17	36 40	25,256 25,949
2000 Total	(g)	672	25,682	26,354	135	26,489	18	40 42	26,548
2001 Total	(g)	658	25,412	26,070	142	26,213	20	43	26,275
2002 Total	(g)	699	25,913	26,612	170	26,781	19	42	26,842
2003 Total	} g {	627	26,063	26,690	230	26,920	23	51	26.994
2004 Total	\g'\	602	26,925	27,527	290	27,817	25	54	27,895
2005 Total	}g;	624	27,309	27.933	339	28,272	26	56	28,353
2006 Total	(g)	625	27,651	28,276	475	28,751	25	54	28,830
2007 Total	(g)	663	27,763	28,427	602	29,029	28	60	29,117
2008 Total	(g)	692	26,407	27,099	826	27,925	26	56	28,008
2009 Total	(g)	715	25,339	26,054	935	26,989	27	56	27,071
2010 January	(g)	84	2,025	2,109	81	2,190	2	5	2,198
February	(g)	74	1,851	1,926	79	2,004	2	5	2,012
March	(g)	64	2,141	2,205	85	2,290	2	5	2,297
April	(g)	50	2,142	2,193	87	2,280	2	4	2,286
May	(g)	48	2,209	2,257	92	2,349	2	5	2,356
June	(g)	49	2,179	2,228	93	2,320	2	5	2,328
July	(9)	54	2,256	2,310	94	2,404	2	5	2,411
August	(g)	56	2,250	2,306	94	2,399	2	4	2,406
September	(g)	48	2,153	2,202	90	2,291	2	4	2,298
October	(g) (g)	49	2,184	2,233	94	2,327	2	4	2,333
November	(9)	59	2,072	2,131	91	2,221	2	4	2,228
December Total	(g)	81 716	2,132 25,595	2,213 26,310	94 1,074	2,307 27,384	2 26	5 55	2,314 27,466
	` ,	20			*	*	2	-	
2011 January	(g) (g)	86 73	2,048 1,884	^R 2,133 1,957	86 85	2,220 2,042	2 2	5 4	2,227 2,049
February	(9)	73 67	2,137	2,204	93	2,042	2	5	2,049
March April	(9)	55	2,137	2,204	93 91	R 2,242	2	5 4	2,304 2,249
May	(g)	51	2,156	2,132	99	2,306	2	5	R 2,312
June	(9)	50	2,156	2,207	102	2,308	2	5	2,315
July	(9)	57	2,163	2,220	96	2,316	2	5	2,323
August	(9)	57	2,187	2.244	106	R 2.349	2	4	2,356
September	(g)	50	2,085	2.135	97	2.232	2	4	2,238
October	(g)	53	2,104	2,157	100	2,257	2	4	2,264
November	(g)	61	2,017	2,077	98	2,175	2	4	2,181
December	(g)	75	2,076	2,151	102	2,253	2	5	2,260
Total	(g)	R 734	25,110	R 25,843	1,154	R 26,998	26	54	R 27,078
2012 January	(g)	81	1,956	2,038	89	R 2,127	2	5	2,133
February	(g)	74	1,912	1,986	90	2,077	2	4	2,083
March	(9)	64	2,068	2,132	98	2,230	2	4	2,236
April	(9)	59	2,050	2,108	99	2,207	2	.4	2,213
4-Month Total	(g)	278	7,986	8,264	376	8,640	9	17	8,666
2011 4-Month Total 2010 4-Month Total	(g)	280 272	8,166 8,160	8,446 8,432	355 332	8,802 8,764	9 9	18 18	8,829 8,792

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

9 Beginning in 1978, the small amounts of coal consumed for transportation are

Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.
 R=Revised. NA=Not available.
 Notes: • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding.
 Geographic coverage is the 50 States and the District of Columbia.
 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973.
 Sources: Tables 2.6, 3.8c, 4.3, 6.2, 7.6, 10.2b, A4, A5, and A6.

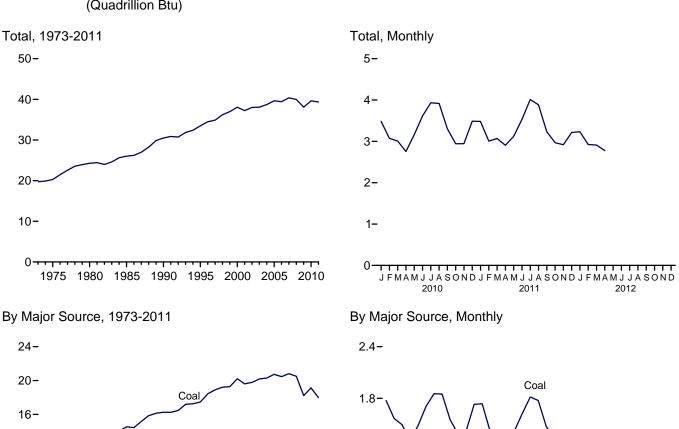
<sup>a See "Primary Energy Consumption" in Glossary.
b Data are estimates. See Table 10.2b for notes on series components.
c Natural gas only; does not include supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
Does not include biofuels that have been blended with petroleum—biofuels represent "</sup>

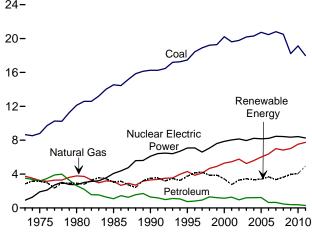
Does not include blottels that have been blended with petroleum—blottels are included in "Blomass."

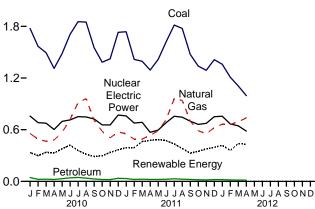
^e Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.

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

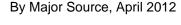
Figure 2.6 Electric Power Sector Energy Consumption (Quadrillion Btu)

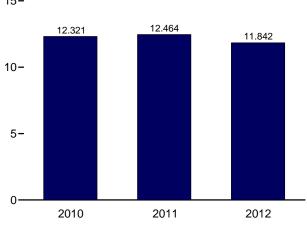


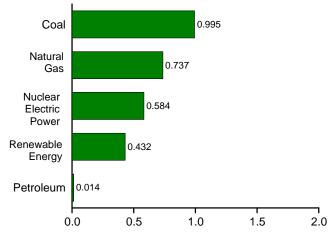












Web Page: $\label{lem:http://www.eia.gov/totalenergy/data/monthly/\#consumption.} \\ \text{Source: Table 2.6.}$

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Electric Power Sector Energy Consumption Table 2.6

(Trillion Btu)

						Prima	ry Consum	ptiona					
		Fossil	Fuels					Renewabl	e Energy ^b				
	Coal	Natural Gas ^c	Petro- leum	Total	Nuclear Electric Power	Hydro- electric Power ^d	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Elec- tricity Net Imports	Total Primary
1973 Total	8,658	3,748	3,515	15,921	910	2,827	20	NA	NA	3	2,851	49	19,731
1975 Total	8,786	3,240	3,166	15,191	1,900	3,122	34	NA	NA	2	3,158	21	20,270
1980 Total	12,123	3,778	2,634	18,534	2,739	2,867	53	NA	NA	4	2,925	71	24,269
1985 Total		3,135	1,090	18,767	4,076	2,937	97	(s)	(s)	14	3,049	140	26,032
1990 Totale		3,309	1,289	20,859	6,104	3,014	161	4	29	317	3,524		30,495
1995 Total	17,466	4,302	755	22,523	7,075	3,149	138	5	33	422	3,747	134	33,479
1996 Total	18,429	3,862	817	23,109	7,087	3,528	148	5	33	438	4,153	137	34,485
1997 Total	18,905	4,126	927 1.306	23,957 25,197	6,597	3,581	150 151	5 5	34 31	446 444	4,216	116 88	34,886
1998 Total 1999 Total	19,216 19,279	4,675 4,902	1,211	25,197	7,068 7,610	3,241 3,218	152	5 5	46	453	3,872 3,874	99	36,225 36,976
2000 Total	20.220	5,293	1,144	26,658	7,862	2.768	144	5	57	453 453	3,674	115	38.062
2001 Total	19,614	5,458	1,277	26,348	8.029	2,209	142	6	70	337	2.763	75	37,215
2002 Total	19,783	5,767	961	26,511	8,145	2,650	147	6	105	380	3,288	72	38,016
2003 Total		5,246	1,205	26,636	7,959	2,781	148	5	115	397	3,445	22	38,062
2004 Total		5,595	1,212	27,112	8,222	2,656	148	6	142	388	3,340	39	38,713
2005 Total	20,737	6,015	1,235	27,986	8,161	2,670	147	6	178	406	3,406	85	39,638
2006 Total	20,462	6,375	648	27,485	8,215	2,839	145	5	264	412	3,665	63	39,428
2007 Total		7,005	657	28,470	8,455	2,430	145	6	341	423	3,345	107	40,377
2008 Total		6,829	468	27,810	8,427	2,494	146	9	546	435	3,630	112	39,978
2009 Total	18,225	7,022	390	25,638	8,356	2,650	146	9	721	441	3,967	116	38,077
2010 January	1,775	557	45	2,377	758	217	13	(s)	67	39	335	14	3,484
February	1,568	489	23	2,080	682	199	11	(s)	53	36	300	12	3,073
March	1,494	466	25	1,984	676	202	13	1	84	39	338	10	3,008
April	1,312	480 570	23 31	1,815	602	184 243	12	1	95 85	36 36	329 378	9 5	2,755
May	1,483 1,708	719	41	2,084 2,468	697 714	243 290	13 12	2	79	39	421	9	3,163 3,611
June July	1,706	914	46	2,400	714 752	238	12	2	66	40	358	10	3,934
August	1,849	961	37	2,847	748	195	13	2	65	41	315	6	3,917
September	1,554	709	28	2,291	725	168	12	1	69	38	288	2	3,306
October	1,383	581	22	1,986	656	171	12	i	77	37	298	1	2.942
November	1,423	506	21	1,950	655	190	12	i	95	39	337	3	2,944
December	1,731	575	36	2,341	770	225	13	(s)	88	41	367	9	3,488
Total	19,133	7,527	378	27,039	8,434	2,521	148	12	923	459	4,064	89	39,626
2011 January	1,737	552	33	2,323	760	254	14	(s)	84	38	391	9	3,483
February	1,417	491	23	1,931	677	239	13	1	103	35	390	8	3,006
March	1,395	491	26	1,912	686	308	14	1	103	38	463	8	3,070
April	1,293	535	23	1,851	570	307	13	2	121	33	476	7	2,905
May	1,416	589	22	2,027	596	321	14	2	113	35	486	12	3,121
June	1,621	718	25 31	2,364 2,805	682	313 307	13	2 2	106 72	38 40	473 434	11	3,530
July	1,816 1,776	959 940	25	2,805 2,741	756 746	307 256	13 13	2	72 72	39	383	16 16	4,012 3,885
August September	1,776	699	23	2,741	699	209	13	2	67	39 37	327	10	3,232
October	1,339	589	19	1,946	662	194	14	2	104	36	349	10	2,967
November	1,289	553	17	1,860	674	207	13	1	120	36	377	8	2,919
December	1,413	624	20	2.057	751	239	14	1	102	39	396	12	3,215
Total	17,986	7,740	288	26,014	8,259	3,153	163	18	1,168	444	4,945	127	39,346
2012 January	1,360	663	21	2,045	757	232	14	1	135	38	420	11	3,232
February	1,210	661	17	1,888	667	201	13	1	108	35	359	.9	2,924
March	1,108	692	15	1,816	645	255	14	2	132	37	440	10	2,911
April	995	737	14	1,747	584	259	13	3	123	33	432	13	2,775
4-Month Total	4,673	2,754	68	7,495	2,653	947	55	7	498	144	1,650	43	11,842
2011 4-Month Total 2010 4-Month Total	5,842 6,148	2,070 1,992	105 116	8,017 8,256	2,694 2,718	1,107 802	55 49	4 2	411 299	144 150	1,721 1,302	33 45	12,464 12,321

NA=Not available. (s)=Less than 0.5 trillion Btu.
Notes: • Data are for fuels consumed to produce electricity and useful thermal

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

a See "Primary Energy Consumption" in Glossary.
b See Table 10.2c for notes on series components.
c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
d Conventional hydroelectric power.
f Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.

output. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Energy Consumption by Sector

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

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

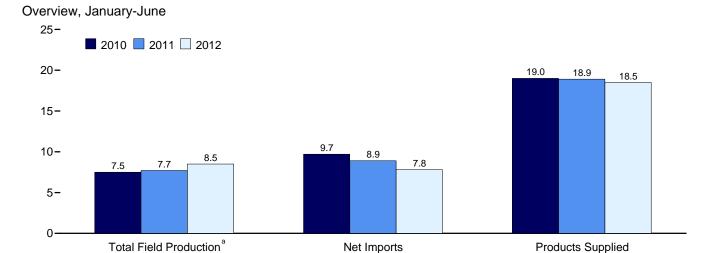
those differences, see Energy Consumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys, DOE/EIA-0533, U.S. Energy Information Administration, Washington, DC, April 6, 1990.

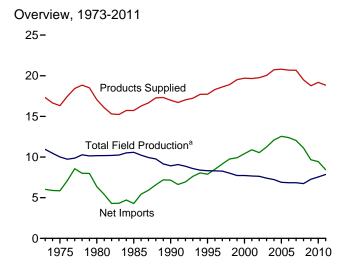
Note 2. Electrical System Energy Losses. Electrical system energy losses are calculated as the difference between total primary consumption by the electric power sector (see Table 2.6) and the total energy content of electricity retail sales (see Tables 7.6 and A6). Most of these losses occur at steam-electric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

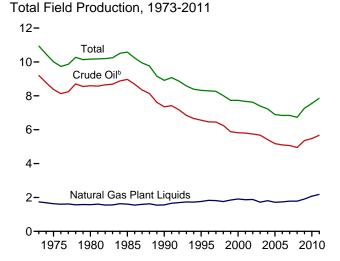
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Figure 3.1 Petroleum Overview (Million Barrels per Day)





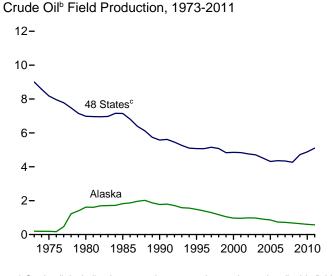


Total Field Production,^a Monthly

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<sup>422010 2011 2012
------</sup>J F M A M J J A S O N D

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

^b Includes lease condensate.

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

Table 3.1 **Petroleum Overview**

		Fie	eld Produc	tiona		Banaur			Trade				
	48 States ^d	Crude Oil ^t Alaska		NGPL ^{e,f}	Total ^c	Renew- able Fuels and Oxy- genates ⁹	Process- ing Gain ^h	lm- ports ⁱ	Ex- ports ^f	Net Imports ^j	Stock Change ^k	Adjust- ments ^{C,I}	Petroleum Products Supplied
1973 Average	9,010 8,183 6,980 7,146 5,582 5,076 5,077 4,832 4,851 4,706 4,510 4,314 4,361 4,361 4,342	198 191 1,617 1,825 1,773 1,484 1,393 1,296 1,175 1,050 970 963 984 974 908 864 741 722 683	7otal 9,208 8,375 8,597 8,597 7,355 6,465 6,452 5,881 5,826 5,681 5,419 5,102 5,064 4,950	1,738 1,633 1,573 1,609 1,559 1,762 1,830 1,817 1,759 1,850 1,911 1,868 1,880 1,719 1,709 1,709 1,717 1,739 1,783	10,946 10,070 10,170 10,581 8,912 8,295 8,295 8,261 7,733 7,670 7,626 7,400 7,228 6,895 6,841 6,841 6,847	genates9 NA	453 460 597 557 683 774 837 850 886 886 948 903 957 974 1,051 989 994 996	6,256 6,056 6,909 5,067 8,018 8,835 9,478 10,162 11,459 11,871 11,530 12,264 13,145 13,714 13,707 13,468	231 209 544 781 857 949 981 1,003 940 1,040 971 984 1,027 1,048 1,165 1,317 1,433 1,802	6,025 5,846 6,365 4,286 7,161 7,886 8,498 9,764 9,912 10,419 10,900 10,546 11,238 12,097 12,390 12,390 12,1390 11,114	135 32 140 -103 107 -246 -151 143 239 -422 -69 325 -105 56 209 145 60 -148	18 41 64 200 338 496 522 653 852	17,308 16,322 17,056 15,726 16,988 17,725 18,309 18,620 18,917 19,519 19,701 19,649 19,761 20,034 20,731 20,802 20,687 20,680
2009 Average 2010 January February March April May June July August September October November December Average	4,832 R 4,852 R 4,772 R 4,909 4,999 R 4,984 R 4,961 R 4,996	645 640 635 646 640 571 534 545 538 614 618 606	5,361 5,543 5,512 8,5,375 8,5,375 8,5,317 8,5,447 8,5,613 8,5,603 8,5,667 8,5,6629 8,5,482	2,017 2,043 2,076 2,061 2,091 2,046 1,994 2,071 2,104 2,125 2,136 2,124 2,074	7,270 7,414 7,586 7,588 R 7,436 R 7,494 R 7,432 R 7,310 R 7,716 R 7,727 R 7,703 R 7,753	746 846 874 895 878 893 905 906 911 915 924 967 961 907	979 961 1,060 1,064 1,069 1,085 1,109 1,123 1,062 1,012 1,051 1,187 1,068	11,691 11,300 11,230 11,621 12,526 12,141 12,444 12,675 12,356 11,823 11,142 11,096 11,132 11,793	2,024 1,897 2,034 2,149 2,432 2,399 2,304 2,516 2,410 2,345 2,480 2,598 2,644 2,353	9,667 9,404 9,197 9,472 10,093 9,742 10,140 10,159 9,946 9,478 8,662 8,498 8,488 8,488	109 309 -46 77 762 661 373 440 214 -23 -451 -667 -1,068 49	218 336 8 88 157 8 371 329 347 8 275 8 377 8 245 8 196 8 91 8 265 8 258	18,771 18,652 18,850 19,099 19,044 18,866 19,537 19,319 19,662 19,438 18,974 18,977 19,722 19,180
2011 January February March April May June July August September October November December Average	E 4,825 RE 5,004 RE 4,954 E 5,045 E 5,044 RE 5,001 E 5,136 RE 5,008 RE 5,311 RE 5,412 RE 5,431	E 479 E 611 E 631 E 606 E 601 E 553 E 468 E 544 E 585 E 585 E 593 E 611 E 572	RE 5,527 RE 5,437 E 5,635 E 5,560 E 5,647 E 5,598 E 5,468 E 5,680 RE 5,593 RE 5,695 RE 6,005 RE 6,042 RE 5,676	2,022 1,920 2,168 2,157 2,222 2,176 2,193 2,201 2,145 2,274 2,342 2,351 2,183	E 7,548 E 7,356 RE 7,803 RE 7,717 E 7,869 E 7,774 E 7,662 E 7,880 RE 8,170 RE 8,346 RE 8,393 RE 7,858	957 941 956 941 934 945 936 958 937 944 992 1,003	1,067 980 1,027 1,001 1,083 1,101 1,125 1,132 1,132 1,136 1,117 1,135 1,085	11,954 10,503 11,593 11,592 11,669 11,794 11,667 11,145 11,209 10,994 11,166 10,957 11,360	2,687 2,575 2,660 2,903 2,642 2,607 2,919 3,071 3,158 3,104 3,182 3,549 2,924	9,266 7,929 8,933 8,689 9,028 9,187 8,748 8,074 8,051 7,880 7,985 7,407 8,436	318 -1,069 -126 -118 -926 -623 -659 -359 -654 -115	601 594 403 R 483 375 R 366 R 484 486 R 279 R 94 R 360 R 146 R 388	19,121 18,869 19,248 18,613 18,363 19,277 18,555 19,153 18,795 18,563 18,734 18,738 18,738
2012 January	RE 5,673 RE 5,574	E 612 E 582 E 567 RE 552 E 543 E 496 E 559 E 580 611	RE 6,120 RE 6,137 RE 6,240 RE 6,127 E 6,207 E 6,236 E 6,178 E 5,569 5,435	2,376 2,388 2,375 R 2,382 E 2,211 E 2,288 E 2,336 2,113 2,056	RE 8,495 RE 8,526 RE 8,615 RE 8,509 E 8,418 E 8,524 E 8,514 E 7,682 7,491	966 949 924 R 929 E 977 E 940 E 947 946 882	1,053 1,068 1,023 R 1,047 E 1,107 E 1,143 E 1,073 1,044 1,044	10,944 10,464 10,610 R 10,634 E 10,849 E 11,326 E 10,806 11,532 11,881	2,839 2,980 3,064 R 3,263 E 2,875 E 2,935 E 2,992 2,680 2,203	8,104 7,484 7,547 R 7,370 E 7,974 E 8,391 E 7,815 8,853 9,678	635 -234 407 R -23 E 544 E 387 E 293 78 360	R 284 R 474 R 473 R 405 E 634 E 514 E 464 469 273	18,268 18,734 18,174 R 18,283 E 18,565 E 19,125 E 18,520 18,916 19,007

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

Includes lease condensate.

Adjustments.

b Includes lease condensate.
c Data for crude oil production, total field production, and adjustments are revised monthly going back as far as the data year of the U.S. Energy Information Administration's (EIA) last published Petroleum Supply Annual (PSA)—these revisions are released at the same time as EIA's Petroleum Supply Monthly. Once a year, data for these series are revised going back as far as 10 years—these revisions are released at the same time as the PSA.
d United States excluding Alaska and Hawaii.
e Natural gas plant liquids.
f See Note 6, "Petroleum Data Discrepancies," at end of section.
g Renewable fuels and oxygenate plant net production.
h Refinery and blender net production minus refinery and blender net inputs.
See Table 3.2.

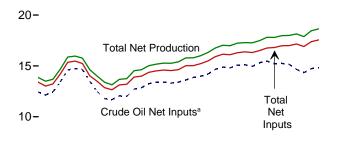
Includes Strategic Petroleum Reserve imports. See Table 3.3b.

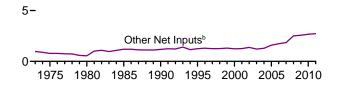
i Includes Strategic Petroleum Reserve imports. See Table 3.3b.
j Net imports equal imports minus exports.
k A negative value indicates a decrease in stocks and a positive value indicates an increase. The current month stock change estimate is based on the change from the previous month's estimate, rather than the stocks values shown in Table 3.4. Includes crude oil stocks in the Strategic Petroleum Reserve, but excludes distillate fuel oil stocks in the Northeast Heating Oil Reserve. See Table 3.4. Also see Note 4, "Petroleum New Stock Basis," at end of section.
An adjustment for crude oil, hydrogen, oxygenates, renewable fuels, other hydrocarbons, motor gasoline blending components, finished motor gasoline, and distillate fuel oil. See EIA, Petroleum Supply Monthly, Appendix B, "PSM Explanatory Notes," for further information.

R=Revised. E=Estimate. NA=Not available.
Notes:
Totals may not equal sum of components due to independent rounding.
Geographic coverage is the 50 States and the District of Columbia.
Web Pages:
For all available data beginning in 1973, see http://www.eia.gov/petroleum/.
Sources: See end of section.

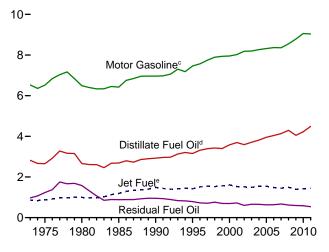
Figure 3.2 Refinery and Blender Net Inputs and Net Production (Million Barrels per Day)

Net Inputs and Net Production, 1973-2011

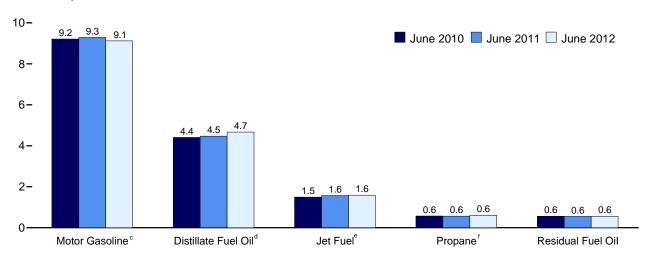




Net Production, Selected Products, 1973-2011

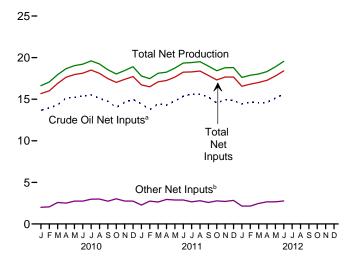


Net Production, Selected Products

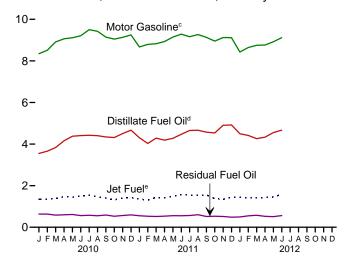


^a Includes lease condensate.

Net Inputs and Net Production, Monthly



Net Production, Selected Products, Monthly



^b Natural gas plant liquids and other liquids.

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

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

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

f Includes propylene.

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	nder Net Ir	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
973 Average	12.431	815	155	13.401	2.820	859	271	375	6.527	971	2,301	13,854
975 Average	12,442	710	72	13,225	2,653	871	234	311	6,518	1,235	2,097	13,685
980 Average	13,481	462	81	14,025	2,661	999	269	330	6,492	1,580	2,559	14,622
985 Average	12.002	509	681	13,192	2,686	1.189	295	391	6,419	882	2,183	13.75
990 Average	13,409	467	713	14,589	2,925	1,488	404	499	6,959	950	2,452	15,27
995 Average	13,973	471	775	15,220	3,155	1,416	503	654	7,459	788	2,522	15,99
996 Average	14,195	450	843	15,487	3,316	1,515	520	662	7,565	726	2,541	16,32
997 Average	14,662	416	832	15,909	3.392	1,554	565	691	7,743	708	2,671	16.75
998 Average	14,889	403	853	16,144	3,424	1,526	550	674	7,892	762	2,753	17,03
999 Average	14,804	372	927	16,103	3,399	1,565	569	684	7,934	698	2,709	16,98
000 Average	15,067	380	849	16,105	3,580	1,606	583	705	7,951	696	2,705	17,24
000 Average	15,128	429	825	16,382	3,695	1,530	556	667	8,022	721	2,651	17,24
001 Average		429	941							601		
002 Average	14,947			16,316	3,592	1,514	572 570	671	8,183		2,712	17,27
003 Average	15,304	419	791	16,513	3,707	1,488	570	658	8,194	660	2,780	17,48
004 Average	15,475	422	866	16,762	3,814	1,547	584	645	8,265	655	2,887	17,81
005 Average	15,220	441	1,149	16,811	3,954	1,546	540	573	8,318	628	2,782	17,80
006 Average	15,242	501	1,238	16,981	4,040	1,481	543	627	8,364	635	2,827	17,97
007 Average	15,156	505	1,337	16,999	4,133	1,448	562	655	8,358	673	2,728	17,99
008 Average	14,648	485	2,019	17,153	4,294	1,493	519	630	8,548	620	2,561	18,14
009 Average	14,336	485	2,082	16,904	4,048	1,396	537	623	8,786	598	2,431	17,88
010 January	13,666	503	1,501	15,670	3,551	1,338	531	480	8,348	633	2,281	16,63
February	13,950	402	1,654	16,005	3,658	1,340	562	540	8,510	632	2,385	17,06
March	14,314	413	2,166	16,893	3,835	1,379	575	726	8,913	581	2,523	17,95
April	15,131	374	2,135	17,640	4,156	1,470	585	850	9,062	598	2,531	18,66
May	15,215	399	2.348	17,963	4,375	1,449	571	857	9.113	615	2,622	19.03
June	15,382	397	2,349	18,127	4,408	1,495	572	870	9,211	559	2,670	19,21
July	15,519	384	2,595	18,498	4,425	1,542	574	860	9,500	576	2,704	19,60
August	15,110	390	2,607	18,107	4,404	1,463	552	778	9,426	554	2,605	19,23
September	14,740	443	2,294	17,477	4,341	1,404	551	614	9,143	588	2,449	18,53
October	14,000	504	2,517	17,021	4,315	1,317	526	501	9.049	528	2,323	18,03
November	14,637	531	2,223	17,391	4,503	1,394	543	390	9,134	564	2,457	18,44
December	14,976	563	2,185	17,724	4,670	1,417	572	430	9,252	595	2,547	18,91
Average	14,724	442	2,219	17,385	4,223	1,418	560	659	9,059	585	2,509	18,45
011 January	14,446	543	1,732	16,721	4,305	1,362	560	439	8,671	552	2,459	17,78
February	13.745	517	2.229	16.491	4.032	1,298	513	490	8.793	529	2.329	17.47
March	14,453	454	2,183	17,090	4,284	1,435	525	632	8,824	519	2,424	18,11
April	14,302	452	2,494	17,248	4.187	1,422	540	773	8.931	535	2.402	18.24
May	14,776	427	2,457	17,660	4,277	1,483	561	805	9.142	557	2,477	18.74
June	15,365	443	2.440	18,248	4,469	1,568	566	840	9,286	553	2,632	19,34
July	15,617	417	2,247	18,281	4,655	1,550	557	814	9.165	562	2,659	19.40
August	15,592	437	2,353	18,382	4,667	1,543	550	784	9,265	604	2,652	19,51
September	15,269	494	2,092	17,855	4,574	1,553	569	608	9,132	516	2,604	18,98
October	14,543	524	2,252	17,318	4,534	1,375	541	494	8,953	529	2,540	18,42
November	14,958	597	2,232	17,665	4.903	1,341	564	384	9,125	516	2,512	18,78
December	14,841	566	2,263	17,670	4,919	1,449	566	372	9,118	482	2,464	18,80
Average	14,833	489	2,237	17,559	4,487	1,449	551	620	9,035	538	2,514	18,64
012 January	14.415	513	1,633	16,561	4.498	1,437	518	414	8,427	495	2,343	17,61
February	14,413	531	1,618	16,809	4,416	1,401	532	492	8.645	547	2,375	17,87
March	11 515	445	2,022	17,012	4,262	1,412	545	685	8,753	577	2,347	18,03
April	R 14,614	R 443	R 2,215	R 17,012	R 4,330	R 1,412	R 558	R 833	R 8,763	R 525	R 2,436	R 18,31
May	E 15,126	F 430	RE 2,234	RF 17,790	E 4,555	E 1,458	RE 531	RF 813	E 8,921	E 510	RE 2.640	RE 18.89
	E 15,126	F 424	E 2,343	F 18,403	E 4,670	E 1,436	E 607	F 843	E 9,119	E 558	E 2,769	E 19,54
June 6-Month Average	E 14,831	E 464	E 2,012	E 17,307	E 4,455	E 1,455	E 548	E 680	E 8,771	E 535	E 2,769	E 18,38
_			2.254	,	,	•	544	665	,	541		
011 6-Month Average 010 6-Month Average	14,524 14.613	472 415	2,254	17,250 17,058	4,262 4,000	1,429 1,412	544 566	722	8,942 8,862	541 603	2,455 2,503	18,29 18,10

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

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

Liquefied petroleum gases. Includes lease condensate.

u 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.

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

Includes propylene.

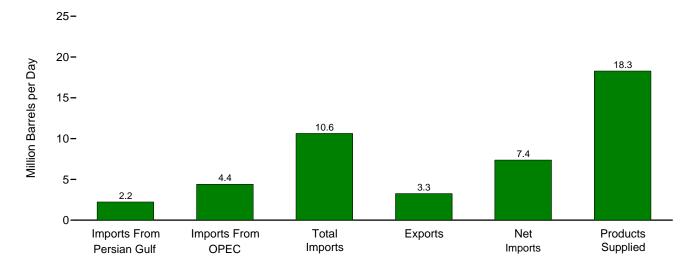
 $^{^{\}rm j}$ Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

^k Asphalt and road oil, finished aviation gasoline, kerosene, lubricants,

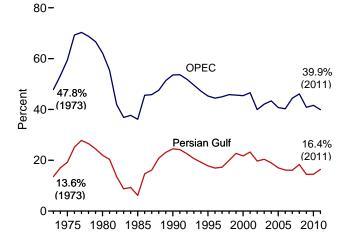
k Asphalt and road oil, finished aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special naphthas, still gas, waxes, and miscellaneous products. Beginning in 2005, also includes naphtha-type jet fuel. R=Revised. E=Estimate. F=Forecast. Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2010: EIA, Petroleum Supply Annual, annual reports. • 2011 and 2012: EIA, Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

Figure 3.3a Petroleum Trade: Overview

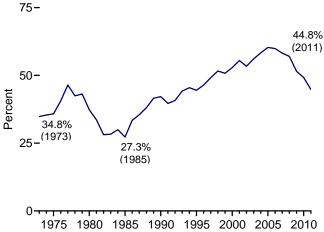
Overview, April 2012



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

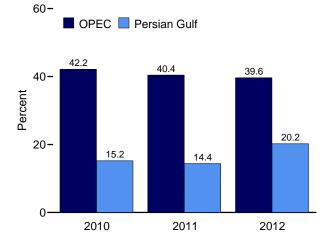


Net Imports as Share of Products Supplied, 1973-2011



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

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



Net Imports as Share of Products Supplied, January-June

75-

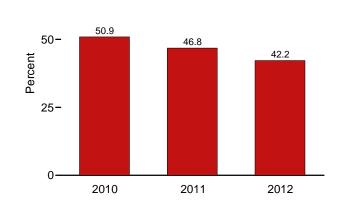


Table 3.3a Petroleum Trade: Overview

									are of Supplied			nare of mports
	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Exports	Net Imports	Products Supplied	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Net Imports	Imports From Persian Gulf ^a	Imports From OPEC ^b
			Thousand Ba	rrels per Day	/				Per	rcent		
1973 Average	848	2,993	6,256	231	6,025	17,308	4.9	17.3	36.1	34.8	13.6	47.8
1975 Average	1,165	3,601	6,056	209	5,846	16,322	7.1	22.1	37.1	35.8	19.2	59.5
1980 Average	1,519	4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	22.0	62.2
1985 Average	311	1,830	5,067	781	4,286	15,726	2.0	11.6	32.2	27.3	6.1	36.1
1990 Average	1,966	4,296	8,018	857	7,161	16,988	11.6	25.3	47.2	42.2	24.5	53.6
1995 Average	1,573	4,002	8,835	949	7,886	17,725	8.9	22.6	49.8	44.5	17.8	45.3
1996 Average	1,604	4,211	9,478	981	8,498	18,309	8.8	23.0	51.8	46.4	16.9	44.4
1997 Average	1,755	4,569	10,162	1,003	9,158	18,620	9.4	24.5	54.6	49.2	17.3	45.0
1998 Average	2,136	4,905	10,708	945	9,764	18,917	11.3	25.9	56.6	51.6	19.9	45.8
1999 Average	2,464	4,953	10,852	940	9,912	19,519	12.6	25.4	55.6	50.8	22.7	45.6
2000 Average	2,488	5,203	11,459	1,040	10,419	19,701	12.6	26.4	58.2	52.9	21.7	45.4
2001 Average	2,761	5,528	11,871	971	10,900	19,649	14.1	28.1	60.4	55.5 52.4	23.3	46.6
2002 Average	2,269	4,605	11,530 12,264	984 1,027	10,546 11,238	19,761	11.5 12.5	23.3 25.8	58.3 61.2	53.4	19.7 20.4	39.9 42.1
2003 Average	2,501 2,493	5,162 5,701	12,264	1,027	11,238	20,034 20,731	12.5	25.8 27.5	63.4	56.1 58.4	20.4 19.0	42.1
2004 Average 2005 Average	2,493 2,334	5,701	13,714	1,048	12,097	20,731	11.2	27.5 26.9	65.9	58.4 60.3	17.0	43.4 40.7
2005 Average	2,334	5,517	13,714	1,317	12,349	20,602	10.7	26.7	66.3	59.9	16.1	40.7
2007 Average	2,163	5.980	13,468	1,433	12,036	20,680	10.7	28.9	65.1	58.2	16.1	44.4
2007 Average	2,103	5,954	12,915	1,802	11,114	19,498	12.2	30.5	66.2	57.0	18.4	46.1
2009 Average	1,689	4,776	11,691	2,024	9,667	18,771	9.0	25.4	62.3	51.5	14.4	40.9
2010 January	1,563	4,554	11,300	1,897	9,404	18,652	8.4	24.4	60.6	50.4	13.8	40.3
February	1,666	4,659	11,230	2,034	9,197	18,850	8.8	24.7	59.6	48.8	14.8	41.5
March	1,842	5,084	11,621	2,149	9,472	19,099	9.6	26.6	60.8	49.6	15.9	43.7
April	2,026	5,376	12,526	2,432	10,093	19,044	10.6	28.2	65.8	53.0	16.2	42.9
May	1,724	5,055	12,141	2,399	9,742	18,866	9.1	26.8	64.4	51.6	14.2	41.6
June	1,972	5,297	12,444	2,304	10,140	19,537	10.1	27.1	63.7	51.9	15.8	42.6
July	1,679	5,178	12,675	2,516	10,159	19,319	8.7	26.8	65.6	52.6	13.2	40.8
August	1,663	5,117	12,356	2,410	9,946	19,662	8.5	26.0	62.8	50.6	13.5	41.4
September	1,698	5,111	11,823	2,345	9,478	19,438	8.7	26.3	60.8	48.8	14.4	43.2
October	1,490	4,305	11,142	2,480	8,662	18,974	7.9	22.7	58.7	45.7	13.4	38.6
November	1,662	4,525	11,096	2,598	8,498	18,977	8.8	23.8	58.5	44.8	15.0	40.8
December Average	1,564 1,711	4,614 4,906	11,132 11,793	2,644 2,353	8,488 9,441	19,722 19,180	7.9 8.9	23.4 25.6	56.4 61.5	43.0 49.2	14.0 14.5	41.4 41.6
2011 January	1.719	4.872	11.954	2.687	9.266	19.121	9.0	25.5	62.5	48.5	14.4	40.8
February	1,495	4,504	10,503	2,575	7,929	18,869	7.9	23.9	55.7	42.0	14.2	42.9
March	1,651	4,588	11,593	2,660	8,933	19,248	8.6	23.8	60.2	46.4	14.2	39.6
April	1,704	4,509	11,592	2,903	8,689	18,613	9.2	24.2	62.3	46.7	14.7	38.9
May	1,829	4,572	11,669	2,642	9,028	18,363	10.0	24.9	63.5	49.2	15.7	39.2
June	2,033	4,883	11,794	2,607	9,187	19,277	10.5	25.3	61.2	47.7	17.2	41.4
July	2,167	4,928	11,667	2,919	8,748	18,555	11.7	26.6	62.9	47.1	18.6	42.2
August	1,910	4,648	11,145	3,071	8,074	19,153	10.0	24.3	58.2	42.2	17.1	41.7
September	2,039	4,326	11,209	3,158	8,051	18,795	10.8	23.0	59.6	42.8	18.2	38.6
October	1,904	4,267	10,994	3,104	7,890	18,563	10.3	23.0	59.2	42.5	17.3	38.8
November	1,944	4,219	11,166	3,182	7,985	18,734	10.4	22.5	59.6	42.6	17.4	37.8
December Average	1,921 1,862	4,085 4,534	10,957 11,360	3,549 2,924	7,407 8,436	18,738 18,835	10.3 9.9	21.8 24.1	58.5 60.3	39.5 44.8	17.5 16.4	37.3 39.9
2012 January	2,208	4,203	10,944	2,839	8,104	18,268	12.1	23.0	59.9	44.4	20.2	38.4
February	1,948	3,986	10,464	2,980	7,484	18,734	10.4	21.3	55.9	39.9	18.6	38.1
March	2,222	_ 4,314	10,610	3,064	7,547	18,174	12.2	23.7	58.4	_ 41.5	20.9	40.7
April	R 2,228	R 4,394	R 10,634	R 3,263	R 7,370	R 18,283	R 12.2	R 24.0	R 58.2	R 40.3	R 21.0	R 41.3
May	NA	NA	¹ 10,849 ±	E 2,875	E 7,974	E 18,565	NA	NA	E 58.4	E 43.0	NA	NA
June 6-Month Average	NA NA	NA NA	E 11,326 E 10,806	E 2,935 E 2,992	E 8,391 E 7,815	E 19,125 E 18,520	NA NA	NA NA	E 59.2 E 58.3	E 43.9 E 42.2	NA NA	NA NA
2011 6-Month Average	1.741	4.657	11,532	2,680	8.853	18.916	9.2	24.6	61.0	46.8	15.1	40.4

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

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

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2010: EIA, Petroleum Supply Annual, annual reports. • 2011 and 2012: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations.

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

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

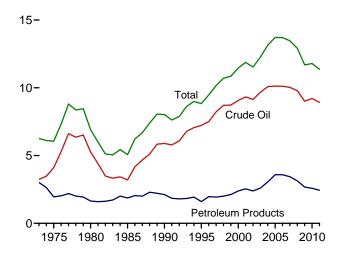
R=Revised. E=Estimate. NA=Not available.

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

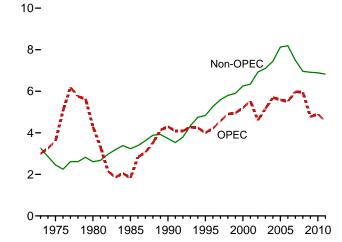
• Beginning in October 1977, data include Strategic Petroleum Reserve imports. See Table 3.3b. • Annual averages may not equal average of months due to independent rounding. • U.S. geographic coverage is the 50 States and the

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

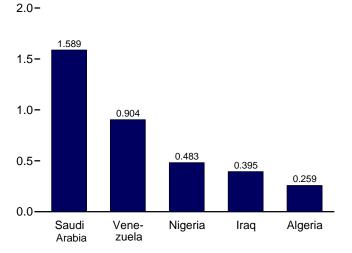
Overview, 1973-2011



OPEC and Non-OPEC, 1973-2011

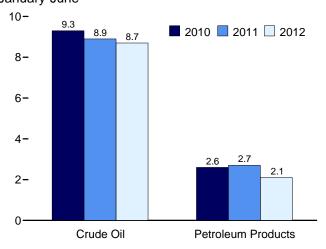


From Selected OPEC Countries, April 2012

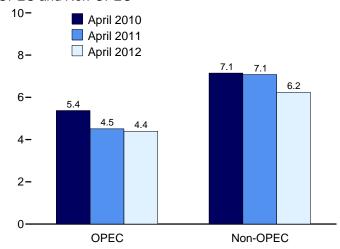


Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.3b–3.3d.

Crude Oil and Petroleum Products, January-June



OPEC and Non-OPEC



From Selected Non-OPEC Countries, April 2012

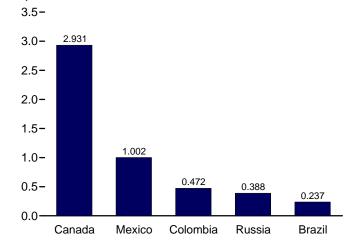


Table 3.3b Petroleum Trade: Imports and Exports by Type

					lm	ports						Exports	5
	Cruc	le Oila			LPG	b							
	SPR ^{c,d}	Total	Distillate Fuel Oil	Jet Fuel ^e	Propane ^f	Total	Motor Gasoline ^g	Residual Fuel Oil	Otherh	Total	Crude Oil ^a	Petroleum Products	Total
1973 Average		3,244	392	212	71	132	134	1,853	290	6,256	2	229	231
1975 Average		4,105	155	133	60	112	184	1,223	144	6,056	6	204	209
1980 Average	44	5,263	142	80	69	216	140	939	130	6,909	287	258	544
1985 Average	118	3,201	200	39	67	187	381	510	550	5,067	204	577	781
1990 Average	27	5,894	278	108	115	188	342	504	705	8,018	109	748	857
1995 Average	-	7,230	193	106	102	146	265	187	708	8,835	95	855	949
1996 Average	_	7,508	230	111	119	166	336	248	879	9,478	110	871	981
1997 Average	_	8,225	228	91	113	169	309	194	945	10,162	108	896	1,003
1998 Average	_	8,706	210	124	137	194	311	275	888	10,708	110	835	945
1999 Average	8	8,731	250	128	122	182	382	237	943	10,852	118	822	940
2000 Average	8	9,071	295	162	161	215	427	352	938	11,459	50	990	1,040
2001 Average	11	9,328	344	148	145	206	454	295	1,095	11,871	20	951	971
2002 Average	16	9,140	267	107	145	183	498	249	1,085	11,530	9	975	984
2003 Average		9,665	333	109	168	225	518	327	1,087	12,264	12	1,014	1,027
2004 Average	77	10,088	325	127	209	263	496	426	1,419	13,145	27	1,021	1,048
2005 Average	52	10,126	329	190	233	328	603	530	1,609	13,714	32	1,133	1,165
2006 Average	8	10,118	365	186	228	332	475	350	1,881	13,707	25	1,292	1,317
2007 Average	7	10,031	304	217	182	247	413	372	1,885	13,468	27	1,405	1,433
2008 Average 2009 Average	19 56	9,783 9,013	213 225	103 81	185 147	253 182	302 223	349 331	1,913 1,635	12,915 11,691	29 44	1,773 1,980	1,802 2,024
2010 January	_	8,492	462	131	192	225	179	376	1,435	11,300	33	1,864	1,897
February	_	8,761	293	75	217	242	196	382	1,282	11,230	58	1,976	2,034
March	_	9,341	179	79	137	155	120	376	1,370	11,621	45	2,104	2,149
April	_	9,726	220	88	79	102	178	480	1,732	12,526	37	2,396	2,432
May	_	9,655	189	81	82	108	107	404	1,599	12,141	36	2,363	2,399
June	_	9,927	237	114	73	113	163	283	1,607	12,444	31	2,273	2,304
July	-	9,932	170	113	56	104	114	400	1,841	12,675	69	2,447	2,516
August	_	9,543	246	103	62	107	129	330	1,899	12,356	36	2,374	2,410
September	_	9,229	189	122	85	124	130	367	1,662	11,823	61	2,283	2,345
October	-	8,540	163	94	131	165	86	337	1,758	11,142	23	2,457	2,480
November	-	8,699	178	101	132	165	117	345	1,491	11,096	32	2,567	2,598
December	-	8,695	219	73	214	231	99	315	1,501	11,132	40	2,604	2,644
Average	-	9,213	228	98	121	153	134	366	1,600	11,793	42	2,311	2,353
2011 January	_	9,069 8,013	326 206	65 68	172 172	204 199	103 119	456 428	1,733 1,471	11,954 10,503	72 30	2,616 2.544	2,687 2,575
February March	_	9,033	190	65	136	165	135	426 468	1,538	11,593	36	2,544	2,575
April	_	8,715	186	80	94	113	138	519	1,842	11,592	41	2,862	2,903
May	_	8.988	167	91	73	100	137	299	1,887	11,669	37	2,605	2,642
June	_	9,247	126	82	58	85	130	371	1,753	11,794	36	2,571	2,607
July	_	9,310	153	95	61	84	92	246	1,686	11,667	73	2,846	2.919
August	_	9.021	148	66	72	100	106	229	1,474	11.145	34	3.037	3.071
September	_	9,006	177	58	107	130	99	276	1,463	11,209	35	3,123	3,158
October	_	9,029	127	61	93	116	66	282	1,314	10,994	51	3,054	3,104
November	_	8,826	133	72	107	127	74	340	1,594	11,166	64	3,118	3,182
December	_	8,716	174	21	149	174	60	333	1,478	10,957	53	3,496	3,549
Average	-	8,921	176	69	108	133	105	353	1,603	11,360	47	2,877	2,924
2012 January	_	8,572	156	6	145	168	99	305	1,637	10,944	56	2,783	2,839
February		8,558	142	41	125	155	46	226	1,296	10,464	59	2,921	2,980
March	_	8,767	136 ^R 98	5 R 56	108 R 102	136 ^R 129	91 ^R 53	271 R 240	1,205	10,610 R 10,624	R 32	3,004 R 2,224	3,064
April		R 8,591	E 89	E 43	R 102 E 95		E 69	^R 240 ^E 214	R 1,466	R 10,634	E 39	^R 3,231 ^E 2,836	R 3,263
May	-	E 8,879 E 9,081	E 77	E 15	E 70	NA	E 61	E 214	NA	E 10,849	E 39	E 2,836	E 2,875 E 2,935
June 6-Month Average	_	E 8,742	E 116	E 27	E 108	NA NA	E 70	E 257	NA NA	E 11,326 E 10,806	E 48	E 2,944	E 2,93 5
2011 6-Month Average	_	8,856	200	75	117	144	127	423	1,707	11,532	42	2,637	2,680
2010 6-Month Average	-	9,321	263	95	129	157	157	384	1,506	11,881	40	2,164	2,203

a Includes lease condensate.

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

reported.

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

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

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2010: EIA, Petroleum Supply Annual, annual reports. • 2011 and 2012: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations.

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

[&]quot;Other."

f Includes propylene.
g Finished motor gasoline. Through 1980, also includes motor gasoline blending components.
h Asphalt and road oil, finished aviation gasoline, gasoline blending components, kerosene, lubricants, pentanes plus, petrochemical feedstocks, petroleum coke, special naphthas, unfinished oils, waxes, other hydrocarbons and avvocenates and miscellaneous products. Beginning in 2005, also includes oxygenates, and miscellaneous products. Beginning in 2005, also includes

Table 3.3c Petroleum Trade: Imports From OPEC Countries

			1					Saudi	Vene-		Total
	Algeria	Angolaa	Ecuadorb	Iraq	Kuwait ^c	Libya	Nigeria	Arabia ^c	zuela	Otherd	OPEC
1973 Average	136	(a)	48	4	47	164	459	486	1,135	514	2,993
1975 Average	282	(a)	57	2	16	232	762	715	702	832	3,601
1980 Average	488	(a)	27	28	27	554	857	1,261	481	577	4,300
1985 Average	187	(a)	67	46	21	4	293	168	605	439	1,830
1990 Average	280	(a)	49	518	86	0	800	1,339	1,025	199	4,296
1995 Average	234	(a)	(b)	0	218	0	627	1,344	1,480	98	4,002
1996 Average	256	(a)	(b)	1	236	0	617	1,363	1,676	62	4,211
1997 Average	285	(a)	(b)	89	253	0	698	1,407	1,773	64	4,569
1998 Average	290	(a)	(b)	336	301	0	696	1,491	1,719	73	4,905
1999 Average	259	(a)	(b)	725	248	0	657	1,478	1,493	93	4,953
2000 Average	225	(a)	(þ)	620	272	0	896	1,572	1,546	72	5,203
2001 Average	278	(a)	(b)	795	250	0	885	1,662	1,553	105	5,528
2002 Average	264	(a)	(b)	459	228	0	621	1,552	1,398	83	4,605
2003 Average	382	(a)	(b)	481	220	0	867	1,774	1,376	61	5,162
2004 Average	452	(a)		656	250	20	1,140	1,558	1,554	70	5,701
2005 Average	478	(a)	(b)	531	243	56	1,166	1,537	1,529	47	5,587
2006 Average	657	(a)		553	185	87	1,114	1,463	1,419	38	5,517
2007 Average	670	508	(b) 221	484	181	117	1,134	1,485	1,361	39	5,980
2008 Average	548	513		627	210	103 79	988	1,529	1,189	26	5,954
2009 Average	493	460	185	450	182		809	1,004	1,063	50	4,776
2010 January	498	280	215	523	77	40	1,048	963	911	-	4,554
February	498	360	152	540	228	40	932	898	1,010	_	4,659
March	455	502	183	475	218	79	962	1,149	1,061	_	5,084
April	464	509	225	490	278	142	1,060	1,257	951		5,376
May	518	448	182	394	225	39	1,026	1,097	1,117	10	5,055
June	550	425	245	630	217	98	1,108	1,125	899		5,297
July	518	374	239	430	189	110	1,174	1,053	1,084	7	5,178
August	565	484	276	281	251	123	985	1,132	1,022	-	5,117
September	543 451	417 324	229 203	422 143	172 215	43 36	1,174 872	1,093 1,131	1,008 930	10	5,111 4,305
October November	572	276	194	340	170	23	856	1,152	942	_	4,505
December	484	319	192	336	125	66	1,070	1,093	942	9	4,525
Average	510	393	212	415	197	70	1,023	1,096	988	3	4,906
2011 January	565	316	178	470	147	57	1.007	1,102	1,030	_	4,872
February	394	370	242	263	118	35	978	1,114	989	_	4,504
March	500	280	146	382	161	31	913	1,108	1,067	-	4,588
April	466	277	142	519	78	(s)	922	1,107	997	_	4,509
May	400	356	134	407	200	(s)	854	1,203	999	19	4,572
June	293	373	219	559	238	35	853	1,169	1,077	68	4,883
July	354	407	172	596	228	_	884	1,326	943	18	4,928
August	298	331	309	637	165	1	892	1,075	906	32	4,648
September	291	304	305	404	145	2	580	1,479	806	11	4,326
October	173	424	178	490	278	2	690	1,120	894	17	4,267
November	260	355	181	395	302	10	703	1,222	764	26	4,219
December	297	357	106	380	231	9	534	1,310	860	-	4,085
Average	358	346	192	460	191	15	817	1,195	944	16	4,534
2012 January	269	370	100	390	352	5	504	1,423	750	41	4,203
February	256	230	244	271	252	29	353	1,420	931	-	3,986
March	325	175	174	386	462	60	374	1,374	984	_	4,314
April	259	253	201	395	235	68	483	1,589	904	7	4,394
4-Month Average	278	258	179	362	327	40	429	1,451	892	12	4,227
2011 4-Month Average 2010 4-Month Average	484 479	310 413	176 194	411 506	127 199	31 76	955 1,002	1,108 1,069	1,022 983	_	4,622 4,921

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

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

States and the District of Columbia.

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

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

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

Table 3.3d.

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

^d For all years, includes Iran, Qatar, and United Arab Emirates. For 1973-2008,

also includes Indonesia; and for 1975-1994, also includes Gabon.

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

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

					Nether-			United	U.S. Virgin		Total
	Brazil	Canada	Colombia	Mexico	lands	Norway	Russiaa	Kingdom	Islands	Other	Non-OPEC
1973 Average	9	1,325	9	16	53	1	26	15	329	1,480	3,263
1975 Average	5	846	9	71	19	17	14	14	406	1,052	2,454
1980 Average	3	455	4	533	2	144	1	176	388	903	2,609
1985 Average	61	770	23	816	58	32	8	310	247	913	3,237
1990 Average	49	934	182	755	55	102	45	189	282	1,128	3,721
1995 Average	8	1,332	219	1,068	15	273	25	383	278	1,233	4,833
1996 Average	9	1,424	234	1,244	19	313	25	308	313	1,377	5,267
1997 Average	5	1,563	271	1,385	25	309	13	226	300	1,495	5,593
1998 Average	26	1,598 1,539	354 468	1,351 1,324	31 27	236 304	24 89	250 365	293 280	1,640 1,478	5,803 5,899
1999 Average	26 51	1,807	342	1,324	30	304 343	72	366	280 291	1,476	6,257
2000 Average2001 Average	82	1,828	296	1,373	43	343 341	90	324	268	1,631	6,343
2002 Average	116	1,971	260	1,547	66	393	210	478	236	1,649	6,925
2003 Average	108	2,072	195	1,623	87	270	254	440	288	1,766	7,103
2004 Average	104	2,138	176	1,665	101	244	298	380	330	2,008	7,103
2005 Average	156	2,181	196	1,662	151	233	410	396	328	2,413	8,127
2006 Average	193	2.353	155	1,705	174	196	369	272	328	2,446	8,190
2007 Average	200	2,455	155	1,532	128	142	414	277	346	1,839	7,489
2008 Average	258	2,493	200	1,302	168	102	465	236	320	1,416	6,961
2009 Average	309	2,479	276	1,210	140	108	563	245	277	1,307	6,915
2010 January	353	2,596	322	1,133	116	126	463	282	298	1,057	6,747
February	226	2,491	386	1,137	126	99	423	413	196	1,074	6,571
March	306	2,505	251	1,306	136	59	494	267	235	977	6,538
April	318	2,472	423	1,282	89	166	587	304	331	1,178	7,149
May	319	2,528	315	1,428	108	119	719	176	195	1,180	7,087
June	308	2,717	407	1,211	87	52	760	269	246	1,090	7,146
July	332	2,549	404	1,289	207	119	719	351	239	1,287	7,497
August	251	2,489	372	1,282	137	57	786	266	301	1,298	7,239
September	181	2,479	363	1,254	45	62	648	178	302	1,200	6,712
October	169 198	2,347 2,513	422 492	1,347 1,363	108 57	111 79	655 561	152 187	270 234	1,255 886	6,837 6,571
November December	295	2,513	231	1,365	71	79 26	514	236	23 4 191	855	6,518
Average	272	2,535	365	1,284	108	89	612	256	253	1,112	6,887
2011 January	274	2,826	332	1,366	101	85	531	155	276	1,136	7,082
February	177	2,831	211	1,104	129	69	437	110	182	749	5,999
March	161	2,666	399	1,319	91	156	690	197	149	1,177	7,005
April	227	2,625	516	1,077	133	167	704	187	179	1,267	7,083
May	282	2,481	433	1,286	128	101	677	233	194	1,283	7,097
June	285	2,524	309	1,222	175	93	689	146	151	1,319	6,911
July	329	2,626	415	1,197	80	58	562	175	192	1,105	6,739
August	228	2,637	395	1,185	81	87	585	125	185	988	6,497
September	188	2,829	529	1,192	64	97	592	124	189	1,079	6,883
October	187	2,692	578	1,177	23	180	687	150	151	903	6,727
November	234	2,815	424	1,256	96	174	737	125	177	910	6,948
December Average	404 249	2,932 2,706	508 422	1,064 1,205	101 100	88 113	552 621	162 158	214 187	846 1,065	6,872 6,825
2012 January	321	3,008	431	1,114	101	46	572	168	96	884	6,740
February	286	3,048	472	1,081	92	163	288	127	28	894	6,478
March	356	2,931	482	1,004	143	87	326	187	1	779	6,296
April	237	2,931	472	1,004	84	51	388	204	12	858	6,239
4-Month Average	301	2,979	464	1,050	105	86	395	172	34	853	6,439
2011 4-Month Average	211	2,736	367	1,221	113	120	593	163	197	1,089	6,810
2010 4-Month Average	303	2,517	344	1,216	117	112	493	314	266	1,071	6,752

^a Through 1992, may include imports from republics other than Russia in the former U.S.S.R. See "Union of Soviet Socialist Republics (U.S.S.R.)" in Glossary. Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary for membership. Petroleum imports not classified as "OPEC" on Table 3.3c are included on this table. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, refined products imported from West European refining areas may have been produced from Middle East crude oil. • Includes imports for the Strategic Petroleum Reserve, which began in October 1977. • Totals may not equal sum of components due to independent rounding. • U.S. geographic

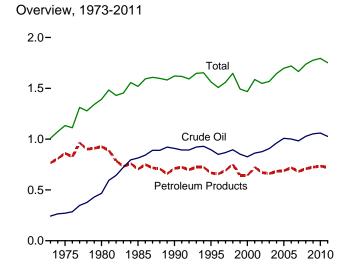
coverage is the 50 States and the District of Columbia.

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

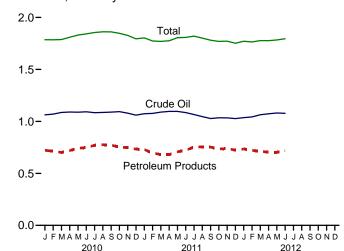
see http://www.eia.gov/petroleum/.
Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2010: EIA, Petroleum Supply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

Petroleum Stocks Figure 3.4

(Billion Barrels, Except as Noted)

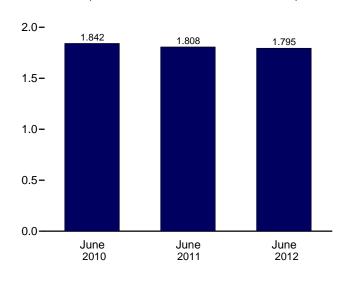


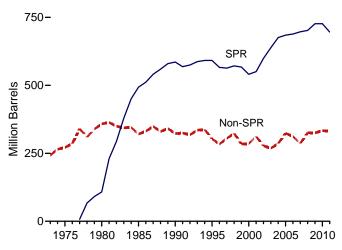
Overview, Monthly



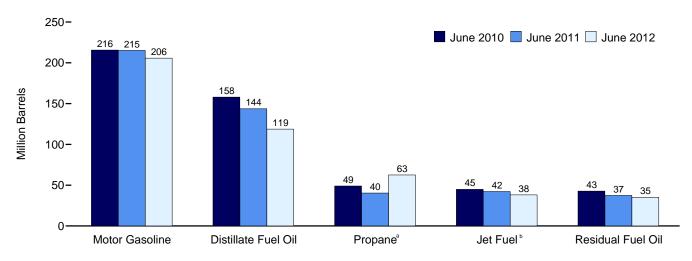
Total Stocks (Crude Oil and Petroleum Products)

SPR and Non-SPR Crude Oil Stocks, 1973-2011





Selected Products



^a Includes propylene.

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

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

^b Includes kerosene-type jet fuel only.

Table 3.4 Petroleum Stocks

(Million Barrels)

		Crude Oila		B'- ('II-4-	1	LPC	3 b		B		
	SPRC	Non-SPR ^{d,e,f}	Total ^{e,f}	Distillate Fuel Oil ^{f,g}	Jet Fuel ^h	Propane ^{f,i}	Total ^f	Motor Gasoline ^{f,j}	Residual Fuel Oil ^f	Other ^k	Total ^f
1973 Year		242	242	196	29	65	99	209	53	179	1,008
1975 Year		271	271	209	30	82	125	235	74	188	1,133
1980 Year	108	358	466	205	42	65	120	261	92	205	1,392
1985 Year	493	321	814	144	40	39	74	223	50	174	1.519
1990 Year	586	323	908	132	52	49	98	220	49	162	1,621
1995 Year		303	895	130	40	43	93	202	37	165	1,563
1996 Year	566	284	850	127	40	43	86	195	46	164	1,507
1997 Year	563	305	868	138	44	44	89	210	40	169	1,560
1998 Year	571	324	895	156	45	65	115	216	45	176	1,647
1999 Year		284	852	125	41	43	89	193	36	157	1,493
2000 Year	541	286	826	118	45	41	83	196	36	164	1,468
2001 Year		312	862	145	42	66	121	210	41	166	1,586
2002 Year	599	278	877	134	39	53	106	209	31	152	1,548
2003 Year	638	269	907	137	39	50	94	207	38	147	1,568
2004 Year	676	286	961	126	40	55	104	218	42	153	1,645
2005 Year		324	1,008	136	42	57	109	208	37	157	1,698
2006 Year	689	312	1,001	144	39	62	113	212	42	169	1.720
2007 Year	697	286	983	134	39	52	96	218	39	156	1,665
2008 Year	702	326	1,028	146	38	55	113	214	36	162	1,737
2009 Year		325	1,052	166	43	50	102	223	37	153	1,776
2000 1001		020	.,00=			•			٠.		.,
2010 January	727	337	1,063	164	44	35	80	232	40	162	1.786
February	727	343	1.070	155	44	28	70	235	41	170	1.785
March	727	359	1,086	147	42	28	73	225	41	174	1,787
April	727	363	1.090	145	44	35	89	220	44	178	1.810
May	727	362	1,089	150	45	42	105	218	46	178	1.830
June	727	365	1.092	158	45	49	120	216	43	169	1.842
July	727	358	1,084	167	47	55	130	220	41	166	1.855
August	727	359	1.086	170	47	59	139	221	39	159	1.862
September	727	363	1,089	167	47	61	141	219	40	158	1,861
October	727	368	1.094	162	44	61	138	210	41	158	1.847
November	727	352	1,079	162	44	61	131	213	41	158	1,827
December	727	333	1,060	164	43	49	108	219	41	158	1,794
2011 January	727	347	1,074	162	41	35	85	235	39	166	1,803
February	727	350	1,077	154	39	26	71	229	35	168	1,773
March	727	363	1,089	149	40	24	69	215	37	171	1,770
April	727	369	1,096	143	39	28	80	205	39	175	1,776
May	727	370	1,096	145	41	34	92	214	37	180	1,805
June	727	358	1,085	144	42	40	105	215	37	179	1,808
July	718	348	1,066	158	44	47	119	217	37	178	1,820
August	696	349	1,046	157	43	52	130	212	39	173	1,801
September	696	332	1,028	154	46	57	132	216	35	170	1,781
October	696	339	1,035	143	46	60	133	208	37	169	1,770
November	696	338	1,034	144	42	59	125	221	39	167	1,772
December	696	331	1,027	150	42	55	111	224	34	164	1,751
2012 January	696	340	1,036	149	42	48	101	235	34	174	1,771
February	696	347	1,043	139	41	43	96	231	36	179	1,764
March	696	368	1,064	134	39	45	102	219	36	183	1,777
April	696	^R 377	R 1,073	^R 125	40	50	^R 116	^R 211	R 34	^R 178	R 1,776
May		E 385	E 1,081	E 120	E 40	E 58	RF 131	E 204	E 31	^{RE} 177	E 1,783
June	E 696	E 382	E 1.078	E 119	E 38	E 63	^F 146	E 206	E 35	E 173	E 1,795

Includes lease condensate.

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

oxygenates, renewable fuels, and other hydrocarbons. Beginning in 2005, also includes naphtha-type jet fuel.

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

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

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

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2010: EIA, Petroleum Supply Annual, annual reports. • 2011 and 2012: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

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."

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

See Note 4, "Petroleum New Stock Basis," at end of section.</sup>

⁹ Excludes stocks in the Northeast Heating Oil Reserve. Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.

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

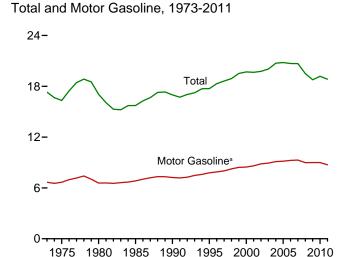
^{2005,} includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other."

Includes propylene.

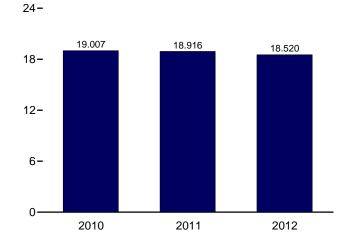
j Includes finished motor gasoline and motor gasoline blending components; excludes oxygenates.

K Asphalt and road oil, aviation gasoline, aviation gasoline blending

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



Total, January-June

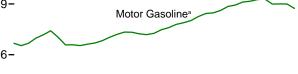


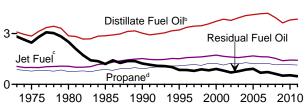
Selected Products, 1973-2011

12-

Selected Products, Monthly 12-

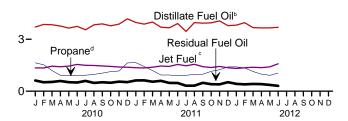






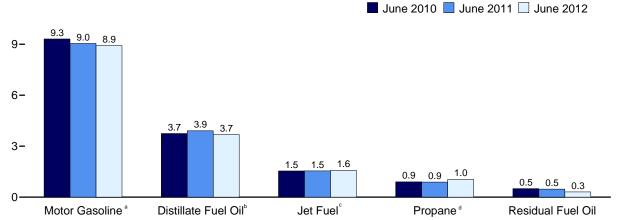


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Selected Products

12-



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

Note: SPR=Strategic Petroleum Reserve.

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

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

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

^d Includes propylene.

Table 3.5 Petroleum Products Supplied by Type

	Asphalt					LPG	a			Petro-			
	and Road Oil	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Kero- sene	Propaned	Total	Lubri- cants	Motor Gasoline ^e	leum Coke	Residual Fuel Oil	Other ^f	Total
1973 Average	522	45	3,092	1,059	216	872	1,449	162	6,674	261	2,822	1,005	17,308
1975 Average	419	39	2,851	1,001	159	783	1,333	137	6,675	247	2,462	1,001	16,322
1980 Average	396	35	2,866	1,068	158	754	1,469	159	6,579	237	2,508	1,581	17,056
1985 Average	425	27	2,868	1,218	114	883	1,599	145	6,831	264	1,202	1,032	15,726
1990 Average	483	24	3,021	1,522	43	917	1,556	164	7,235	339	1,229	1,373	16,988
1995 Average	486	21	3,207	1,514	54	1,096	1,899	156	7,789	365	852	1,381	17,725
1996 Average	484 505	20 22	3,365 3,435	1,578 1,599	62 66	1,136 1,170	2,012 2,038	151 160	7,891 8,017	379 377	848 797	1,518 1,605	18,309 18,620
1997 Average 1998 Average	503 521	19	3,433	1,622	78	1,170	1,952	168	8,253	447	887	1,503	18,917
1999 Average	547	21	3,572	1,673	73	1,246	2,195	169	8,431	477	830	1,532	19,519
2000 Average	525	20	3.722	1,725	67	1,235	2,231	166	8,472	406	909	1,458	19.701
2001 Average	519	19	3,847	1,655	72	1,142	2,044	153	8,610	437	811	1,481	19,649
2002 Average	512	18	3,776	1,614	43	1,248	2,163	151	8,848	463	700	1,474	19,761
2003 Average	503	16	3,927	1,578	55	1,215	2,074	140	8,935	455	772	1,579	20,034
2004 Average	537	17	4,058	1,630	64	1,276	2,132	141	9,105	524	865	1,657	20,731
2005 Average	546	19	4,118	1,679	70	1,229	2,030	141	9,159	515	920	1,605	20,802
2006 Average	521	18	4,169	1,633	54	1,215	2,052	137	9,253	522	689	1,640	20,687
2007 Average	494	17	4,196	1,622	32	1,235	2,085	142	9,286	490	723	1,593	20,680
2008 Average	417	15	3,945	1,539	14	1,154	1,954	131	8,989	464	622	1,408	19,498
2009 Average	360	14	3,631	1,393	18	1,160	2,051	118	8,997	427	511	1,251	18,771
2010 January	203	10	3,701	1,344	15	1,638	2,644	116	8,520	268	615	1,218	18,652
February		10	3,854	1,343	34	1,526	2,531	137	8,579	334	515	1,263	18,850
March	264	14	3,835	1,443	11	1,193	2,225	138	8,793	425	531	1,421	19,099
April	331	17	3,759	1,410	7	916	1,843	132	9,108	385	590	1,463	19,044
May	378	15	3,639	1,446	11	891	1,878	128	9,162	339	519	1,351	18,866
June	517 470	18 20	3,743 3,544	1,543 1,494	16 19	901 915	1,938 1,978	155 141	9,311 9,301	411 385	500 595	1,386 1,373	19,537
July	537	14	3,830	1,494	9	973	2,025	129	9,301	434	476	1,373	19,319 19,662
August September		20	3,886	1,457	8	1.040	2,023	136	9,233	433	513	1,326	19,002
October	434	15	3,773	1,430	15	1,135	2,126	127	9,016	335	489	1,215	18,974
November	295	11	3.873	1.396	46	1,168	2,141	125	8,816	389	552	1,333	18.977
December	204	12	4,176	1,383	50	1,634	2,677	113	8,911	371	525	1,301	19,722
Average	362	15	3,800	1,432	20	1,160	2,173	131	8,993	376	535	1,343	19,180
2011 January	224	14	3,968	1,355	17	1,652	2,660	136	8,412	363	623	1,349	19,121
February	248	13	3,871	1,343	47	1,423	2,406	121	8,648	282	627	1,264	18,869
March		19 7	3,993	1,389	25 9	1,189 933	2,291 1,916	148 131	8,750	339 352	547 600	1,468	19,248
April	314 354	18	3,689 3,657	1,451 1,429	(s)	934	1,994	120	8,762 8,784	415	478	1,381 1,114	18,613 18,363
May June	455	17	3,903	1,545	(5)	889	1,938	119	9,046	386	471	1,114	19,277
July	463	18	3,452	1,466	9	918	1,929	112	8,960	361	316	1,470	18,555
August	543	18	3,959	1,555	5	974	1,987	134	8,907	452	319	1,274	19,153
September	462	13	3,929	1,417	13	979	2,035	126	8,753	360	482	1,207	18,795
October		16	3,944	1,370	-4	1,147	2,140	107	8,623	410	402	1,132	18,563
November		12	4,055	1,427	10	1,236	2,235	124	8,527	361	395	1,291	18,734
December	191	10	3,782	1,354	12	1,400	2,525	112	8,659	313	519	1,261	18,738
Average	355	15	3,849	1,425	12	1,138	2,171	124	8,736	367	480	1,300	18,835
2012 January	216	12	3,811	1,313	2	1,406	2,463	129	8,187	367	420	1,349	18,268
February	218	11	3,954	1,350	23	1,343	2,421	139	8,622	297	394	1,306	18,734
March	236 R 329	14 ^R 14	3,668	1,382	2 R 3	1,134	2,226	111 R 122	8,633	323 R 320	416 ^R 408	1,163	18,174 R 4 9 2 9 2
April		14 E 15	R 3,656 E 3,656	R 1,359 E 1,405	RF 7	^R 986 ^E 918	R 2,069 RF 1,994	R 122 RF 132	^R 8,817 ^E 8,802	R 338 F 399	E 362	R 1,166 RE 1,430	^R 18,283 ^E 18,565
May	F 492	F 15	E 3,685	E 1,580	F 7	E 1,047	F 1,984	F 127	E 8,802	F 399	E 307	E 1,613	E 19,125
June 6-Month Average	E 309	E 14	E 3,737	E 1,398	E 7	E 1,138	E 2,192	E 126	E 8,661	E 354	E 385	E 1,338	E 18,520
2011 6-Month Average 2010 6-Month Average		15 14	3,847 3,753	1,419 1,422	17 15	1,168 1,175	2,200 2,174	129 134	8,733 8,914	357 360	557 545	1,329 1,351	18,916 19,007

^a Liquefied petroleum gases.

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

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

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

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2010: EIA, Petroleum Supply Annual, annual reports. • 2011 and 2012: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

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

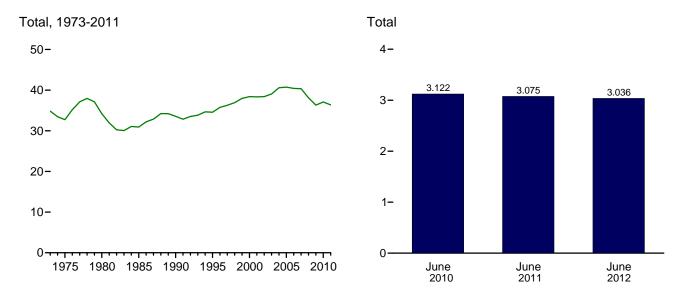
^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in

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

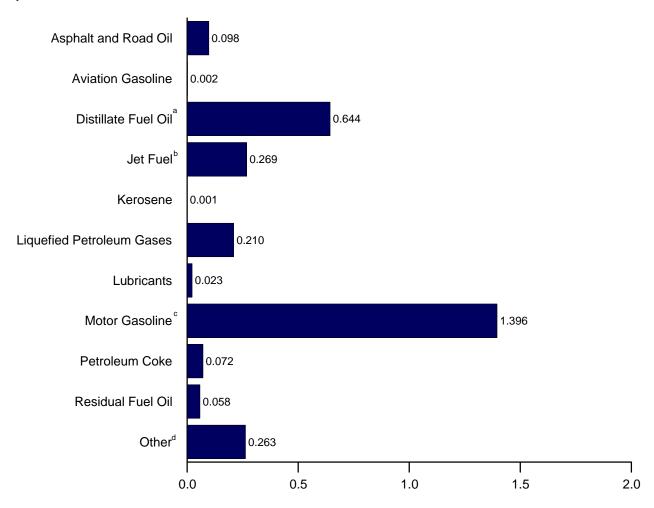
blended into motor gasoline. Beginning in 1995, also includes fuel entanol blended into motor gasoline.

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

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



By Product, June 2012



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

Source: Table 3.6.

^b Includes kerosene-type jet fuel only.

c Includes fuel ethanol blended into motor gasoline.

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

Table 3.6 Heat Content of Petroleum Products Supplied by Type

(Trillion Btu)

	Asphalt and	Aviation	Distillate	Jet	Kero-	LPG	a	Lubri-	Motor	Petro- leum	Residual		
	Road Oil	Gasoline	Fuel Oil ^b	Fuel ^c	sene	Propane ^d	Total	cants	Gasoline ^e	Coke	Fuel Oil	Other ^f	Total
1973 Total	1,264	83	6,575	2,167	447	1,221	1,981	359	12,797	573	6,477	2,114	34,837
1975 Total	1,014	71	6,061	2,047	329	1,097	1,807	304	12,798	542	5,649	2,109	32,732
1980 Total	962	64	6,110	2,190	329	1,059	1,976	354	12,648	522	5,772	3,278	34,205
1985 Total	1,029	50	6,098	2,497	236	1,236	2,103	322	13,098	582	2,759	2,152	30,925
1990 Total	1,170	45	6,422	3,129	88	1,284	2,059	362	13,872	745	2,820	2,839	33,552
1995 Total	1,178	40	6,818	3,132	112	1,534	2,512	346	14,825	802	1,955	2,837	34,556
1996 Total	1,176	37	7,175	3,274	128	1,594	2,660	335	15,064	837	1,952	3,121	35,759
1997 Total	1,224	40	7,304	3,308	136	1,638	2,690	354	15,254	829	1,828	3,298	36,265
1998 Total	1,263	35	7,359	3,357	162	1,568	2,575	371	15,701	982	2,036	3,093	36,934
1999 Total	1,324	39	7,595	3,462	151	1,745	2,897	375	16,036	1,048	1,905	3,129	37,960
2000 Total	1,276	36	7,935	3,580	140	1,734	2,945	369	16,155	895	2,091	2,979	38,402
2001 Total	1,257 1,240	35 34	8,179	3,426	150 90	1,598	2,697	338	16,373	961	1,861	3,056 3,040	38,333
2002 Total	1,240	34 30	8,028	3,340	113	1,747	2,852 2,748	334 309	16,819	1,018 1,000	1,605		38,400
2003 Total 2004 Total	1,304	31	8,349 8.652	3,265 3,383	133	1,701 1.791	2,746	313	16,981 17,379	1,156	1,772 1.990	3,264 3,428	39,051 40,593
2005 Total	1,323	35	8,755	3,475	144	1,721	2,682	313	17,379	1,133	2,111	3,318	40,393
2006 Total	1,323	33	8.864	3,379	111	1,701	2,700	303	17,622	1,148	1,581	3,416	40,420
2007 Total	1,197	32	8,921	3,358	67	1,729	2,733	313	17,689	1,077	1,659	3,313	40,358
2008 Total	1,012	28	8,411	3,193	30	1,620	2,574	291	17,168	1,022	1,432	2,941	38,101
2009 Total	873	27	7,720	2,883	36	1,624	2,664	262	17,135	938	1,173	2,611	36,321
2010 January	42	2	668	236	3	195	294	22	1,378	50	120	215	3,029
February	46	1	629	213	5	164	255	23	1,253	56	91	202	2,776
March	54	2	692	254	2	142	246	26	1,422	79	103	252	3,134
April	66	3	657	240	1	105	198	24	1,426	70	111	251	3,046
May	78	2	657	254	2	106	207	24	1,482	63	101	240	3,111
June	103	3	654	263	3	104	206	28	1,458	74	94	237	3,122
July	97	3	640	263	3	109	217	27	1,504	72	116	242	3,183
August	110	2	692	261	2	116	220	24	1,497	81	93	259	3,241
September	92	3	679	248	1	120	219	25	1,426	78	97	227	3,097
October	89	2 2	681	251	3	135	233	24	1,458	63	95	215	3,114
November	59 42	2	677 754	238 243	8	134 194	228 298	23 21	1,380 1.441	70 69	104 102	227 233	3,014 3,214
Total	878	27	8,080	2,963	41	1,624	2,821	291	17,127	826	1,228	2,800	37,082
2011 January	46	2	717	238	3	196	295	26	1,361	68	121	239	3,116
February	46	2	631	213	7	153	241	20	1,263	48	110	202	2,784
March	58	3	721	244	4	141	251	28	1,415	63	107	259	3,152
April	63	1	645	247	1	107	201	24	1,372	64	113	234	2,965
May	73	3	660	251	(s)	111	216	23	1,421	78	93	199	3,017
June	91	3	682	263	1	102	204	22	1,416	70	89	236	3,075
July	95	3	623	258	2	109	209	21	1,449	67	62	260	3,049
August	112	3	715	273	1	116	217	25	1,441	84	62	227	3,160
September	92	2	687	241	2	113	215	23	1,370	65	91	208	2,996
October	87	3	712	241	-1	136	234	20	1,395	77	78	201	3,047
November	59	2	709	243	2	142	235	23	1,335	65	74	222	2,968
December Total	39 860	2 27	683 8,184	238 2,950	2 25	167 1,594	278 2,796	21 275	1,401 16,639	58 807	101 1,102	224 2,712	3,047 36,376
2012 January	44	2	688	231	(s)	167	270	24	1,324	69	82	238	2,973
February	42	2	668	222	4	149	250	24	1,305	52	72	219	2,859
March	49 R 05	2	662 R 630	243	(s)	135	245	21	1,396	60 P.64	81 P 77	209	2,969
April	^R 65 ^F 75	2 F 2	R 639	R 231	1 RF 1	R 113	R 219	R 22 RF 25	R 1,380	R 61	R 77 E 71	R 201 RE 248	R 2,898
May	' 75 F 98	F 2	E 660 E 644	E 247 E 269	F 1	E 109 E 120	RF 218	F 23	E 1,424 E 1.396	^F 75 ^F 72	E 58	E 263	E 3,045
June 6-Month Total	E 373	E 13	E 3,961	E 1,443	E 7	E 795	F 210 E 1,412	E 139	E 8,225	E 388	E 440	E 1,378	E 3,036 E 17,780
2011 6-Month Total	375	14	4,056	1,456	17	811	1,408	142	8,248	390	633	1,370	18,109
2010 6-Month Total	389	13	3,957	1,459	16	816	1,406	147	8,419	393	621	1,398	18,218

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

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

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

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

Sources: See end of section.

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

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

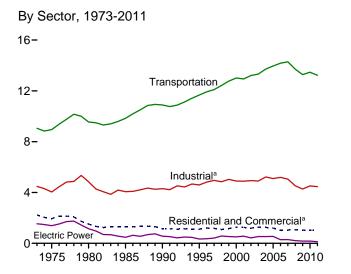
[&]quot;Other."

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

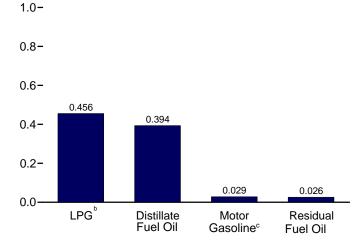
into motor gasoline.

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

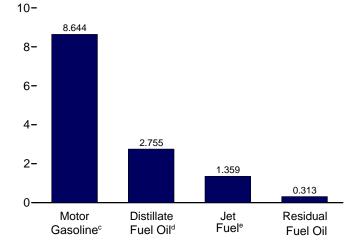
Figure 3.7 Petroleum Consumption by Sector (Million Barrels per Day)



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



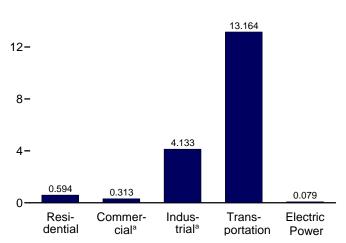
Transportation Sector, Selected Products, April 2012



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

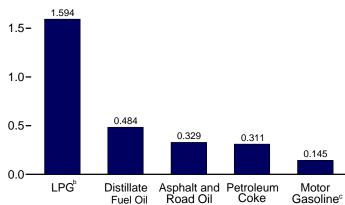
By Sector, April 2012

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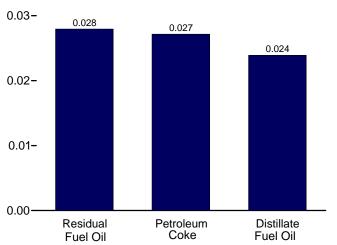


Industrial Sector,^a Selected Products, April 2012

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Electric Power Sector, April 2012



distillate fuel oil.

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

^b Liquefied petroleum gases.

[°] Includes fuel ethanol blended into motor gasoline.

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

^e Includes kerosene-type jet fuel only.

Table 3.7a Petroleum Consumption: Residential and Commercial Sectors

		Resident	tial Sector				Com	mercial Sec	tora		
	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petro- leum Coke	Residual Fuel Oil	Total
1973 Average	942	110	407	1,459	303	31	105	45	NA	290	774
1975 Average	850	78	365	1,293	276	24	92	46	NA	214	653
1980 Average	617	51	222	890	243	20	63	56	NA	245	626
1985 Average	514	77	224	815	297	16	68	50	NA	99	530
1990 Average	460	31	252	742	252	6	73	58	0	100	489
1995 Average	426	36	282	743	225	11	78	10	(s)	62	385
1996 Average	434	43	334	811	227	10	87	14	(s)	60	397
1997 Average	411	45	325	781	209	12	86	22	(s)	48	378
1998 Average	363	52	303	718	202	15	84	20	(s)	37	358
1999 Average	389	54	376	819	206	13	100	15	(s)	32	366
2000 Average	424	46	395	865	230	14	107	23	(s)	40	415
2001 Average	427	46	375	849	239	15	102	20	(s)	30	406
2002 Average	404	29	384	817	209	8	101	24	(s)	35	376
2003 Average	425	34	389	848	226	9	112	32	(s)	48	428
2004 Average	433	41	364	839	221	10	108	23	(s)	53	416
2005 Average	402	40	366	809	210	10	94	24	(s)	50	389
2006 Average	335	32	318	685	189	7	88	26	(s)	33	343
2007 Average	342	21	345	708	181	4	87	32	(s)	33	337
2008 Average	314	10	394	718	174	2	113	24	(s)	32	345
2009 Average	283	13	391	687	194	2	99	28	(s)	33	357
2010 January	460	10	461	931	324	2	122	28	(s)	57	532
February	471	24	441	936	332	4	116	28	(s)	58	538
March	270	8	388	666	190	1	102	28	(s)	33	356
April	196	5	321	521	138	1	85	29	(s)	24	277
May	207	8	327	542	146	1	86	30	Ó	25	289
June	244	11	338	593	172	2	89	30	0	30	323
July	189	13	345	547	133	2	91	30	0	23	280
August	169	7	353	528	119	1	93	30	(s)	21	264
September	157	6	363	526	111	1	96	29	(s)	19	256
October	233	10	370	614	164	2	98	29	(s)	29	322
November	271	32	373	676	190	5	99	29	(s)	33	356
December	432	35	466	934	304	6	123	29	(s)	53	516
Average	274	14	379	667	193	2	100	29	(s)	34	358
2011 January	395	12	464	870	278	2	122	27	(s)	45	475
February	414	33	419	866	291	5	111	28	(s)	47	483
March	282	18	399	699	199	3	105	28	(s)	32	368
April	195	6	334	534	137	. 1	88	28	0	22	277
May	128	(s)	347	476	90	(s)	92	28	0	15	225
June	199	3	338	540	140	1	89	29	0	23	282
July	178	6	336	520	125	1	89	29	0	20	264
August	243	4	346	593	171	1	91	29	0	28	320
September	266	9	355	630	187	, 1	94	28	0	30	341
October	289	-3	373	659	203	(s)	99	28	0	33	362
November	331	7	389	728	233	1	103	28	(s)	38	403
December Average	428 278	8 9	440 378	876 665	301 196	1 1	116 100	28 28	(s) (s)	49 32	496 357
2012 January	463	1	429	893	326	(s)	113	26	(s)	53	519
February	389	16	422	827	274	3	111	28	(s)	44	460
March	316	1	388	705	222	(s)	102	28	(s)	36	389
April 4-Month Average	231 350	2 5	361 400	594 755	163 246	(s) 1	95 106	29 28	(s) (s)	26 40	313 421
2011 4-Month Average	320	17	404	741	225	3	107	28		36	399
2010 4-Month Average	348	17	404 402	762	245	2	107	26 28	(s) (s)	43	424

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

^b Finished motor gasoline.

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

NA=Not available (2)

NA=Not available. (s)=Less than 500 barrels per day and greater than -500 barrels per day.

Notes: • Data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is

an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section.

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

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

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

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

Table 3.7b Petroleum Consumption: Industrial Sector

973 Average	Asphalt and Road Oil	Distillate Fuel Oil	Varager	Liquefied Petroleum						
975 Average 980 Average 985 Average 990 Average 996 Average 997 Average 997 Average 998 Average			Kerosene	Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total
975 Average 980 Average 985 Average 990 Average 995 Average 997 Average 998 Average										
980 Average 985 Average 990 Average 995 Average 996 Average 997 Average 998 Average		691	75	902	88	133	254	809	1,005	4,479
985 Average	419	630	58	844	68	116	246	658	1,001	4,038
990 Average 995 Average 996 Average 997 Average 998 Average	396	621	87	1,172	82	82	234	586	1,581	4,842
995 Average 996 Average 997 Average 998 Average	425	526	21	1,285	75	114	261	326	1,032	4,065
996 Average 997 Average 998 Average	483	541	6	1,215	84	97	325	179	1,373	4,304
997 Average998 Average	486	532	7	1,527	80	105	328	147	1,381	4,594
998 Average	484	557	9	1,580	78	105	343	146	1,518	4,819
	505	566	9	1,617	82	111	331	127	1,605	4,953
999 Δυρταπο	521	570	11	1,553	86	105	390	100	1,508	4,844
	547	558	6	1,709	87	80	426	90	1,532	5,035
000 Average	525	563	8	1,720	86	79	361	105	1,458	4,903
001 Average	519	611	11	1,557	79	155	390	89	1,481	4,892
002 Average	512	566	7	1,668	78	163	383	83	1,474	4,934
003 Average	503	534	12	1,561	72	171	375	96	1,579	4,903
2004 Average	537	570	14	1,646	73	195	423	108	1,657	5,222
005 Average	546	594	19	1,549	72	187	404	123	1,605	5,100
006 Average	521	594	14	1,627	71	198	425	104	1,640	5,193
2007 Average	494	595	6	1,637	73	161	412	84	1,593	5,056
2008 Average	417	599	2	1,419	67	131	394	86	1,408	4,523
009 Average	360	521	2	1,541	61	128	363	46	1,251	4,274
010 January	203	484	3	2,036	60	140	201	59	1,218	4,403
February	249	531	6	1,949	70	141	264	55	1,263	4,528
March	264	686	2	1,714	71	144	356	54	1,421	4,712
April	331	623	1	1,419	68	149	323	61	1,463	4,438
May	378	472	2	1,446	66	150	274	51	1,351	4,190
June	517	427	3	1,492	80	153	333	43	1,386	4,433
July	470	331	3	1,523	73	153	303	53	1,373	4,282
August	537	544	2	1,559	66	152	370	42	1.467	4,738
September	463	701	1	1,604	70	150	371	51	1,326	4,738
October	434	548	3	1,637	66	148	279	51	1,215	4,380
November	295	664	8	1,648	64	145	339	57	1,333	4,553
December	204	700	9	2.061	58	146	307	51	1,301	4,838
Average	362	559	4	1,673	68	148	310	52	1,343	4,519
011 January	224	749	3	2.049	70	138	283	64	1,349	4.928
February	248	585	8	1,853	62	142	215	65	1,264	4,442
March	280	755	5	1,764	76	144	266	57	1,468	4,814
April	314	544	2	1,475	68	144	304	63	1,381	4,295
May	354	553	(s)	1,536	62	144	366	50	1,114	4,177
June	455	568	1	1,492	61	148	324	48	1,394	4,492
July	463	257	2	1,486	57	147	286	30	1,470	4,197
August	543	523	1	1,530	69	146	388	30	1,274	4,505
September	462	578	2	1,567	65	144	297	49	1,207	4,371
October	424	575	-1	1,648	55	141	362	42	1,132	4,378
November	298	696	2	1,721	64	140	320	39	1,291	4,571
December	191	434	2	1,945	58	142	261	52	1,261	4,346
Average	355	568	2	1,672	64	143	307	49	1,300	4,460
012 January	216	571	(s)	1,896	66	134	311	40	1,349	4,585
February	218	731	4	1,864	71	141	250	38	1,306	4,624
March	236	498	(s)	1,715	57	142	289	41	1,163	4,141
April	329	484	1	1,594	63	145	311	41	1,166	4,133
4-Month Average	250	569	1	1,767	64	140	291	40	1,246	4,368
011 4-Month Average	266	661	4	1,786	69	142	268	62	1,368	4,627

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

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

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

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

Sources: See end of section.

a Industrial sector fuel use, including that at industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
 b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
 c Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel Beginning in 2005. also includes naphtha-type jet fuel. gastining democratics. Describing in 1905, also includes naphthat-type jet fuel.

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

Table 3.7c Petroleum Consumption: Transportation and Electric Power Sectors

				Transportat	ion Secto	r			E	lectric Po	wer Sectora	
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oile	Petro- leum Coke	Residual Fuel Oil ^f	Total
1973 Average	45	1,045	1,042	35	74	6,496	317	9,054	129	7	1,406	1,542
1975 Average	39	998	992	31	70	6,512	310	8.951	107	1	1,280	1,388
1980 Average	35	1,311	1,062	13	77	6,441	608	9,546	79	2	1,069	1,151
1985 Average	27	1,491	1,218	21	71	6,667	342	9,838	40	3	435	478
1990 Average	24	1,722	1,522	16	80	7,080	443	10,888	45	14	507	566
1995 Average	21	1,973	1,514	13	76	7,674	397	11,668	51	37	247	334
1996 Average	20	2,096	1,578	11	73	7,772	370	11,921	51	36	273	360
1997 Average	22	2,198	1,599	10	78	7,883	310	12,099	52	46	311	410
1998 Average	19	2,263	1,622	13	81	8,128	294	12,420	64	56	456	576
1999 Average	21	2,352	1,673	10	82	8,336	290	12,765	66	51	418	535
2000 Average	20	2,422	1,725	8	81	8,370	386	13,012	82	45	378	505
2001 Average	19	2,489	1,655	10	74	8,435	255	12,938	80	47	437	564
2002 Average	18	2,536	1,614	10	73	8,662	295	13,208	60	80	287	427
2003 Average	16	2,665	1,578	12	68	8,733	249	13,321	76	79	379	534
2004 Average	17	2,783	1,630	14	69	8,887	321	13,720	52	101	382	535
2005 Average	19	2,858	1,679	20	68	8,948	365	13,957	54	111	382	547
2006 Average	18	3,017	1,633	20	67	9,029	395	14,178	35	97	157	289
2007 Average	17	3,037	1,622	16	69	9,093	433	14,287	42	78	173	293
2008 Average	15	2,824	1,539	29	64	8,834	400	13,704	34	70	104	209
2009 Average	14	2,600	1,393	20	57	8,840	353	13,279	33	63	79	175
2010 January	10	2,353	1,344	26	57	8,352	407	12,547	79	67	93	239
February	10	2,490	1,343	24	66	8,411	364	12,709	30	69	38	138
March	14	2,663	1,443	22	67	8,620	403	13,231	24	69	41	134
April	17	2,779	1,410	18	64	8,929	465	13,682	23	62	40	125
May	15	2,781	1,446	18	62	8,983	377	13,681	33	64	66	164
June	18	2,858	1,543	19	75	9,128	322	13,963	41	78	105	224
July	20	2,848	1,494	19	69	9,118	399	13,966	42	81	120	244
August	14	2,963	1,486	20	63	9,074	315	13,934	34	63	98	196
September	20	2,888	1,457	20	66	8,933	381	13,766	29	62	61	153
October	15	2,803	1,430	21	62	8,839	371	13,540	25	56	37	118
November	11	2,719	1,396	21	60	8,643	427	13,277	30	50	35	114
December	12	2,679	1,383	26	55	8,736	355	13,245	60	63	67	189
Average	15	2,737	1,432	21	64	8,816	382	13,466	38	65	67	170
2011 January	14	2,507	1,355	26	66	8,247	457	12,672	40	81	57	177
February	13	2,550	1,343	23	59	8,478	478	12,944	31	67	36	134
March	19	2,730	1,389	22	72	8,578	420	13,230	27	73	38	137
April	7	2,782	1,451	19	64	8,590	468	13,381	31	49	46	126
May	18	2,857	1,429	19	58	8,612	372	13,365	29	49	41	119
June	17	2,964	1,545	19	58	8,868	356	13,826	32	62	44	138
July	18	2,855	1,466	19	54	8,784	214	13,410	37	75	52	163
August	18	2,995	1,555	19	65	8,732	215	13,600	26	65	45	135
September	13	2,871	1,417	20	61	8,581	369	13,331	25	63	34	123
October	16	2,854	1,370	21	52	8,453	295	13,061	22	48	32	102
November	12	2,771	1,427	22	60	8,359	286	12,937	23	40	32	96
December Average	10 15	2,593 2,779	1,354 1,425	24 21	55 60	8,489 8,565	387 359	12,912 13,223	26 29	51 60	31 41	109 130
_		•	,									
2012 January	12	2,426	1,313	24	62	8,026	293	12,157	24	55	34	114
February	11	2,538	1,350	23	67	8,452	284	12,726	22	47	27	96
March	14	2,613	1,382	22	54	8,463	310	12,857	18	34	29	81
April 4-Month Average	14 13	2,755 2,582	1,359 1,351	20 22	59 61	8,644 8,394	313 300	13,164 12,722	24 22	27 41	28 30	79 93
2011 4-Month Average	13	2,644	1,385	22	65	8.472	455	13.057	32	67	44	144
2010 4-Month Average	13	2,572	1,386	22	63	8,579	410	13,045	40	67	53	160

^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 and independent power producers.

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

blended into distillate ruer oil.

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector, Other" on Table 3.7b.

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

blended into motor gasoline.

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

amounts of kerosene and jet fuel.

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

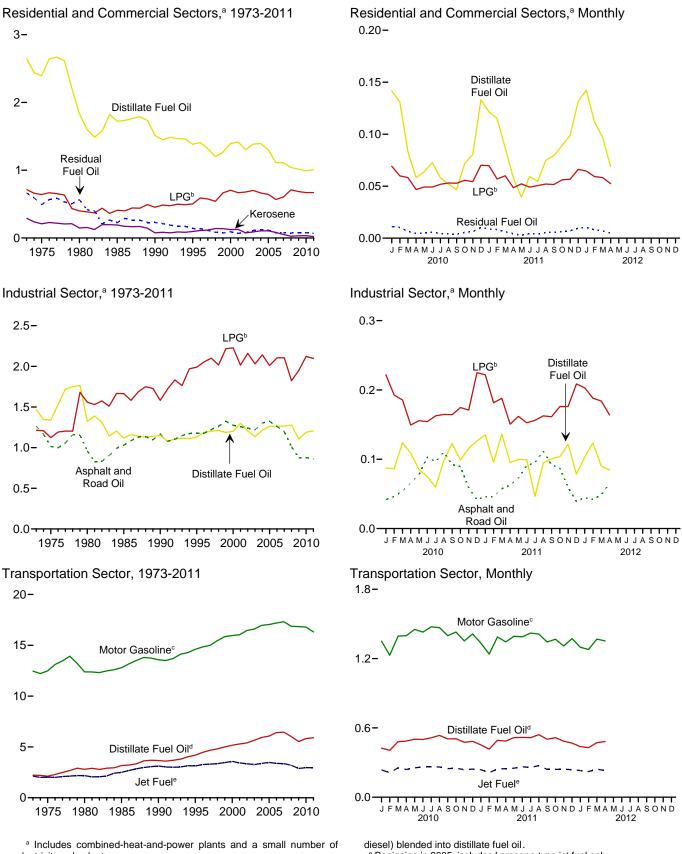
Notes: • Transportation sector data are estimates. • For total petroleum

consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a-3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

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



electricity-only plants.

^b Liquefied petroleum gases.

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

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

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

Sources: Tables 3.8a-3.8c.

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

		Resident	ial Sector				Con	nmercial Sec	ctora		
	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Total
1973 Total	2,003	227	570	2,800	644	65	147	87	NA	665	1,607
1975 Total	1,807	161	512	2,479	587	49	129	89	NA	492	1,346
1980 Total	1,316	107	311	1,734	518	41	88	107	NA	565	1,318
1985 Total	1,092	159	314	1,565	631	33	95	96	NA	228	1,083
1990 Total	978	64	352	1,394	536	12	102	111	0	230	991
1995 Total	905	74	395	1,374	479	22	109	18	(s)	141	769
1996 Total	926	89	469	1,484	483	21	122	27	(s)	137	790
1997 Total	874	93	455	1,422	444	25	120	43	(s)	111	743
1998 Total	772	108	424	1,304	429	31	118	39	(s)	85	702
1999 Total	828	111	526	1,465	438	27	140	28	(s)	73	707
2000 Total	905	95	555	1,554	491	30	150	45	(s)	92	807
2001 Total	908	95	526	1,529	508	31	143	37	(s)	70	790
2002 Total	860	60 70	537 544	1,457	444	16 10	141 157	45 60	(s)	80 111	726
2003 Total	905 924	70 85	544 512	1,519 1,520	481 470	19 20	157 152	60 45	(s) (s)	111 122	828 810
2004 Total 2005 Total	924 854	84	512 513	1,451	447	20	131	45 46	(S) (S)	116	762
2006 Total	712	66	446	1,431	401	15	123	46 49	(s) (s)	75	664
2007 Total	726	44	484	1,254	384	9	121	61	(s)	75 75	651
2008 Total	669	21	553	1,243	372	4	158	46	(s)	73	653
2009 Total	602	28	547	1,176	413	4	139	53	(s)	76	685
2010 January	83	2	55	140	58	(s)	14	4	(s)	11	89
February	77	4	47	128	54	`1	13	4	(s)	10	82
March	49	1	46	96	34	(s)	12	5	(s)	6	58
April	34	1	37	72	24	(s)	10	5	(s)	5	43
May	37	1	39	78	26	(s)	10	5	Ô	5	47
June	43	2	39	83	30	(s)	10	5	0	6	51
July	34	2	41	78	24	(s)	11	5	0	5	45
August	31	1	42	74	21	(s)	11	5	(s)	4	42
September	27	1	42	70	19	(s)	11	5	(s)	4	39
October	42	2	44	88	30	(s)	12	5	(s)	6	52
November	47	6	43	96	33	1	11	4	(s)	6	56
December	78	6	_55	140	55	1	15	_5	(s)	10	86
Total	583	29	530	1,142	410	5	140	55	(s)	77	688
2011 January	71	2	55	129	50	(s)	15	4	(s)	9	78 70
February	68	5	45 47	118	48	1	12	4	(s)	8	73
March	51	3	47	102	36	1	13	5 4	(s) 0	6 4	60
April	34 23	(c)	38 41	73 64	24 16	(s)	10 11	4 5	0	3	43 35
May	23 35	(s) 1	39	64 74	24	(s)	10	5	0	3 4	35 44
June	35 32	1	39 40	74 73	24	(s) (s)	10	5 5	0	4	44 42
July August	32 44	1	40	73 86	31	(s)	11	5	0	5	52
September	47	2	41	89	33	(s)	11	4	0	6	54
October	52	(s)	44	96	37	(s)	12	5	0	6	59
November	58	1	45	104	41	(s)	12	4	(s)	7	64
December	77	1	52	131	54	(s)	14	5	(s)	9	82
Total	592	18	530	1,139	417	3	140	54	(s)	73	686
2012 January	84	(s)	51	135	59	(s)	13	4	(s)	10	87
February	66	3	47	115	46	(s)	12	4	(s)	8	71
March	57	(s)	46	103	40	(s)	12	5	(s)	7	64
April	40	(s)	41	82	28	(s)	11	4	(s)	5	49
4-Month Total	247	3	186	436	174	`1	49	17	(s)	30	271
2011 4-Month Total 2010 4-Month Total	224 243	12 8	186 185	421 436	158 171	2 1	49 49	18 18	(s) (s)	27 32	254 271

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

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

blended into motor gasoline.

and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c.

• See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section.

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

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

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

Sources: See end of section.

Table 3.8b Heat Content of Petroleum Consumption: Industrial Sector

(Trillion Btu)

	Industrial Sector ^a												
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total			
1973 Total	1,264	1,469	156	1,215	195	255	558	1,858	2,114	9,083			
1975 Total	1,014	1,339	119	1,123	149	223	540	1,509	2,109	8,127			
1980 Total	962	1,324	181	1,559	182	158	516	1,349	3,278	9,509			
1985 Total	1,029	1,119	44	1,664	166	218	575	748	2,152	7,714			
1990 Total	1,170	1,150	12	1,582	186	185	714	411	2,839	8,251			
1995 Total	1,178	1,131	15	1,990	178	200	721	337	2,837	8,588			
1996 Total	1,176	1,187	18	2,054	173	200	757	335	3,121	9,020			
1997 Total	1,224	1,203	19	2,100	182	212	727	291	3,298	9,256			
1998 Total	1,263	1,211	22	2,016	191	199	858	230	3,093	9,083			
1999 Total	1,324	1,187	13 16	2,217	193 190	152 150	936 796	207 241	3,129 2,979	9,357			
2000 Total	1,276 1,257	1,200 1,300	23	2,228 2,014	174	295	858	203	3,056	9,076 9,181			
2001 Total 2002 Total	1,257	1,300	23 14	2,014	174	295 309	842	203 190	3,056	9,161			
2003 Total	1,220	1,136	24	2,030	159	324	825	220	3,264	9,202			
2004 Total	1,304	1,214	28	2,141	161	372	934	249	3,428	9,831			
2005 Total	1,323	1,264	39	2.009	160	356	889	281	3,318	9,640			
2006 Total	1,261	1,263	30	2,104	156	376	934	239	3,416	9,780			
2007 Total	1,197	1,265	13	2,106	161	306	906	193	3,313	9,461			
2008 Total	1,012	1,277	4	1,823	150	250	868	198	2,941	8,523			
2009 Total	873	1,107	4	1,950	135	244	799	106	2,611	7,829			
2010 January	42	87	(s)	222	11	23	38	11	215	650			
February	46	87	1	193	12	21	45	10	202	615			
March	54	124	(s)	186	13	23	67	11	252	730			
April	66	109	(s)	149	12	23	58	11	251	681			
May	78	85	(s)	156	12	24	51	10	240	657			
June	103	75	(s)	154	14	24	60	8	237	676			
July	97	60	1	163	14	25	57	10	242	667			
August	110 92	98 123	(s) (s)	165 164	12 13	25 23	69 67	8 10	259 227	747 719			
September October	89	99	(s)	175	12	24	52	10	215	676			
November	59	116	(5)	173	12	23	61	10	227	680			
December	42	126	2	225	11	24	57	10	233	729			
Total	878	1,188	7	2,121	149	281	682	120	2,800	8,227			
2011 January	46	135	1	222	13	22	53	13	239	744			
February	46	95	1	182	11	21	36	11	202	605			
March	58	136	1	188	14	23	50	11	259	740			
April	63	95	(s)	151	12	23	55	12	234	644			
May	73	100	(s)	162	12	23	68	10	199	647			
June	91	99	(s)	153	11	23	59	9	236	681			
July	95	46	(s)	156	11	24	53	6	260	652			
August	112	94	(s)	163	13	24	72 54	6	227	711			
September	92 87	101	(s)	161 176	12	22 23	54 68	9 8	208 201	660 676			
October	87 59	104 122	(s)	176 176	10 12	23	68 58	8 7	201	676 678			
November December	59 39	122 78	(s) (s)	176 209	12 11	22	58 49	7 10	222	678 643			
Total	860	1, 207	4	2,097	141	273	674	113	2,712	8,081			
2012 January	44	103	(s)	203	12	22	58	8	238	689			
February	42	124	1	188	13	21	44	7	219	658			
March	49	90	(s)	184	11	23	54	8	209	627			
April	65	85	(s)	164	11	23	56	8	201	613			
4-Month Total	200	401	`1	739	47	89	212	31	867	2,587			
2011 4-Month Total 2010 4-Month Total	212 208	462 407	3 2	742 749	50 49	89 90	193 207	47 43	934 920	2,733 2,676			

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

Notes: • Data are estimates. • For total heat content of petroleum consumption Notes: • Data are estimates. • For total neat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#petroleum for all available data beginning in 1973.

Sources: See end of section.

Sources: See end of section.

a Industrial sector fuel use, including that at industrial combined-neat-and-power (CHP) and industrial electricity-only plants.
 b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
 c Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel Beginning in 2005. also includes naphtha-type jet fuel. as fuel. Beginning in 2005, also includes naphtha-type jet fuel. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

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

T T				Electric Power Sector ^a								
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel [©]	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oile	Petro- leum Coke	Residual Fuel Oil ^f	Total
1973 Total	83	2,222	2,131	49	163	12,455	727	17,832	273	15	3,226	3,515
1975 Total	71	2,121	2,029	43	155	12,485	711	17,615	226	2	2,937	3,166
1980 Total	64	2,795	2,179	18	172	12,383	1,398	19,009	169	5	2,459	2,634
1985 Total	50	3,170	2,497	30	156	12,784	786	19,472	85	7	998	1,090
1990 Total	45	3,661	3,129	23	176	13,575	1,016	21,626	97	30	1,163	1,289
1995 Total	40	4,195	3,132	18	168	14,607	911	23,070	108	81	566	755
1996 Total	37	4,469	3,274	16	163	14,837	851	23,648	109	80	628	817
1997 Total	40	4,672	3,308	14	172	14,999	712	23,918	111	102	715	927
1998 Total	35	4,812	3,357	18	180	15,463	674	24,538	136	124	1,047	1,306
1999 Total	39	5,001	3,462	14	182	15,855	665	25,219	140	112	959	1,211
2000 Total	36	5,165	3,580	12	179	15,960	888	25,820	175	99	871	1,144
2001 Total	35 34	5,292	3,426	14	164	16,041	586	25,557	171	103	1,003 659	1,277
2002 Total		5,392	3,340	14	162	16,465	677	26,085	127	175		961
2003 Total 2004 Total	30 31	5,666 5,932	3,265 3,383	17 19	150 152	16,597 16,962	571 740	26,297 27,219	161 111	175 222	869 879	1,205 1,212
2005 Total	35	6.076	3,475	28	151	17,043	837	27,645	115	243	876	1,212
2006 Total	33	6.414	3,475	26 27	147	17,043	906	28,105	74	214	361	648
2007 Total	33 32	6.457	3,358	22	152	17,197	994	28,335	89	171	397	657
2008 Total	28	6.020	3,193	40	141	16.872	920	27,214	73	154	240	468
2009 Total	27	5,528	2,883	28	127	16,837	810	26,240	70	139	181	390
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2010 January	2	425	236	3	11	1,351	79	2,107	14	12	18	45
February	1	406	213	3	11	1,229	64	1,928	5	12	7	23
March	2	481	254	3	13	1,394	79	2,225	4	13	8	25
April	3	486	240	2	12	1,398	88	2,227	4	11	8	23
May	2	502	254	2	12	1,453	73	2,299	6	12	13	31
June	3	499	263	2	14	1,429	61	2,270	7	14	20	41
July	3	514	263	2	13	1,475	78	2,348	8	15	23	46
August	2	535	261	2	12	1,468	61	2,342	6	12	19	37
September	3	505	248	2	12	1,398	72	2,240	5	11	12	28
October	2	506	251	2	12	1,430	72	2,276	4	10	7	22
November	2	475	238	2	11	1,353	80	2,161	5	9	7	21
December	2 27	484 5,818	243 2,963	3 29	10 141	1,413 16,791	69 877	2,224 26,646	11 80	12 144	13 154	36 378
Total	21	5,616	2,903	29	141	10,791	0//	20,040	80	144	154	3/0
2011 January	2	453	238	3	12	1,334	89	2,132	7	15	11	33
February	2	416	213	2	10	1,239	84	1,966	5	11	6	23
March	3	493	244	3	14	1,388	82	2,226	5	14	7	26
April	1	486	247	2	12	1,345	88	2,181	5	9	9	23
May	3	516	251	2	11	1,393	73	2,249	5	9	8	22
June	3	518	263	2	10	1,388	67	2,251	6	11	8	25
July	3	516	258	2	10	1,421	42	2,251	7	14	10	31
August	3	541	273	2	12	1,412	42	2,286	5	12	9	25
September	2	502	241	2	11	1,343	70	2,171	4	11	6	22
October	3	515	241	2	10	1,367	58	2,196	4	9	6	19
November	2	484	243	2	11	1,309	54	2,105	4	7	6	17
December	2	468	238	3	10	1,373	75	2,170	5	10	6	20
Total	27	5,908	2,950	29	133	16,312	823	26,182	62	132	94	288
2012 January	2	438	231	3	12	1.298	57	2.041	4	10	7	21
February	2	429	222	3	12	1,279	52	1,998	4	8	5	17
March	2	472	243	3	10	1,369	60	2,159	3	6	6	15
April	2	481	231	2	11	1,353	59	2,140	4	5	5	14
4-Month Total	8	1,820	927	10	44	5,299	228	8,337	16	30	23	68
2011 4-Month Total 2010 4-Month Total	8 8	1,848 1,798	942 943	10 10	47 46	5,305 5,372	343 310	8,504 8,486	22 28	49 48	33 40	105 116

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS ^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.
 ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
 ^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector Other" on Table 3.8b.
 ^d Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
 ^e Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.

 $^{^{\}rm f}$ Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small

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

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

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

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

Petroleum

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 3.1 Sources

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

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

1981–2009: EIA, *Petroleum Supply Annual (PSA)*, annual reports.

2010 forward: EIA, PSA, annual report; *Petroleum Supply Monthly*, monthly reports; revisions to crude oil production, total field production, and adjustments (based on crude oil production data from: State government agencies; U.S. Department of the Interior, Bureau of Safety and Environmental Enforcement, and predecessor agencies; and Form EIA-182, "Domestic Crude Oil First Purchase Report"); and, for the current two months, *Weekly Petroleum Status Report* data system and *Monthly Energy Review* data system calculations.

Table 3.6 Sources

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

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

Jet Fuel

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

Liquefied Petroleum Gases (LPG) Total

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

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

Motor Gasoline

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

Other Petroleum Products

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

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

Total Petroleum

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

Tables 3.7a-3.7c Sources

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

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

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

1981–2010: EIA, Petroleum Supply Annual.

2011 and 2012: EIA, Petroleum Supply Monthly.

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

Asphalt and Road Oil

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

Aviation Gasoline

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

Distillate Fuel Oil

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

Distillate Fuel Oil Consumed by the Electric Power Sector

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

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

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

Following are notes on the individual sector groupings:

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

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

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

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

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

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

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

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

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

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

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

Jet Fuel

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

Kerosene

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

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

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

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

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

Liquefied Petroleum Gases (LPG)

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

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

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

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

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

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

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

Lubricants

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

Motor Gasoline

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

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

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

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

Petroleum Coke

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

Residual Fuel Oil

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

Residual Fuel Oil Consumed by the Electric Power Sector

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

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

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

Following are notes on the individual sector groupings:

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

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

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

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

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

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

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

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

Other Petroleum Products

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

Table 3.8a Sources

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

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

Liquefied Petroleum Gases (LPG)

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

Motor Gasoline

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

Total Petroleum

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

Table 3.8b Sources

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

Liquefied Petroleum Gases (LPG)

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

Motor Gasoline

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

Other Petroleum Products

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

Total Petroleum

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

Table 3.8c Sources

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

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

Jet Fuel

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

Liquefied Petroleum Gases (LPG)

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

Motor Gasoline

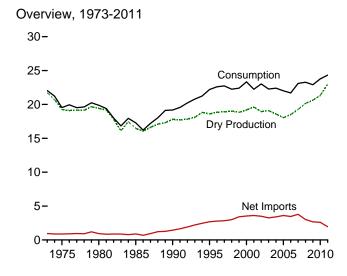
Transportation sector consumption data in thousand barrels per day for motor gasoline are from Table 3.7c, and are converted to trillion Btu by multiplying by the motor gasoline heat content factors in Table A3.

Total Petroleum

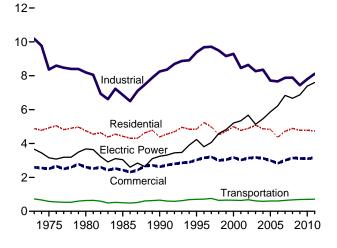
Transportation sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Transportation Sector" in Table 3.8c. Electric power sector total petroleum consumption is the sum of the data in trillion Btu for the petroleum products shown under "Electric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

4. Natural Gas

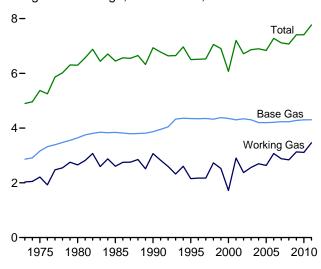
Figure 4.1 Natural Gas (Trillion Cubic Feet)



Consumption by Sector, 1973-2011

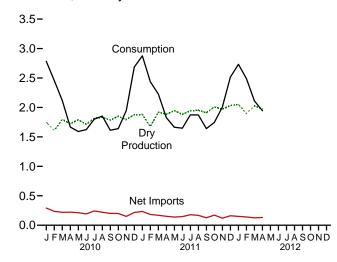


Underground Storage, End of Year, 1973-2011



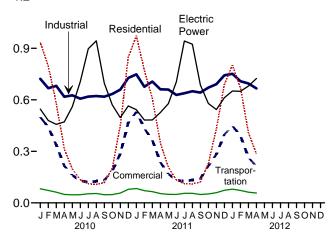
Web Page: http://www.eia.gov/totalenergy/data/monthly/#naturalgas. Sources: Tables 4.1, 4.3, and 4.4.

Overview, Monthly



Consumption by Sector, Monthly

1.2-



Underground Storage, End of Month

Total

Working Gas

Base Gas

JFMAMJJA SONDJFMAMJJA SONDJFMAMJJA SOND
2010
2011
2012

Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

(2	- Cabic	1		ı	1						
	Gross	Marketed			Supple- mental		Trade		Net Storage		
	With- drawals ^a	Production (Wet) ^b	Extraction Loss ^c	Dry Gas Production ^d	Gaseous Fuels ^e	Imports	Exports	Net Imports	With- drawals ^f	Balancing Item ^g	Consump- tion ^h
1973 Total	24.067	ⁱ 22.648	917	^j 21,731	NA	1,033	77	956	-442	-196	22,049
1975 Total	21,104	¹ 20,109	872	¹ 19,236	NA	953	73	880	-344	-235	19,538
1980 Total	21,870	20,180	777	19,403	155	985	49	936	23	-640	19,877
1985 Total	19,607	17,270	816	16,454	126	950	55	894	235	-428	17,281
1990 Total	21,523	18,594	784	17,810	123	1,532	86	1,447	-513	307	^j 19,174
1995 Total	23,744	19,506	908	18,599	110	2,841	154	2,687	415	396	22,207
1996 Total	24,114	19,812	958	18,854	109	2,937	153	2,784	2	860	22,609
1997 Total	24,213	19,866	964	18,902	103	2,994	157	2,837	_24	871	22,737
1998 Total	24,108	19,961	938	19,024	102	3,152	159	2,993	-530	657	22,246
1999 Total	23,823 24.174	19,805	973	18,832	98 90	3,586	163 244	3,422	172 829	-119 -306	22,405
2000 Total 2001 Total	24,174	20,198 20,570	1,016 954	19,182 19,616	90 86	3,782 3,977	373	3,538 3,604	-1,166	-306 99	23,333 22,239
2002 Total	23,941	19,885	957	18,928	68	4.015	516	3,499	467	65	23,027
2003 Total	24.119	19,974	876	19.099	68	3.944	680	3,264	-197	44	22,277
2004 Total	23,970	19,517	927	18,591	60	4,259	854	3,404	-114	461	22,403
2005 Total	23,457	18,927	876	18,051	64	4,341	729	3.612	52	236	22,014
2006 Total	23,535	19,410	906	18,504	66	4,186	724	3,462	-436	103	21,699
2007 Total	24,664	20,196	930	19,266	63	4,608	822	3,785	192	-203	23,104
2008 Total	25,636	21,112	953	20,159	61	3,984	963	3,021	34	2	23,277
2009 Total	26,057	21,648	1,024	20,624	65	3,751	1,072	2,679	-355	-103	22,910
2010 January	2,224	1,838	88	1,750	5	385	94	291	822	-86	2,783
February	2,057	1,692	81	1,611	5	324	88	236	628	-24	2,456
March	2,296	1,884	90	1,794	5	319	100	219	34	65	2,117
April	2,187	1,810	86	1,723	5	298	76	223	-364	80	1,667
May	2,231	1,881 1,797	90 86	1,791 1,712	5 5	298 282	86 90	212 192	-416 -326	-2 41	1,591 1,624
June July	2,134 2,221	1,908	91	1,712	6	329	86	243	-231	-35	1,800
August	2,221	1,900	92	1.832	6	305	84	221	-190	-35 -15	1,853
September	2,251	1,874	89	1,785	5	282	79	202	-363	-16	1,612
October	2,343	1,942	93	1,849	6	295	96	199	-360	-54	1,639
November	2,266	1,882	90	1,792	5	273	124	150	77	-78	1,947
December	2,388	1,971	94	1,877	6	352	135	217	675	-89	2,685
Total	26,836	22,402	1,070	21,332	65	3,741	1,137	2,604	-13	-213	23,775
2011 January	2,309	E 1,972	92	E 1,880	6	371	136	235	799	R-44	R 2,876
February	2,109	E 1,752	79	E 1,674	5	308	125	183	584	R -12	R 2,434
March	2,423	E 2,020	99	E 1,921	6	314	145	170	145	R ₋ 16	R 2,226
April	2,363 2.420	E 1,979 E 2.046	95 101	E 1,884 E 1.945	5 3	278 271	127 132	152 139	-212 -398	R -2 R -26	^R 1,826 ^R 1,663
May June	2,420	E 1,977	95	E 1,881	5 5	265	120	146	-396 -340	R -42	R 1,649
July	2,344	E 2.044	99	E 1.944	5	293	113	179	-244	R -11	R 1.874
August	2,371	E 2,051	99	E 1,951	5	279	111	168	-244	R -8	R 1,872
September	2,371	E 2,005	95	E 1,910	5	253	127	127	-398	R -3	R 1,640
October	2,496	E 2,112	104	E 2,008	5	281	110	171	-385	-53	R 1,746
November	2,483	E 2,074	104	E 1,971	5	247	128	120	-37	-52	R 2,006
December Total	2,557 28,576	E 2,138 E 24,170	107 1,169	E 2,031 E 23,000	6 61	295 3,456	134 1,507	161 1,949	384 -348	-66 R -336	2,515 R 24,326
			,	•				•			
2012 January	2,575	RE 2,160	109	RE 2,051	6	281	130	150	545	R -20	2,732
February	2,380 R 2,539	^{RE} 1,999 ^{RE} 2.134	102 ^R 109	^{RE} 1,897 ^{RE} 2.025	5 6	270 266	130 141	140	459 -39	^R -13 ^R -7	^R 2,489 ^R 2,110
March April	2,450	E 2,134	105	E 1,973	5	255	123	125 132	-39 -137	-28	1,944
4-Month Total	9,944	E 8,371	425	E 7,947	22	1,071	524	548	828	-68	9,275
2011 4-Month Total	9,205 8 763	E 7,723	365 345	E 7,359	22 21	1,271	532 357	739 969	1,316 1,120	-73 35	9,362 9,023
2010 4-Month Total	8,763	7,223	343	6,878	21	1,326	357	909	1,120	33	9,023

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

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

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

Notes: • See Note 8, "Natural Gas Adjustments, 1993-2000," at end of section.

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

Sources: • Imports and Exports: Table 4.2. • Consumption: Table 4.3.

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

condensate.

^b Gross withdrawals minus repressuring, nonhydrocarbon gases removed, and

vented and flared. See Note 1, "Natural Gas Production," at end of section.

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

^d Marketed production (wet) minus extraction loss.

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

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

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

⁹ See Note 5, "Natural Gas Balancing Item," at end of section. Since 1980, excludes transit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination via the other country).

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

ⁱ May include unknown quantities of nonhydrocarbon gases.

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

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

					Imports				Exports					
	Algeria ^a	Canada ^b	Egypta	Mexico ^b	Nigeria ^a	Qatara	Trinidad and Tobago ^a	Other ^{a,c}	Total	Canada ^b	Japan ^a	Mexico ^b	Other ^{a,d}	Total
	Aigeria	Odridud	-9ург	MICKICO	Migeria	Quitai	Tobago	Other	Total	Janada	oupun	WICKIGO	Other	Total
1973 Total	3	1,028	0	2	0	0	0	0	1,033	15	48	14	0	77
1975 Total	5 86	948 797	0	0 102	0	0	0 0	0 0	953 985	10	53 45	9 4	0	73 49
1985 Total	24	926	ŏ	0	ő	ŏ	Ö	Ŏ	950	ŏ	53	2	Ŏ	55
1990 Total	84	1,448	0	0	0	0	0	0	1,532	17	53	16	0	86
1995 Total	18	2,816	0	7 14	0	0	0	0	2,841	28	65 68	61 34	0	154
1996 Total	35 66	2,883 2.899	0	17	0	0	0	5 12	2,937 2,994	52 56	62	34 38	0	153 157
1998 Total	69	3,052	ŏ	15	ŏ	ŏ	ŏ	17	3,152	40	66	53	ŏ	159
1999 Total	76	3,368	0	55	0	20	51	17	3,586	39	64	61	0	163
2000 Total	47	3,544	0	12	13	46	99	21	3,782	73	66	106	0	244
2001 Total	65 27	3,729 3,785	0	10 2	38 8	23 35	98 151	14 8	3,977 4.015	167 189	66 63	141 263	0	373 516
2003 Total	53	3,437	ŏ	Õ	50	14	378	11	3,944	271	66	343	Ŏ	680
2004 Total	120	3,607	0	0	12	12	462	46	4,259	395	62	397	0	854
2005 Total	97	3,700	73 120	9	8	3 0	439 389	11 0	4,341	358 341	65 61	305	0 0	729
2006 Total	17 77	3,590 3.783	115	13 54	57 95	18	389 448	18	4,186 4.608	482	47	322 292	2	724 822
2008 Total	0	3,589	55	43	12	3	267	15	3,984	559	39	365	ō	963
2009 Total	0	3,271	160	28	13	13	236	29	3,751	701	31	338	3	1,072
2010 January	0	327	17	1	0	12	22	6	385	68	2	23	0	94
February	0	277	12	1	0	6	16	12	324	60	2	22	3	88
March	0	276 252	9 6	5 5	3 9	1 9	16 15	9 3	319 298	77 50	2 4	21 22	0	100 76
April May	0	252 257	9	4	9	0	16	3	298 298	55	2	29	0	86
June	Ö	248	6	2	11	ő	11	5	282	51	2	34	3	90
July	0	291	6	1	5	0	17	8	329	50	4	32	0	86
August	0	282 250	0 6	1 3	0 3	0	17 16	5 3	305 282	49 50	2 7	33 23	0	84 79
September October	0	250 257	3	3 4	2	5	15	9	202 295	63	2	25 25	6	96
November	Ö	242	Ö	(s)	0	9	14	9	273	84	2	30	8	124
December	0	322	0	<u>`</u> 1	0	4	15	9	352	82	3	38	12	135
Total	0	3,280	73	30	42	46	190	81	3,741	739	33	333	32	1,137
2011 January	0	331	3	(s)	0	13	16	9	371	85	2	37	13	136
February March	0	276 275	6 6	(s) (s)	0	0 14	11 10	15 9	308 314	84 98	2 2	37 41	3 3	125 145
April	0	245	6	(s)	0	4	11	13	278	76	2	43	6	127
May	Ō	235	3	(s)	Ö	24	8	0	271	80	3	44	6	132
June	0	238	6	(s)	0	5	11	6	265	71	2	47	0	120
July August	0	272 249	0	(s) (s)	0 2	5 8	13 11	3 9	293 279	64 67	0 2	47 42	3 0	113 111
September	0	233	0	(s) (s)	0	4	8	9	253	77	2	39	8	127
October	0	250	3	1	0	8	8	12	281	64	0	43	3	110
November	0	232	0	(s)	0	3	12	0	247	84	2	39	3	128
December Total	0 0	269 3,104	3 35	(s) 3	0 2	4 91	10 129	9 92	295 3,456	87 937	0 18	42 500	5 52	134 1,507
2012 January	0	265	0	(s)	0	4	9	3	281	84	3	40	3	130
February	0	250	3	(s)	0	0	11	6	270	86	2	42	0	130
March	0	247	0	(s)	0	4	13	3	266	93	0	46	3	141
April 4-Month Total	0 0	247 1,009	0 3	(s) (s)	0 0	4 11	1 35	3 14	255 1,071	77 340	0 5	45 173	0 6	123 524
2011 4-Month Total	0	1,127	20	1	0	31	48	45	1,271	343	8	157	25	532
2010 4-Month Total	0	1,132	43	13	11	28	69	29	1,326	256	10	88	3	357

(s)=Less than 500 million cubic feet.

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

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

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

available data beginfling in 1973.

Sources: • 1973-1987: U.S. Energy Information Administration (EIA), Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."
• 1988-2008: EIA, Natural Gas Annual, annual reports. • 2009 forward: EIA, Natural Gas Monthly, June 2012, Tables 4 and 5; and U.S. Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports."

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

forward; Oman in 2000-2005; Peru in 2010 and 2011; United Arab Emirates in 1996-2000; Yemen in 2010 forward; and Other (unassigned) in 2004.

d Brazil in 2010 forward; China in 2011; Chile in 2011; India in 2010 forward;

Russia in 2007; South Korea in 2009-2011; Spain in 2010 and 2011; and United Kingdom in 2010 and 2011.

Table 4.3 Natural Gas Consumption by Sector

(Billion Cubic Feet)

		510 1 001	,		End-II	se Sectors						
					Industrial	30 0001013		Tr	ansportatio	ın		
					Other Industr	rial		Pipelinesd	ansportatio	,,, 	Electric	
	Resi- dential	Com- mercial ^a	Lease and Plant Fuel	CHPb	Non-CHP ^C	Total	Total	and Dis- tribution ^e	Vehicle Fuel	Total	Power Sector ^{f,g}	Total
1973 Total 1975 Total 1975 Total 1985 Total 1985 Total 1990 Total 1995 Total 1995 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	4,924 4,753 4,391 4,850 5,241 4,520 4,726 4,996 4,771 4,889 5,079 4,869 4,827 4,368 4,722	2,597 2,508 2,611 2,432 2,623 3,031 3,158 3,215 2,999 3,045 3,182 3,023 3,144 3,179 2,999 2,832 3,013 3,153 3,119	1,496 1,396 1,026 966 1,236 1,220 1,203 1,173 1,079 1,151 1,119 1,113 1,122 1,098 1,112 1,142 1,226 1,220 1,275	(h) (h) (h) (h) (h) 1,055 1,258 1,282 1,355 1,401 1,310 1,240 1,144 1,115 1,084 1,115 1,050 955 990	8,689 6,968 7,172 5,963 6,906 7,229 6,965 6,678 6,757 6,035 6,287 6,007 6,066 5,518 5,412 5,604 5,715 5,178	8,689 6,968 7,172 5,901 7,018 8,164 8,435 8,511 8,320 8,079 8,142 7,327 7,150 7,256 6,601 6,527 6,655 6,670 6,167	10,185 8,365 8,198 6,867 8,255 9,384 9,685 9,714 9,493 9,158 9,293 8,640 8,273 8,640 8,273 7,713 7,669 7,881 7,890 7,443	728 583 635 504 660 700 711 751 635 645 642 625 667 591 584 584 648 670	NA NA NA (s) 5 6 8 9 12 13 15 15 18 21 23 24 25 26 27	728 583 635 504 660 705 718 760 645 657 655 640 682 610 587 607 608 646 674 697	3,660 3,158 3,682 3,044 3,245 4,237 3,807 4,065 4,588 4,820 5,206 5,342 5,672 5,135 5,464 5,869 6,222 6,841 6,668 6,873	22,049 19,538 19,877 17,281 19,174 22,207 22,609 22,737 22,246 22,405 23,333 22,239 23,027 22,277 22,277 22,014 21,699 23,104 23,277 22,910
2010 January	934 796 580 313 198 134 111 107 117 202 447 848 4,787	499 441 337 215 161 130 120 127 133 185 287 467 3,102	106 98 109 104 107 102 107 108 107 112 108 114 1,282	90 80 84 79 82 84 91 95 87 84 82 92 1,029	526 490 488 435 437 420 419 424 438 469 521 5,488	616 570 572 514 519 504 512 514 511 522 551 613 6,517	722 667 681 618 626 607 619 622 618 634 659 727 7,800	80 70 60 46 44 45 50 52 45 45 55 76 669	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	82 72 62 49 47 48 53 55 47 48 57 79	546 480 457 471 560 706 897 943 697 570 497 564 7,387	2,783 2,456 2,117 1,667 1,591 1,624 1,800 1,853 1,612 1,639 1,947 2,685 23,775
2011 January		529 433 364 236 168 133 126 133 141 216 283 398 3,161	E113 E100 E116 E113 E117 E117 E117 E117 E115 E121 E119 E122 E1,383	89 79 81 82 87 83 88 89 84 81 86 94 1,024	R 546 R 497 R 509 R 465 R 456 R 433 R 443 R 443 R 443 R 443 R 443 R 446 R 526 R 5,707	R 635 R 576 R 591 R 548 R 543 R 515 R 521 R 533 R 527 550 572 620 R 6,731	R 748 R 676 R 706 R 661 R 660 R 629 R 638 R 650 R 642 671 691 742	E 81 RE 68 E 63 E 51 E 47 RE 46 E 53 E 53 E 46 E 56 E 71 RE 684	E 3 3 3 3 3 5 E E B B B B B B B B B B B B B B B B B	E 84 E 71 RE 65 E 54 E 50 E 49 RE 55 RE 55 E 49 E 52 E 59 E 74	542 482 483 526 578 705 942 923 686 578 543 612 7,602	R 2,876 R 2,434 R 2,226 R 1,826 R 1,663 R 1,649 R 1,874 R 1,872 R 1,640 R 1,746 R 2,006 2,515 R 24,326
2012 January	802 668 409 284 2,163	448 391 264 213 1,315	RE 124 E 114 RE 122 E 119 E 479	94 87 89 84 354	534 507 484 463 1,987	628 594 573 547 2,341	751 R 708 R 695 666 2,820	E 77 E 70 E 59 E 55 E 261	E3 E3 E3 E11	E 80 E 73 E 62 E 57 E 272	651 649 680 724 2,705	2,732 R 2,489 R 2,110 1,944 9,275
2011 4-Month Total 2010 4-Month Total	2,700 2,623	1,563 1,492	E 442 417	332 332	2,017 1,939	2,349 2,271	2,791 2,688	^E 263 256	E 11 10	E 274 266	2,033 1,954	9,362 9,023

a All commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Table 7.4c for CHP fuel use.
b Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants.
c All industrial sector fuel use other than that in "Lease and Plant Fuel" and "CHP."
d Natural gas consumed in the operation of the constant of th

gaseous fuels. • See Note 8, "Natural Gas Adjustments, 1993-2000," at end of section. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#naturalgas for all available data beginning in 1973.

Sources: • Residential, Commercial, Lease and Plant Fuel, Other Industrial Total and Pipelines and Distribution: 1973-2006—U.S. Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports and unpublished revisions. 2007 forward—EIA, Natural Gas Monthly (NGM), June 2012, Table 2. • Industrial CHP: Table 7.4c. • Vehicle Fuel: 1990 and 1991—EIA, NGA 2000, (November 2001), Table 95. 1992-1998—EIA, "Alternatives to Traditional Transportation Fuels 1999" (October 1999), Table 10, and "Alternatives to Traditional Transportation Fuels 2003" (February 2004), Table 10. Data for compressed natural gas and liquefied natural gas in gasoline-equivalent gallons were converted to cubic feet by multiplying by the motor gasoline conversion factor (see Table A3) and dividing by the natural gas end-use sectors conversion factor (see Table A4). 1999-2006—EIA, NGA, annual reports. 2007 forward—EIA, NGM, June 2012, Table 2. • Electric Power Sector: Table 7.4b.

[&]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.

h Included in "Non-CHP."

i For 1889-1992, a small amount of consumption at independent power.

h Included in "Non-CHP."

i For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector."

See Note 7, "Natural Gas Consumption, 1989-1992," at end of section.

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

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

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

973 Total 975 Total	Base Gas	Working Gas			us Year	Storage Activity Withdrawals Injections Net ^{b,c}			
975 Total		1701Killy Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,c}	
975 Total	2.864	2.034	4.898	305	17.6	1,533	1.974	-442	
	3,162	2,212	5,374	162	7.9	1,760	2,104	-344	
980 Total	3,642	2,655	6,297	-99	-3.6	1,910	1,896	14	
985 Total	3,842	2,607	6,448	-270	-9.4	2,359	2,128	231	
990 Total	3,868	3,068	6,936	555	22.1	1,934	2,433	-499	
995 Total	4,349	2,153	6,503	-453	-17.4	2,974	2,566	408	
996 Total	4,341	2,173	6,513	19	.9	2,911	2,906	6	
997 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24	
998 Total	4,326	2,730	7,056	554	25.5	2,379	2,905	-526	
999 Total	4,383	2,523	6,906	-207	-7.6	2,772	2,598	174	
000 Total	4,352	1,719	6,071	-806	-31.9	3,498	2,684	814	
001 Total	4,301	2,904	7,204	1,185	68.9	2,309	3,464	-1,156	
002 Total	4,340	2,375	6,715	-528	-18.2	3,138	2,670	468	
003 Total	4,303	2,563	6,866	187	7.9	3,099	3,292	-193	
004 Total	4,201	2,696	6,897	133	5.2	3,037	3,150	-113	
005 Total	4,200	2,635	6,835	-61	-2.3	3,057	3,002	55	
006 Total	4,211	3,070	7,281	435	16.5	2,493	2,924	-431	
007 Total	4,234	2,879	7,113	-191	-6.2	3,325	3,133	192	
008 Total	4,232	2,840	7,073	-39	-1.4	3,374	3,340	34	
009 Total	4,277	3,130	7,407	290	10.2	2,966	3,315	-349	
110 January	4,276	2,304	6,580	171	8.0	873	63	811	
February	4,278	1,683	5,961	-75	-4.2	657	38	619	
March	4,278	1,652	5,930	-7	4	238	207	31	
April	4,278	2,011	6,289	101	5.3	68	427	-360	
May	4,279	2,420	6,699	45	1.9	53	463	-410	
June	4,287	2,740	7,027	-20	7	64	385	-321	
July	4,287	2,966	7,253	-125	-4.0	112	339	-227	
August	4,290	3,153	7,443	-206	-6.1	137	323	-186	
September	4,294	3,508	7,801	-138	-3.8	52	411	-359	
October	4,305	3,851	8,156	41	1.1	52	407	-355	
November	4,309	3,769	8,078	-69	-1.8	237	163	74	
December	4,301	3,111	7,412	-19	6	731	66	665	
Total	4,301	3,111	7,412	-19	6	3,274	3,291	-17	
11 January	4,306	2,308	6,614	4	.2	852	53	799	
February	4,306	1,724	6,029	40	2.4	668	84	584	
March	4,304	1,581	5,884	-72	-4.3	317	172	145	
April	4,307	1,789	6,096	-222	-11.0	108	320	-212	
May	4,308	2,188	6,495	-232	-9.6	66	464	-398	
June	4,305	2,530	6,835	-210	-7.7	90	430	-340	
July	4,304	2,774	7,079	-192	-6.5	124	368	-244	
August	4,304	3,020	7,323	-133	-4.2	138	382	-244	
September	4,305	3,416	7,721	-92	-2.6	64	462	-398	
October	4,305	3,804	8,109	-46	-1.2	62	448	-385	
November	4,302	3,843	8,145	74	2.0	198	235	-37	
December Total	4,305 4,305	3,462 3,462	7,767 7,767	351 351	11.3 11.3	488 3,175	105 3,523	384 -348	
	,	,	•			,	,		
112 January	4,307	2,916	7,223	608	26.4	633	88	545	
February	4,307	2,455	6,762	731	42.4	526	67	459	
March	4,325	2,477	6,802	896	56.7	217	256	-39	
April 4-Month Total	4,329 	2,613 	6,942 	824 	46.1 	144 1,520	282 693	-137 828	
011 4-Month Total						1,946	630	1,316	
110 4-Month Total						1,946	734	1,316	

a For total underground storage capacity at the end of each calendar year, see Note 4, "Natural Gas Storage," at end of section.

b For 1980-2010, data differ from those shown on Table 4.1, which includes

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

O For 1980-2010, data differ from those shown on Table 4.1, which includes liquefied natural gas storage for that period.
O Positive numbers indicate that withdrawals are greater than injections.
Negative numbers indicate that injections are greater than withdrawals. Net withdrawals or injections may not equal the difference between applicable ending stocks. See Note 4, "Natural Gas Storage," at end of section.
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#naturalgas for all available data beginning in 1973.

available data beginning in 1973.

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

Natural Gas

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1975 6,280	1988 8,124	2001 8,182
1976 6,544	1989 8,120	2002 8,207
1977 6,678	1990 7,794	2003 8,206
1978 6,890	1991 7,993	2004 8,255
1979 6,929	1992 7,932	2005 8,268
1980 7,434	1993 7,989	2006 8,330
1981 7,805	1994 8,043	2007 8,402
1982 7,915	1995 7,953	2008 8,499
1983 7,985	1996 7,980	2009 8,656
1984 8,043	1997 8,332	2010 8,764
1985 8,087	1998 8,179	2011 p8,776
1986 8,145	1999 8,229	
1987 8,124	2000 8,241	

P=Preliminary

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

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

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

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

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

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

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

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

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

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

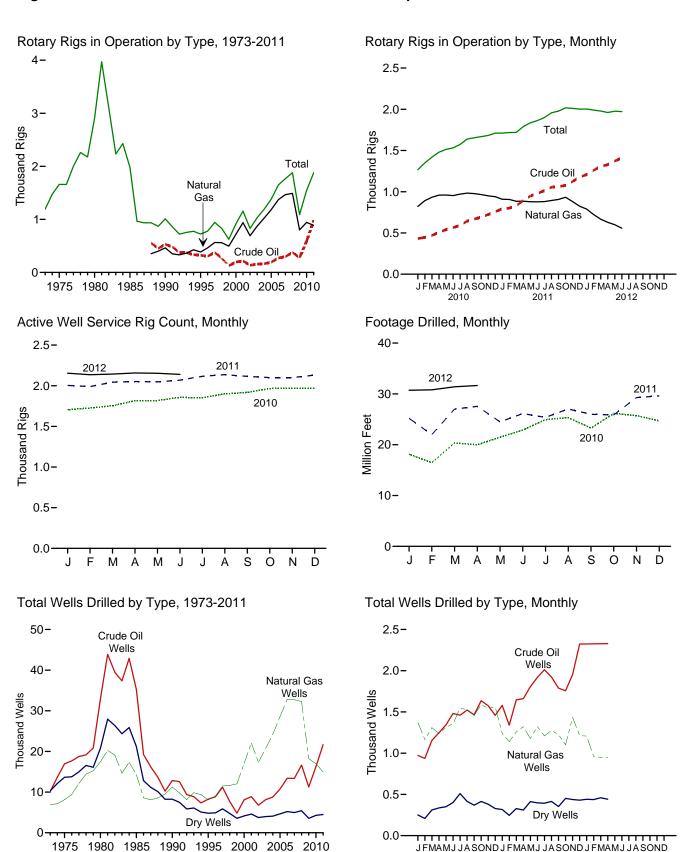
Note 9. Natural Gas Imports and Exports. The United States imports natural gas via pipeline from Canada and Mexico; and imports liquefied natural gas (LNG) via tanker from Algeria, Australia, Brunei, Egypt, Equatorial Guinea, Indonesia, Malaysia, Nigeria, Norway, Oman, Peru, Qatar, Trinidad and Tobago,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

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

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

5. Crude Oil and Natural Gas Resource Development

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators



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

2011

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements

(Number of Rigs)

		Re	otary Rigs in Operatio	n ^a		
	Ву	Site	Ву	Туре		Active Well Service
	Onshore	Offshore	Crude Oil	Natural Gas	Total ^b	Rig Count ^c
1973 Average	1,110	84	NA	NA	1,194	2,008
1975 Average	1,554	106	NA	NA	1,660	2,486
1980 Average	2,678	231	NA	NA	2,909	4,089
1985 Average	1,774	206	NA	NA	1,980	4,716
1990 Average	902	108	532	464	1,010	3,658
1995 Average	622	101	323	385	723	3,041
1996 Average	671	108	306	464	779	3,445
1997 Average	821	122	376	564	943	3,499
1998 Average	703	123	264	560	827	3,014
1999 Average	519	106	128	496	625	2,232
2000 Average	778	140	197	720	918	2,692
2001 Average	1.003	153	217	939	1.156	2,267
2002 Average	717	113	137	691	830	1,830
2003 Average	924	108	157	872	1,032	1,967
2004 Average	1.095	97	165	1.025	1,192	2,064
2005 Average	1,287	94	194	1,184	1,381	2,222
2006 Average	1.559	90	274	1,372	1,649	2,364
2007 Average	1.695	72	297	1,466	1,768	2,388
2008 Average	1,814	65	379	1,491	1,879	2,515
2009 Average	1,046	44	278	801	1,089	1,722
	.,	• • •			.,000	.,
2010 January	1,225	42	433	822	1,267	1,706
February	1,305	45	446	892	1,350	1,726
March	1,368	51	471	933	1,419	1,754
April	1,426	53	508	959	1,479	1,816
May	1,464	49	541	960	1,513	1,818
June	1,511	20	566	953	1,531	1,857
July	1,558	15	591	971	1,573	1,852
August	1,619	20	644	983	1,638	1,900
September	1,635	19	668	977	1,655	1,918
October	1,647	21	693	966	1,668	1,965
November	1,662	22	723	950	1,683	1,971
December	1,687	24	759	940	1,711	1,968
Average	1,514	31	591	943	1,546	1,854
2011 January	1,686	26	793	909	1,711	2.004
2011 January February	1,692	26	801	909	1,718	1.990
March	1,694	26	830	884	1,710	2.044
April	1,762	28	896	885	1,720	2.052
May	1.804	32	948	878	1,836	2.047
June	1,829	34	946 979	877	1,863	2,047
July	1,865	35	1.014	880	1,900	2,009
August	1,923	35	1,014	894	1,957	2,116
September	1,946	32	1,063	907	1,978	2,115
October	1,940	35 35	1,003	933	2.017	2,110
November	1,962	35 37	1,077	933 880	2,017	2,100
December	1,974	37 42	1,125	824	2,011	2,100
Average	1,846	32	984	887	1,879	2,131 2,075
	,	-			,	,
2012 January	1,961	42	1,208	790	2,003	2,154
February	1,949	42	1,261	723	1,990	2,135
March	1,935	43	1,307	667	1,979	2,143
April	1,917	44	1,329	629	1,961	2,157
May	1,931	46	1,373	600	1,977	2,153
June	1,923	49	1,409	558	1,972	2,139
6-Month Average	1,936	44	1,318	657	1,980	2,147
2011 6-Month Average	1.745	28	875	890	1,774	2.034
2010 6-Month Average	1,385	43	495	921	1,428	1,780

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

NA=Not available.

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

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

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

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

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

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

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

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

available data beginning in 1973.

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

Table 5.2 is not updated this month.

Crude Oil and Natural Gas Resource Development

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

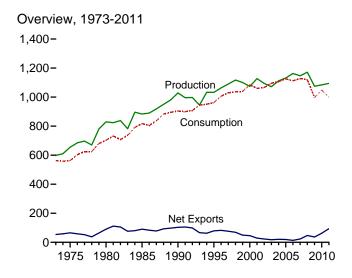
Prior to the March 1985 MER, drilling statistics consisted of

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

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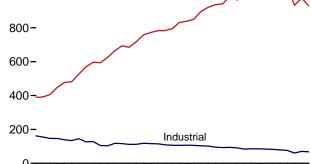
6. Coal

Figure 6.1 Coal (Million Short Tons)



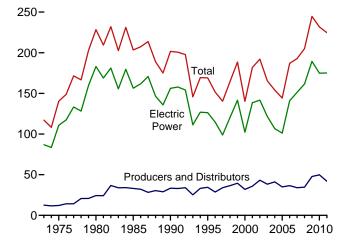


Consumption by Sector, 1973-2011

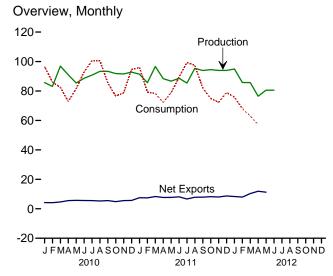


1975 1980 1985 1990 1995 2000 2005 2010

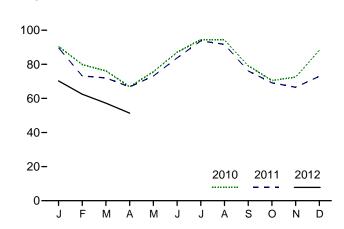
Stocks, End of Year, 1973-2011



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



Electric Power Sector Consumption, Monthly 120-



Electric Power Sector Stocks, End of Month

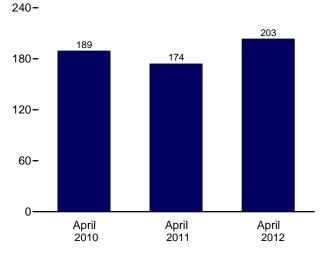


Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste Coal		Trade		Stock	Losses and Unaccounted	
	Production ^a	Supplied ^b	Imports	Exports	Net Imports ^c	Change ^{d,e}	for ^f	Consumption
1973 Total	598,568	NA	127	53,587	-53,460	402	-17,878	562,584
1975 Total	654,641	NA	940	66,309	-65,369	32,154	-5,522	562,640
980 Total		NA	1.194	91,742	-90.548	25,595	10.827	702,730
985 Total	883,638	NA	1,952	92,680	-90,727	-27,934	2,796	818,049
990 Total	1.029.076	3,339	2.699	105.804	-103,104	26,542	-1.730	904,498
995 Total	1,032,974	8,561	9,473	88,547	-79,074	-275	632	962,104
996 Total		8,778	8.115	90,473	-82.357	-17,456	1.411	1,006,321
997 Total	1.089.932	8,096	7.487	83,545	-76,058	-11,253	3.678	1,000,321
000 Tetal	1,009,932	8,690	8,724	78,048	-69,324	24,228	-4,430	1,029,344
998 Total				78,046 58,476	-69,324 -49,387		-4,430 -2.906	
999 Total	1,100,431	8,683	9,089			23,988		1,038,647
000 Total	1,073,612	9,089	12,513	58,489	-45,976	-48,309	938	1,084,095
001 Total		10,085	19,787	48,666	-28,879	41,630	7,120	1,060,146
002 Total		9,052	16,875	39,601	-22,726	10,215	4,040	1,066,355
003 Total	1,071,753	10,016	25,044	43,014	-17,970	-26,659	-4,403	1,094,861
004 Total	1,112,099	11,299	27,280	47,998	-20,718	-11,462	6,887	1,107,255
2005 Total		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
007 Total	1,146,635	14,076	36,347	59,163	-22,816	5,812	4,085	1,127,998
008 Total	1,171,809	14,146	34,208	81,519	-47,311	12,354	5,740	1,120,548
009 Total		13,666	22,639	59,097	-36,458	39,668	14,985	997,478
010 January	85,711	1,187	1,665	5,866	-4,202	-10,695	-3,103	96,494
February	83,087	908	1,239	5,386	-4,146	-7,306	1,154	86,001
March		1.192	1.899	6,554	-4.655	8,127	2.870	82,444
April		1,071	1,812	7,358	-5,545	11,519	2,176	72,790
May		1,138	1,475	7,220	-5.745	2.723	-3.500	81,570
June		1,219	1,771	7,387	-5,616	-9,407	647	92,983
July		1,273	1,390	6,928	-5,539	-15.499	1.446	100.582
August		1,261	1,702	7,001	-5.299	-8.766	-2.316	100,393
September		1,102	1,588	7,145	-5,556	5.111	-1,591	85,386
October		982	1,775	6,623	-4.849	11.463	-90	76.591
November		1,121	1,473	7,015	-4,649 -5,542	8,878	-437	78,697
				7,013	-5,542	-9.187	2,925	94.582
December Total		1,197 13,651	1,563 19,353	81,716	-62,363	-9,107 - 13,039	2,925 182	1,048,514
011 January	91.398	1.187	1,014	8.509	-7.496	-11.828	949	95.968
February		1,030	843	8,275	-7,432	-6,172	6,122	79,266
March		1,068	1,524	9.832	-8.308	3,658	7,382	78,327
April		910	1,136	8,843	-7,706	8,617	606	72,316
		852	1,313	9,042	-7,700 -7,730	1,917	-1,017	78,874
May								
June		1,109	970	9,102	-8,132	-10,182	2,366	89,440
July		1,173	1,208	7,865	-6,657	-16,060	-3,366	99,317
August		1,142	1,545	9,387	-7,843	-11,060	2,297	97,425
September		1,087	835	8,723	-7,888	4,740	431	81,916
October		999	917	9,159	-8,242	13,286	-939	74,923
November		1,039	807	8,808	-8,001	10,170	4,486	72,355
December		934	976	9,713	-8,737	5,858	1,330	78,975
Total	1,094,336	12,529	13,088	107,259	-94,171	-7,056	20,647	999,103
012 January		1,068	789	9,126	-8,337	2,707	9,096	75,871
February		891	534	8,460	-7,927	6,527	4,140	68,060
March		837	699	11,055	-10,356	10,595	2,613	62,971
April		RF 1,069	623	12,529	-11,905	^R 7,490	^R 827	R 57,296
May		ŃΑ	R 986	R 12,257	R -11,271	ŃΑ	NA	ŃΑ
June		NA	NA	NA	ΝA	NA	NA	NA
6-Month Total		NA	NA	NA	NA	NA	NA	NA
2011 6-Month Total		6,155	6,800	53,604	-46,804	-13,990	16,408	494,192
2010 6-Month Total	530.684	6,715	9,861	39,772	-29,910	-5,039	245	512,283

^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

Sources: See end of section.

waste due including line dual, coal obtained from a fetuse bail of sturiy 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."

One waste the imports equal imports minus exports. A minus sign indicates exports are expected they imports.

greater than imports.

d For 1980-2007, excludes coal stocks in the residential and commercial

sectors.

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

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

[&]quot;The difference between calculated coal supply and disposition, due to coal 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 include refined coal. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia

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

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

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

					End-l	Jse Sector	s					
			Commerci	ial			Industrial					
	Resi-				Coke		ther Industria			Trans-	Electric Power	
	dential	CHPa	Otherb	Total	Plants	CHPc	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1973 Total	4,113	(^g)	7,004	7,004	94,101	(h)	68,038	68,038	162,139	116	389,212	562,584
1975 Total	2.823	(g)	6,587	6,587	83,598	ìhί	63,646	63,646	147,244	24	405,962	562,640
1980 Total	1,355	(g)	5,097	5,097	66,657	Ìhί	60,347	60,347	127,004	(h)	569,274	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;	782,567	904,498
1995 Total	755	1,419	3,633	5,052	33,011	29,363	43,693	73,055	106,067	(h)	850,230	962,104
1996 Total	721	1,660	3,625	5,285	31,706	29,434	42,254	71,689	103,395	ìh,	896,921	1,006,321
1997 Total	711	1,738	4.015	5.752	30,203	29,853	41,661	71,515	101,718	(h)	921,364	1.029.544
1998 Total	534	1,443	2,879	4,322	28,189	28,553	38,887	67,439	95,628	}h Ś	936,619	1,037,103
1999 Total	585	1,490	2,803	4,293	28,108	27,763	36,975	64,738	92,846	ìhί	940,922	1,038,647
2000 Total	454	1,547	2,126	3,673	28,939	28,031	37,177	65,208	94,147	}h{	985,821	1,084,095
2001 Total	481	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
2002 Total	551	1,816	1,869	3,685	24,248	24,846	36,415	61,261	85,509	}h {	1,005,116	1,000,333
2004 Total	512	1,917	2,693	4,610	23,670	26,613	35,582	62,195	85,865	}h{	1,016,268	1,107,255
2005 Total	378	1,922	2,420	4,342	23,434	25,875	34,465	60,340	83,774	}h{	1,037,485	1,125,978
2006 Total	290	1.886	1.050	2.936	22,957	25,262	34,210	59,472	82,429		1,026,636	1,112,292
2007 Total	353	1,927	1,030	3,173	22,715	22,537	34,078	56,615	79,331	(h)	1,045,141	1,112,292
	351	2.021	1,134	3,173	22,713	21,902	34,076 32,491	54,393	76,463	\h\	1,040,580	1,127,996
2008 Total										(h)		
2009 Total	353	1,798	1,059	2,857	15,326	19,766	25,549	45,314	60,641	()	933,627	997,478
2010 January	43	193	156	349	1,472	2,094	2,084	4,178	5,650	(h)	90,452	96,494
February	37	167	136	303	1,584	1,978	2,215	4,193	5,777	(hí	79,884	86,001
March	33	149	121	271	1,801	2,124	2,106	4,230	6,030	(h)	76,110	82,444
April	21	117	54	171	1,786	2,220	1,749	3,969	5,755	(h)	66,842	72,790
May	21	118	55	173	1,794	2,010	1,975	3,985	5,779	(h)	75,597	81,570
June	24	135	62	197	1,772	1,898	2,061	3,959	5,732	(h)	87,030	92,983
July	24	142	48	190	1,783	2,122	1,944	4,066	5,849	(h)	94,519	100,582
August	25	152	52	203	1,814	2,194	1,909	4,103	5,917	(h)	94,247	100,393
September	22	133	45	178	1,894	1,941	2,174	4,115	6,010	ìh;	79,176	85,386
October	26	121	86	207	1,731	1,958	2,178	4,136	5,866	ìhί	70,492	76,591
November	27	128	90	218	1,787	1,854	2,297	4,151	5,938	ìhί	72,514	78,697
December	35	165	116	281	1,874	2,246	1,957	4,203	6,077	ìhί	88,189	94,582
Total	339	1,720	1,022	2,742	21,092	24,638	24,650	49,289	70,381	(h)	975,052	1,048,514
2011 January	40	178	144	322	1,746	2,320	1,859	4,178	5,924	(h)	89,682	95,968
February	37	165	133	298	1,623	2,320	2,108	4,170	5,775	} h {	73,156	79,266
March	35	158	127	285	1,819	2,044	2,100	4,179	5,773	\h\	72,009	78,327
April	23	124	63	265 187	1,619	1.767	1,930	3.697	5,996	\h\	72,009 66.741	72,316
	23 24	124	65	193	1,878	2,126	1,930	3,680	5,558	\h\	73,100	78,874
May	24	128	63	187	1,878	2,126	1,554	3,684		(ii)	83,700	78,874 89,440
June	23	134					1,628		5,530	(ii)		99,317
July			30	165	1,670	2,208		3,726	5,396	\ h \	93,736	
August	19	124	28	152	1,863	2,182	1,541	3,724	5,587	(ii)	91,667	97,425
September	18	121	27	149	1,874	2,100	1,644	3,743	5,618	\h\	76,131	81,916
October	20	116	48	164	1,784	2,080	1,765	3,845	5,629	(h)	69,109	74,923
November	22	123	51	174	1,772	1,835	1,995	3,831	5,603	(h)	66,557	72,355
December	24	138	57	195	1,891	1,927	1,967	3,894	5,784	()	72,971	78,975
Total	305	1,633	838	2,471	21,434	24,733	21,601	46,334	67,768	(h)	928,558	999,103
2012 January	27	154	68	222	1,701	2,102	1,587	3,690	5,390	(h)	70,231	75,871
February	24	137	60	197	1,687	1,890	1,811	3,701	5,388	(h)	62,450	68,060
March	23	131	57	188	1,895	1,921	1,732	3,653	5,548	(h)	57,211	62,971
April	F 26	111	F 98	F 209	F 2,051	1,589	F 2,064	F 3,653	F 5,704	ìh γ́	51,357	57,296
4-Month Total	E 101	533	E 283	^E 816	E 7,334	7,503	E 7,194	E 14,697	E 22,031	(h)	241,249	264,197
2011 4-Month Total 2010 4-Month Total	135 135	624 626	468 467	1,092 1,094	6,856 6,643	8,218 8,415	7,988 8,154	16,207 16,570	23,063 23,213	(301,587 313,287	325,877 337,729

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

Section 7.

^b All commercial sector fuel use other than that in "Commercial CHP."

^c Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

^d All industrial sector fuel use other than that in "Coke Plants" and "Industrial CHP."

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

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 consumption at electric utilities only. Beginning in

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

g Included in "Commercial Other."
h Included in "Industrial Non-CHP."
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 include refined coal. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

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

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

			E	nd-Use Sectors				
	Producers and	Residential and		Industrial			Electric Power	
	Distributors	Commercial	Coke Plants	Othera	Total	Total	Sector ^{b,c}	Total
1973 Year	12,530	290	6,998	10,370	17,368	17,658	86,967	117,155
1975 Year	12,108	233	8,797	8,529	17,326	17,559	110,724	140,391
980 Year	24,379	NA	9,067	11,951	21,018	21,018	183,010	228,407
985 Year	33,133	NA	3,420	10,438	13,857	13,857	156,376	203,367
990 Year	33,418	NA	3,329	8,716	12,044	12,044	156,166	201,629
995 Year		NA	2,632	5,702	8,334	8,334	126,304	169,083
996 Year	28,648	NA	2,667	5,688	8,355	8,355	114,623	151,627
997 Year		NA	1,978	5,597	7,576	7,576	98,826	140,374
998 Year		NA	2,026	5,545	7,571	7,571	120,501	164,602
999 Year		NA	1.943	5.569	7.511	7.511	° 141.604	188,590
000 Year		NA	1,494	4,587	6,081	6,081	102,296	140,282
001 Year		NA	1,510	6,006	7,516	7,516	138,496	181,912
002 Year		NA	1,364	5,792	7,156	7,156	141,714	192,127
003 Year		NA	905	4,718	5,623	5,623	121,567	165,468
004 Year		NA	1,344	4,842	6,186	6,186	106,669	154,006
005 Year		NA	2,615	5,582	8,196	8,196	101,137	144,304
006 Year		NA NA	2,928	6,506	9,434	9,434	140,964	186,946
007 Year		NA NA	1,936	5,624	7,560	7,560	151,221	192,758
008 Year		498	2,331	6.007	8,338	8,836	161,589	205,112
009 Year		529	1,957	5,109	7,066	7,595	189,467	244,780
009 rear	47,710	323	1,337	3,103	7,000	1,595	103,407	244,700
010 January	48,854	510	1,832	4,798	6,630	7,140	178,091	234,085
February	49,069	490	1,708	4,486	6,194	6,684	171,026	226,779
March		471	1,583	4,175	5,758	6,229	177,742	234,906
April	50,761	482	1,715	4,207	5,922	6,404	189,260	246,425
Mav		494	1.846	4.239	6.086	6.579	191,669	249,148
June	51,497	505	1,978	4,272	6,250	6,755	181,490	239,741
July		509	1.948	4.345	6.294	6.803	169,504	224,242
August	,	513	1,918	4,419	6,337	6,851	159,987	215,476
September	,	517	1.889	4.492	6.381	6.899	163,776	220.587
October		529	1,901	4,503	6,404	6,933	175,686	232,050
November	,	541	1.913	4.514	6.428	6,968	183.389	240.928
December		552	1,925	4,525	6,451	7,003	174,917	231,740
011 January	48,295	536	1,937	4,305	6,241	6,777	164,840	219,913
February	45,750	520	1,948	4,084	6,032	6,552	161,439	213,741
March	44,336	503	1,959	3,864	5,823	6,326	166,737	217,399
April		500	1,958	3,975	5,933	6,433	173,999	226,016
May	46,775	497	1,957	4,086	6,042	6,539	174,619	227,933
June		494	1,956	4,196	6,152	6,646	165,707	217,751
July	46,926	498	2,082	4,217	6,300	6,798	147,967	201,691
August		502	2,221	4,238	6,459	6,961	139,225	190,631
September	43,763	506	2,405	4,259	6,664	7,170	144,438	195,371
October		533	2,473	4,330	6,803	7,336	156,906	208,657
November	42,971	560	2,541	4,400	6,941	7,502	168,354	218,827
December		588	2,610	4,471	7,080	7,668	175,100	224,684
042 lanuari:	F 20 444	F74	0.507	4.040	6.750	7.007	101 004	007.000
012 January		571	2,507	4,249	6,756	7,327	181,621	227,392
February	F 39,975	554	2,403	4,028	6,432	6,986	186,958	233,919
	F 44 1-0		0.000					
March April		537 ^F 537	2,300 F 2,429	3,807 ^F 3,917	6,108 ^F 6,346	6,645 ^F 6,884	196,391 203,394	244,514 252,004

^a Through 1977, data are for stocks held by the manufacturing and transportation sectors. Beginning in 1978, data are for stocks held at manufacturing plants only.

b The electric power sector comprises electricity-only and combined-heat-and-

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

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

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

Sources: See end of section.

power (CHP) plants within the NAICS 22 category whose primary business is to sell

electricity, or electricity and heat, to the public.

^o Through 1998, data are for stocks at electric utilities only. Beginning in 1999, data also include stocks at independent power producers.

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

Coal

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

Prior to 2002, the weekly coal production model converted AAR data into short tons of coal by using the average number of short tons of coal per railcar loaded reported in the "Quarterly Freight Commodity Statistics" from the Surface Transportation Board. If an average coal tonnage per railcar loaded was not available for a specific railroad, the national average was used. To derive the estimate of total weekly production, the total rail tonnage for the week was divided by the ratio of quarterly production shipped by rail and total quarterly production. Data for the corresponding quarter of previous years were used to derive this ratio. This method ensured that the seasonal variations were preserved in the production estimates.

Beginning in 2002, the weekly coal production model uses statistical autoregressive methods to estimate national coal production as a function of railcar loadings of coal, and heating degree-days and cooling degree-days. On Thursday of each week, EIA receives from the AAR data for the previous week. The latest weekly national data for heating degree-days and cooling degree-days are obtained from the National Oceanic and Atmospheric Administration's Climate Prediction Center. The weekly coal model is run and a national level coal production estimate is obtained. The weekly coal model is refit every quarter after preliminary coal data are available.

When preliminary quarterly data become available, the monthly and weekly estimates are adjusted to conform to the quarterly figures. The adjustment procedure uses State-level production data and is explained in EIA's Quarterly Coal Report. Initial estimates of annual production published in January of the following year are based on preliminary production data covering the first nine months (three quarters) and weekly/monthly estimates for the fourth quarter. The fourth quarter estimates may or may not be revised when preliminary data become available in March of the following year, depending on the magnitude of the difference between the estimates and the preliminary data. In any event, all quarterly, monthly, and weekly production figures are adjusted to conform to the final annual production data published in the Monthly Energy Review in the fall of the following year.

Note 2. Coal Consumption. Coal consumption data are reported by major end-use sector. Forecast data (designated

by an "F") are derived from forecasted values shown in the EIA *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply and Demand: Base Case." The monthly estimates are based on the quarterly values, which are released in March, June, September, and December. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.

Residential and Commercial—Coal consumption by the residential and commercial sectors is reported to EIA for the two sectors combined; EIA estimates the amount consumed by the sectors individually. To create the estimates, it is first assumed that an occupied coal-heated housing unit consumes fuel at the same Btu rate as an oil-heated housing unit. Then, for the years in which data are available on the number of occupied housing units by heating source (1973-1981 and subsequent odd-numbered years), residential consumption of coal is estimated by the following steps: a ratio is created of the number of occupied housing units heated by coal to the number of occupied housing units heated by oil; that ratio is then multiplied by the Btu quantity of oil consumed by the residential sector to derive an estimate of the Btu quantity of coal consumed by the residential sector; and, finally, the amount estimated as the residential sector consumption is subtracted from the residential and commercial sectors' combined consumption to derive the commercial sector's estimated consumption. The 2007 share is applied to 2008 forward, and the other missing years' shares are interpolated.

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

Industrial Other—Prior to 1978, monthly consumption data for the other industrial sector (all industrial users minus coke plants) were derived by using reported data to modify baseline consumption figures from the most recent Bureau of the Census Annual Survey of Manufactures or Census of Manufactures. For 1978 and 1979, monthly estimates were derived from data reported on Forms EIA-3 and EIA-6. For 1980–1987, monthly figures were estimated by proportioning quarterly data by using the ratios of monthly-to-quarterly consumption data in 1979, the last year in which monthly data were reported on Form EIA-3. Beginning in January 1988, monthly consumption for the other industrial sector is estimated from reported quarterly data by using ratios derived from industrial production indices published by the Board of Governors of the

Federal Reserve System. Indices for six major industry groups are used as the basis for calculating the ratios: food manufacturing, which is North American Industry Classification System (NAICS) code 311; paper manufacturing, NAICS 322; chemical manufacturing, NAICS 325; petroleum and coal products, NAICS 324; non-metallic mineral products manufacturing, NAICS 327; and primary metal manufacturing, NAICS 331. The monthly ratios are computed as the monthly sum of the weighted indices as a proportion of the quarterly sum of the weighted indices by using the 1977 proportion as the weights. Prior to 2008, quarterly consumption data for the other industrial sector were derived by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts are the greater of either reported receipts from manufacturing plants (Form EIA-3) or reported shipments to the other industrial sector (Form EIA-6), thereby ensuring that agriculture, forestry, fishing, and construction consumption data were included where appropriate. Beginning in 2008, quarterly consumption totals for other industrial coal include data for manufacturing and mining only. Over time, surveyed coal consumption data for agriculture, forestry, fishing, and construction dwindled to about 20,000 to 30,000 tons annually. Therefore, in 2008, EIA consolidated its programs by eliminating agriculture, forestry, fishing, and construction as surveyed sectors.

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

Note 3. Coal Stocks. Coal stocks data are reported by major end-use sector. Forecast data for the most recent months (designated by an "F") are derived from forecasted values shown in the EIA *Short-Term Energy Outlook* (DOE/EIA-0202) table titled "U.S. Coal Supply and Demand: Base Case." The monthly estimates are based on the quarterly values (released in March, June, September, and December) or annual values. The estimates are revised as collected data become available from the data sources. Sector-specific information follows.

Producers and Distributors—Prior to 1998, quarterly stocks at producers and distributors were taken directly from reported data. Monthly data were estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Beginning in 1998, end-of-year stocks are taken from reported data. Monthly stocks are estimated by a model.

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

Industrial Coke Plants—Prior to 1980, monthly stocks at coke plants were taken directly from reported data.

Beginning in 1980, coke plant stocks are estimated by using one-third of the current quarterly change to indicate the monthly change in stocks. Quarterly stocks are taken directly from data reported on Form EIA-5.

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

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

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

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

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

Table 6.1 Sources

Production

1973–September 1977: U.S. Department of the Interior, Bureau of Mines, *Minerals Yearbook* and *Minerals Industry Surveys*.

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

Waste Coal Supplied

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

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

2001–2003: EIA, Form EIA-906, "Power Plant Report," and Form EIA-3, "Quarterly Coal Consumption and

Quality Report—Manufacturing Plants."

2004–2007: EIA, Form EIA-906, "Power Plant Report," Form EIA-920, "Combined Heat and Power Plant Report," and Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

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

Imports and Exports

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

Stock Change

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

Losses and Unaccounted for

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

Consumption

Table 6.2.

Table 6.2 Sources

Residential and Commercial Total

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

1973–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*.

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

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

1998–2007: DOI, Mine Safety and Health Administration, Form 7000-2, "Quarterly Mine Employment and Coal Production."

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

Commercial CHP

Table 7.4c.

Commercial Other

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

Industrial Coke Plants

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

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

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

1985 forward: EIA, Form EIA–5, "Coke Plant Report—Quarterly"; and, for forecast values, EIA, STIFS.

Other Industrial Total

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

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

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

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

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

Other Industrial CHP

Table 7.4c.

Other Industrial Non-CHP

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

Transportation

1973–1976: DOI, BOM, Minerals Yearbook.

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

October–December 1977: EIA, Form EIA-6, "Coal Distribution Report," quarterly.

Electric Power

Table 7.4b.

Table 6.3 Sources

Producers and Distributors

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

1980-1997: U.S. Energy Information Administration

(EIA), Form EIA-6, "Coal Distribution Report," quarterly. 1998–2007: EIA, Form EIA-6A, "Coal Distribution Report," annual.

2008 forward: EIA, Form EIA-7A, "Coal Production Report," annual, and Form EIA-8A, "Coal Stocks Report," annual; and, for forecast values, EIA, Short-Term Integrated Forecasting System (STIFS).

Residential and Commercial

1973–1976: DOI, BOM, Minerals Yearbook.

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

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

Industrial Coke Plants

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

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

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

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

Industrial Other

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

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

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

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

Electric Power

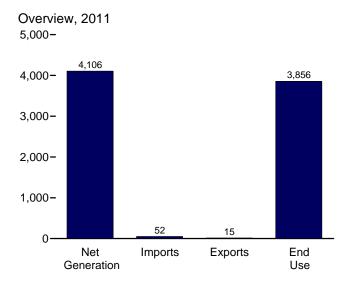
Table 7.5.

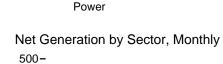
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7. Electricity

Electricity Overview Figure 7.1 (Billion Kilowatthours)

Net Generation by Sector, 1989-2011





Electric

Net Generation, 2011

3,955

5,000-

4,000-

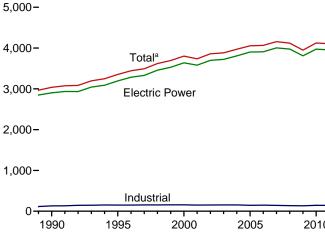
3,000-

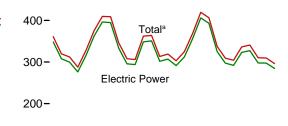
2,000-

1,000-

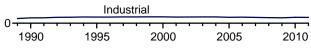
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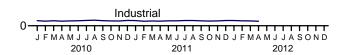
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Commercial



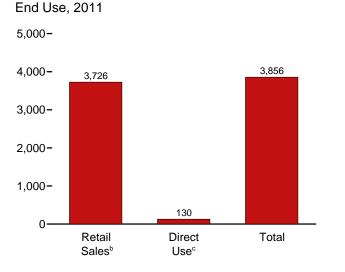


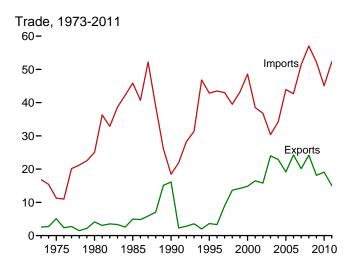
142

Industrial

4,106

Total





^a Includes commercial sector.

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

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

Table 7.1 Electricity Overview

(Billion Kilowatthours)

		Net Gen	eration			Trade		T0D1		End Use	
	Electric Power Sector ^a	Com- mercial Sector ^b	Indus- trial Sector ^c	Total	Importsd	Exportsd	Net Imports ^d	T&D Losses ^e and Unaccounted for ^f	Retail Sales ^g	Direct Use ^h	Total
				1 7 7 7 7				1 131			
1973 Total	1,861	NA	3	1,864	17	3	14	165	1,713	NA	1,713
1975 Total	1,918	NA	3	1,921	11	5	6	180	1,747	NA	1,747
1980 Total 1985 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	6	131	3,038	18	16	2	203	2,713	125	2,837
1995 Total	3.194	8	151	3,353	43	4	39	229	3,013	151	3,164
1996 Total	3,284	9	151	3,444	43	3	40	231	3,101	153	3,254
1997 Total	3,329	9	154	3,492	43	9	34	224	3,146	156	3,302
1998 Total	3,457	9 9	154	3,620	40	14	26	221	3,264	161	3,425
1999 Total 2000 Total	3,530 3.638	8	156 157	3,695 3.802	43 49	14 15	29 34	240 244	3,312 3.421	172 171	3,484 3.592
2001 Total	3,580	7	149	3,737	39	16	22	202	3,394	163	3,557
2002 Total	3,698	7	153	3,858	37	16	21	248	3,465	166	3,632
2003 Total	3,721	7	155	3,883	30	24	6	228	3,494	168	3,662
2004 Total	3,808	8	154	3,971	34	23	11	266	3,547	168	3,716
2005 Total	3,902	8	145	4,055	44	19	25	269	3,661	150	3,811
2006 Total 2007 Total	3,908 4.005	8 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
2008 Total	3.974	8	137	4,119	57	24	33	287	3,763	132	3,865
2009 Total	3,810	8	132	3,950	52	18	34	261	3,597	127	3,724
2010 January	348	1	12	361	5	1	4	22	332	E 11	343
February	308	1	11	320	4	1	3	15	298	E 10	309
March	300	1	12	312	4	1	3	12	293	E 11	303
April	276	1	11	288	4	1	3 1	13	267	E 10 E 11	277
May June	316 363	1	12 12	328 376	3 4	2 2	2	35 36	284 331	E 11	294 342
July	396	i	13	410	4	1	3	32	369	E 12	381
August	395	1	13	409	4	2	2	27	372	E 12	384
September	333	1	12	346	3	2	1	8	328	E 11	339
October	296	1	12	308	3	2	(s)	10	288	E 11	298
November	294 349	1 1	11 13	306 362	3 4	2	1 3	21 34	275 319	E 11 E 12	285 331
December Total	3,972	9	144	4,1 25	45	1 19	26	265	3,754	132	3,886
2011 January	351	1	12	364	4	2	3	23	333	E 11	344
February	302	1	11	313	4	2	2	10	296	E 10	306
March	307	1	11	319	4	2	2	21	290	E 11	301
April	291	1	11	303	4	2 1	2 4	21	274	E 10 E 11	284
May June	312 356	1	12 12	325 368	5 4	1	4 3	32 34	286 327	E 11	297 338
July	406	1	13	419	6	1	5	44	369	E 12	380
August	393	i	13	406	6	i	5	29	370	E 12	382
September	325	1	12	338	4	1	3	6	324	E 11	335
October	297	1	11	309	4	1	3	16	286	E 10	296
November December	292 323	1 1	12 13	304 336	3 4	1	2	23 29	273 299	E 11 E 12	284 311
Total	3, 955	8	142	4,106	5 2	15	37	29 287	3,726	E 130	3,856
2012 January	327	1	13	341	4	1	3	22	311	E 12	322
February	298	1	12	310	4	1	3	16	286	E 11	297
March	297	1	12	310	4	1	3	20	282	E 11	293
April 4-Month Total	285 1,207	1 3	11 47	296 1,257	5 17	1 4	4 13	20 77	270 1,150	E 10 E 43	280 1,192
2011 4-Month Total	1,251	3	46	1,299	16	6	10	75	1,192	E 42	1,234
2010 4-Month Total	1,232	3	46	1,281	18	5	13	62	1,190	E 42	1,232

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.
^b Commercial combined-heat-and-power (CHP) and commercial electricity-only plants.

Sources: See end of section.

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

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

exports.

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

^f Data collection frame differences and nonsampling error.

⁹ Electricity retail sales to ultimate customers by electric utilities and, beginning

in 1996, other energy service providers.

In 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

entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.

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

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

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

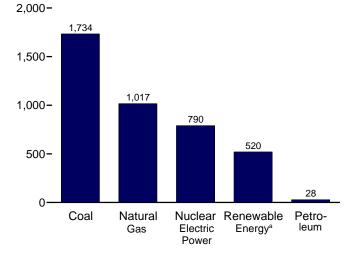
available data beginning in 1973.

Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

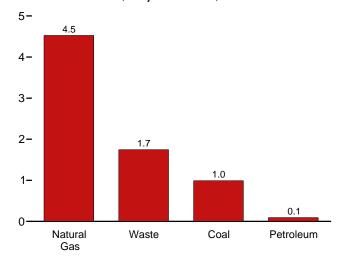
Total (All Sectors), Major Sources, 1989-2011

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

Total (All Sectors), Major Sources, 2011

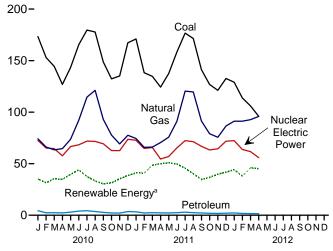


Commercial Sector, Major Sources, 2011

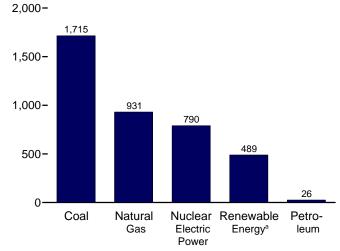


 $[\]ensuremath{^{\text{a}}}$ Conventional hydroelectric power, wood, waste, geothermal, solar/PV, and wind.

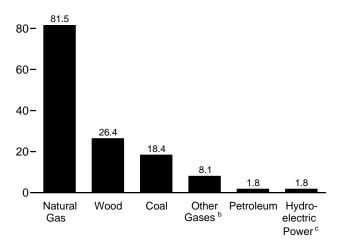
Total (All Sectors), Major Sources, Monthly



Electric Power Sector, Major Sources, 2011



Industrial Sector, Major Sources, 2011



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

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

100-

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

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

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

		Fossil I	uels						Renewabl	e Energy			
						Hvdro-	Conven-	Bioi	mass				
	Coala	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	electric Pumped Storage ^e	Hydro- electric Power ^f	Wood ^g	W aste ^h	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total	847,651	314,343	340,858	NA	83,479	(^f)	275,431	130	198	1,966	NA	NA	1,864,057
1975 Total	852,786	289,095	299,778	NA	172,505	(†)	303,153	18	174	3,246	NA	NA	1,920,755
1980 Total		245,994	346,240	NA	251,116	{	279,182	275	158	5,073	NA	NA _	2,289,600
1985 Total	1,402,128	100,202	291,946	NA 40 202	383,691	$-\!$	284,311	743 32,522	640	9,325	11	0.700	2,473,002
1990 Total ^k 1995 Total		126,460 74,554	372,765 496,058	10,383 13,870	576,862 673,402		292,866 310,833	32,522	13,260 20,405	15,434 13,378	367 497	2,789 3,164	3,037,827 3,353,487
1996 Total	1,795,196	81,411	455,056	14,356	674,729	-3,088	347,162	36,800	20,403	14,329	521	3,234	3,444,188
1997 Total	1.845.016	92,555	479.399	13,351	628.644	-4.040	356,453	36,948	21,709	14,726	511	3,288	3,492,172
1998 Total	1,873,516	128,800	531,257	13,492	673,702	-4,467	323,336	36,338	22,448	14,774	502	3,026	3,620,295
1999 Total	1,881,087	118,061	556,396	14,126	728,254	-6,097	319,536	37,041	22,572	14,827	495	4,488	3,694,810
2000 Total	1,966,265	111,221	601,038	13,955	753,893	-5,539	275,573	37,595	23,131	14,093	493	5,593	3,802,105
2001 Total		124,880	639,129	9,039	768,826	-8,823	216,961	35,200	14,548	13,741	543	6,737	3,736,644
2002 Total	1,933,130	94,567	691,006	11,463	780,064	-8,743	264,329	38,665	15,044	14,491	555	10,354	3,858,452
2003 Total	1,973,737	119,406	649,908	15,600	763,733	-8,535	275,806	37,529	15,812	14,424	534	11,187	3,883,185
2004 Total	1,978,301	121,145	710,100	15,252	788,528	-8,488	268,417	38,117	15,421	14,811	575	14,144	3,970,555
2005 Total	2,012,873	122,225	760,960	13,464 14,177	781,986	-6,558 -6,558	270,321 289,246	38,856 38,762	15,420 16,099	14,692 14,568	550 508	17,811 26,589	4,055,423
2006 Total 2007 Total	1,990,511 2,016,456	64,166 65,739	816,441 896,590	13,453	787,219 806,425	-6,336 -6,896	247,510	39,014	16,525	14,566	612	34,450	4,064,702 4,156,745
2008 Total	1.985.801	46.243	882.981	11,707	806,208	-6.288	254,831	37,300	17,734	14,840	864	55.363	4,119,388
2009 Total	1,755,904	38,937	920,979	10,632	798,855	-4,627	273,445	36,050	18,443	15,009	891	73,886	3,950,331
2010 January	173,320	4,348	74,173	909	72,569	-565	22,383	3,126	1,503	1,312	10	6,854	360,957
February	153,044	2,373	66,198	825	65,245	-351	20,590	2,895	1,382	1,159	33	5,432	319,735
March	144,406	2,470	63,431	1,010	64,635	-325	20,886	3,090	1,592	1,307	76	8,589	312,168
April	126,952	2,286	64,644	943	57,611	-335	19,097	2,932	1,558	1,240	112	9,764	287,800
May	143,272	2,994	73,665	1,017	66,658	-441	25,079	2,893	1,577	1,311	153	8,698	327,936
June	165,491 179,600	3,989 4,411	92,268 114,624	964 963	68,301 71,913	-472 -557	29,854 24,517	3,094 3,308	1,627 1,640	1,264 1,274	176 161	8,049 6,724	375,759 409,725
July August	177,745	3,575	121,151	1,061	71,574	-600	20,119	3,319	1,642	1,274	156	6,686	408,884
September	148,746	2,783	93,004	954	69,371	-421	17,265	3,157	1,575	1,253	138	7,106	346,045
October	132,270	2,228	77,738	808	62,751	-438	17,683	3,003	1,547	1,222	75	7,944	307,921
November	135,185	2,079	69,227	907	62,655	-467	19,562	3,080	1,625	1,252	77	9,748	306,010
December	167,258	3,523	77,573	952	73,683	-530	23,169	3,275	1,650	1,330	44	9,059	362,119
Total	1,847,290	37,061	987,697	11,313	806,968	-5,501	260,203	37,172	18,917	15,219	1,212	94,652	4,125,060
2011 January February	170,983 138,295	3,268 2,201	74,458 65.852	910 770	72,743 64.789	-426 -247	26,148 24.687	3,258 2,896	1,503 1,393	1,478 1,326	31 80	8,659 10,528	363,855 313,351
March	134,717	2,454	66,169	955	65,662	-350	31,737	3,041	1,655	1,465	113	10,520	319,092
April	124,293	2,279	70,529	913	54,547	-467	31,629	2,788	1,619	1,337	161	12,447	302,994
May	137,493	2,198	75,769	848	57,017	-419	33,105	2,802	1,702	1,438	201	11,635	324,757
June	158,308	2,439	91,096	980	65,270	-568	32,253	3,243	1,685	1,363	257	10,887	368,184
July	176,709	3,011	120,377	1,059	72,345	-709	31,570	3,348	1,767	1,372	226	7,382	419,480
August	171,472	2,407	119,646	999	71,339	-663	26,320	3,290	1,717	1,380	236	7,342	406,450
September	141,220	2,247	91,377	958	66,849	-554	21,500	3,113	1,621	1,334	183	6,883	337,606
October	126,872 121,197	1,934 1,723	79,078 75,637	949 923	63,354 64,474	-572 -441	20,036 21,374	2,876 2,980	1,669 1,689	1,393 1,377	169 78	10,623 12,354	309,279 304,268
November	132,706	2.000	86,606	1.005	71.837	-441	24,715	3,311	1,009	1,377	76 79	10,469	336,419
December Total	1,734,265		1,016,595	11,269	790,225	-5,912	325,074	36,946	19,786	16,700	1,814		4,105,734
2012 January	129,064	2,232	91,213	1,096	72,382	-330	23,933	3,293	1,621	1,438	70	13,823	340,743
February	113,831	1,718	91,260	1,146	63,850	-226	20,813	3,029	1,523	1,361	119	11,047	310,298
March	106,032	1,576	92,739	1,023	61,730		26,287	2,832	1,637	1,438	218	13,553	309,709
April 4-Month Total	95,982 444,909	1,534 7,059	95,882 371,095	1,018 4,283	55,871 253,833	-242 -1,067	26,748 97,781	2,515 11,669	1,643 6,424	1,354 5,591	307 714	12,611 51,034	296,101 1,256,851
2011 4-Month Total	568,288	10,202	277,007	3,548	257,741	-1,490	114,201	11,983	6,171	5,605	386	42,172	1,299,292
2010 4-Month Total	597,722	11,478	268,446	3,687	260,061	-1,575	82,955	12,043	6,035	5,018	231		

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

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

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

c Natural gas, plus a small amount of supplemental gaseous fuels.
d Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.
e Pumped storage facility production minus energy used for pumping.
f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."
9 Wood and wood-derived fuels.
h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

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

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

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

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

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

		Fossil I	uels				Renewable Energy						
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power ^f	Bior Wood ^g	mass Waste ^h	Geo- thermal	Solar/ PV	Wind	Total ^j
1973 Total 1975 Total 1980 Total 1985 Total	847,651 852,786 1,161,562	314,343 289,095 245,994 100,202	340,858 299,778 346,240 291,946	NA NA NA NA	83,479 172,505 251,116 383,691	(f) (f) (f) (f)	272,083 300,047 276,021 281,149	130 18 275 743	198 174 158 640	1,966 3,246 5,073 9,325	NA NA NA 11	NA NA NA	1,860,710 1,917,649 2,286,439 2,469,841
990 Total ^k 995 Total 996 Total 997 Total 998 Total 998 Total 000 Total 001 Total 002 Total 003 Total	1,572,109 1,686,056 1,771,973 1,820,762 1,850,193 1,858,618 1,943,111 1,882,826 1,910,613 1,952,714 1,957,188 1,992,054 1,969,737 1,998,390 1,968,838	118,864 68,146 74,783 86,479 122,211 111,539 105,192 119,149 89,733 113,697 114,678 116,482 59,708 61,306 42,881	309,486 419,179 378,757 399,596 449,293 472,996 517,978 554,940 607,683 567,303 627,172 683,829 734,417 814,752 802,372 841,006	621 1,927 1,341 1,533 2,315 1,607 2,028 586 1,970 2,647 3,568 3,777 4,254 4,042 3,200 3,058	576,862 673,402 674,702 628,644 673,702 728,254 753,893 768,826 780,064 763,733 788,528 781,986 787,219 806,425 806,208 798,855	-3,508 -2,725 -3,088 -4,040 -4,467 -5,539 -8,823 -8,743 -8,535 -8,488 -6,558 -6,558 -6,288 -6,288 -4,627	289,753 305,410 341,159 350,648 317,867 314,663 271,338 213,749 260,491 271,512 265,064 267,040 286,254 245,843 253,096 271,506	7,032 7,597 8,386 8,680 8,961 8,916 8,294 9,009 9,528 9,736 10,570 10,341 10,711 10,638 10,738	11,500 17,986 17,816 18,485 19,233 19,493 20,307 12,944 13,145 13,808 13,062 13,031 13,927 14,294 15,379	15,434 13,378 14,329 14,774 14,827 14,093 13,741 14,491 14,424 14,811 14,692 14,568 14,637 14,840 15,009	367 497 521 511 502 495 493 543 555 534 575 550 508 612 864 891	2,789 3,164 3,234 3,288 3,026 4,488 5,593 6,737 10,354 11,187 14,144 17,811 26,589 34,450 55,363 73,886	2,901,322 3,194,230 3,284,14* 3,329,37* 3,457,410 3,529,98* 3,637,529 3,580,05* 3,698,45* 3,721,15* 3,908,07* 4,005,34* 3,907,34* 3,907,34* 3,907,34* 3,809,83*
Policy January	171,660 151,461 142,665 125,615 141,669 163,912 177,778 175,848 147,157 130,663 133,815 165,494 1,827,738	4,111 2,166 2,299 2,109 2,801 3,792 4,199 3,375 2,608 2,037 1,879 3,302 34,679	66,847 59,556 56,492 58,124 66,862 85,033 106,961 112,961 85,498 70,876 62,305 69,875 901,389	275 247 275 273 279 265 267 249 240 170 219 208 2,967	72,569 65,245 64,635 57,611 66,658 68,301 71,913 71,574 69,371 62,751 62,655 73,683 806,968	-565 -351 -325 -335 -441 -472 -557 -600 -421 -438 -467 -530	22,207 20,421 20,691 18,898 24,903 29,711 24,405 20,019 17,188 17,581 19,426 23,024 258,455	1,011 926 939 837 830 955 1,061 1,074 974 887 934 1,018	1,294 1,207 1,391 1,354 1,359 1,409 1,419 1,413 1,364 1,330 1,412 1,443	1,312 1,159 1,307 1,240 1,311 1,264 1,274 1,297 1,253 1,252 1,330 15,219	10 33 76 112 153 175 161 156 137 75 76 43 1,206	6,853 5,431 8,588 9,763 8,696 8,048 6,723 6,685 7,104 7,942 9,746 9,058 94,636	348,120 307,999 299,57 276,12 315,656 362,980 396,190 394,65 333,050 295,650 293,830 348,540 3,972,380
Political January	169,157 136,752 133,163 123,067 135,794 156,677 174,850 169,572 139,458 125,200 119,867 131,311 1,714,870	3,056 2,042 2,282 2,112 2,053 2,276 2,840 2,243 2,075 1,792 1,597 1,857 26,223	67,038 59,187 59,350 63,709 68,567 84,032 112,765 111,991 84,392 72,407 68,418 78,714 930,568	247 206 250 250 250 282 296 293 287 279 242 266 3,148	72,743 64,789 65,662 54,547 57,017 65,270 72,345 71,339 66,849 63,354 64,474 71,837 790,225	-426 -247 -350 -467 -419 -568 -709 -663 -554 -572 -441 -496	26,001 24,517 31,537 31,422 32,888 32,097 31,442 26,217 21,375 19,905 21,222 24,520 323,141	986 873 883 674 753 921 1,042 1,020 896 752 753 951 10,504	1,293 1,204 1,457 1,439 1,467 1,537 1,481 1,395 1,444 1,457 1,538	1,478 1,326 1,465 1,337 1,438 1,363 1,372 1,380 1,334 1,393 1,377 1,439	31 79 112 160 199 254 223 233 181 167 77 79 1,795	8,657 10,525 10,534 12,444 11,632 10,884 7,380 7,339 6,880 10,618 12,348 10,464 119,704	350,77 301,73 306,93 291,28 312,22 355,56 406,01 393,05 325,12 297,29 291,95 323,10 3,955,06
D12 January February March April 4-Month Total	127,430 112,361 104,552 94,891 439,234	1,940 1,524 1,375 1,322 6,160	83,532 83,904 85,611 89,010 342,057	422 422 275 242 1,362	72,382 63,850 61,730 55,871 253,833	-330 -226 -268 -242 -1,067	23,749 20,649 26,090 26,580 97,068	949 875 829 628 3,282	1,388 1,295 1,422 1,418 5,523	1,438 1,361 1,438 1,354 5,591	69 117 211 297 694	13,814 11,040 13,543 12,602 50,999	327,38 297,72 297,41 284,56 1,207,10
2011 4-Month Total 2010 4-Month Total	562,139 591,401	9,492 10,684	249,284 241,018	953 1,070	257,741 260,061	-1,490 -1,575	113,477 82,218	3,417 3,713	5,393 5,226	5,605 5,018	382 231	42,159 30,634	1,250,72 1,231,81

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

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

NA=Not available.
Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

A Humacite, biturilinous coal, subbiturilinous coal, lightle, waste coal, and coal synfuel.

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

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

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

derived from fossil fuels.

Pumped storage facility production minus energy used for pumping.
f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."

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

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors

(Subset of Table 7.2a; Million Kilowatthours)

	Commercial Sector ^a						Industrial Sector ^b								
		Petro-	Natural	Biomass			Petro-	Natural	Other	Hydro- electric	Bior	nass			
-	Coalc	leum ^d	Gase	Wastef	Totalg	Coalc	leum ^d	Gase	Gasesh	Power	Wood ^j	Waste ^f	Total ^k		
1973 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,347	NA	NA	3,347		
1975 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,106	NA	NA	3,106		
1980 Total	NA NA	NA NA	NA NA	NA NA	NA	NA NA	NA NA	NA NA	NA NA	3,161	NA NA	NA NA	3,161		
1985 Total 1990 Total	796	589	3,272	812	NA 5,837	21,107	7,008	60,007	9,641	3,161 2,975	25,379	949	3,161 130,830		
1995 Total	998	379	5.162	1,519	8,232	22,372	6.030	71.717	11.943	5,304	28.868	900	151.025		
1996 Total	1,051	369	5,249	2,176	9,030	22,172	6,260	71,049	13,015	5,878	28,354	919	151,017		
1997 Total	1,040	427	4,725	2,342	8,701	23,214	5,649	75,078	11,814	5,685	28,225	882	154,097		
1998 Total	985	383	4,879	2,335	8,748	22,337	6,206	77,085	11,170	5,349	27,693	880	154,132		
1999 Total	995	434	4,607	2,393	8,563	21,474	6,088	78,793	12,519	4,758	28,060	686	156,264		
2000 Total 2001 Total	1,097 995	432 438	4,262 4,434	1,985 1.007	7,903 7,416	22,056 20,135	5,597 5,293	78,798 79,755	11,927 8.454	4,135 3,145	28,652 26.888	839 596	156,673 149,175		
2002 Total	992	431	4,310	1,057	7,415	21,525	4,403	79,013	9,493	3,825	29,643	846	152,580		
2003 Total	1.206	423	3,899	1,289	7,496	19,817	5,285	78,705	12,953	4,222	27,988	715	154,530		
2004 Total	1,340	499	3,969	1,562	8,270	19,773	5,967	78,959	11,684	3,248	28,367	797	153,925		
2005 Total	1,353	375	4,249	1,657	8,492	19,466	5,368	72,882	9,687	3,195	28,271	733	144,739		
2006 Total	1,310	235	4,355	1,599	8,371	19,464	4,223	77,669	9,923	2,899	28,400	572	148,254		
2007 Total	1,371	189	4,257	1,599	8,273	16,694	4,243	77,580	9,411	1,590	28,287	631	143,128		
2008 Total	1,261 1.096	142 163	4,188 4,225	1,534 1,748	7,926 8,165	15,703 13,686	3,219 2,963	76,421 75,748	8,507 7,574	1,676 1,868	26,641 25,292	821 740	137,113 132,329		
2009 Total	1,096	103	4,225	1,740	0,100	13,000	2,903	75,746	7,574	1,000	25,292	740	132,329		
2010 January	116	13	367	137	709	1,544	225	6,959	634	169	2,114	72	12,120		
February	102	11	339	111	623	1,481	197	6,303	578	162	1,967	64	11,118		
March	91 80	8 9	351 326	134 144	661 645	1,649 1,258	163 169	6,588 6,194	735 669	188 187	2,149 2,094	67 80	11,936 11,034		
April May	84	12	326	144	666	1,236	181	6,194	738	164	2,094	69	11,034		
June	97	10	350	150	699	1,482	187	6,885	700	132	2,137	68	12,075		
July	110	18	459	146	812	1.713	194	7,205	696	107	2.246	75	12,718		
August	105	11	490	152	838	1,792	189	7,701	812	99	2,243	78	13,395		
September	89	9	421	148	750	1,499	165	7,085	713	76	2,182	62	12,238		
October	80	7	419	133	712	1,527	184	6,443	637	117	2,114	84	11,562		
November	69	4	401	134	683	1,301	196	6,520	688	130	2,145	79	11,493		
December Total	88 1,111	12 124	476 4,725	136 1,672	793 8,592	1,677 18,441	209 2,258	7,223 81,583	744 8,343	134 1.668	2,255 25,706	71 869	12,777 144,082		
10tal			,	•	,	· ·	,	,	•	,	,		•		
2011 January	103 95	13 8	402 350	139 125	739 656	1,723 1,447	198 151	7,017 6,314	663 564	137 160	2,271 2.021	71 64	12,341 10,961		
March	93 97	7	341	134	666	1,447	165	6,478	705	188	2,021	65	11,494		
April	71	5	347	118	622	1,155	162	6,473	662	196	2,112	62	11,089		
May	77	6	373	160	714	1,622	140	6,829	597	208	2,047	74	11,822		
June	82	8	368	144	693	1,549	155	6,696	698	147	2,321	71	11,921		
July	96	13	431	155	791	1,763	158	7,181	762	118	2,304	76	12,669		
August	86	7	408	160	752	1,814	157	7,248	706	100	2,268	76	12,639		
September	76	6	356	150 153	674 668	1,686 1,609	166	6,629	670 669	123 126	2,215 2,123	76 72	11,811 11,317		
October November	63 64	8 6	359 378	155	691	1,609	135 121	6,312 6.841	680	147	2,123	77	11,623		
December	78	6	413	154	739	1,200	138	7.480	738	188	2,220	73	12,577		
Total	989	93	4,526	1,746	8,403	18,406	1,846	81,500	8,115	1,838	26,422	858	142,266		
2012 January	83	6	387	163	698	1,552	286	7,295	673	182	2,343	70	12,657		
February	82	4	357	163	665	1,388	190	6,999	723	163	2,152	65	11,904		
March	68	4	363	155	658	1,412	197	6,765	747	195	2,001	60	11,633		
April	49	6	359	159	639	1,041	206	6,513	775	166	1,885	65	10,895		
4-Month Total	282	20	1,465	641	2,660	5,392	879	27,573	2,918	705	8,381	261	47,089		
2011 4-Month Total 2010 4-Month Total	367 389	33 40	1,440 1,383	516 525	2,683 2,637	5,782 5,932	677 753	26,283 26,044	2,594 2,615	682 707	8,560 8,323	262 284	45,885 46,209		

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

NA=Not available.

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

Sources: See end of section.

plants.

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

plants.

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

synfuel.

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

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).

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

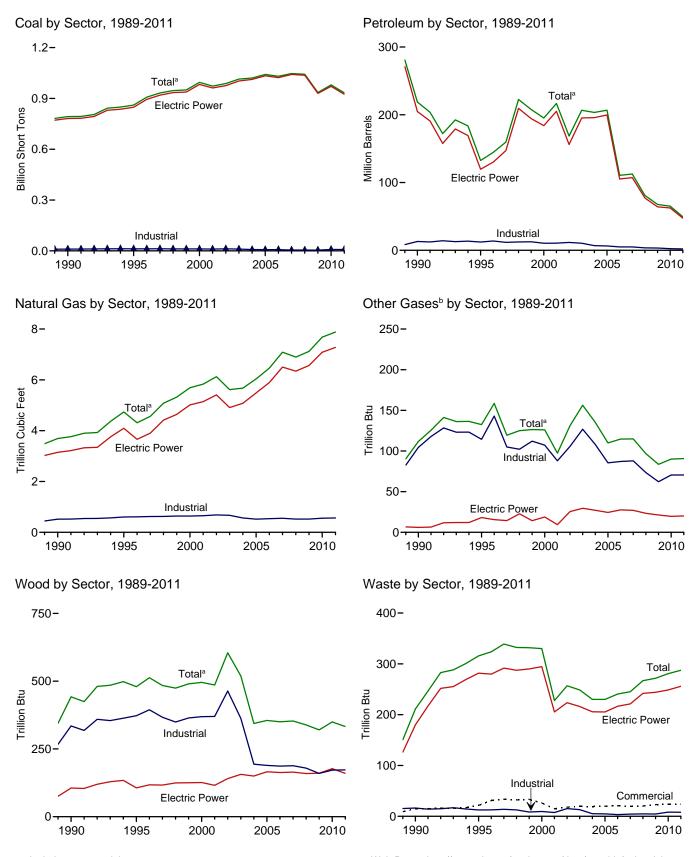
^h Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

i Conventional hydroelectric power.

Wood and wood-derived fuels.

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

Figure 7.3 Consumption of Selected Combustible Fuels for Electricity Generation



^a Includes commercial sector.

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

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

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ⁹	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	Th	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total 1980 Total 1985 Total	389,212 405,962 569,274 693,841	47,058 38,907 29,051 14,635	513,190 467,221 391,163 158,779	NA NA NA	507 70 179 231	562,781 506,479 421,110 174,571	3,660 3,158 3,682 3,044	NA NA NA	1 (s) 3 8	2 2 2 7	NA NA NA NA
1990 Total ^k 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total	792,457 860,594 907,209 931,949 946,295 949,802	18,143 19,615 20,252 20,309 25,062 25,951	190,652 95,507 106,055 118,741 172,728 158,187	437 680 1,712 237 549 974	1,914 3,355 3,322 4,086 4,860 4,552	218,800 132,578 144,626 159,715 222,640 207,871	3,692 4,738 4,312 4,565 5,081 5,322	112 133 159 119 125 126	442 480 513 484 475 490	211 316 324 339 332 332	36 42 37 36 36 41
2000 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total	994,933 972,691 987,583 1,014,058 1,020,523 1,041,448	31,675 31,150 23,286 29,672 20,163 20,651	143,381 165,312 109,235 142,518 142,088 141,518	1,450 855 1,894 2,947 2,856 2,968	3,744 3,871 6,836 6,303 7,677 8,330	195,228 216,672 168,597 206,653 203,494 206,785	5,691 5,832 6,126 5,616 5,675 6,036	126 97 131 156 135	496 486 605 519 344 355	330 228 257 249 230 230	46 160 191 193 183 173
2006 Total	1,030,556 1,046,795 1,042,335 934,683	13,174 15,683 12,832 12,658	58,473 63,833 38,191 28,576	2,174 2,917 2,822 2,328	7,363 6,036 5,417 4,821	110,634 112,615 80,932 67,668	6,462 7,089 6,896 7,121	115 115 97 84	350 353 339 320	241 245 267 272	173 172 168 172 170
Pebruary	90,767 80,209 76,544 67,037 76,061 87,395 94,993 94,786 79,573 70,918 72,756 88,645 979,684	2,485 869 785 726 1,050 1,244 1,347 1,093 905 787 876 1,883 14,050	2,860 1,075 1,245 1,160 1,997 3,087 3,681 2,987 1,789 1,113 982 2,021 23,997	241 212 147 126 121 154 200 164 151 129 143 266 2,056	433 404 438 382 415 493 524 423 394 362 317 408 4,994	7,751 4,174 4,370 3,923 5,244 6,950 6,358 4,813 3,840 3,588 6,210 65,071	570 502 479 494 582 731 923 972 723 594 519 591 7,680	7 6 8 8 8 8 8 8 6 7 8 8	30 28 29 27 27 29 31 32 30 28 29 31 350	22 20 24 23 24 24 24 24 23 23 23 24 24 24 281	15 13 15 15 15 16 16 16 15 15
Page 2011 January February February March April May June July August September October November December Total	90,106 73,505 72,340 66,870 73,511 84,072 94,214 92,177 76,612 69,524 66,789 73,190 932,911	1,238 854 839 957 909 969 1,161 809 778 711 715 835 10,775	1,700 1,007 1,122 1,328 1,222 1,261 1,542 1,333 958 940 904 927 14,246	231 124 133 121 110 145 167 122 162 124 135 134 1,707	526 387 465 304 316 388 479 415 392 307 250 331 4,561	5,802 3,919 4,421 3,924 3,820 4,316 5,265 4,341 3,861 3,311 3,002 3,551 49,533	564 503 504 548 603 729 966 948 710 600 568 639 7,880	7 6 7 7 7 8 8 8 8 8 8 8 8 8 8 8	30 27 28 24 25 29 30 30 28 26 30 333	22 21 24 23 24 25 26 25 24 24 24 24 25 28	12 11 14 13 14 15 14 13 13 13 13 14 162
2012 January February March April 4-Month Total	70,595 62,802 57,564 51,574 242,535	772 649 579 734 2,734	988 753 869 797 3,407	135 108 120 126 489	414 314 251 204 1,183	3,964 3,079 2,825 2,675 12,543	676 672 704 744 2,796	9 9 9 8 35	30 28 26 25 110	23 22 24 24 92	14 12 13 13 52
2011 4-Month Total 2010 4-Month Total	302,822 314,557	3,888 4,866	5,158 6,341	609 726	1,682 1,657	18,066 20,218	2,119 2,044	28 29	109 114	91 90	51 57

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

for electric utilities, independent power producers, commercial plants.

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

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

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

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

and the District of Columbia.

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

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

synfuel.

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

small amounts of kerosene and jet fuel.

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

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

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

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

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

h Wood and wood-derived fuels.

i Municipal solid waste from him.

Modulated wood-united felse.

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

tire-derived fuels).

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

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

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ⁹	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total 1980 Total 1985 Total	389,212 405,962 569,274 693,841	47,058 38,907 29,051 14.635	513,190 467,221 391,163 158,779	NA NA NA	507 70 179 231	562,781 506,479 421,110 174,571	3,660 3,158 3,682 3,044	NA NA NA	1 (s) 3 8	2 2 2 7	NA NA NA
1990 Total ^k	781,301 847,854 894,400 919,009 934,126 937,888 982,713 961,523	16,394 18,066 18,472 18,646 23,166 23,875 29,722 29,056	183,285 88,895 98,795 112,423 165,875 151,921 138,047 159,150	25 441 567 130 411 514 403 374	1,008 2,452 2,467 3,201 3,999 3,607 3,155 3,308	204,745 119,663 130,168 147,202 209,447 194,345 183,946 205,119	3,147 4,094 3,660 3,903 4,416 4,644 5,014 5,142	6 18 16 14 23 14 19	106 106 117 117 125 125 126 116	180 282 280 292 287 290 294 205	(s) 2 2 1 2 1 1 109
2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	975,251 1,003,036 1,012,459 1,033,567 1,022,802 1,041,346 1,036,891 929,692	21,810 27,441 18,793 19,450 12,578 15,135 12,318 11,848	104,577 137,361 138,831 138,337 56,347 62,072 37,222 27,768	1,243 1,937 2,511 2,591 1,783 2,496 2,608 2,110	5,705 5,719 7,135 7,877 6,905 5,523 5,000 4,485	156,154 195,336 195,809 199,760 105,235 107,316 77,149 64,151	5,408 4,909 5,075 5,485 5,891 6,502 6,342 6,567	25 30 27 24 28 27 23 21	141 156 150 166 163 165 159	204 216 206 205 216 221 242 244	137 136 131 116 117 117 122 115
2010 January February March April May June July August September October November December Total	90,080 79,537 75,772 66,559 75,311 86,725 94,194 93,922 78,881 70,205 72,206 87,854 971,245	2,441 833 756 695 1,021 1,220 1,306 1,066 880 762 849 1,847	2,804 1,023 1,214 1,132 1,964 3,059 3,643 2,962 1,760 1,076 949 1,973 23,560	219 196 130 112 104 137 185 149 136 112 125 244 1,848	404 379 415 360 390 463 495 392 371 337 290 383 4,679	7,482 3,946 4,176 3,741 5,040 6,733 7,610 6,136 4,628 3,634 3,634 3,637 5,978 62,477	519 456 432 449 536 681 869 915 671 547 473 538 7,085	2 2 2 2 2 2 2 2 1 1 1 1 20	16 15 15 14 13 15 16 15 13 15 16	20 18 21 20 21 21 22 22 21 20 21 22 249	9 8 9 9 10 10 10 10 10 10 10
February February March April May June July August September October November December Total	89,305 72,814 71,671 66,411 72,742 83,360 93,388 91,340 75,820 68,779 66,260 72,633 924,523	1,215 832 822 936 891 946 1,135 788 756 686 693 811	1,653 973 1,093 1,296 1,199 1,236 1,518 1,311 940 911 883 899 13,914	223 117 121 104 103 129 158 107 126 119 129 128 1,564	495 365 440 282 295 364 452 389 369 288 233 309 4,281	5,564 3,750 4,234 3,747 3,670 4,134 5,069 4,152 3,670 3,155 2,871 3,382 47,398	512 457 457 500 551 679 912 894 661 553 518 584 7,279	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	15 14 13 11 12 14 15 15 13 12 12 15	20 18 22 21 22 22 23 22 21 21 21 21 22 256	9 8 10 10 10 10 11 10 10 10 10 10
2012 January February March April 4-Month Total	69,864 62,146 56,908 51,168 240,086	754 635 563 713 2,665	961 728 849 776 3,314	124 97 111 102 434	331 263 201 154 950	3,497 2,775 2,528 2,360 11,161	623 623 655 697 2,598	3 3 2 2 9	15 14 13 10 51	21 19 21 21 82	10 9 10 10 40
2011 4-Month Total 2010 4-Month Total	300,201 311,948	3,806 4,725	5,015 6,173	565 657	1,582 1,558	17,295 19,345	1,925 1,855	6 7	53 59	81 79	37 37

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

oil no. 4.

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

tire-derived fuels).

tire-derived fuels).

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

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

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

Notes: • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding.

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

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

Sources: See end of section.

^a Affuriacite, biturillinus oca, substantially synfuel.

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

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

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

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

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

Wood and wood-derived for the control of the contr 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

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		
			Natural	Biomass			Natural	Other	Bion	nass	
	Coalc	Petroleum ^d	Gase	Waste ^f	Coalc	Petroleum ^d	Gas ^e	Gases	Woodh	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	n Btu	
1989 Total	414	1,165	18	9	9,707	8,482	444	83	267	15	37
1990 Total	417	953	28	15	10,740	13,103	517	104	335	16	36
1995 Total	569	649	43	21	12,171	12,265	601	114	373	13	40
1996 Total	656	645	42	31	12,153	13,813	610	143	394	13	35
1997 Total	630 440	790 802	39 41	34 32	12,311 11,728	11,723 12,392	623 625	105 102	367 349	14 13	36 35
1998 Total	481	931	39	33	11,432	12,595	639	112	364	8	39
2000 Total	514	823	37	26	11,706	10,459	640	107	369	10	45
2001 Total	532	1,023	36	15	10,636	10,530	654	88	370	7	44
2002 Total	477	834	33	18	11,855	11,608	685	106	464	15	43
2003 Total	582	894	38	19	10,440	10,424	668	127	362	13	46
2004 Total	377	766	33	19	7,687	6,919	566	108	194	5	41
2005 Total	377	585	34	20	7,504	6,440	518	85	189	5	46
2006 Total	347	333	35	21	7,408	5,066	536	87	187	3	45
2007 Total	361 369	258 166	34 33	19 20	5,089 5,075	5,041 3.617	554 520	88 73	188 179	4 5	41 39
2008 Total 2009 Total	317	190	34	23	4,674	3,328	520	62	160	4	42
2010 January	32	18	3	2	654	252	48	5	14	1	4
February	28	16	3	2	643	212	43	5	13	1	4
March	26	12	3	2	746	182	44	6	14	1	4
April	23	11	3	2	456	171	42	6	14	1	4
May	23	14	3	2	727	190	44	6	14	1	4
June	27	13	3	2	643	204	47	6	14	1	5
July	30	26	4	2	769	213	50	6	15	1	5
August	29	15	4	2	835	207	53	7	15	1	5
September	26	13	3	2	666	171	48 44	6	15	1	5
October	23 21	11 7	3 3	2 2	690 529	195 208	44 43	5 6	14 14	1	5
November December	26	15	3 4	2	765	217	43 48	6	15	1	4 5
Total	314	172	39	24	8,125	2,422	555	70	172	8	55
	30	14	3	2	771	223	49	6	15	1	2
2011 January	28	9	3	2	663	160	44	5	13	1	2
March	28	8	3	2	641	179	44	6	14	i	3
April	22	6	3	2	437	171	45	6	14	i	3
May	23	7	3	2	746	143	48	5	13	1	3
June	24	9	3	2	688	173	47	6	15	1	3
July	28	15	4	2	798	181	50	7	15	1	3
August	26	9	3	2	811	180	50	6	15	1	3
September	23	8	3	2	769	183	46	6	14	1	2
October	20 20	11	3	2	725	145	44	6	14	1	3
November	20	8 8	3 3	2 2	509 533	124 161	47 51	6 6	15 16	1 1	3
December Total	297	112	38	24	8,091	2,023	564	71	173	8	31
2012 January	25	7	3	2	706	460	50	6	15	1	2
February	25	5	3	2	631	299	47	6	15	1	2
March	22	6	3	2	634	291	46	7	14	1	2
April	19	8	3	2	387	306	44	7	15	1	2
4-Month Total	92	26	12	8	2,358	1,356	187	26	59	3	9
2011 4-Month Total 2010 4-Month Total	108 109	38 57	12 12	7 8	2,513 2,500	733 816	182 177	22 22	56 55	2 3	10 16

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

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

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

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

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

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

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

plants.

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

plants.

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

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

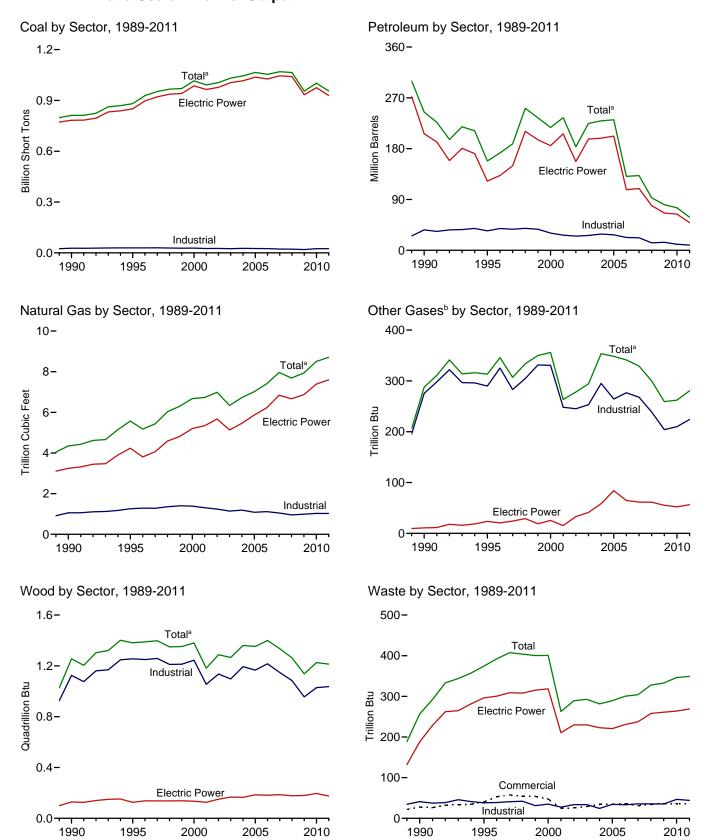
petroleum, and waste oil.

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

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

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

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



^a Includes commercial sector.

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

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

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

				Petroleum					Bion	nass	
	Coal ^a	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ⁹	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	Th	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total	389,212	47,058	513,190	NA	507	562,781	3,660	NA	1	2	NA
1975 Total	405,962	38,907	467,221	NA	70	506,479	3,158	NA	0	2	NA
1980 Total	569,274	29,051	391,163	NA	179	421,110	3,682	NA	3	2	NA
1985 Total 1990 Total ^k	693,841 811,538	14,635 20,194	158,779 209,081	NA 1,332	231 2,832	174,571 244,765	3,044 4,346	NA 288	1,256		NA 86
1995 Total	881,012	21,697	112,168	1,322	4,590	158,140	5,572	313	1,382	374	97
1996 Total	928,015	22,444	124,607	2,468	4,596	172,499	5,178	346	1,389	392	91
1997 Total	952,955	22,893	134,623	526	6,095	188,517	5,433	307	1,397	407	103
1998 Total	966,615	30,006	189,267	1,230	6,196	251,486	6,030	334	1,349	404	95
1999 Total	970,175	30,616	172,319	1,812	5,989	234,694	6,305	350	1,352	400	101
2000 Total	1,015,398	34,572	156,673	2,904	4,669	217,494	6,677	356	1,380	401	109
2001 Total	991,635	33,724	177,137	1,418	4,532	234,940	6,731	263	1,182	263	229
2002 Total	1,005,144	24,749	118,637	3,257	7,353	183,409	6,986	278	1,287	289	252
2003 Total	1,031,778	31,825	152,859	4,576	7,067	224,593	6,337	294	1,266	293	262
2004 Total	1,044,798	23,520	157,478	4,764	8,721	229,364	6,727	353	1,360	282	254
2005 Total	1,065,281	24,446	156,915	4,270	9,113	231,193	7,021	348	1,353	289	237
2006 Total	1,053,783	14,655	69,846	3,396	8,622	131,005	7,404	341	1,399	300	247
2007 Total	1,069,606	17,042	74,616	4,237	7,299	132,389	7,962	329	1,336	304	239
2008 Total	1,064,503	14,137	43,477	3,765	6,314	92,948	7,689	300	1,263	328	212
2009 Total	955,190	14,800	33,672	3,218	5,828	80,830	7,938	259	1,137	333	228
2010 January	92,738	2,643	3,212	338	525	8,819	643	21	103	29	18
	82,029	978	1,397	286	497	5,143	566	19	96	26	17
March April	78,383 69,179	866 837	1,439 1,355	207 176	522 458	5,124 4,656	547 556	23 22	103 98	30 29 29	19 19
May June	77,725 89,063	1,111 1,295 1,455	2,221 3,291 3,921	176 204 244	500 586 613	6,005 7,721 8,684	647 796 997	23 23 22	98 101 105	29 29 29	20 21 21
July August	96,783 96,593 81,250	1,455 1,185 961	3,190 2,006	206 191	510 475	7,132 5,534	1,047 791	23 22	106 103	29 29 27	21 21 20
September October	72,571 74.496	871 1,017	1,370	186 204	475 453 414	4,693 4,503	662 586	20 21	101 102	29 30	20 20 20
November December	90,600 1,001,411	2,029	1,212 2,332	361	499	7,218	665	23 262	109	30 346	21 237
Total 2011 January	92.180	15,247 1.302	26,944 2.014	2,777 286	6,053 602	75,231 6,611	8,502 639	202	1,226 108	29	237 15
February	75,364	934	1,197	161	490	4,742	568	20	96	26	14
March	74,254	890	1,327	175	573	5,256	570	24	100	29	16
April	68,631	1,020	1,541	170	409	4,774	615	23	95	27	15
May	75,353	962	1,405	147	434	4,683	671	23	94	29	16
June	85,880	1,013	1,452	188	475	5,030	794	24	104	29	17
July	96,079	1,208	1,739	206	566	5,982	1,037	24	105	30	17
August	93,974	851	1,523	165	498	5,029	1,020	24	103	30	16
September	78,352	816	1,129	225	465	4,497	777	23	101	29	15
October	71,305	762	1,162	152	388	4,018	666	25	97	29	15
November	68.515	748	1.082	164	358	3,784	636	23	100	30	15
December	75,036	868	1,109	162	408	4,181	713	25	109	31	17
	954,925	11,374	16,678	2,203	5,666	58,586	8,707	281	1,214	349	189
2012 January	72,487	817	1,177	171	487	4,598	753	26	107	29	16
February	64,477	674	882	140	388	3,637	743	26	99	27	15
March	59,263	609	985	185	372	3,642	775	26	95	29	16
April	53,057	764	908	177	305	3,376	814	25	90	29	15
4-Month Total	249,285	2,865	3,952	674	1,553	15,253	3,085	104	392	114	61
2011 4-Month Total	310,430	4,147	6,078	793	2,073	21,383	2,392	89	399	111	60
2010 4-Month Total	322,329	5,323	7,402	1,007	2,002	23,741	2,312	86	399	113	73

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

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

NA=Not available.

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

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

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

synfuel.

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

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

amount of fuel oil no. 4.

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

Natural gas, plus a small amount of supplemental gaseous fuels

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

h Wood and wood-derived fuels.

Wood and wood-derived fuels.

¹¹ Wood and wood-derived rues.
i Municipal solid waste from biogenic sources, landfill gas, sludge waste, pricultural byproducts, and other biomass. Through 2000, also includes agricultural byproducts, and other biomass.

non-renewable waste (municipal soile waste from non-loigenic sources, and tire-derived fuels).

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

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

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

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oilb	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ⁹	Woodh	Waste ⁱ	Other
	Thousand Short Tons	Th	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total k	389,212 405,962 569,274 693,841 782,567 850,230	47,058 38,907 29,051 14,635 16,567 18,553	513,190 467,221 391,163 158,779 184,915 90,023	NA NA NA NA 26 499	507 70 179 231 1,008 2,674	562,781 506,479 421,110 174,571 206,550 122,447	3,660 3,158 3,682 3,044 3,245 4,237	NA NA NA NA 11 24	1 (s) 3 8 129 125	2 2 2 7 188 296	NA NA NA NA (s)
1996 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total	896,921 921,364 936,619 940,922 985,821 964,433 977,507	18,780 18,989 23,300 24,058 30,016 29,274 21,876	99,951 113,669 166,528 152,493 138,513 159,504 104,773	653 152 431 544 454 377 1,267	2,642 3,372 4,102 3,735 3,275 3,427 5,816	132,593 149,668 210,769 195,769 185,358 206,291 156,996	3,807 4,065 4,588 4,820 5,206 5,342 5,672	20 24 29 19 25 15	138 137 137 138 134 126 150	300 309 308 315 318 211 230	2 1 2 1 1 113 143
2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	1,005,116 1,016,268 1,037,485 1,026,636 1,045,141 1,040,580 933,627	27,632 19,107 19,675 12,646 15,327 12,547 12,035	138,279 139,816 139,409 57,345 63,086 38,241 28,782	2,026 2,713 2,685 1,870 2,594 2,670 2,210	5,799 7,372 8,083 7,101 5,685 5,119 4,611	196,932 198,498 202,184 107,365 109,431 79,056 66,081	5,135 5,464 5,869 6,222 6,841 6,668 6,873	41 58 84 65 61 61 55	167 165 185 182 186 177 180	230 223 221 231 237 258 261	140 138 123 125 124 131
2010 January	90,452 79,884 76,110 66,842 75,597 87,030 94,519 94,247 79,176 70,492 72,514 88,189 975,052	2,459 851 759 699 1,023 1,222 1,309 1,068 883 772 890 1,854 13,790	2,887 1,061 1,256 1,214 2,055 3,147 3,730 3,051 1,845 1,161 1,035 2,062 24,503	222 219 131 112 104 137 185 149 136 112 126 245	413 389 427 369 400 471 503 394 372 346 301 391 4,777	7,636 4,076 4,281 3,871 5,861 6,860 7,742 6,236 4,726 3,773 3,557 6,118 64,055	546 480 457 471 560 706 897 943 697 570 497 564 7,387	5 4 5 5 5 5 5 5 4 4 4 3 3 4 4 4 52	17 16 16 15 14 16 17 18 16 15 16 17	21 20 22 21 22 23 23 23 22 22 22 22 23 23	10 9 10 10 10 11 11 11 10 10 10
2011 January February March April January June July September October November December Total	89,682 73,156 72,009 66,741 73,100 83,700 93,736 91,667 76,131 69,109 66,557 72,971 928,558	1,225 858 827 940 894 950 1,139 793 760 690 814 10,586	1,759 1,020 1,164 1,378 1,279 1,316 1,603 1,400 1,027 995 962 973 14,876	224 117 121 104 103 129 158 107 127 119 131 128 1,568	500 374 451 291 306 374 462 400 380 295 242 319 4,394	5,707 3,866 4,364 3,879 3,807 4,265 5,211 4,299 3,812 3,280 2,999 3,512 49,003	542 482 483 526 578 705 942 923 686 578 543 612 7,602	4 4 5 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 6	16 15 15 12 13 15 16 16 15 13 16 175	21 20 23 22 22 23 24 23 22 23 22 23 23 23 23	10 9 11 10 11 11 11 11 10 10 10 11
2012 January	70,231 62,450 57,211 51,357 241,249	758 638 567 717 2,681	1,054 790 898 838 3,580	125 97 111 102 434	342 274 212 163 991	3,649 2,895 2,636 2,472 11,651	651 649 680 724 2,705	6 6 5 4 22	16 15 14 11 56	22 21 23 22 88	11 10 11 11 44
2011 4-Month Total 2010 4-Month Total	301,587 313,287	3,849 4,768	5,321 6,417	566 685	1,616 1,598	17,817 19,863	2,033 1,954	17 19	58 65	86 85	40 39

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

tire-derived fuels).

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

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

Notes:

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

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

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

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

Sources: See end of section.

Sources: See end of section.

A Humanie, brushimose Star, synfuel.

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

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

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

 Jet fuel, kerosene, other petroleum liquids, and waste oil.
 Petroleum coke is converted from short tons to barrels by multiplying by 5.
 Natural gas, plus a small amount of supplemental gaseous fuels.
 Blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels.

 Wood and wood-derived fuels.
 Mucical solid waste from biogenic sources, landfill, gas, sludge waste.

Mood and wood devices of the property of th

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).

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

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		
			Netural	Biomass			Netural	Other	Biom	nass	
	Coalc	Petroleum ^d	Natural Gas ^e	Waste ^f	Coalc	Petroleum ^d	Natural Gas ^e	Other Gases	Woodh	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	Btu	
1989 Total	1,125	1,967	30	22	24,867	25,444	914	195	926	35	85
1990 Total	1,191	2,056	46	28	27,781	36,159	1,055	275	1,125	41	86
1995 Total	1,419	1,245	78	40	29,363	34,448	1,258	290	1,255	38	95
1996 Total	1,660 1.738	1,246 1,584	82 87	53 58	29,434 29,853	38,661 37,265	1,289 1,282	325 283	1,249 1,259	39 41	89 102
1998 Total	1,730	1,364	87	54	28,553	38,910	1,355	305	1,211	42	93
1999 Total	1,490	1,613	84	54	27,763	37,312	1,401	331	1,213	31	99
2000 Total	1,547	1,615	85	47	28,031	30,520	1,386	331	1,244	35	108
2001 Total	1,448	1,832	79	25	25,755	26,817	1,310	248	1,054	27	101
2002 Total	1,405	1,250	74	26	26,232	25,163	1,240	245	1,136	34	92
2003 Total	1,816	1,449	58	29	24,846	26,212	1,144	253	1,097	34	103
2004 Total	1,917	2,009	72 68	34 34	26,613	28,857	1,191	295	1,193	24 34	94
2005 Total 2006 Total	1,922 1,886	1,630 935	68	34 36	25,875 25,262	27,380 22,706	1,084 1,115	264 277	1,166 1,216	33	94 102
2007 Total	1,927	752	70	31	22,537	22,207	1.050	268	1,148	36	98
2008 Total	2,021	671	66	34	21,902	13,222	955	239	1,084	35	60
2009 Total	1,798	521	76	36	19,766	14,228	990	204	955	35	82
2010 January	193	55	7	3	2,094	1,128	90	17	86	4	6
February	167	47	7	3	1,978	1,021	80	15	79	4	7
March	149	26	7	3	2,124	817	84	18	86	4	7
April	117 118	24 28	6 6	3	2,220 2.010	761 796	79 82	18 18	83 83	5 3	7
May June	135	26 26	6	3	1.898	835	84	18	85	3	8
July	142	59	8	3	2,122	883	91	17	88	3	8
August	152	46	9	3	2,194	849	95	19	88	3	ě
September	133	27	7	3	1,941	780	87	18	87	3	8
October	121	21	7	3	1,958	899	84	17	86	5	8
November	128	22	7	3	1,854	924	82	17	86	5	8
December	165	55	8	3	2,246	1,045	92	19	91	4	8
Total	1,720	437	86	36	24,638	10,740	1,029	210	1,029	47	91
2011 January February	178 165	45 24	8 7	3	2,320 2,044	858 852	89 79	18 16	91 81	4	3
March	158	29	6	3	2,044	862	81	20	86	3	3
April	124	15	6	3	1,767	880	82	19	83	3	3
May	128	17	7	3	2,126	859	87	18	81	4	2
June	124	22	6	3	2,056	743	83	19	89	4	4
July	134	35	7	3	2,208	737	88	19	89	4	4
August	124	20	7	3	2,182	710	89	19	86	4	3
September	121	15	6	3	2,100	670	84	18	87	4	3
October November	116 123	19 18	6 7	3	2,080 1,835	719 767	81 86	20 19	84 87	4	3
December	138	23	8	3	1,833	646	94	20	93	4	4
Total	1,633	282	81	36	24,733	9,302	1,024	224	1,037	44	40
2012 January	154	30	7	3	2,102	919	94	21	91	4	3
February	137	16	7	3	1,890	726	87	20	84	4	3
March	131	17	6	3	1,921	989	89	21	81	3	3
April 4-Month Total	111 533	14 77	6 26	3 11	1,589 7,503	891 3,525	84 354	20 82	79 335	4 15	3 12
2011 4-Month Total 2010 4-Month Total	624 626	114 151	27 26	11 12	8,218 8,415	3,453 3,728	332 332	73 67	341 334	14 17	13 27

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

plants.

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

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

synfuel.

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

petroleum, and waste oil.

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

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

tire-derived fuels).

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

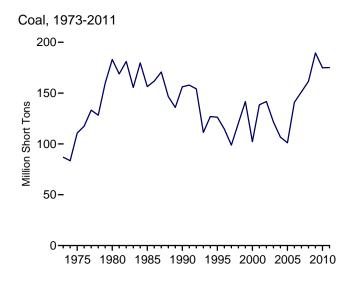
h Wood and wood-derived fuels.
i Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

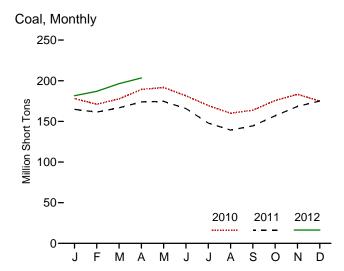
Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

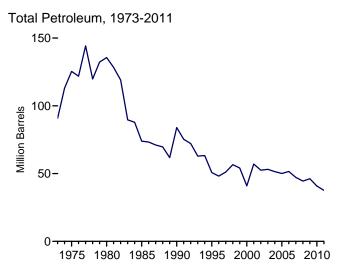
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1989.

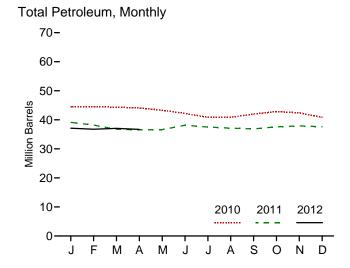
Sources: • 1989-1997: U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-868, "Annual Electric Generator Report." • 1998-2000: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report."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

Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector

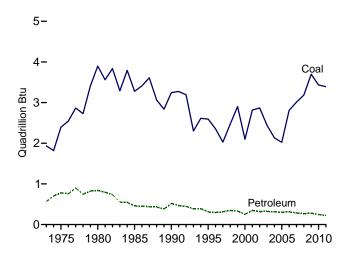




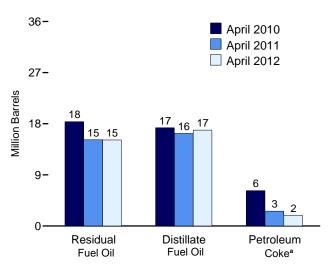




Coal and Petroleum Stocks, 1973-2011



Petroleum by Major Type, End of Month



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

Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector

				Petroleum		
	Coal ^a	Distillate Fuel Oilb	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale
	Thousand Short Tons		Thousand Barrels		Thousand Short Tons	Thousand Barrels
973 Year	86,967	10,095	79,121	NA	312	90,776
975 Year		16,432	108.825	NA NA	31	125,413
980 Year		30,023	105,351	NA NA	52	135,635
985 Year		16,386	57,304	NA NA	49	73,933
		16,471	67.030	NA NA	94	83.970
990 Year				NA NA	65	
995 Year		15,392	35,102			50,821
996 Year		15,216	32,473	NA	91	48,146
997 Year		15,456	33,336	NA	469	51,138
998 Year		16,343	37,451	NA NA	559	56,591
999 Year ^f		17,995	34,256	NA	372	54,109
000 Year		15,127	24,748	NA	211	40,932
001 Year	138,496	20,486	34,594	NA	390	57,031
002 Year	141,714	17,413	25,723	800	1,711	52,490
003 Year	121.567	19,153	25.820	779	1.484	53,170
004 Year		19,275	26,596	879	937	51,434
005 Year		18,778	27,624	1.012	530	50,062
006 Year		18,013	28,823	1,380	674	51,583
007 Year		18,395	24,136	1,902	554	47,203
008 Year		17,761	21.088	1,955	739	44.498
009 Year		17,761	19.068	2,257	1.394	46,181
.009 rear	109,407	17,000	19,000	2,257	1,394	40,101
010 January		17,193	18,035	2,198	1,406	44,454
February	171,026	17,409	18,532	2,222	1,280	44,562
March	177,742	17,353	18,679	2,105	1,240	44,337
April	189,260	17,295	18,353	2,228	1,243	44,090
May	191.669	17.185	17.935	2.235	1.188	43.294
June		17,040	17,411	2.172	1.117	42,209
July		16.917	16.441	2,268	1.046	40.856
August		16,737	16,288	2,292	1.112	40.878
September		16,608	17,269	2,330	1,158	41.996
Octobor	175.686	16.698	17,203	2,377	1,197	42.840
October						
November		17,024	17,492	2,410	1,098	42,414
December	174,917	16,758	16,629	2,319	1,019	40,800
011 January		16,673	16,061	2,383	801	39,123
February	161,439	16,654	15,575	2,435	707	38,200
March	166,737	16,498	15,393	2,437	489	36,776
April		16,301	15,180	2.460	522	36,551
May		16.195	15,235	2,447	548	36,617
June		16,779	16,356	2,564	491	38,152
July		16,550	16.090	2,561	462	37,510
August	,	16,583	15.804	2,581	435	37,144
		16,691	15,654	2,593	389	36,884
September		16,691	15,654		389 413	36,884 37.601
October				2,640		
November		17,148	15,832	2,677	453	37,923
December	175,100	17,101	15,469	2,690	470	37,608
012 January	181,621	17,179	15,248	2,718	394	37,116
February		17,024	15,174	2.766	357	36,749
March		16,929	15,326	2,792	405	37,073

Anthracite, bituminous coal, subbituminous coal, and lignite.

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

are at end of period.

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

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

Columbia.

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

Sources: • 1973-September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • October 1977-1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • 1982-1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." • 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." • 2004-2007: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report." • 2004-2007: EIA, Form EIA-908, "Power Plant Report." • 2004-2007: EIA, Form EIA-908, "Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

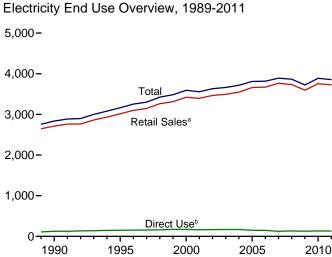
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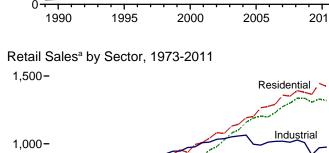
oil no. 4.

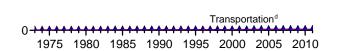
d Jet fuel and kerosene. Through 2003, data also include a small amount of

e Petroleum coke is converted from short tons to barrels by multiplying by 5.
 f Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers. NA=Not available.

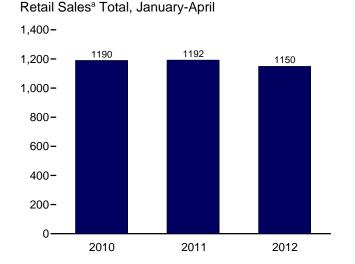
Figure 7.6 Electricity End Use (Billion Kilowatthours)

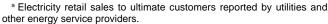






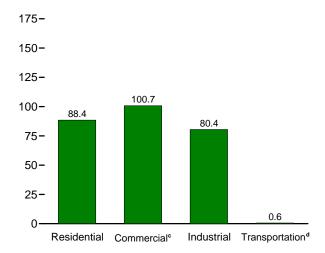
Commercial



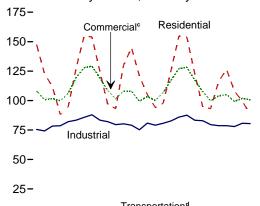


^b See "Direct Use" in Glossary.

Retail Sales^a by Sector, April 2012

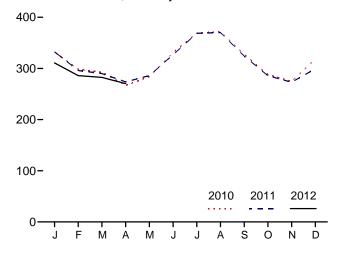


Retail Sales^a by Sector, Monthly





Retail Sales^a Total, Monthly



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.

500

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

Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Sales ^a					Discont Retail Sale	
	Residential	Commercialb	Industrial ^c	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use	Commercial (Old) h	Other (Old) ⁱ
973 Total	579,231	E 444,505	686,085	E 3,087	1,712,909	NA	1,712,909	388,266	59,32
75 Total	588,140	€ 468,296	687,680	E 2,974	1.747.091	NA	1,747,091	403,049	68.22
980 Total	717,495	558,643	815,067	3.244	2,094,449	NA	2,094,449	488,155	73,73
985 Total	793,934	689,121	836,772	4,147	2,323,974	NA	2,323,974	605,989	87.27
90 Total	924,019	838,263	945,522	4,751	2,712,555	124,529	2,837,084	751,027	91,98
95 Total	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,40
96 Total	1,082,512	980,061	1,033,631	4,923	3,101,127	152,638	3,253,765	887,445	97,53
97 Total	1,075,880	1,026,626	1.038.197	4.907	3,145,610	156,239	3,301,849	928,633	102,90
98 Total	1,130,109	1,077,957	1,051,203	4,962	3,264,231	160,866	3,425,097	979,401	103,5
99 Total	1,144,923	1,103,821	1.058.217	5,126	3,312,087	171.629	3,483,716	1,001,996	106,95
00 Total	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	100,3
01 Total	1,201,607	1,190,518	996,609	5,724	3,394,458	162,649	3,557,107	1,083,069	113,17
02 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,5
								1,104,497	100,5
03 Total 04 Total	1,275,824 1,291,982	1,198,728 1,230,425	1,012,373 1,017,850	6,810 7,224	3,493,734	168,295 168,470	3,662,029 3,715,949		
					3,547,479				
05 Total	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984		
06 Total	1,351,520	1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845		
07 Total	1,392,241	1,336,315	1,027,832	8,173	3,764,561	125,670	3,890,231		
08 Total	1,379,981	1,335,981	1,009,300	7,700	3,732,962	132,197	3,865,159		
09 Total	1,364,474	1,307,168	917,442	7,781	3,596,865	126,938	3,723,803		
0 January	147,500	108,120	75,506	715	331,841	E 11,084	342,925		
February	122,840	100,747	74,164	689	298,440	E 10,144	308,585		
March	111,790	101,756	78,303	656	292,505	E 10,884	303,389		
April	88,046	99,791	78,597	600	267,034	E 10,091	277,125		
May	94,843	106,176	82,088	606	283,712	E 10,611	294,323		
June	127,496	119,388	83,347	658	330,889	E 11.037	341,927		
July	154,688	127,925	85,725	667	369,006	E 11,690	380,696		
August	154,053	129,143	87,904	628	371,728	E 12,298	384,026		
September	124,582	119,137	83,353	639	327,711	E 11,221	338,932		
October	96,688	108,461	82,046	615	287,811	E 10,605	298,416		
November	93,166	101,524	79,575	607	274,871	E 10,520	285,392		
December	130.015	108,031	80.264	633	318,943	E 11.725	330,668		
Total	1,445,708	1,330,199	970,873	7,712	3,754,493	131,910	3,886,403		
		, ,	,	,	, ,	,			
1 January February	144,911 120,685	107,884 99,368	79,055 75,223	710 633	332,561 295,909	E 11,301 E 10,037	343,862 305,945		
	105.065	103.507	80.817	655	290.044	E 10,506	300,550		
March April	94.069	100,019	79.099	618	273,805	E 10,506	283,924		
	94,069 97,755	100,019	79,099 80,741	615	273,805 285,951	E 10,119	283,924 296,783		
May	97,755 126,008	106,841	80,741 82,775	637	326,881	E 10,899	337,780		
June		127,139	85,907	645		E 11,630			
July	154,888 153.688			620	368,580		380,209		
August		128,200	87,565		370,073	E 11,570	381,643		
September	122,842	117,403	83,311	630	324,186	E 10,787	334,973		
October	94,576	107,655	82,860	608	285,699	E 10,356	296,055		
November	93,126	99,782	79,561	584	273,053	E 10,639	283,692		
December	116,087	104,030	78,655	649	299,421	E 11,505	310,926		
Total	1,423,700	1,319,288	975,569	7,606	3,726,163	E 130,179	3,856,342		
2 January	126,475	105,076	78,640	669	310,859	E 11,539	322,398		
February	108,145	99,266	77,918	646	285,975	E 10,860	296,835		
March	99,342	101,806	80,694	612	282,453	E 10,619	293,072		
April	88,444	100,733	80,444	596	270,217	E 9,966	280,183		
4-Month Total	422,405	406,882	317,695	2,523	1,149,505	E 42,983	1,192,488		
1 4-Month Total	464,729	410.778	314.194	2,617	1,192,318	^E 41,963	1,234,281		
T T WOULD TOTAL	707,123	710,770	317,137	2,017	1,132,310	E 42,203	.,207,201		

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

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

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

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

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

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

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

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

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

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

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

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

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

Sources: See end of section.

Electricity

Note. Classification of Power Plants Into Energy-

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

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

Table 7.1 Sources

Net Generation, Electric Power Sector

Table 7.2b.

Net Generation, Commercial and Industrial Sectors Table 7.2c.

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

1973–September 1977: Unpublished Federal Power Commission data.

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

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

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

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

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

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

Imports and Exports, Electricity Trade with Canada, 1990 Forward

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

Imports and Exports, Electricity Trade with Mexico, 1990 Forward

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

T&D Losses and Unaccounted for

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

End Use

Table 7.6.

Table 7.2b Sources

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

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

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

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

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

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

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

Table 7.2c Sources

Industrial Sector, Hydroelectric Power, 1973-1988

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

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

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

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

All Data, 1989 Forward

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

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

2001–2003: EIA, Form EIA-906, "Power Plant Report."

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

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

Table 7.3b Sources

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

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

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

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

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

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

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

Table 7.4b Sources

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

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

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

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

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

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

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

Table 7.6 Sources

Retail Sales, Residential and Industrial

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

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

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

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

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

Retail Sales, Commercial

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

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

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

Retail Sales, Transportation

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

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

Direct Use, Annual

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

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

2011: Sum of monthly estimates.

Direct Use, Monthly

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

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

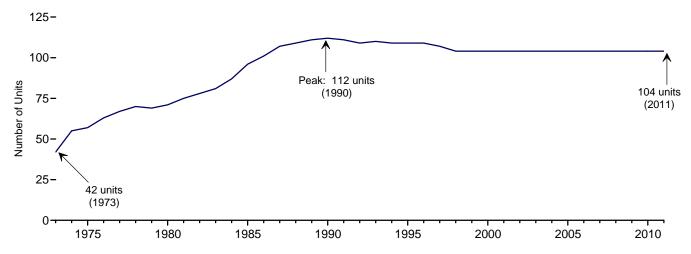
1973–2002: See sources for "Residential" and "Industrial."

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8. Nuclear Energy

Figure 8.1 Nuclear Energy Overview

Operable Units, End of Year, 1973-2011



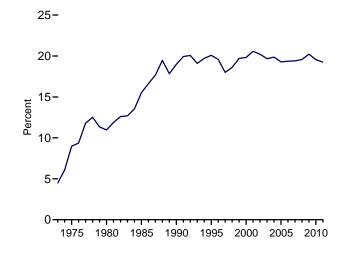
Electricity Net Generation, 1973-2011

5
4
Total

3
Nuclear Electric Power

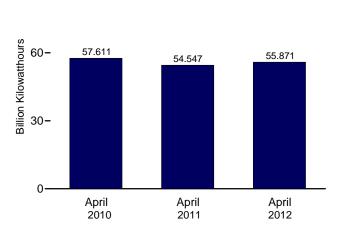
1975 1980 1985 1990 1995 2000 2005 2010

Nuclear Share of Electricity Net Generation, 1973-2011



Nuclear Electricity Net Generation

90-



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

Capacity Factor, Monthly

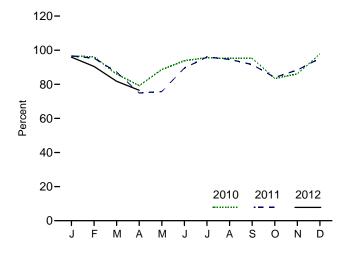


Table 8.1 Nuclear Energy Overview

	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 ^d
	Number	Million Kilowatts	Million Kilowatthours	Pe	rcent
973 Total	42	22.683	83,479	4.5	53.5
975 Total	57	37.267	172,505	9.0	55.9
980 Total	71	51.810	251,116	11.0	56.3
985 Total	96	79.397	383.691	15.5	58.0
	112			19.0	
90 Total		99.624	576,862		66.0
95 Total	109	99.515	673,402	20.1	77.4
96 Total	109	100.784	674,729	19.6	76.2
97 Total	107	99.716	628,644	18.0	71.1
98 Total	104	97.070	673,702	18.6	78.2
99 Total	104	97.411	728,254	19.7	85.3
000 Total	104	97.860	753,893	19.8	88.1
001 Total	104	98.159	768,826	20.6	89.4
002 Total	104	98.657	780,064	20.2	90.3
003 Total	104	99.209	763,733	19.7	87.9
004 Total	104	99.628	788,528	19.9	90.1
005 Total	104	99.988	781,986	19.3	89.3
006 Total	104	100.334	787,219	19.4	89.6
007 Total	104	100.266	806,425	19.4	91.8
008 Total	104	100.755	806,208	19.6	91.1
09 Total	104	101.004	798,855	20.2	90.3
10 January	104	^{e E} 101.002	72,569	20.1	^E 96.6
February	104	E 101.000	65,245	20.4	^E 96.1
March	104	E 100.998	64,635	20.7	E 86.0
April	104	E 100.996	57,611	20.0	E 79.2
May	104	E 101.063	66,658	20.3	E 88.7
June	104	E 101.094	68,301	18.2	E 93.8
July	104	E 101.092	71,913	17.6	^E 95.6
August	104	E 101.090	71.574	17.5	E 95.2
September	104	E 101.088	69,371	20.0	E 95.3
October	104	E 101.104	62.751	20.4	E 83.4
November	104	E 101.129	62,655	20.5	E 86.0
December	104	101.167	73.683	20.3	97.9
Total	104	101.167	806,968	19.6	91.1
11 January	104	E 101.167	72,743	20.0	E 96.6
February	104	E 101.167	64,789	20.7	E 95.3
March	104	E 101.167	65.662	20.6	E 87.2
April	104	E 101.167	54,547	18.0	E 74.9
May	104	E 101.167	57,017	17.6	E 75.8
June	104	E 101.281	65,270	17.7	E 89.5
July	104	E 101.281	72,345	17.2	E 96.0
August	104	E 101.351	71,339	17.6	E 94.6
September	104	E 101.351	66,849	19.8	^E 91.6
October	104	E 101.351	63,354	20.5	E 84.0
November	104	E 101.351	64.474	21.2	E 88.4
December	104	P 101.423	71,837	21.4	P 95.2
Total	104	P 101.423	790,225	19.2	P 89.1
112 January	104	E 101.423	72,382	21.2	E 95.9
February	104	E 101.423	63,850	20.6	E 90.5
March	104	E 101.423	61,730	19.9	E 81.8
April	104	E 101.423	55,871	18.9	E 76.5
4-Month Total	104	E 101.423	253,833	20.2	E 86.2
11 4-Month Total	104	E 101.167	257,741	19.8	^E 88.5
010 4-Month Total	104	^E 100.996	260,061	20.3	^E 89.4

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

At end of period.

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.

P=Preliminary. E=Estimate.

Notes: • For a discussion of nuclear reactor unit coverage, see Note 1, "Operable Nuclear Reactors," at end of section. • Nuclear electricity net generation totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

At end of period.
 For the definition of "Net Summer Capacity," see Note 2, "Nuclear Capacity," at end of section.
 For an explanation of the method of calculating the capacity factor, see Note

^{2, &}quot;Nuclear Capacity," at end of section.

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

Nuclear Energy

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

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

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

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

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

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

Table 8.1 Sources

Total Operable Units and Net Summer Capacity of Operable Units

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

1983 forward: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," Form EIA-860M, "Monthly Update to the Annual Electric Generator Report," and monthly updates as appropriate. For a list of currently operable units, see http://www.eia.gov/nuclear/reactors/stats_table1.html.

Nuclear Electricity Net Generation and **Nuclear Share of Electricity Net Generation**

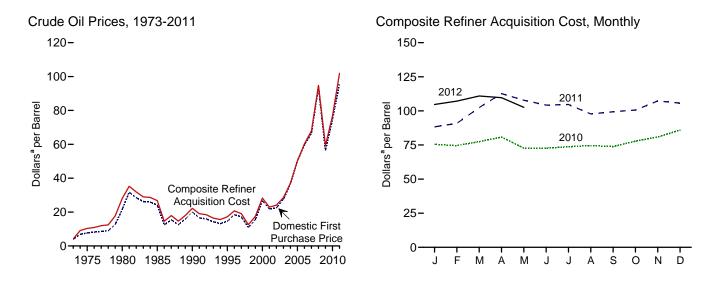
See Table 7.2a.

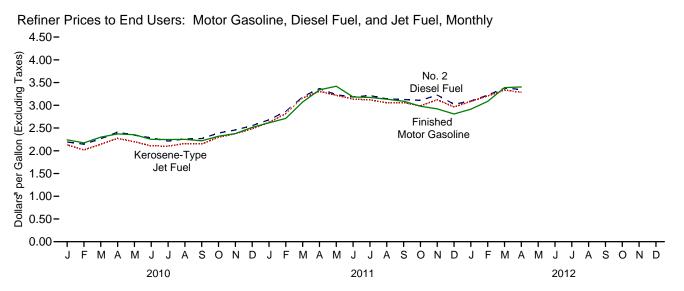
Capacity Factor

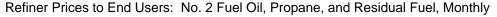
Calculated by EIA using the method described above in Note 2.

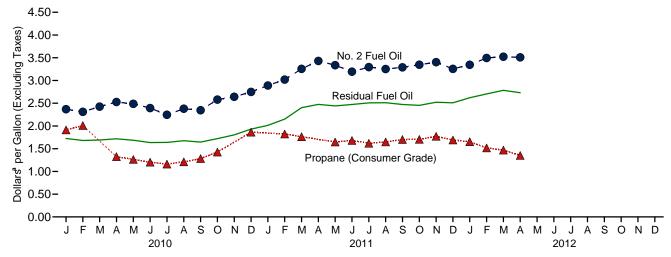
9. Energy Prices

Figure 9.1 Petroleum Prices









^aPrices are not adjusted for inflation. See "Nominal Dollars" in Glossary. Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Dollars^a per Barrel)

				R	efiner Acquisition Co	st ^b
	Domestic First Purchase Price ^c	F.O.B. Cost of Imports ^d	Landed Cost of Imports ^e	Domestic	Imported	Composite
973 Average	3.89	^f 5.21	^f 6.41	^E 4.17	^E 4.08	^E 4.15
975 Average	7.67	11.18	12.70	8.39	13.93	10.38
980 Average	21.59	32.37	33.67	24.23	33.89	28.07
985 Average	24.09	25.84	26.67	26.66	26.99	26.75
990 Average	20.03	20.37	21.13	22.59	21.76	22.22
995 Average	14.62	15.69	16.78	17.33	17.14	17.23
996 Average	18.46	19.32	20.31	20.77	20.64	20.71
997 Average	17.23	16.94	18.11	19.61	18.53	19.04
998 Average	10.87	10.76	11.84	13.18	12.04	12.52
999 Average	15.56	16.47	17.23	17.90	17.26	17.51
000 Average	26.72	26.27	27.53	29.11	27.70	28.26
001 Average	21.84	20.46	21.82	24.33	22.00	22.95
002 Average	22.51	22.63	23.91	24.65	23.71	24.10
003 Average	27.56	25.86	27.69	29.82	27.71	28.53
004 Average	36.77	33.75	36.07	38.97	35.90	36.98
005 Average	50.28	47.60	49.29	52.94	48.86	50.24
006 Average	59.69	57.03	59.11	62.62	59.02	60.24
007 Average	66.52	66.36	67.97	69.65	67.04	67.94
008 Average	94.04	90.32	93.33	98.47	92.77	94.74
009 Average	56.35	57.78	60.23	59.49	59.17	59.29
010 January	72.89	72.96	74.78	76.04	75.07	75.48
February	72.74	71.50	75.01	75.91	73.73	74.58
March	75.77	75.41	77.65	78.52	76.77	77.43
April	78.80	78.27	79.34	82.12	80.03	80.83
May	70.90	69.21	72.00	75.23	71.15	72.66
June	70.77	70.17	72.62	73.93	71.13	72.66
July	71.37	71.01	73.43	74.54	73.25	73.73
August	72.07	71.27	73.63	76.21	73.50	74.58
September	71.23	71.72	74.25	74.87	73.20	73.85
October	76.02	75.52	77.26	78.88	77.02	77.77
November	79.20	79.56	81.56	82.05	80.07	80.85
December	83.98	83.95	86.64	86.48	85.59	85.95
Average	74.71	74.20	76.49	77.96	75.88	76.69
011 January	85.66	86.80	89.61	88.73	87.99	88.28
February	86.69	92.07	94.25	89.50	91.72	90.85
March	99.19	104.19	104.80	102.34	102.48	102.43
April	108.80	111.52	112.54	111.96	113.08	112.65
May	102.46	105.92	108.28	107.55	107.99	107.82
June	97.30	104.35	105.19	102.53	105.36	104.23
July	97.82	105.60	106.19	102.67	105.94	104.68
August	89.00	97.72	99.27	95.89	99.01	97.70
September	90.22	100.84	101.03	96.89	101.05	99.39
October	92.28	101.92	102.55	98.34	102.00	100.57
November	100.18	105.79	105.98	106.69	107.67	107.28
December	98.71	103.79	105.62	104.51	106.52	105.69
Average	95.73	101.68	102.99	100.74	102.70	101.93
012 January	98.99	103.96	105.27	103.97	105.25	104.70
February	102.05	R 108.56	R 109.24	105.93	108.25	104.70
March	105.42	R 111.07	R 110.82	R 110.80	111.00	R 110.92
	R 103.67	R 110.20	R 107.38	R 111.25	R 108.52	R 109.69
April	103.07	110.20	101.30	E 104.24	100.32	109.69

Notes: • Values for Domestic First Purchase Price and Refiner Acquisition Cost for the current two months and for F.O.B. and Landed Costs of Imports for the

available 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.
f Based on October, November, and December data only.</sup>

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

current three months are preliminary. • F.O.B. and landed costs through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are the averages of the monthly prices, weighted by volume. • Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all U.S. Territories and Possessions.

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

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

(Dollarsa per Barrel)

			s	elected Count	ries			Danaian.		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC ^c
1973 Averaged	w	w	_	7.81	3.25	_	5.39	3.68	5.43	4.80
1975 Average	10.97	_	11.44	11.82	10.87	_	11.04	10.88	11.34	10.62
1980 Average	33.45	W	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
1985 Average	26.30	_	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
1990 Average	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
1995 Average	16.58	16.73	15.64	17.40	W	16.94	13.86	W	15.36	16.02
1996 Average	20.71	21.33	19.14	21.27	19.28	19.43	17.73	19.22	18.94	19.65
1997 Average	18.81	18.85	16.72	19.43	15.16	18.59	15.33	15.24	16.26	17.51
1998 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
1999 Average	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
2000 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
2001 Average	23.25	24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
2002 Average	24.09	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	37.26	37.73	31.55	38.71	34.08	37.30	31.78	33.08	33.95	33.58
2005 Average	52.48	51.89	43.00	55.95	47.96	54.48	46.39	47.21	49.60	45.79
2006 Average	62.23	59.77	52.91	65.69	56.09	66.03	55.80	56.02	59.18	55.35
2007 Average	67.80 95.66	67.93 91.17	61.35	76.64 102.06	W 93.03	69.96	64.10 88.06	69.93	69.58	62.69 87.15
2008 Average	95.00 57.07	57.90	84.61 56.47	64.61	93.03 57.87	96.33 65.63	55.58	91.44 59.53	93.15 58.53	57.16
2009 Average	57.07	57.90	50.47	04.01	57.67	65.65	55.56	59.55	36.33	57.16
2010 January	74.62	70.08	72.96	75.91	W	_	70.86	W	73.42	72.49
February	_W	68.70	69.16	76.07	W	_	68.83	71.89	71.77	71.14
March	78.11	73.90	72.76	81.27	W		70.88	76.10	75.83	74.91
April	84.40	74.85	75.57	85.94	W	W	72.59	80.01	78.88	77.73
May	71.86	64.32	68.30	74.28	W	_	66.37	73.60	70.45	68.24
June	72.90	67.19	67.64	75.61	W W	_	66.19	72.49	71.39	69.20
July	74.77 77.11	70.00 69.88	68.53 69.53	79.63 75.70	W	– W	67.25 68.27	71.76 72.79	72.16 72.38	69.87 70.35
August	W	69.71	69.90	80.93	74.06	- v v	67.59	73.34	73.24	70.24
September October	W	76.06	73.93	84.59	74.06 W	_	72.10	78.28	77.55	73.80
November	85.99	78.92	77.14	86.61	W	_	75.03	80.99	80.95	78.49
December	W	81.62	81.75	93.68	W	_	77.78	W	85.72	82.40
Average	78.18	72.56	72.46	80.83	76.44	w	70.30	75.65	75.23	73.24
2011 January	95.97	83.36	84.36	99.86	W	_	81.25	W	89.74	83.92
February	95.97 W	87.23	88.77	109.07	W	_	85.11	97.25	96.01	88.67
March	113.63	101.29	102.55	117.98	w	_	97.56	107.36	106.19	102.44
April	122.52	114.17	109.90	126.05	w	_	106.56	114.82	115.15	107.71
May	113.33	106.15	105.13	117.66	W	_	101.60	110.29	108.50	103.81
June	115.13	102.78	103.43	119.13	W	_	100.59	106.39	108.22	100.42
July	114.80	100.30	104.84	119.68	W	_	100.62	109.06	110.09	100.90
August	W	95.01	98.21	115.61	W	_	97.17	106.98	104.19	93.57
September	112.49	97.45	100.28	115.43	109.99	-	95.72	108.41	105.82	97.08
October	109.74	102.37	101.48	114.46	W	_	96.93	105.62	105.20	98.65
November	112.49	106.97	107.94	115.35	W	_	105.44	106.51	108.16	104.17
December	111.26	103.10	105.96	W	W	_	105.75	104.48	106.42	100.80
Average	111.82	100.19	100.92	115.35	107.08	-	97.23	106.49	105.34	98.51
2012 January	111.10	106.69	107.79	114.12	W	_	105.08	107.51	107.51	101.40
February	121.45	114.47	110.14	124.31	W	_	110.37	111.12	113.85	R 103.42
March	W	118.46	R 114.81	R 128.10	W	-	R 112.76	R 118.06	R 117.06	R 105.29
April	118.98	115.92	110.65	W	W	-	110.19	115.01	113.91	106.53

a 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 costs related to insurance and transportation. See "F.O.B." in Glossary, and Note 3, "Crude Oil F.O.B. Costs," at end of section. • Values for the current two months 3, Crude Oil r-O.B. Costs, at end of section. • Values for the current two months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published details. data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

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

the Neutral Zone (between Kuwait and Saudi Arabia).

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 Cohen (although Cohen years a pemper of OPEC for 2007). 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.

d Based on October, November, and December data only.
R=Revised. – =No data reported. W=Value withheld to avoid disclosure of individual company data.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollarsa per Barrel)

(-5)	iaio poi										
				Selected	Countries				B		
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC ^c
1973 Average ^d	w	5.33	w	_	9.08	5.37	_	5.99	5.91	6.85	5.64
1975 Average	11.81	12.84	=	12.61	12.70	12.50	_	12.36	12.64	12.70	12.70
1980 Average	34.76	30.11	W	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
1985 Average	27.39	25.71	-	25.63	28.96	24.72	28.36	24.43	25.50	26.86	26.53
1990 Average	21.51	20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
1995 Average	17.66	16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
1996 Average	21.86 20.24	19.94 17.63	22.02 19.71	19.64 17.30	21.95 20.64	20.49 17.52	20.88 20.64	18.59 16.35	20.45 17.44	20.14 17.73	20.47 18.45
1997 Average 1998 Average	13.37	11.62	13.26	11.04	14.14	11.16	13.55	10.16	11.18	11.46	12.22
1999 Average	18.37	17.54	18.09	16.12	17.63	17.48	18.26	15.58	17.37	16.94	17.51
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 53.90	53.42	43.47 53.76	57.55	50.31	55.28	47.87 57.37	49.68 58.92	51.36	47.31 57.14
2006 Average 2007 Average	64.85 71.27	60.38	62.13 70.91	62.31	68.26 78.01	59.19 70.78	67.44 72.47	57.37 66.13	69.83	61.21 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 January	77.32	72.59	74.26	73.23	78.58	76.63	77.97	72.63	76.34	75.91	73.59
February	79.06	73.37	73.11	69.48	79.25	77.29	77.84	70.91	77.27	76.24	73.33
March	80.93	76.82	76.08	73.07	83.68	77.57	79.07	72.92	77.55	78.40	76.84
April	82.26	78.36	76.33	75.03	86.80	79.53	80.25	75.21	79.15	80.07	78.61
May	74.80	69.16	66.52	68.71	76.90	77.52	W 77.07	68.53	76.20	73.95	70.20
June	76.54 77.20	69.14 70.25	69.64 71.61	68.02 69.31	78.14 81.07	76.01 75.46	77.67 76.60	68.30 69.59	75.14 74.75	74.55 74.81	70.92 72.03
July August	78.40	70.10	71.49	69.95	79.15	76.06	79.52	70.14	75.81	75.42	71.81
September	80.49	68.66	70.85	70.47	81.58	77.15	W	68.88	76.64	76.39	71.89
October	85.33	69.23	76.72	74.73	86.01	81.81	W	74.29	81.24	80.52	74.15
November	86.98	75.40	80.24	77.55	89.15	84.62	87.10	77.53	84.09	84.38	78.96
December	91.77	80.76	82.76	82.37	95.44	90.45	92.50	80.79	89.99	89.25	83.97
Average	80.63	72.80	74.25	72.86	83.15	79.25	80.12	72.43	78.58	78.27	74.67
2011 January	99.58	81.43	85.88	85.00	101.24	96.59	W	84.70	96.57	94.03	85.02
February	110.07	80.65	90.14	89.08	108.94	103.20	W	89.88	101.81	99.96	89.03
March	114.40 124.01	89.32 99.26	105.74 112.47	103.03 110.55	117.17 126.47	110.12 116.13	118.42 124.67	101.22 107.95	109.56 115.18	109.23 116.64	101.20 108.91
April May	116.76	98.29	109.70	105.62	119.95	112.19	124.67 W	104.04	111.48	111.90	105.06
June	116.73	92.36	104.31	103.02	120.81	110.00	w	102.32	108.97	109.87	100.83
July	117.98	91.76	101.35	105.38	121.80	111.06	W	103.04	110.19	111.58	100.38
August	113.36	84.05	95.08	98.78	115.83	109.38	W	99.54	108.26	106.24	93.81
September	112.63	85.19	99.17	99.90	117.19	109.91	W	99.10	108.82	107.67	95.59
October	114.82	88.21	104.14	101.97	116.09	108.90	W	99.89	108.07	107.98	97.91
November	115.14	93.80	108.52	108.46	117.05	108.61	W	106.90	108.35	110.09	102.90
December Average	115.65 114.05	95.74 90.03	106.64 102.53	106.31 101.22	117.10 116.40	108.27 108.81	W 118.35	108.02 100.14	107.53 108.06	109.63 107.85	102.52 98.75
2012 January	115.13	93.43	110.54	108.38	115.41	110.49	W	106.23	110.61	110.32	101.31
February	R 121.40	R 92.14	115.19	111.24	R 126.42	R 114.73	w	R 111.72	R 114.22	R 115.76	R 103.02
March	R 128.35	R 88.78	R 119.93	R 115.20	R 130.47	R 120.27	-	R 114.28	R 119.31	R 119.42	R 104.17
April	122.98	85.84	115.38	111.71	125.07	118.53	_	111.32	118.26	116.80	100.79
,				•				-			

See "Landed Costs" in Glossary, and Note 4, "Crude Oil Landed

Costs," at end of section. • Values for the current two months are preliminary.
• Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the busined State price is not established at the time the crude oil is acquired for importation. into the United States, are not included in the published data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.

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

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

Sources: • October 1973-September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." • October 1977-December 1977: U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 22.
• 2010 forward: EIA, Petroleum Marketing Monthly, July 2012, Table 22.

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

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

d Based on October, November, and December data only.
R=Revised. — =No data reported. W=Value withheld to avoid disclosure of

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

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

	Leaded	Unleaded	Unleaded	
	Regular	Regular	Premiumb	All Types ^c
973 Average	0.388	NA	NA	NA
975 Average	0.567	NA NA	NA	NA NA
80 Average	1.191	1.245	NA	1.221
85 Average	1.115	1.202	1.340	1.196
90 Average	1.149	1.164	1.349	1.217
95 Average	NA	1.147	1.336	1.205
96 Average	NA	1.231	1.413	1.288
97 Average	NA	1.234	1.416	1.291
98 Average	NA	1.059	1.250	1.115
99 Average	NA	1.165	1.357	1.221
00 Average	NA	1.510	1.693	1,563
	NA NA			
01 Average		1.461	1.657	1.531
02 Average	NA	1.358	1.556	1.441
03 Average	NA	1.591	1.777	1.638
04 Average	NA	1.880	2.068	1.923
05 Average	NA	2.295	2.491	2.338
06 Average	NA	2.589	2.805	2.635
07 Average	NA	2.801	3.033	2.849
	NA NA	3.266	3.519	3.317
08 Average	NA NA		2.607	
09 Average	NA	2.350	2.607	2.401
10 January	NA	2.731	2.987	2.779
February	NA	2.659	2.922	2.709
March	NA	2.780	3.035	2.829
April	NA	2.858	3.113	2.906
May	NA	2.869	3.124	2.915
June	NA	2.736	3.000	2.783
July	NA	2.736	2.997	2.783
August	NA	2.745	3.015	2.795
September	NA	2.704	2.968	2.754
October	NA	2.795	3.055	2.843
November	NA	2.852	3.109	2.899
December	NA	2.985	3.234	3.031
Average	NA	2.788	3.047	2.836
11 January	NA	3.091	3.345	3.139
11 January				
February	NA	3.167	3.424	3.215
March	NA	3.546	3.807	3.594
April	NA	3.816	4.074	3.863
May	NA	3.933	4.192	3.982
June	NA	3.702	3.972	3.753
July	NA	3.654	3.915	3.703
August	NA	3.630	3.893	3.680
September	NA	3.612	3.887	3.664
	NA NA	3.468	3.745	3.521
October				
November	NA	3.423	3.700	3.475
December	NA	3.278	3.553	3.329
Average	NA	3.527	3.792	3.577
12 January	NA	3.399	3.663	3.447
February	NA	3.572	3.840	3.622
	NA NA			
March		3.868	4.138	3.918
April	NA	3.927	4.194	3.976
May	NA	3.792	4.062	3.839
June	NA			

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

Notes: • See Note 5, "Motor Gasoline Prices," at end of section. • In September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. From September 1981 forward, gasohol is included in the average for all types, and unleaded premium is weighted

more heavily. • Geographic coverage for 1973-1977 is 56 urban areas.

Geographic coverage for 1978 forward is 85 urban areas.

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

available data beginning in 1973.

Sources: • Monthly Data: U.S. Department of Labor, Bureau of Labor Statistics, Consumer Prices: Energy. • Annual Data: 1973—Platt's Oil Price Handbook and Oilmanac, 1974, 51st Edition. 1974 forward—calculated by the U.S. Energy Information Administration as the simple averages of monthly data.

b The 1981 average (available in Web file) is based on September through December data only.

^c Also includes types of motor gasoline not shown separately.

NA=Not available.

Table 9.5 Refiner Prices of Residual Fuel Oil

	Sulfur Co	al Fuel Oil ontent Less al to 1 Percent	Sulfur	al Fuel Oil Content an 1 Percent	Average		
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	
978 Average	0.293	0.314	0.245	0.275	0.263	0.298	
980 Average	0.608	0.675	0.479	0.523	0.528	0.607	
985 Average	0.610	0.644	0.560	0.582	0.577	0.610	
990 Average	0.472	0.505	0.372	0.400	0.413	0.444	
95 Average	0.383	0.436	0.338	0.377	0.363	0.392	
96 Average	0.456	0.526	0.389	0.433	0.420	0.455	
97 Average	0.415	0.488	0.366	0.403	0.387	0.423	
98 Average	0.299	0.354	0.269	0.287	0.280	0.305	
99 Average	0.382	0.405	0.329	0.362	0.354	0.374	
000 Average	0.627	0.708	0.512	0.566	0.566	0.602	
01 Average	0.523	0.642	0.428	0.492	0.476	0.531	
	0.546	0.640	0.508	0.544	0.530	0.569	
02 Average	0.546	0.804	0.588	0.651	0.530 0.661	0.569	
03 Average 04 Average	0.728 0.764	0.804	0.588 0.601	0.692	0.681	0.698	
						1.048	
05 Average	1.115	1.168	0.842	0.974	0.971		
006 Average	1.202	1.342	1.085	1.173	1.136	1.218	
007 Average	1.406	1.436	1.314	1.350	1.350	1.374	
08 Average 09 Average	1.918 1.337	2.144 1.413	1.843 1.344	1.889 1.306	1.866 1.342	1.964 1.341	
110 January	1.767	1.852	1.705	1.660	1.721	1.725	
February	1.725	1.862	1.650	1.574	1.666	1.681	
						1.692	
March	1.739 1.827	1.862 1.887	1.700	1.609	1.711	1.718	
April			1.725	1.655	1.748		
May	1.675	1.898	1.675	1.601	1.675	1.686	
June	1.629	1.874	1.604	1.555	1.612	1.636	
July	1.686	1.858	1.604	1.536	1.629	1.639	
August	1.705	1.895	1.625	1.571	1.642	1.676	
September	1.716	1.883	1.612	1.558	1.632	1.645	
October	1.793	1.913	1.688	1.637	1.712	1.721	
November	1.865	2.025	1.741	1.701	1.768	1.804	
December	2.036	2.215	1.814	1.784	1.865	1.931	
Average	1.756	1.920	1.679	1.619	1.697	1.713	
11 January	NA	2.302	1.896	1.870	1.918	2.013	
February	2.100	2.451	2.079	2.019	2.086	2.150	
March	2.344	2.654	2.307	2.245	2.321	2.403	
April	2.555	2.741	2.427	2.370	2.448	2.475	
May	2.463	2.786	2.374	2.325	2.392	2.440	
June	2.467	2.905	2.377	2.312	2.402	2.473	
July	2.547	2.877	2.430	2.362	2.474	2.508	
August	2.394	2.896	2.392	2.342	2.392	2.512	
September	2.368	2.882	2.370	2.318	2.369	2.473	
October	2.512	2.891	2.375	2.276	2.406	2.454	
November	2.566	2.853	2.424	2.368	2.459	2.521	
December	2.473	2.891	2.335	2.348	2.371	2.509	
Average	2.389	2.736	2.316	2.257	2.336	2.401	
12 January	2.591	2.965	2.480	2.452	2.512	2.620	
February	2.739	3.070	2.632	2.556	2.654	2.705	
March	2.921	3.159	2.717	2.601	2.772	2.784	
April	2.805	3.201	2.624	2.596	2.670	2.731	

^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. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note

^{6, &}quot;Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

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

available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 16.
• 2010 forward: EIA, Petroleum Marketing Monthly, July 2012, Table 16.

Table 9.6 Refiner Prices of Petroleum Products for Resale

	Finished Motor Gasoline ^b	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume Grade)
978 Average	0.434	0.537	0.386	0.404	0.369	0.365	0.237
980 Average	0.941	1.128	0.868	0.864	0.803	0.801	0.415
985 Average	0.835	1.130	0.794	0.874	0.776	0.772	0.398
990 Average	0.786	1.063	0.773	0.839	0.697	0.694	0.386
95 Average	0.626	0.975	0.539	0.580	0.511	0.538	0.344
96 Average	0.713	1.055	0.646	0.714	0.639	0.659	0.461
97 Average	0.700	1.065	0.613	0.653	0.590	0.606	0.416
98 Average	0.526	0.912	0.450	0.465	0.422	0.444	0.288
999 Average	0.645	1.007	0.533	0.550	0.493	0.546	0.342
000 Average	0.963	1.330	0.880	0.969	0.886	0.898	0.595
01 Average	0.886	1.256	0.763	0.821	0.756	0.784	0.540
02 Average	0.828	1.146	0.716	0.752	0.694	0.724	0.431
03 Average	1.002	1.288	0.871	0.752	0.881	0.883	0.607
	1.288	1.627	1.208	1,271	1.125	1.187	0.751
004 Average	1.670	2.076	1.723	1.757	1.623	1.737	0.933
005 Average	1.969	2.490	1.961	2.007	1.834	2.012	1.031
006 Average	2.182	2.758	2.171	2.249	2.072	2.203	1.194
007 Average	2.586	3.342	3.020	2.851	2.745	2.994	1.437
008 Average							
009 Average	1.767	2.480	1.719	1.844	1.657	1.713	0.921
10 January	2.097	2.759	2.121	2.282	2.075	2.078	1.332
February	2.033	2.662	1.999	2.216	1.986	2.025	1.324
March	2.197	2.906	2.129	2.219	2.100	2.163	1.179
April	2.265	2.999	2.247	2.281	2.214	2.312	1.144
May	2.152	2.945	2.186	2.110	2.129	2.177	1.098
June	2.113	2.835	2.094	2.103	2.037	2.120	1.049
July	2.113	2.891	2.100	2.046	2.001	2.098	1.012
August	2.095	2.842	2.138	2.125	2.041	2.161	1.084
September	2.088	2.805	2.131	2.163	2.093	2.190	1.151
October	2.198	2.890	2.263	2.384	2.221	2.325	1.253
November	2.243	2.868	2.342	NA	2.308	2.392	1.277
December	2.383	3.024	2.459	2.744	2.435	2.486	1.322
Average	2.165	2.874	2.185	2.299	2.147	2.214	1.212
44 1	0.470	0.404	0.505	0.004	0.505	0.004	4 000
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
12 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
i colualy				3.306	3.211	R 3.308	1.293
March	3.203	4.052	3.296				

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

Notes: Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are shown in Table 9.7; they are sales made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. Values

for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

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

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 4.

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.

Notes: • Sales for resale are those made to purchasers other than ultimate

Table 9.7 Refiner Prices of Petroleum Products to End Users

	Finished Motor Gasoline ^b	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
1978 Average	0.484	0.516	0.387	0.421	0.400	0.377	0.335
980 Average	1.035	1.084	0.868	0.902	0.788	0.818	0.482
985 Average	0.912	1.201	0.796	1.030	0.849	0.789	0.717
990 Average	0.883	1,120	0.766	0.923	0.734	0.725	0.745
995 Average	0.765	1.005	0.540	0.589	0.562	0.560	0.492
996 Average	0.847	1.116	0.651	0.740	0.673	0.681	0.605
997 Average	0.839	1.128	0.613	0.745	0.636	0.642	0.552
998 Average	0.673	0.975	0.452	0.501	0.482	0.494	0.405
999 Average	0.781	1.059	0.543	0.605	0.558	0.584	0.458
000 Average	1.106	1.306	0.899	1.123	0.927	0.935	0.603
001 Average	1.032	1.323	0.775	1.045	0.829	0.842	0.506
002 Average	0.947	1.288	0.721	0.990	0.737	0.762	0.419
003 Average	1.156	1.493	0.872	1,224	0.933	0.944	0.577
004 Average	1.435	1.819	1.207	1.160	1.173	1.243	0.839
005 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
007 Average	2.345	2.849	2.165	2.263	2.241	2.267	1.489
008 Average	2.775	3.273	3.052	3.283	2.986	3.150	1.892
009 Average	1.888	2.442	1.704	2.675	1.962	1.834	1.220
010 January	2.240	2.914	2.129	2.986	2.369	2.192	1.913
February	2.173	2.855	2.018	2.974	2.310	2.144	2.009
March	2.301	3.103	2.144	2.978	2.425	2.265	NA
April	2.370	3.201	2.144	3.040	2.527	2.410	1.326
	2.353		2.199	2.938		2.343	1.264
May	2.353	3.129 2.981	2.105	2.965	2.487 2.393	2.343	1.204
June						2.204	
July	2.247	3.028	2.103	NA 2.772	2.246		1.162
August	2.250	2.967	2.158	2.772	2.379	2.260	1.211
September	2.219	2.893	2.148	2.898	2.346	2.269	1.283
October	2.319	3.000	2.298	3.058	2.580	2.389	1.425
November	2.378	3.095	2.374	3.130	2.641	2.457	NA
December Average	2.514 2.301	3.218 3.028	2.484 2.201	3.276 3.063	2.749 2.462	2.554 2.314	1.863 1.481
044 (0.045	2 202	0.000	2.250	0.000	0.004	NIA
011 January	2.615	3.323	2.623	3.358	2.889	2.681	NA 4 000
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 1.649
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
012 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	R 3.378	1.470
April	3.404	4.313	3.283	3.916	3.509	3.346	1.352

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

individual company data.

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

the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

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

available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 2. • 2010 forward: EIA, Petroleum Marketing Monthly, July 2012, Table 2.

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

R=Revised. NA=Not available. W=Value withheld to avoid disclosure of

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

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
1978 Average	0.486	0.503	0.508	0.488	0.507	0.501	0.501	0.496	0.488
980 Average	0.963	1.004	1.015	0.978	1.011	0.983	0.982	0.979	0.964
985 Average	0.997	1.024	1.077	1.070	1.067	1.080	1.113	1.059	1.023
990 Average	0.989	1.028	1.070	1.084	1.086	1.098	1.125	1.087	1.026
995 Average	0.787	0.779	0.853	0.844	0.874	0.864	0.955	0.888	0.826
996 Average	0.972	0.940	0.969	0.976	0.986	0.986	1.063	1.024	0.953
997 Average	0.942	0.942	0.987	0.960	0.989	0.963	1.065	1.033	0.950
	0.788	0.788	0.873	0.818	0.868	0.831	0.948	0.892	0.814
998 Average	0.766	0.770	0.854	0.836	0.858	0.852	0.969	0.913	0.815
999 Average				1.273	1.259	1.291			
000 Average	1.297	1.281	1.255				1.442	1.404	1.224
2001 Average	1.217	1.256	1.261	1.221	1.236	1.239	1.363	1.314	1.159
002 Average	1.129	1.119	1.172	1.141	1.124	1.118	1.218	1.220	1.064
003 Average	1.314	1.312	1.309	1.386	1.344	1.355	1.436	1.489	1.304
2004 Average	1.511	1.497	1.505	1.559	1.511	1.518	1.627	1.662	1.489
2005 Average	1.986	1.972	1.987	2.064	2.000	2.012	2.105	2.166	1.974
006 Average	2.294	2.283	2.408	2.355	2.360	2.357	2.458	2.467	2.286
2007 Average	2.540	2.535	2.679	2.576	2.602	2.615	2.674	2.664	2.508
2008 Average	3.199	3.207	3.323	3.197	3.210	3.195	3.293	3.267	3.157
009 January	2.506	2.537	2.774	2.356	2.346	2.576	2.543	2.389	2.427
February	2.404	2.426	2.693	2.226	2.209	2.429	2.447	2.288	2.268
March	2.237	2.283	2.545	2.166	2.127	2.362	2.334	2.166	2.202
April	2.250	2.246	2.437	2.192	2.143	2.314	2.338	2.187	2.177
May	2.175	2.151	2.370	2.142	2.169	2.225	2.300	2.187	2.190
June	2.295	2.201	2.376	2.371	2.385	2.413	2.428	2.381	2.211
July	2.268	2.077	2.324	2.312	2.285	2.354	2.291	2.322	2.137
August	2.350	2.243	2.378	2.432	2.454	2.490	2.523	2.454	2.257
September	2.333	2.272	2.403	2.386	2.357	2.349	2.455	2.437	2.196
October	2.391	2.373	2.484	2.470	2.537	2.516	2.574	2.541	2.315
November	2.461	2.484	2.604	2.619	2.685	2.645	2.747	2.710	2.520
December	2.486	2.523	2.640	2.634	2.718	2.665	2.733	2.731	2.536
Average	2.382	2.377	2.593	2.358	2.376	2.487	2.733 2.504	2.404	2.330
Average	2.302	2.311	2.333	2.330	2.370	2.407	2.304	2.404	2.330
2010 January	2.583	2.611	2.753	2.762	2.856	2.764	2.893	2.928	2.692
February	2.536	2.600	2.705	2.729	2.777	2.730	2.845	2.871	2.697
March	2.560	2.632	2.747	2.795	2.800	2.758	2.801	2.929	2.755
April	2.565	2.651	2.771	2.868	2.959	2.815	2.845	2.946	2.752
May	2.511	2.636	2.710	2.811	2.921	2.736	2.781	2.873	2.680
June	2.479	2.574	2.649	2.716	2.829	2.705	2.691	2.747	2.561
July	2.478	2.532	2.614	2.656	2.728	2.653	2.651	2.715	2.519
August	2.469	2.513	2.619	2.651	2.735	2.634	2.668	2.701	2.543
September	2.539	2.543	2.657	2.686	2.745	2.647	2.721	2.754	2.583
October	2.677	2.642	2.784	2.860	2.743	2.822	2.848	2.734	2.759
November	2.774	2.772	2.764	2.969	3.044	2.946	2.969	3.077	2.892
December	2.910	2.904	3.032	3.126	3.197	3.106	3.147	3.278	3.061
Average	2.639	2.680	2.795	2.850	2.927	2.835	2.894	2.973	2.780
011 January	3.071	3.102	3.186	3.313	3.368	3.268	3.281	3.458	3.237
February	3.188	3.269	3.330	3.493	3.536	3.477	3.428	3.624	3.369

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. Notes: • States are grouped in Tables 9.8a–9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section.

Due to budget cuts in 2011, EIA adjusted its data programs. No. 2 distillate fuel oil prices to residences (Tables 9.8a-9.8c) will not be available for March 2011 forward.

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

available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15.
• 2010 and 2011: EIA, Petroleum Marketing Monthly, July 2011, Table 15.

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

								,			
		District									
		of			West						
	Delaware	Columbia	Maryland	Virginia	Virginia	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesota
1978 Average	. 0.478	0.507	0.492	0.491	0.462	0.474	0.479	0.485	0.465	0.447	0.478
1980 Average		1.026	0.979	0.985	0.922	0.919	0.978	0.996	0.958	0.915	0.999
1985 Average		1.143	1.088	1.063	0.980	0.997	1.021	0.991	0.975	0.983	1.019
1990 Average		1.078	1.119	1.106	0.991	0.981	1.009	0.993	0.961	0.942	1.014
1995 Average		1.010	0.936	0.844	0.815	0.808	0.860	0.816	0.785	0.812	0.801
1996 Average		1.178	1.063	0.952	0.960	0.921	0.977	0.912	0.893	0.899	0.909
1997 Average		1.174	1.057	0.948	0.962	0.913	0.942	0.865	0.870	0.933	0.899
1998 Average		1.022	0.902	0.856	0.818	0.767	0.804	0.748	0.735	0.801	0.738
1999 Average		1.011	0.907	0.870	0.789	0.820	0.883	0.793	0.716	0.847	0.774
2000 Average		W	1.351	1.269	1.251	1.220	NA	1.207	1.095	1.171	1.156
2001 Average		1.431	1.342	1.202	1.139	1.160	NA	1.133	1.121	1.180	1.122
2002 Average		W	1.201	1.057	1.054	1.058	1.109	1.025	0.975	1.073	1.051
2003 Average		W	1.455	1.311	1.304	1.284	1.321	1.202	1.198	1.269	1.218
2004 Average		W	1.632	1.462	1.493	1.475	1.539	1.537	1.405	1.465	1.433
2005 Average		W	2.127	2.044	2.043	2.009	2.053	2.017	2.021	1.993	1.987
2006 Average		W	2.398	2.268	2.261	2.244	2.329	2.317	2.312	2.297	2.268
2007 Average		W	2.668	2.407	2.478	2.494	2.588	2.557	2.528	2.571	2.587
2008 Average		W	3.273	3.124	3.221	3.147	3.067	3.105	3.152	3.088	3.065
2009 January	. 2.428	W	2.470	2.225	2.329	2.041	1.991	2.062	2.069	2.004	1.974
February	. 2.310	W	2.407	2.145	2.188	1.888	1.866	1.912	1.869	1.854	1.813
March		W	2.275	1.999	2.042	1.826	1.806	1.822	1.836	1.781	1.735
April		W	2.263	NA	2.035	1.917	1.810	1.922	1.983	1.870	1.890
May	. 2.253	W	2.224	1.824	2.008	1.941	1.807	1.972	NA	1.975	1.872
June	. 2.289	W	2.320	2.037	2.119	2.180	2.095	2.176	2.060	2.200	2.156
July	. 2.253	W	2.307	2.055	2.122	2.103	1.964	2.181	NA	2.166	2.092
August	. 2.340	W	2.397	2.140	2.217	2.279	2.153	2.321	2.147	2.284	2.297
September	. 2.309	W	2.396	2.118	2.253	2.205	2.179	2.318	NA	2.262	2.232
October	. 2.505	W	2.561	2.322	2.397	2.364	2.336	2.391	2.386	2.331	2.301
November	. 2.683	W	2.707	2.408	2.504	2.479	2.485	2.520	2.483	2.421	2.388
December	. 2.724	W	2.763	2.495	2.496	2.493	2.447	2.507	2.427	2.395	2.394
Average		W	2.473	2.193	2.265	2.130	2.096	2.189	2.155	2.105	2.124
2010 January		W	2.861	2.594	2.681	2.572	2.526	2.565	2.526	2.466	2.505
February		W	2.833	2.561	2.714	2.533	2.501	2.510	2.516	2.421	W
March		W	2.894	2.587	2.712	2.585	2.640	2.614	2.660	2.537	2.580
April		W	2.858	NA	2.676	2.566	2.731	2.679	2.777	2.640	2.668
May		W	2.808	2.435	2.583	2.574	2.669	NA	2.783	2.567	2.581
June		W	2.705	2.356	2.501	2.436	2.505	2.482	NA	2.478	2.557
July	. 2.655	W	2.636	2.345	2.499	2.436	2.481	2.510	2.582	2.508	2.466
August		W	2.669	2.351	2.547	2.511	2.508	2.550	W	2.514	2.559
September		W	2.692	2.397	2.577	2.554	2.596	2.607	2.732	2.562	2.596
October	. 2.847	W	2.822	2.567	2.720	2.695	2.734	2.701	NA	2.702	2.719
November		W	2.985	2.754	2.834	2.802	2.830	2.864	2.915	2.788	2.866
December		W	3.195	2.920	3.024	2.923	2.933	2.979	3.030	2.894	2.965
Average	. 2.951	W	2.925	2.621	2.724	2.653	2.657	2.670	2.749	2.610	2.470
2011 January		W	3.377	3.093	3.204	3.039	3.041	3.109	3.098	3.008	3.031
February	. 3.560	W	3.508	3.222	3.365	3.189	3.196	3.246	3.286	3.169	3.184

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. NA=Not available. W=Value withheld to avoid disclosure of individual company

Notes: • States are grouped in Tables 9.8a-9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15.

Due to budget cuts in 2011, EIA adjusted its data programs. No. 2 distillate fuel oil prices to residences (Tables 9.8a-9.8c) will not be available for March 2011 forward.

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

Table 9.8c No. 2 Distillate Prices to Residences: Selected Western States and U.S. Average (Dollars^a per Gallon, Excluding Taxes)

	Idaho	Washington	Oregon	Alaska	U.S. Average
978 Average	0.436	0.486	0.458	0.532	0.490
980 Average	0.916	1.008	0.973	0.978	0.974
	0.972	1.011	0.971	1.083	1.053
985 Average	0.974	1.029	0.970	1.101	1.063
990 Average					
995 Average	0.839	0.962	0.894	0.834	0.867
996 Average	0.933	1.080	0.989	0.909	0.989
997 Average	0.953	1.139	1.031	0.973	0.984
998 Average	0.784	0.978	0.861	0.852	0.852
999 Average	0.762	1.065	0.938	0.966	0.876
000 Average	1.170	1.445	1.368	1.337	1.311
001 Average	1.038	1.336	1.211	1.377	1.250
002 Average	0.919	1.204	1.060	1.087	1.129
003 Average	1.188	1.487	1.303	1.243	1.355
004 Average	1.495	1.749	1.594	1.524	1.548
005 Average	2.123	2.385	2.146	2.061	2.052
006 Average	2.391	2.681	2.411	2.395	2.365
007 Average	2.598	2.909	2.500	2.518	2.592
008 Average	3.078	3.401	3.060	3.485	3.219
009 January	1.879	2.388	1.939	2.160	2.426
February	1.762	2.253	1.819	NA	2.309
March	1.674	2.124	1.727	1.946	2.210
April	1.863	2.414	1.986	2.140	2.211
May	1.878	2.473	2.050	2.256	2.167
June	2.148	2.544	2.278	2.506	2.307
July	2.123	2.335	2.149	2.362	2.219
August	2.158	2.489	2.326	2.554	2.369
September	2.273	2.658	2.357	NA	2.334
October	2.333	2.737	2.469	NA	2.458
November	2.459	2.871	2.551	NA NA	2.608
December	2.354	2.830	2.475	NA NA	2.628
Average	2.048	2.491	2.132	2.503	2.386
010 January	2.392	2.918	2.583	NA	2.763
February	2.412	2.817	2.536	2.790	2.658
March	2.569	2.924	2.664	2.884	2.757
April	2.747	3.105	2.817	2.965	2.787
May	2.675	3.053	2.685	2.958	2.723
June	2.075 NA	2.892	2.653	2.891	2.623
	2.540	2.092 NA	2.053 NA	2.878	2.584
July					
August	2.598	2.757	2.625	2.901	2.597
September	2.676	NA	2.760	2.944	2.641
October	2.853	3.174	2.871	3.041	2.795
November	2.937	3.195	2.935	3.070	2.926
December	2.980	3.242	2.991	3.134	3.089
Average	2.716	3.039	2.776	2.951	2.798
011 January	3.005	3.350	3.079	3.210	3.251
February	3.173	3.537	3.295	3.366	3.409

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

Notes: • States are grouped in Tables 9.8a–9.8c by geographic region of the country. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical

Petroleum Prices," at end of section.

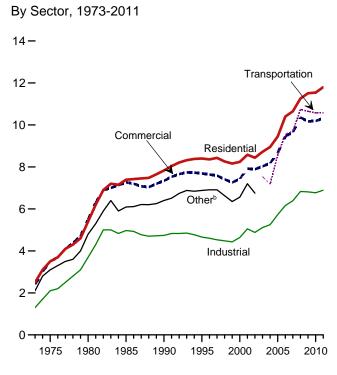
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978.
Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 15.

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

Due to budget cuts in 2011, EIA adjusted its data programs. No. 2 distillate fuel oil prices to residences (Tables 9.8a-9.8c) will not be available for March 2011 forward.

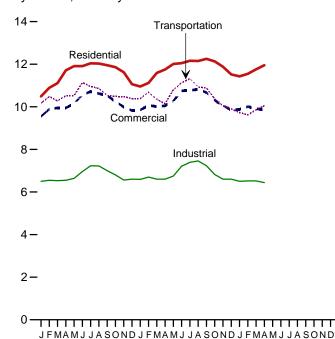
Figure 9.2 Average Retail Prices of Electricity

(Cents^a per Kilowatthour)



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

By Sector, Monthly

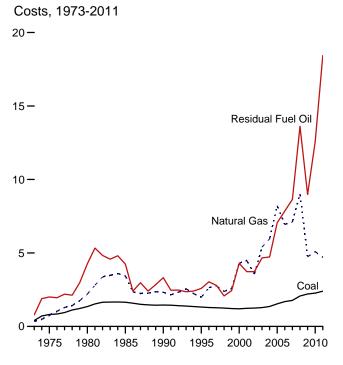


2010 2011 2012

Note: Includes taxes.

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

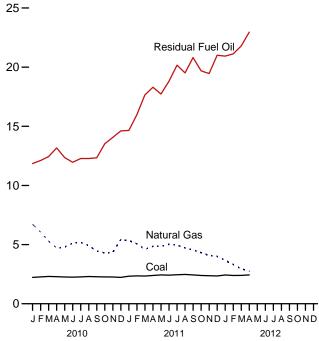
Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants (Dollarsa per Million Btu, Including Taxes)



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

Costs, Monthly

Source: Table 9.9.



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

Table 9.9 Average Retail Prices of Electricity

(Cents^a per Kilowatthour, Including Taxes)

1973 Average 1975 Average 1985 Average 1990 Average 1990 Average 1996 Average 1997 Average 1998 Average 1997 Average 2001 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 Average 2010 January February March April May June July August September October November December Average 2011 January February March April May June July August September October November December Average 2011 January February February March April February August September October November December Average 2011 January February March April February March April February February March April	2.50 3.50 5.40 7.39 7.83 8.40 8.36 8.43 8.26 8.16 8.58 8.44 8.72 8.95 9.45 10.40 10.65 11.51	2.40 3.50 5.50 7.27 7.34 7.69 7.64 7.59 7.41 7.26 7.43 7.92 7.89 8.03 8.17 8.67 9.46 9.65 10.36 10.17	1.30 2.10 3.70 4.97 4.74 4.66 4.60 4.53 4.48 4.43 4.64 5.05 5.11 5.25 5.73 6.16 6.39 6.83 6.81	NA NA NA NA NA NA NA NA NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65	2.10 3.10 4.80 6.09 6.40 6.88 6.91 6.63 6.56 7.20 6.75	2.00 2.90 4.70 6.44 6.57 6.89 6.86 6.85 6.74 6.64 6.81 7.29 7.20 7.44 7.61 8.14 8.90 9.13 9.74 9.82
1975 Average 1980 Average 1980 Average 1995 Average 1995 Average 1996 Average 1997 Average 1998 Average 1998 Average 1999 Average 1999 Average 1999 Average 2001 Average 2002 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 Average 2009 Average 2010 January February March April May June July August September October November December Average 2001 January February August September October November December Average 2011 January February August September October November December Average 2011 January February February January February August September October November December Average	3.50 5.40 7.39 7.83 8.40 8.36 8.43 8.26 8.16 8.24 8.58 8.44 8.72 8.95 9.45 10.40 10.65 11.26 11.51 10.49 10.89 11.11 11.71 11.91	3.50 5.50 7.27 7.34 7.69 7.64 7.59 7.41 7.26 7.43 7.92 7.89 8.03 8.17 8.67 9.46 9.65 10.36 10.17	2.10 3.70 4.97 4.74 4.66 4.60 4.53 4.48 4.43 4.64 5.05 4.88 5.11 5.25 5.73 6.16 6.39 6.83 6.81	NA NA NA NA NA NA NA NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65	3.10 4.80 6.09 6.40 6.88 6.91 6.91 6.63 6.35 6.56 7.20 6.75	2.90 4.70 6.44 6.57 6.89 6.86 6.85 6.74 6.64 6.81 7.29 7.20 7.44 7.61 8.14 8.90 9.13 9.74 9.82
1980 Average 1990 Average 1990 Average 1990 Average 1996 Average 1997 Average 1998 Average 1998 Average 2000 Average 2001 Average 2002 Average 2003 Average 2005 Average 2006 Average 2007 Average 2008 Average 2009 Average 2010 January February March April May June July August September October November December Average 2011 January February February February August September October November December Average 2011 January February February February	5.40 7.39 7.83 8.40 8.36 8.43 8.26 8.16 8.24 8.58 8.44 8.72 8.95 9.45 10.40 10.65 11.51	5.50 7.27 7.34 7.69 7.64 7.69 7.41 7.26 7.43 7.92 7.89 8.03 8.17 8.67 9.46 9.65 10.17	3.70 4.97 4.74 4.66 4.60 4.53 4.48 4.43 4.64 5.05 4.88 5.11 5.25 5.73 6.39 6.39 6.81 6.50 6.55 6.55	NA NA NA NA NA NA NA NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65	4.80 6.09 6.40 6.88 6.91 6.63 6.35 6.56 7.20 6.75	4.70 6.44 6.57 6.89 6.86 6.85 6.74 6.64 6.81 7.29 7.20 7.44 7.61 8.14 8.90 9.13 9.74 9.82
1985 Average 1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2006 Average 2007 Average 2007 Average 2008 Average 2009 Average 2009 Average 2009 Average 2010 January February March April May June July August September October November December Average 2011 January February Average 2011 January February August September October November December Average 2011 January February February February February February February March	7.39 7.83 8.40 8.36 8.43 8.26 8.16 8.24 8.58 8.44 8.72 8.95 9.45 10.40 10.65 11.51 10.49 10.89 11.11 11.71 11.91	7.27 7.34 7.69 7.64 7.59 7.41 7.26 7.43 7.92 7.89 8.03 8.17 8.67 9.46 9.65 10.36 10.17	4.97 4.74 4.66 4.60 4.53 4.48 4.43 4.64 5.05 4.88 5.11 5.25 5.73 6.16 6.39 6.83 6.81	NA NA NA NA NA NA NA NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65	6.09 6.40 6.88 6.91 6.63 6.35 6.56 7.20 6.75	6.44 6.57 6.89 6.86 6.85 6.74 6.64 7.29 7.20 7.44 7.61 8.14 8.90 9.13 9.74 9.82
1990 Average 1995 Average 1996 Average 1996 Average 1997 Average 1998 Average 1999 Average 2001 Average 2002 Average 2004 Average 2005 Average 2006 Average 2007 Average 2010 January February March April May June July August September October November December Average 2011 January February August September October November December Average 2011 January February February	7.83 8.40 8.36 8.43 8.26 8.16 8.24 8.58 8.44 8.72 8.95 9.45 10.40 10.65 11.51 10.49 10.89 11.11 11.71	7.34 7.69 7.64 7.59 7.41 7.26 7.43 7.92 7.89 8.03 8.17 8.67 9.46 9.65 10.36 10.17	4.74 4.66 4.60 4.53 4.48 4.43 4.64 5.05 4.88 5.11 5.25 5.73 6.16 6.39 6.83 6.81 6.50 6.55 6.53 6.55	NA NA NA NA NA NA NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65	6.40 6.88 6.91 6.91 6.63 6.35 6.56 7.20 6.75	6.57 6.89 6.86 6.85 6.74 6.64 6.81 7.29 7.20 7.44 7.61 8.14 8.90 9.13 9.74 9.82
1995 Average 1996 Average 1997 Average 1998 Average 1999 Average 2001 Average 2001 Average 2002 Average 2005 Average 2006 Average 2007 Average 2008 Average 2009 Average 2009 Average 2009 Average 2009 Average 2010 January February March April May June July August September October November December Average 2001 January February March April June July August September October November December Average 2011 January February Average 2011 January February August September October November December Average	8.40 8.36 8.43 8.26 8.16 8.24 8.58 8.44 8.72 8.95 9.45 10.40 10.65 11.51 10.49 10.89 11.11 11.71	7.69 7.64 7.59 7.41 7.26 7.43 7.92 7.89 8.03 8.17 8.67 9.46 9.65 10.36 10.17	4.66 4.60 4.53 4.48 4.43 4.64 5.05 4.88 5.11 5.25 5.73 6.39 6.39 6.83 6.81	NA NA NA NA NA NA NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65	6.88 6.91 6.63 6.63 6.56 7.20 6.75	6.89 6.86 6.85 6.74 6.64 6.81 7.29 7.44 7.61 8.14 8.90 9.13 9.74 9.82
1996 Average 1997 Average 1998 Average 1998 Average 2000 Average 2001 Average 2001 Average 2002 Average 2003 Average 2004 Average 2006 Average 2006 Average 2007 Average 2007 Average 2008 Average 2009 Average 2010 January February March April May June July August September October November December Average 2011 January February August September Average 2011 January February August September October November December Average 2011 January February February February February February February March	8.36 8.43 8.26 8.16 8.24 8.58 8.44 8.72 8.95 9.45 10.40 10.65 11.51 10.49 10.89 11.11 11.71	7.64 7.59 7.41 7.26 7.43 7.92 7.89 8.03 8.17 8.67 9.46 9.65 10.36 10.17 9.55 9.89 9.95 9.95	4.60 4.53 4.48 4.43 4.64 5.05 5.11 5.25 5.73 6.16 6.39 6.83 6.81 6.50 6.55 6.53 6.55	NA NA NA NA NA NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65	6.91 6.91 6.63 6.35 6.56 7.20 6.75 	6.86 6.85 6.74 6.64 6.81 7.29 7.20 7.44 7.61 8.14 8.90 9.13 9.74 9.82
1997 Average 1998 Average 1999 Average 2001 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2010 January February March April May June July August September October November December Average 2011 January February November December Average 2011 January February March	8.43 8.26 8.16 8.24 8.58 8.44 8.72 8.95 9.45 10.40 10.65 11.26 11.51	7.59 7.41 7.26 7.43 7.92 7.89 8.03 8.17 8.67 9.46 9.65 10.36 10.17	4.53 4.48 4.43 4.64 5.05 4.88 5.11 5.25 5.73 6.16 6.39 6.83 6.81 6.50 6.55 6.53 6.55	NA NA NA NA NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65	6.91 6.63 6.35 6.56 7.20 6.75	6.85 6.74 6.64 6.81 7.29 7.20 7.44 7.61 8.14 8.90 9.13 9.74 9.82
1998 Average 2000 Average 2000 Average 2001 Average 2001 Average 2002 Average 2005 Average 2005 Average 2006 Average 2007 Average 2008 Average 2008 Average 2009 Average 2009 Average 2010 January February March April May June July August September October November December Average 2011 January February August September October November December Average 2011 January February Average	8.26 8.16 8.24 8.58 8.44 8.72 8.95 9.45 10.40 10.65 11.51 10.49 10.89 11.11 11.71	7.41 7.26 7.43 7.92 7.89 8.03 8.17 8.67 9.46 9.65 10.36 10.17 9.55 9.89 9.95 10.15	4.48 4.43 4.64 5.05 4.88 5.11 5.25 5.73 6.16 6.39 6.83 6.81 6.50 6.55 6.53 6.55	NA NA NA NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65	6.63 6.35 6.56 7.20 6.75 	6.74 6.64 6.81 7.29 7.20 7.44 7.61 8.14 8.90 9.13 9.74 9.82
1999 Averağe 2001 Average 2001 Average 2001 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2007 Average 2009 Average 2010 January February March April May June July August September October November December Average 2011 January February August September October November December Average 2011 January February February February February February February February February February March	8.16 8.24 8.58 8.44 8.72 8.95 9.45 10.40 10.65 11.26 11.51	7.26 7.43 7.92 7.89 8.03 8.17 8.67 9.46 9.65 10.36 10.17 9.55 9.89 9.95 10.15	4.43 4.64 5.05 4.88 5.11 5.25 5.73 6.16 6.39 6.83 6.81 6.50 6.55 6.53 6.55	NA NA NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65	6.35 6.56 7.20 6.75 	6.64 6.81 7.29 7.20 7.44 7.61 8.14 8.90 9.13 9.74 9.82
2000 Average 2001 Average 2001 Average 2002 Average 2003 Average 2005 Average 2006 Average 2008 Average 2009 Average 2010 January February March April May June July August September October November December Average 2011 January February March April May June July August September October November December Average 2011 January February	8.58 8.44 8.72 8.95 9.45 10.40 10.65 11.51 10.49 10.89 11.11 11.71	7.92 7.89 8.03 8.17 8.67 9.46 9.65 10.17 9.55 9.89 9.95 10.15	5.05 4.88 5.11 5.25 5.73 6.16 6.39 6.83 6.81 6.50 6.55 6.53 6.53	NA NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65	7.20 6.75 	7.29 7.20 7.44 7.61 8.14 8.90 9.13 9.74 9.82 9.28 9.47
2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2008 Average 2009 Average 2010 January February March April May June July August September October November December Average 2011 January February August September October November December Average 2011 January February August September October November December Average 2011 January February March	8.44 8.72 8.95 9.45 10.40 10.65 11.26 11.51 10.49 10.89 11.11 11.71	7.89 8.03 8.17 8.67 9.46 9.65 10.36 10.17 9.55 9.89 9.95 9.95	4.88 5.11 5.25 5.73 6.16 6.39 6.83 6.81 6.50 6.55 6.53 6.55	NA 7.54 7.18 8.57 9.54 9.70 10.74 10.65 10.17 10.48 10.28	6.75 	7.20 7.44 7.61 8.14 8.90 9.13 9.74 9.82
2003 Average 2004 Average 2005 Average 2006 Average 2008 Average 2009 Average 2010 January February March April May June July August September October November December Average 2011 January February September Average 2011 January February February Average 2011 January February March	8.72 8.95 9.45 10.40 10.65 11.26 11.51 10.49 10.89 11.11 11.71	8.03 8.17 8.67 9.46 9.65 10.36 10.17 9.55 9.89 9.95 9.95	5.11 5.25 5.73 6.16 6.39 6.83 6.81 6.50 6.55 6.53 6.55	7.54 7.18 8.57 9.54 9.70 10.74 10.65 10.17 10.48 10.28	=== === === === ===	7.44 7.61 8.14 8.90 9.13 9.74 9.82 9.28 9.47
2004 Average 2005 Average 2006 Average 2007 Average 2008 Average 2009 Average 2010 January February March April May June July August September October November December Average 2011 January February	8.95 9.45 10.40 10.65 11.26 11.51 10.49 10.89 11.11 11.71	8.17 9.46 9.65 10.36 10.17 9.55 9.89 9.95 9.95 10.15	5.25 5.73 6.16 6.39 6.83 6.81 6.50 6.55 6.53 6.55	7.18 8.57 9.54 9.70 10.74 10.65 10.17 10.48 10.28	== == == == ==	7.61 8.14 8.90 9.13 9.74 9.82
2005 Average 2006 Average 2007 Average 2008 Average 2019 Average 2010 January February March April May June July August September October November December Average 2011 January February	9.45 10.40 10.65 11.26 11.51 10.49 10.89 11.11 11.71	8.67 9.46 9.65 10.36 10.17 9.55 9.89 9.95 9.95	5.73 6.16 6.39 6.83 6.81 6.50 6.55 6.53 6.55	8.57 9.54 9.70 10.74 10.65 10.17 10.48 10.28	=== === === ===	8.14 8.90 9.13 9.74 9.82 9.28 9.47
2005 Average 2006 Average 2007 Average 2008 Average 2009 Average 2010 January February March April May June July August September October November December Average 2011 January February	10.40 10.65 11.26 11.51 10.49 10.89 11.11 11.71	9.46 9.65 10.36 10.17 9.55 9.89 9.95 9.95	6.16 6.39 6.83 6.81 6.50 6.55 6.53 6.55	9.54 9.70 10.74 10.65 10.17 10.48 10.28	== == ==	8.90 9.13 9.74 9.82 9.28 9.47
2006 Average 2007 Average 2008 Average 2010 January February March April May June July August September October November December Average 2011 January February March	10.65 11.26 11.51 10.49 10.89 11.11 11.71	9.65 10.36 10.17 9.55 9.89 9.95 9.95 10.15	6.39 6.83 6.81 6.50 6.55 6.53 6.55	9.70 10.74 10.65 10.17 10.48 10.28	===	9.13 9.74 9.82 9.28 9.47
2007 Average 2008 Average 2009 Average 2010 January February March April May June July August September October November December Average 2011 January February March	11.26 11.51 10.49 10.89 11.11 11.71	10.36 10.17 9.55 9.89 9.95 9.95 10.15	6.83 6.81 6.50 6.55 6.53 6.55	10.74 10.65 10.17 10.48 10.28	== == ==	9.74 9.82 9.28 9.47
2010 January February March April May June July August September October November December Average 2011 January February March	11.51 10.49 10.89 11.11 11.71 11.91	10.17 9.55 9.89 9.95 9.95 10.15	6.81 6.50 6.55 6.53 6.55	10.65 10.17 10.48 10.28	 	9.82 9.28 9.47
2010 January February March April May June July August September October November December Average 2011 January February March	10.49 10.89 11.11 11.71 11.91	9.55 9.89 9.95 9.95 10.15	6.50 6.55 6.53 6.55	10.17 10.48 10.28	 	9.28 9.47
February March April May June July August September October November December Average 2011 January February March	10.89 11.11 11.71 11.91	9.89 9.95 9.95 10.15	6.55 6.53 6.55	10.48 10.28		9.47
March Á April May June July August September October November December Average 2011 January February March	11.11 11.71 11.91	9.95 9.95 10.15	6.53 6.55	10.28		
April May June July August September October November December Average 2011 January February March	11.71 11.91	9.95 10.15	6.55			0.48
May June July August September October November December Average 2011 January February March	11.91	10.15				
June July August September October November December Average 2011 January February March				10.52		9.53
July August September October November December Average 2011 January February March			6.64	10.52		9.72
August September October November December Average 2011 January February March	11.91	10.56	6.96	11.14		10.18
September October November December Average 2011 January February March	12.04	10.72	7.23	10.95		10.46
October November December Average 2011 January February March	12.03	10.62	7.22	10.86		10.40
November	11.95	10.52	7.00	10.53		10.17
December	11.86	10.25	6.80	10.49		9.81
Average 2011 January February March	11.62	9.99	6.56	10.47		9.55
2011 January February March	11.06 11.54	9.82 10.19	6.60 6.77	10.39 10.57	 	9.52 9.83
February March						
March	10.95	9.85	6.59	10.39		9.55
	11.12	10.07	6.70	10.69		9.64
April	11.59	10.01	6.60	10.35		9.64
Maria	11.75	10.05	6.60	10.14		9.64
May	12.01	10.27	6.75	10.80		9.87
June	12.05	10.75	7.21	11.12		10.35
July	12.16	10.77	7.39	11.32		10.57
August	12.15	10.82	7.46 7.23	10.93		10.58 10.39
September	12.25	10.67		10.88		9.90
October November	12.13 11.88	10.30 10.06	6.82 6.60	10.37 10.04		9.90 9.67
December	11.88	9.85	6.60	9.90		9.67 9.64
Average	11.80	10.32	6.89	1 0.58	 	9.99
2012 January	11.43	9.88	6.50	9.73		9.65
February	11.55	10.01	6.52	9.73		9.65
March	11.76	9.91	6.52	9.86		9.59
April	11.76	9.86	6.44	10.05		9.59 9.52
4-Month Average	11.65	9.91	6.49	9.81		9.60
2011 4-Month Average		9.99	6.62	10.39		9.62
2010 4-Month Average	11.30		6.53	10.36		9.43

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

and railways.

NA=Not available. ——=Not applicable.

Notes: • Beginning in 2003, the category "Other" has been replaced by "Transportation," and the categories "Commercial" and "Industrial" have been redefined. • Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of energy service provider billing and accounting procedures. That lack of correspondence could result in uncharacteristic increases or decreases in the monthly prices. • Prices include State and local taxes, energy or demand charges, customer service charges, environmental surcharges, franchise fees, fuel adjustments, and other

miscellaneous charges applied to end-use customers during normal billing operations. Prices do not include deferred charges, credits, or other adjustments, such as fuel or revenue from purchased power, from previous reporting periods.

• See Note 7, "Electricity Retail Prices," at end of section for plant coverage, and for information on preliminary and final values.

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

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

available data beginning in 1973.

Sources: • 1973-September 1977: Federal Power Commission, Form FPC-5,

"Monthly Statement of Electric Operating Revenues and Income." • October
1977-February 1980: Federal Energy Regulatory Commission (FERC), Form
FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • March
1980-1982: FERC, Form FERC-5, "Electric Utility Company Monthly Statement."
• 1983: U.S. Energy Information Administration (EIA), Form EIA-826, "Electric
Utility Company Monthly Statement." • 1984-1997: EIA, Form EIA-861, "Annual
Electric Utility Report." • 1998 forward: EIA, Electric Power Monthly, June 2012,
Table 5.3

Table 5.3.

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

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

(Dollarsa per Million Btu, Including Taxes)

			Petrole	um			
	Coal	Residual Fuel Oilb	Distillate Fuel Oil ^c	Petroleum Coke	Total ^d	Natural Gas ^e	All Fossil Fuels ^f
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
1996 Average	1.29	3.03	4.87	.78	3.03	2.64	1.52
1997 Average	1.27	2.79	4.49	.91	2.73	2.76	1.52
1998 Average	1.25	2.08	3.30	.71	2.02	2.38	1.44
1999 Average	1.22	2.44	4.03	.65	2.36	2.57	1.44
2000 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74
2001 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73
2002 Average ^g	1.25	3.73	5.34	.78	3.34	3.56	1.86
2003 Average	1.28	4.66	6.82	.72	4.33	5.39	2.28
2004 Average	1.36	4.73	8.02	.83	4.29	5.96	2.48
2005 Average	1.54	7.06	11.72	1.11	6.44	8.21	3.25
2006 Average	1.69	7.85	13.28	1.33	6.23	6.94	3.02
2007 Average	1.77	8.64	14.85	1.51	7.17	7.11	3.23
2008 Average	2.07	13.62	21.46	2.11	10.87	9.01	4.12
2009 Average	2.21	8.98	13.22	1.61	7.02	4.74	3.04
2010 January	2.23	11.85	15.73	1.72	9.72	6.71	3.74
February	2.27	12.11	15.69	1.80	9.51	6.07	3.45
March	2.31	12.44	16.42	2.09	8.95	5.29	3.16
April	2.29	13.17	17.10	2.18	7.95	4.71	3.01
May	2.26	12.36	16.54	2.22	9.47	4.79	3.12
June	2.25	11.96	16.12	2.15	9.26	5.12	3.34
July	2.27	12.28	15.89	2.42	9.63	5.18	3.51
August	2.30	12.28	16.24	2.65	9.18	4.92	3.39
September	2.28	12.34	16.53	2.67	9.35	4.45	3.10
October	2.27	13.53	17.14	2.43	9.13	4.30	2.94
November	2.26	14.06	17.43	2.22	10.86	4.35	2.94
December	2.23	14.61	18.56	2.57	11.29	5.43	3.32
Average	2.27	12.57	16.61	2.28	9.54	5.09	3.26
2011 January	2.33	14.65	19.48	2.92	11.71	5.35	3.36
February	2.36	15.98	20.93	2.67	12.08	5.06	3.26
March	2.34	17.65	22.60	2.94	13.71	4.61	3.12
April	2.39	18.30	24.06	2.99	13.73	4.85	3.29
May	2.44	17.73	23.17	3.22	13.70	4.85	3.38
June	2.42	18.81	22.89	2.57	13.82	5.03	3.49
July	2.45	20.17	22.96	3.14	12.22	4.96	3.61
August	2.48 2.44	19.51 20.81	22.48 22.67	2.95 2.79	11.68	4.72 4.54	3.44 3.26
September	2.44	19.69	22.67	2.79	12.17 13.68	4.54 4.32	3.26
October	2.39		23.04	2.80 2.18		4.32 4.08	3.12
November December	2.37	19.46 21.01	23.33 22.31	2.18	13.27 12.76	4.08	3.03
Average	2.35 2.40	18.43	22.41	2.29 2.80	12.76 12.88	4.00 4.71	3.29
2012 January	2.43	20.93	22.96	2.26	13.28	3.67	2.97
February	2.39	21.12	23.82	2.01	13.32	3.32	2.83
March	2.40	21.79	24.91	1.86	12.83	2.96	2.72
April	2.44	22.96	24.72	2.09	13.43	2.74	2.66
4-Month Average	2.42	21.60	23.95	2.06	13.21	3.16	2.80
2011 4-Month Average 2010 4-Month Average	2.35 2.28	16.62 12.23	21.54 16.06	2.89 1.95	12.77 9.15	4.98 5.74	3.26 3.34

Gas."

9 Through 2001, data are for electric utilities only. Beginning in 2002, data also include independent power producers, and electric generating plants in the commercial and industrial sectors. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage.

NA=Not available.

Notes: • Receipts are purchases of fuel.

Notes: • Receipts are purchases of fuel.

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

• Geographic coverage is the 50

States and the District of Columbia.

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

Sources: See end of section.

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b For 1973–2001, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).
 ^c For 1973–2001, electric utility data are for light oil (fuel oil nos. 1 and 2).
 ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil. For 1973–1982, data do not include refined motor oil, bunker oil, and liquefied petroleum gases. For 1973–1989, data do not include petroleum coke.

petroleum coke.

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

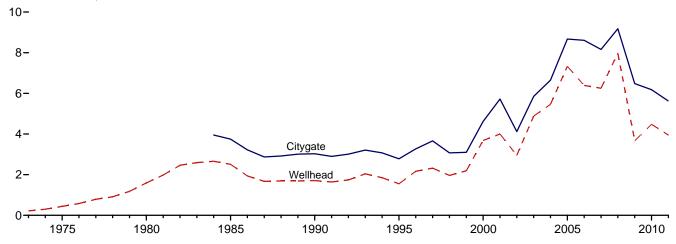
derived from fossil fuels.

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

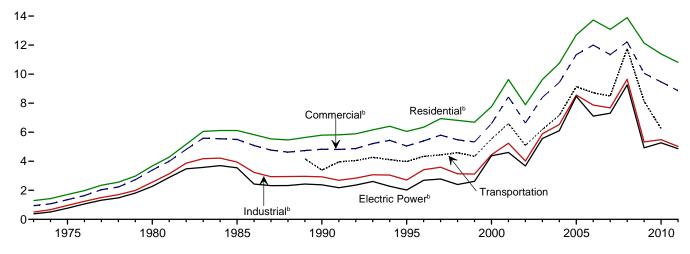
Figure 9.4 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)

Selected Prices, 1973-2011

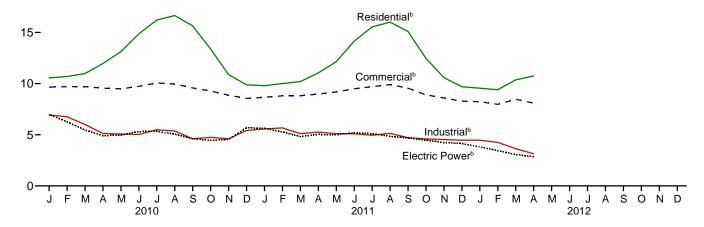


Consuming Sectors, 1973-2011



Consuming Sectors, Monthly





 $^{\rm a}\textsc{Prices}$ are not adjusted for inflation. See "Nominal Dollars" in Glossary. $^{\rm b}\textsc{Includes}$ taxes.

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

Table 9.11 Natural Gas Prices

(Dollarsa per Thousand Cubic Feet)

				Consuming Sectors ^b								
		City	Res	idential	Com	nmercial ^c	Ind	ustriald	Transportation	Electi	ric Power ^e	
	Wellhead Price	City- gate Price	Price ^f	Percentage of Sector ^g	Price ^f	Percentage of Sector ^g	Price ^f	Percentage of Sector ^g	Vehicle Fuel ^h Price ^f	Price ^f	Percentage of Sector ^{g,i}	
1973 Average	0.22	NA	1.29	NA	0.94	NA	0.50	NA	NA	0.38	92.1	
1975 Average		NA	1.71	NA	1.35	NA	.96	NA	NA	.77	96.1	
1980 Average 1985 Average		NA 3.75	3.68 6.12	NA NA	3.39 5.50	NA NA	2.56 3.95	NA 68.8	NA NA	2.27 3.55	96.9 94.0	
1990 Average	1.71	3.03	5.80	99.2	4.83	86.6	2.93	35.2	3.39	2.38	76.8	
1995 Average		2.78	6.06	99.0	5.05	76.7	2.71	24.5	3.98	2.02	71.4	
1996 Average	2.17	3.27	6.34	99.0	5.40	77.6	3.42	19.4	4.34	2.69	68.4	
1997 Average		3.66	6.94	98.8	5.80	70.8	3.59	18.1	4.44	2.78	68.0	
1998 Average 1999 Average	1.96 2.19	3.07 3.10	6.82 6.69	97.7 95.2	5.48 5.33	67.0 66.1	3.14 3.12	16.1 18.8	4.59 4.34	2.40 2.62	63.7 58.3	
2000 Average		4.62	7.76	92.6	6.59	63.9	4.45	19.8	5.54	4.38	50.5	
2001 Average		5.72	9.63	92.4	8.43	66.0	5.24	20.8	6.60	4.61	40.2	
2002 Average	2.95	4.12	7.89	97.9	6.63	77.4	4.02	22.7	5.10	e3.68	83.9	
2003 Average		5.85	9.63	97.5	8.40	78.2	5.89	22.1	6.19	5.57	91.2	
2004 Average		6.65 8.67	10.75 12.70	97.7 98.1	9.43 11.34	78.0 82.1	6.53 8.56	23.6 24.0	7.16 9.14	6.11 8.47	89.8 91.3	
2005 Average 2006 Average		8.61	13.73	98.1	12.00	80.8	7.87	23.4	9.14 8.72	7.11	93.4	
2007 Average		8.16	13.08	98.0	11.34	80.4	7.68	22.2	8.50	7.31	92.2	
2008 Average	7.97	9.18	13.89	97.5	12.23	79.9	9.65	20.5	11.75	9.26	101.1	
2009 Average	3.67	6.48	12.14	97.4	10.06	77.8	5.33	18.8	8.13	4.93	101.1	
2010 January	5.69	6.84	10.56	97.4	9.65	81.2	6.93	19.0	NA	6.98	101.0	
February		6.64	10.69	97.8	9.71	81.8	6.76	18.6	NA	6.27	100.5	
March	4.70	6.50	10.98	97.6	9.70	79.7	6.01	18.4	NA	5.47	101.0	
April		5.88	11.97	96.2	9.55	75.7	5.12	17.7	NA	4.91	100.9	
May		5.81 6.02	13.12 14.86	97.1	9.49	73.0	5.07	17.9	NA NA	4.96	100.9	
June July		6.02	16.21	96.9 96.8	9.73 10.07	71.9 70.6	5.03 5.49	18.0 18.3	NA NA	5.31 5.34	100.6 100.6	
August		6.22	16.65	96.4	9.96	69.8	5.37	17.8	NA	5.06	100.5	
September		5.72	15.64	96.7	9.57	68.5	4.61	17.5	NA	4.61	100.7	
October	4.05	5.70	13.37	96.8	9.28	71.8	4.74	16.8	NA	4.45	101.3	
November		5.48	10.88	97.4	8.86	77.7	4.60	17.6	NA	4.55	101.0	
December Average		5.74 6.18	9.88 11.39	97.4 97.4	8.56 9.47	80.2 77.5	5.42 5.49	17.8 18.0	NA 6.25	5.68 5.27	101.3 100.8	
Average		0.10	11.55	37.4	3.41	77.5	3.43		0.23	3.21	100.0	
2011 January		5.68	9.79	96.1	8.66	68.4	5.56	R 16.4	NA	5.63	101.5	
February		5.75	10.00 R 10.20	96.1	8.81	67.7	5.67	^R 16.2 ^R 16.3	NA NA	5.28	102.1	
March April		5.68 R 5.62	R 11.04	95.8 95.5	8.81 ^R 8.98	64.9 ^R 61.6	5.11 5.26	R 15.7	NA NA	4.82 5.03	101.2 101.8	
May		5.78	R 12.14	95.8	R 9.18	R 58.4	5.10	R 16.3	NA	5.01	101.1	
June	E 4.20	6.08	R 14.15	95.9	R 9.49	56.5	5.09	^R 15.7	NA	5.19	101.2	
July		6.14	R 15.54	95.9	R 9.70	54.9	4.95	R 16.7	NA	5.11	100.2	
August		6.19	^R 16.01 ^R 15.09	95.2	^R 9.90 ^R 9.55	R 52.8	5.13	R 15.9	NA	4.84	100.9	
September October		^R 5.93 5.43	R 12.46	95.1 95.1	R 8.89	51.9 52.7	4.72 4.59	15.7 15.6	NA NA	4.69 4.47	101.5 101.6	
November	E 3.35	5.25	10.58	94.6	8.60	61.2	4.53	15.9	NA	4.24	101.2	
December	E 3.14	5.03	9.69	95.9	8.28	64.7	4.47	16.5	NA	4.15	101.4	
Average		5.62	R 10.81	95.7	8.86	62.3	5.02	R 16.1	NA	4.87	101.2	
2012 January	E 2.89	4.86	9.55	95.7	8.23	65.1	4.47	15.5	NA	3.81	100.6	
February	E 2.46	4.75	9.40	95.6	7.97	63.4	4.25	15.6	NA	3.45	100.5	
March	E 2.25	4.84	10.36	95.6	8.46	60.8	3.64	15.7	NA	3.07	100.2	
April		4.21	10.75	94.8	8.10	56.3	3.14	15.1	NA NA	2.85	100.9	
4-Month Average	^E 2.37	4.73	9.83	95.5	8.18	62.2	3.90	15.5	NA	3.28	100.6	
2011 4-Month Average		5.69	10.12	95.9	8.79	66.3	5.40	16.2	NA	5.20	101.6	
2010 4-Month Average	4.95	6.59	10.86	97.4	9.67	80.2	6.26	18.5	NA	5.95	100.8	

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
b See Note 9, "Natural Gas Prices," at end of section.
c Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
d Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
e The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) plants within the NAICS 20 sectors and combined-heat-and-power (CHP) within the NAICS 20 sectors and combined-heat-and-power (CHP) within the NAICS 20 sectors and combined-heat-and-power (CHP) within the NAICS 20 sectors and combined-heat-and-power (C

^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. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage. Includes taxes.

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

^h Much of the natural gas delivered for vehicle fuel represents deliveries to fueling stations that are used primarily or exclusively by fleet vehicles. Thus, the prices are often those associated with the cost of gas in the operation of fleet

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

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

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

Notes: • Prices are for natural gas, plus a small amount of supplemental gaseous fuels. • Prices are intended to include all taxes. See Note 9, "Natural Gas Prices," at end of section. • Wellhead annual and year-to-date prices are simple averages of the monthly prices; all other annual and year-to-date prices are volume-weighted averages of the monthly prices. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

Energy Prices

Note 1. Crude Oil Domestic First Purchase Prices. The average domestic first purchase price represents the average price at which all domestic crude oil is purchased. Prior to February 1976, the price represented an estimate of the average of posted prices; beginning with February 1976, the price represents an average of actual first purchase prices. The data series was previously called "Actual Domestic Wellhead Price."

Note 2. Crude Oil F.O.B. Costs. F.O.B. literally means "Free on Board." It denotes a transaction whereby the seller makes the product available with an agreement on a given port at a given price; it is the responsibility of the buyer to arrange for the transportation and insurance.

Note 3. Crude Oil Landed Costs. The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to April 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries that export only small amounts to the United States were also excluded. Beginning in April 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.

Note 4. Crude Oil Refinery Acquisition Costs. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on U.S. Energy Information Administration (EIA) Form EIA-14, "Refiners' Monthly Cost Report." Those costs were previously published from data collected on Economic Regulatory Administration (ERA) Form ERA-49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report." Form ERA-49 was discontinued with the decontrol of crude oil on January 28, 1981. Crude oil purchases and costs are defined for Form EIA-14 in accordance with conventions used for Form ERA-49. The respondents for the two forms are also essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken when comparing the data collected on the two forms.

The refiner acquisition cost of crude oil is the average price paid by refiners for crude oil booked into their refineries in accordance with accounting procedures generally accepted and consistently and historically applied by the refiners concerned. Domestic crude oil is that oil produced in the United States or from the outer continental shelf as defined in 43 USC Section 1331. Imported crude oil is either that oil reported on Form ERA-51, "Transfer Pricing Report," or any crude oil that is not domestic oil. The composite cost is the weighted average of domestic and imported crude oil costs.

Crude oil costs and volumes reported on Form ERA-49 excluded unfinished oils but included the Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported

on Federal Energy Administration (FEA) Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report," included unfinished oils but excluded SPR. Imported averages derived from Form ERA-49 exclude oil purchased for SPR, whereas the composite averages derived from Form ERA-49 include SPR. None of the prices derived from Form EIA-14 include either unfinished oils or SPR.

Note 5. Motor Gasoline Prices. Several different series of motor gasoline prices are published in this section. U.S. city average retail prices of motor gasoline are calculated monthly by the Bureau of Labor Statistics during the development of the Consumer Price Index (CPI). These prices include all Federal, State, and local taxes paid at the time of sale. From 1974–1977, prices were collected in 56 urban areas. From 1978 forward, prices are collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-serve).

Refiner prices of finished motor gasoline for resale and to end users are determined by the EIA in a monthly survey of refiners and gas plant operators (Form EIA-782A). The prices do not include any Federal, State, or local taxes paid at the time of sale. Estimates of prices prior to January 1983 are based on Form FEA-P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices," and also exclude all Federal, State, or local taxes paid at the time of sale. Sales for resale are those made to purchasers who are other-than-ultimate consumers. Sales to end users are sales made directly to the consumer of the product, including bulk consumers (such as agriculture, industry, and utilities) and residential and commercial consumers.

Note 6. Historical Petroleum Prices. Starting in January 1983, Form EIA-782, "Monthly Petroleum Product Sales Report," replaced 10 previous surveys. Every attempt was made to continue the most important price series. However, prices published through December 1982 and those published since January 1983 do not necessarily form continuous data series due to changes in survey forms, definitions, instructions, populations, samples, processing systems, and statistical procedures. To provide historical data, continuous series were generated for annual data 1978-1982 and for monthly data 1981 and 1982 by estimating the prices that would have been published had Form EIA-782 survey and system been in operation at that time. This form of estimation was performed after detailed adjustment was made for product and sales type matching and for discontinuity due to other factors. An important difference between the previous and present prices is the distinction between wholesale and resale and between retail and end user. The resale category continues to include sales among resellers. However, sales to bulk consumers, such as utility, industrial, and commercial accounts previously included in the wholesale category, are now counted as made to end users. The end-user category continues to include retail sales through company-owned and operated outlets but also includes sales to the bulk consumers such as agriculture, industry, and electric utilities. Additional information may be found in "Estimated Historic Time Series for the EIA-782," a feature article by Paula Weir, printed in the December 1983 [3] *Petroleum Marketing Monthly*, published by EIA.

Note 7. Electricity Retail Prices. Average annual retail prices of electricity have the following plant coverage: Through 1979, annual data are for Classes A and B privately owned electric utilities only. For 1980–1982, annual data are for selected Class A utilities whose electric operating revenues were \$100 million or more during the previous year. For 1983, annual data are for a selected sample of electric utilities. Beginning in 1984, data are for a census of electric utilities. Beginning in 1996, annual data also include energy service providers selling to retail customers.

Average monthly retail prices of electricity have the following plant coverage: Through 1985, monthly data are derived from selected privately owned electric utilities and, therefore, are not national averages. Beginning in 1986, monthly data are based on a sample of publicly and privately owned electric utilities. Beginning in 1996, monthly data also include energy service providers selling to retail customers.

Preliminary monthly data are from Form EIA-826, "Monthly Electric Sales and Revenue Report With State Distributions Report," which is a monthly collection of data from approximately 450 of the largest publicly and privately owned electric utilities as well as a census of energy service providers with retail sales in deregulated States; a model is then applied to the collected data to estimate for the entire universe of U.S. electric utilities. Preliminary annual data are the sum of the monthly revenues divided by the sum of the monthly sales. When final annual data become available each year from Form EIA-861, "Annual Electric Power Industry Report," their ratios to the preliminary Form EIA-826 values are used to derive adjusted final monthly values.

Note 8. Costs of Fossil-Fuel Receipts at Electric Generating Plants. Data for 1973–1982 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 25 megawatts or greater. From 1974–1982, peaking units were included in the data and counted towards the 25-megawatt-or-greater total. Data for 1983–1990 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 50 megawatts or greater. Data for 1991–2001 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units and combined-cycle units together totaled 50

megawatts or greater. Data for 2002 forward cover the aforementioned regulated generating plants plus unregulated generating plants (independent power producers, as well as combined-heat-and-power generating plants and electricity-only plants in the commercial and industrial sector) whose total facility fossil-fueled nameplate generating capacity is 50 or more megawatts, regardless of unit type.

Note 9. Natural Gas Prices. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all Federal, State, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on more than 3,000 consumers' bills are sometimes excluded by the reporting utilities. Deliveredto-consumers prices for 1987 forward represent natural gas delivered and sold to residential, commercial, industrial, vehicle fuel, and electric power consumers. They do not include the price of natural gas delivered on behalf of third parties to residential, commercial, industrial, and vehicle fuel customers except for certain States in the residential and commercial sectors for 2002 forward. Volumes of natural gas delivered on behalf of third parties are included in the consumption data shown in Table 4.3. Additional information is available in the EIA *Natural Gas Monthly*, Appendix C.

Table 9.1 Sources

Domestic First Purchase Price

1973–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

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

2010 forward: EIA, *Petroleum Marketing Monthly*, July 2012, Table 1.

F.O.B. and Landed Cost of Imports

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

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

1978–2009: EIA, *Petroleum Marketing Annual 2009*, Table 1.

2010 forward: EIA, *Petroleum Marketing Monthly*, July 2012, Table 1.

Refiner Acquisition Cost

1973: EIA estimates. The domestic price was derived by adding estimated transportation costs to the reported domestic first purchase price. The imported price was derived by adding an estimated ocean transport cost to the average "Free Alongside Ship" value published by the U.S. Bureau of the Census.

1974–1976: DOI, BOM, *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

1977: January–September, FEA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report." October–December, EIA, based on Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report."

1978–2009: EIA, *Petroleum Marketing Annual 2009*, Table 1.

2010 forward: EIA, *Petroleum Marketing Monthly*, July 2012, Table 1.

Table 9.2 Sources

October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." October 1977–December 1977: U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report."

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

2010 forward: EIA, *Petroleum Marketing Monthly*, July 2012. Table 21.

Table 9.10 Sources

1973–September 1977: Federal Power Commission, Form FPC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

October 1977–December 1977: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1978 and 1979: U.S. Energy Information Administration (EIA), Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1980–1989: EIA, Electric Power Monthly, May issues.

1990–2000: EIA, *Electric Power Monthly*, March 2003, Table 26.

2001–2007: EIA, *Electric Power Monthly*, October 2008, Table 4.1; Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants"; and EIA, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report."

2008 forward: EIA, *Electric Power Monthly*, June 2012, Table 4.1; and Form EIA-923, "Power Plant Operations Report."

Table 9.11 Sources

All Prices Except Vehicle Fuel and Electric Power

1973–2006: U.S. Energy Information Administration (EIA), *Natural Gas Annual (NGA)*, annual reports and unpublished revisions.

2007 forward: EIA, *Natural Gas Monthly (NGM)*, June 2012, Table 3.

Vehicle Fuel Price

EIA, NGA, annual reports.

Electric Power Sector Price

1973-1998: EIA, NGA 2000, Table 96.

1999-2002: EIA, NGM, October 2004, Table 4.

2003–2007: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants," and EIA, Form EIA-423 "Monthly Cost and Quality of Fuels for Electric Plants Report."

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

Percentage of Residential Sector

1989–2009: EIA, Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

2010 forward: Estimated by EIA as the average of the three previous annual values.

Percentage of Commercial Sector

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

2007 forward: EIA, NGM, June 2012, Table 3.

Percentage of Industrial Sector

1982–2006: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to industrial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to industrial consumers.

2007 forward: EIA, NGM, June 2012, Table 3.

Percentage of Electric Power Sector

1973–2001: Calculated by EIA as the quantity of natural gas receipts by electric utilities reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants" (and predecessor forms) divided by the quantity of natural gas consumed by the electric power sector (for 1973-1988, see *Monthly Energy Review*, Table 7.3b; for 1989-2001, see *Monthly Energy Review*, Table 7.4b).

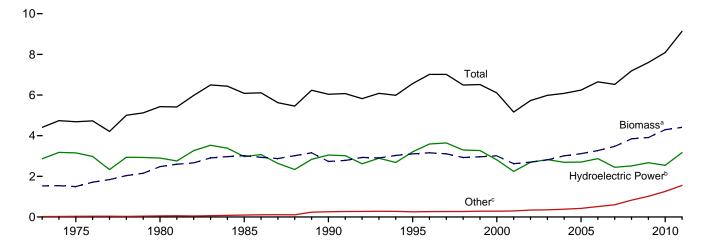
2002–2007: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report,"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

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

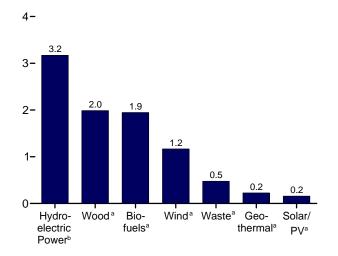
10. Renewable Energy

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

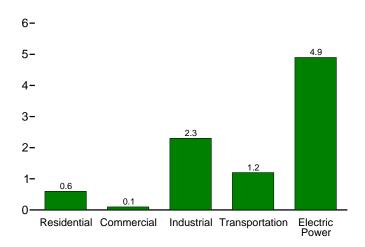
Total and Major Sources, 1973-2011



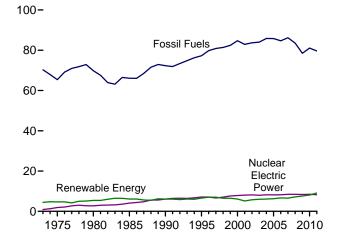
By Source, 2011



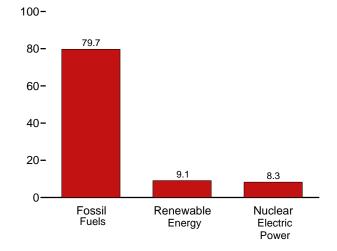
By Sector, 2011



Compared With Other Resources, 1973-2011



Compared With Other Resources, 2011



^a See Table 10.1 for definition.

^b Conventional hydroelectric power.

^c Geothermal, solar/PV, and wind.

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

Table 10.1 Renewable Energy Production and Consumption by Source

(Trillion Btu)

		Production	a					Consumpti	on			
	Bion	nass	Total Renew-	Hvdro-					Bion	nass		Total Renew-
	Bio- fuels ^b	Total ^c	able Energy ^d	electric Power ^e	Geo- thermal ^f	Solar/ PV ⁹	Wind ^h	Wood ⁱ	Waste ^j	Bio- fuels ^k	Total	able Energy
1973 Total	NA	1,529	4,411	2,861	20	NA	NA	1,527	2	NA	1,529	4,411
1975 Total	NA	1,499	4,687	3,155	34	NA	NA	1,497	2	NA	1,499	4,687
1980 Total	NA	2,475	5,428	2,900	53	NA	NA	2,474	2	NA	2,475	5,428
1985 Total	93	3,016	6,084	2,970	97	(s)	(s)	2,687	236	93	3,016	6,084
1990 Total	111	2,735	6,041	3,046	171	59	29	2,216	408	111	2,735	6,041
1995 Total	198	3,099	6,558	3,205	152	69	33	2,370	531	200	3,101	6,560
1996 Total	141	3,155	7,012	3,590	163	70	33	2,437	577	143	3,157	7,014
1997 Total	186	3,108	7,018	3,640	167	70	34	2,371	551	184	3,105	7,016
1998 Total	202	2,929	6,494	3,297	168	69	31	2,184	542	201	2,927	6,493
1999 Total	211	2,965 3.006	6,517	3,268	171 164	68 66	46 57	2,214	540 511	209 236	2,963	6,516
2000 Total 2001 Total	233 254	2,624	6,104 5,164	2,811 2,242	164	64	70	2,262 2.006	364	250 253	3,008 2,622	6,106 5,163
2001 Total	254 308	2,624	5,164	2,242	171	63	105	1,995	402	303	2,622	5,163
2002 Total	402	2,705	5,734	2,825	175	62	115	2,002	401	404	2,701	5,729
2004 Total	487	2,998	6,070	2,690	178	63	142	2,121	389	499	3,010	6,082
2005 Total	564	3,104	6,229	2,703	181	63	178	2,137	403	577	3,117	6,242
2006 Total	720	3,216	6.599	2,869	181	68	264	2.099	397	771	3.267	6,649
2007 Total	978	3,461	6,509	2,446	186	76	341	2.070	413	991	3,474	6,523
2008 Total	1,387	3,864	7,202	2,511	192	89	546	2,040	436	1,372	3,849	7,186
2009 Total	1,584	3,928	7,616	2,669	200	98	721	1,891	453	1,568	3,912	7,600
2010 January	152	359	672	218	18	10	67	168	39	142	349	662
2010 January February	142	332	610	201	16	9	53	154	35	136	349 326	605
March	158	366	682	204	18	10	84	168	40	149	357	673
April	152	351	661	186	17	10	95	160	39	149	348	657
May	157	358	717	245	18	11	85	162	39	155	356	715
June	152	355	753	291	17	11	79	164	39	155	357	755
July	158	367	701	239	17	11	66	170	40	158	368	701
August	160	371	662	196	18	11	65	171	40	159	370	660
September	156	360	626	168	17	11	69	166	38	153	357	622
October	163	369	646	173	17	10	77	166	39	160	366	643
November	164	369	682	191	17	10	95	165	40	157	363	676
December	168	383	726	226	18	10	88	174	41	163	377	720
Total	1,884	4,341	8,136	2,539	208	126	923	1,988	469	1,837	4,294	8,090
2011 January	170	383	754	255	20	12	84	174	40	154	367	739
February	152	344	717	241	18	12	103	156	36	146	337	710
March	171	377	822	310	20	13	103	166	40	160	366	811
April	163	359	821	309	18	13	121	158	38	154	351	812
May	171	371	840	323	19	14	114	160	40	165	365	835
June	167	375	828	315	19	14	106	168	40	166	374	827
July	172	384	797	308	19	14	72	171	41	162	374	787
August	175	384	746	257	19	14	72	169	41	173	382	744
September	167	371	680	210	18	13	67	165	40	160	365	673
October	176	379	711	195	19	14	104	163	40	167	370	702
November	177	382	742	209	19	12	121	164	41	165	370	730
December	186	403	779	241	19 226	13 158	102 1.168	175 1.987	42 477	173 1.947	390	766 0.135
Total	2,047	4,511	9,236	3,171	220	130	1,100	1,907	411	1,947	4,411	9,135
2012 January	177	389	792	233	19	15	135	173	40	157	370	773
February	164	362	705	203	18	15	108	161	37	153	351	695
March	172	372	797	256	19	16	132	161	40	164	364	789
April 4-Month Total	164 676	357 1.480	776 3.070	261 954	18 76	17 63	123 498	153 648	40 156	161 635	354	773
4-WORTH TOTAL		1,480	3,070	954	70	63		048	156	030	1,439	3,030
2011 4-Month Total 2010 4-Month Total	656 604	1,463 1,408	3,114 2,625	1,114 809	76 69	50 40	411 299	653 650	153 154	615 576	1,421 1,380	3,073 2,597

^a Production equals consumption for all renewable energy sources except

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

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

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

biomass.

Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

Generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

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).

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.

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

Notes: • Most data for the residential, commercial, industrial, and transportation sectors are estimates. See notes and sources for Tables 10.2a and 10.2b. • See Note, "Renewable Energy Production and Consumption," at end of section.

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

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

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

Sources: Tables 10.2a=10.4.

Table 10.2a Renewable Energy Consumption: Residential and Commercial Sectors

(Trillion Btu)

		Reside	ntial Sector					Co	ommercial	Sectora			
			Biomass		Hydro-		<u>.</u>			Bio	omass		-
	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
1973 Total	NA	NA	354	354	NA	NA	NA	NA	7	NA	NA	7	7
1975 Total	NA	NA	425	425	NA	NA	NA	NA	8	NA	NA	8	8
1980 Total	NA	NA	850	850	NA	NA	NA	NA	21	NA	NA	21	21
1985 Total	NA	NA	1,010	1,010	NA	NA	NA	NA	24	NA	(s)	24	24
1990 Total	6	56	580	641	1	3	-	-	66	28	(s)	94	98
1995 Total	7	64	520	591	1	5	-	-	72	40	(s)	113	118
1996 Total	7	65	540	612	1	5	-	-	76	53	(s)	129	135
1997 Total	8	64	430	502	1	6	-	-	73	58	(s)	131	138
1998 Total	8 9	64	380	452	1	7 7	-	-	64	54 54	(s)	118	127
1999 Total	9	63 61	390 420	461 489	1 1	8	_	_	67 71	54 47	(s) (s)	121 119	129 128
2000 Total	9	59	420 370	469 438		8	-	_	67	47 25		92	101
2001 Total 2002 Total	10	59 57	380	436 448	1	9		_	69	25 26	(s) (s)	92 95	101
2002 Total	13	57 57	400	446 470	(s)	11	_	_	71	20 29	(S) 1	101	113
2003 Total	14	57 57	410	481		12	_	_	70	34	i	105	118
2005 Total	16	57 58	430	504	1	14	_	_	70	34	1	105	120
2006 Total	18	63	380	462	i	14	_	_	65	36	i	103	118
2007 Total	22	70	410	502	i i	14	_	_	70	31	2	103	118
2008 Total	26	80	450	557	l i	15	(s)	_	73	34	2	109	125
2009 Total	33	89	430	552	1	17	(s)	(s)	72	36	3	112	129
2010 January	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
February	3	9	32	44	(s)	1	(s)	(s)	5	3	(s)	8	10
March	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
April		9	35	47	(s)	2	(s)	(s)	6	3	(s)	9	11
May	3 3	10 9	36 35	48 47	(s)	2 2	(s)	(s)	6 6	4 3	(s)	10 9	12 11
June	3	10	36	47	(s)	2	(s)	(s)	6	3	(s)	9	11
July	3	10	36	46 48	(s)	2	(s) (s)	(s)	6	3	(s)	10	11
August September	3	9	35	47	(s) (s)	2	(s)	(s) (s)	6	3	(s) (s)	9	11
October	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
November	3	9	35	47	(s)	2	(s)	(s)	6	3	(s)	9	10
December	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
Total	37	114	420	571	1	19	(s)	(s)	72	36	3	111	130
							. ,	• • •					
2011 January	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
February		11	33	47	(s)	2	(s)	(s)	5	3	(s)	9	10
March		12 12	37	52	(s)	2	(s)	(s)	6	3	(s)	9 9	11
April	3 3	12	35 37	50 52	(s)	2 2	(s)	(s)	6 6	3 3	(s)	9	10 11
May		12	37 35	52 50	(s)	2	(s)	(s)	6	3	(s)	9	11
June July	3	12	35 37	50 52	(s) (s)	2	(s) (s)	(s) (s)	6	3	(s) (s)	9	11
August	3	12	37 37	52 52	(s)	2	(s)	(S)	6	3	(s)	9	11
September	3	12	37 35	52 50	(s)	2	(S) (S)	(S)	6	3	(s)	9	11
October		12	37	52	(s)	2	(s)	(s)	6	3	(s)	9	11
November	3	12	35	50	(s)	2	(s)	(s)	6	3	(s)	9	11
December	3	12	37	52	(s)	2	(s)	(s)	6	3	(s)	10	11
Total	40	140	430	610	1	20	(s)	(s)	71	36	3	110	131
2012 January	3	14	36	54	(0)	2	(0)	(a)	6	3	(a)	9	11
2012 January February	3	13	36 34	54 51	(s) (s)	2	(s) (s)	(s) (s)	6	3	(s) (s)	9	10
March	3	14	36	54	(s)	2	(s)	(s)	6	3	(s)	9	11
April	3	14	35	52	(s)	2	(s)	(s)	6	3	(s)	9	11
4-Month Total	13	56	142	211	(s)	7	(s)	(s)	23	11	1	36	43
2011 4-Month Total	13	46	141	201	(0)	6	(s)	(s)	23	11	1	35	43
		46	747	2017	(s)						7		

^a Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

b Geothermal heat pump and direct use energy.

Into Energy-Use Sectors, at end of Section 7.

^b Geothermal heat pump and direct use energy.

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

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 megawatt or greater.

⁹ Wind electricity net generation (converted to Btu using the fossil-fuels heat

rate—see Table A6).

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

¹ The fuel ethanol (minus denaturant) portion of motor fuels, such as E10, consumed by the commercial sector.

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

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

District of Columbia.

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

Table 10.2b 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	Wind ^e	Wood ^f	Waste ⁹	Fuel Ethanol ^h	Losses and Co- products ⁱ	Total	Total	Fuel Ethanol ^j	Bio- diesel	Total
1973 Total 1975 Total 1980 Total	35 32 33	NA NA NA	NA NA NA	NA NA NA	1,165 1,063 1,600	NA NA NA	NA NA NA	NA NA NA	1,165 1,063 1,600	1,200 1,096 1,633	NA NA NA	NA NA NA	NA NA NA
1985 Total 1990 Total 1995 Total	33 31 55	NA 2 3	NA - -	NA - -	1,645 1,442 1,652	230 192 195	1 1 2	42 49 86	1,918 1,684 1,934	1,951 1,717 1,992	50 60 112	NA NA NA	50 60 112
1996 Total 1997 Total 1998 Total 1999 Total	61 58 55 49	3 3 3 4	- - -	- - -	1,683 1,731 1,603 1,620	224 184 180 171	1 1 1	61 80 86 90	1,969 1,996 1,872 1.882	2,033 2,057 1,929 1,934	81 102 113 118	NA NA NA	81 102 113 118
2000 Total 2001 Total 2002 Total	42 33 39	4 5 5	_ _ _	<u>-</u> -	1,636 1,443 1,396	145 129 146	1 3 3	99 108 130	1,881 1,681 1,676	1,928 1,719 1,720	135 141 168	NA 1 2	135 142 170
2003 Total 2004 Total 2005 Total 2006 Total	43 33 32 29	3 4 4 4	- - -	- - -	1,363 1,476 1,452 1,472	142 132 148 130	4 6 7 10	169 203 230 285	1,679 1,817 1,837 1,897	1,726 1,853 1,873 1,930	228 286 327 442	2 3 12 33	230 290 339 475
2007 Total	16 17 18	5 5 4	- - -	- -	1,405 1,340 1,208	144 144 155	10 12 13	377 532 617	1,936 2,028 1,994	1,956 2,049 2,016	557 786 894	46 40 42	602 826 935
2010 January February March	2 2 2	(s) (s) (s)	(s) (s) (s)	- - -	109 100 110	15 13 15	1 1 1	60 56 62	185 170 188	187 172 190	81 76 83	(s) 3 2	81 79 85
April May June	2 2 1	(s) (s) (s)	(s) (s) (s)	- - -	105 106 107	15 14 13	1 1 2	60 62 60	181 183 182	183 185 183	84 89 90	4 3 2	87 92 93
July August September October	1 1 1	(s) (s) (s) (s)	(s) (s) (s) (s)	- - -	111 111 110 110	14 14 13 15	2 2 1 2	62 63 61 64	188 190 185 190	190 191 187 192	91 91 86 91	3 3 4 3	94 94 90 94
November December Total	1 1 16	(s) (s) 4	(s) (s) (s)	_ _ _	108 114 1,301	15 15 169	1 2 17	65 67 742	190 198 2,230	191 199 2,250	88 92 1,040	3 3 34	91 94 1,074
2011 January February March	1 2 2	(s) (s) (s)	(s) (s) (s)	(s) (s) (s)	115 102 109	15 14 14	1 1 1	66 59 66	197 176 190	199 178 192	83 81 87	3 4 6	86 85 93
April May June	2 2 1	(s) (s) (s)	(s) (s) (s)	(s) (s) (s)	105 105 112 112	14 14 14 14	1 2 2 1	62 65 63 64	182 185 190 192	185 187 192 194	83 90 92 85	8 9 9 11	91 99 102 96
July August September October	1 1 1	(s) (s) (s) (s)	(s) (s) (s) (s)	(s) (s) (s) (s)	110 109 107	14 14 14 15	1 2 1 1	65 62 65	192 191 187 189	192 188 190	96 83 89	10 14 12	106 97 100
November December Total	1 2 18	(s) (s) 4	(s) (s) (s)	(s) (s) (s)	110 116 1,311	15 15 172	1 2 17	66 69 772	192 202 2,273	194 204 2,295	84 90 1,042	13 13 112	98 102 1,154
2012 January February March April 4-Month Total	2 2 2 2 7	(s) (s) (s) (s)	(s) (s) (s) (s)	(s) (s) (s) (s)	114 106 104 101 426	15 14 14 14 57	1 1 1 1 6	67 61 64 61 253	197 183 184 178 741	199 185 186 180 750	81 82 87 86 337	8 9 11 12 39	89 90 98 99 376
2011 4-Month Total 2010 4-Month Total	7 7	1	(s) (s)	(s)	431 424	56 57	6 5	252 238	745 724	753 732	334 323	22 9	355 332

h The fuel ethanol (minus denaturant) portion of motor fuels, such as E10, consumed by the industrial sector.
i Losses and co-products from the production of fuel ethanol and biodiesel.

Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol and biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source.

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

E85, consumed by the transportation sector.

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

Notes: • Data are estimates, except for industrial sector hydroelectric power in 1973-1978 and 1989 forward, solar/PV, and wind. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

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

a Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.

b Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

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

f Wood and wood-derived fuels.
g Municipal solid waste from biogenic sources, landfill gas, sludge waste,

Y Wood and wood-derived ruleis.
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).

Table 10.2c Renewable Energy Consumption: Electric Power Sector

(Trillion Btu)

	Hydro-	Geo-				Biomass		
	electric Power ^a	thermal ^b	Solar/PV ^c	Wind ^d	Woode	Wastef	Total	Total
1973 Total	2.827	20	NA	NA	1	2	3	2.851
975 Total	3,122	34	NA	NA	(s)	2	2	3,158
980 Total	2.867	53	NA	NA	3	2	4	2,925
985 Total	2.937	97	(s)	(s)	8	7	14	3.049
990 Total ^g	3,014	161	4	29	129	188	317	3,524
995 Total	3,149	138	5	33	125	296	422	3,747
996 Total	3.528	148	5	33	138	300	438	4,153
997 Total	3,581	150	5	34	137	309	446	4,216
998 Total	3,241	151	5	31	137	308	444	3,872
999 Total	3,218	152	5	46	138	315	453	3.874
2000 Total	2,768	144	5	57	134	318	453	3,427
2001 Total	2,209	142	6	70	126	211	337	2.763
002 Total	2,650	147	6	105	150	230	380	3,288
2003 Total	2,781	148	5	115	167	230	397	3,445
004 Total	2,656	148	6	142	165	223	388	3,340
2005 Total	2,670	147	6	178	185	223	406	3,340
2006 Total	2,870	147	5	264	182	231	406 412	3,406
	2,430	145	6	341	186	237	423	3,345
2007 Total 2008 Total	2,430	146	9	546	177	257 258	423 435	3,545
2009 Total	2,494 2,650	146	9	721	180	261	441	3,967
2010 January	217	13	(s)	67	17	21	39	335
February	199	11	(s)	53	16	20	36	300
March	202	13	ì	84	16	22	39	338
April	184	12	1	95	15	21	36	329
May	243	13	1	85	14	22	36	378
June	290	12	2	79	16	23	39	421
July	238	12	2	66	17	23	40	358
August	195	13	2	65	18	23	41	315
September	168	12	1	69	16	22	38	288
October	171	12	1	77	15	22	37	298
November	190	12	i	95	16	23	39	337
December	225	13	(s)	88	17	23	41	367
Total	2,521	148	12	923	196	264	459	4,064
011 January	254	14	(s)	84	16	21	38	391
February	239	13	1	103	15	20	35	390
March	308	14	1	103	15	23	38	463
April	307	13	2	121	12	22	33	476
May	321	14	2	113	13	22	35	486
June	313	13	2	106	15	23	38	473
July	307	13	2	72	16	24	40	434
August	256	13	2	72	16	23	39	383
September	209	13	2	67	15	22	37	327
October	194	14	2	104	13	23	36	349
November	207	13	1	120	13	23	36	377
December	239	14	1	102	16	23	39	396
Total	3,153	163	18	1,168	175	269	444	4,945
012 January	232	14	1	135	16	22	38	420
February	201	13	1	108	15	21	35	359
March	255	14	2	132	14	23	37	440
April	259	13	3	123	11	22	33	432
4-Month Total	947	55	7	498	56	88	144	1,650
011 4-Month Total 010 4-Month Total	1,107 802	55 49	4 2	411 299	58 65	86 85	144 150	1,721 1,302

^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

ror electric utilities and independent power producers.

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

Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

available data beginning in 1973.

Sources: • Biomass: Table 7.4b. • All Other Data: Tables 7.2b and A6.

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

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

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

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

tire-derived fuels).

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

Table 10.3 Fuel Ethanol Overview

	Food	Losses	Dama				Traded		Ctash				Consump- tion
	Feed- stock ^a	and Co- products ^b	Dena- turant ^c	Pi	roduction	ı	Net Imports ^e	Stocks ^{d,f}	Stock Change ^{d,g}	Coi	nsumption	d	Minus Denaturant ^t
	TBtu	TBtu	Mbbl	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu	TBtu
1981 Total	13	6	40	1,978	83	7	NA	NA	NA	1,978	83	7	7
1985 Total	93	42	294	14,693	617	52	NA	NA	NA	14,693	617	52	51
1990 Total	111	49	356	17,802	748	63	NA	NA	NA	17,802	748	63	62
1995 Total	198	86	647	32,325	1,358	115	387	2,186	-207	32,919	1,383	117	114
1996 Total	141	61	464	23,178	973	83	313	2,065	-121	23,612	992	84	82
1997 Total	186	80	613	30,674	1,288	109	85	2,925	860	29,899	1,256	107	104
998 Total	202	86	669	33,453	1,405	119	66	3,406	481	33,038	1,388	118	115
999 Total	211 233	90 99	698 773	34,881 38.627	1,465 1.622	124 138	87 116	4,024 3,400	618 -624	34,350 39.367	1,443 1.653	122 140	119 137
2000 Total	253 253	108	841	42,028	1,765	150	315	4,298	-624 898	41,445	1,741	140	144
2002 Total	307	130	1,019	50,956	2,140	182	306	6,200	1,902	49,360	2,073	176	171
2003 Total	400	169	1,335	66,772	2.804	238	292	5,978	-222	67,286	2,826	240	233
2004 Total	484	203	1,621	81.058	3,404	289	3.542	6.002	24	84,576	3.552	301	293
2005 Total	552	230	1,859	92,961	3,904	331	3,234	5,563	-439	96,634	4,059	344	335
2006 Total	688	285	2.326	116,294	4.884	414	17,408	8,760	3,197	130,505	5.481	465	453
2007 Total	914	376	3,105	155,263	6,521	553	10,457	10,535	1,775	163,945	6,886	584	569
2008 Total	1,300	531	4,433	221,637	9,309	790	12,610	14,226	3,691	230,556	9,683	821	800
2009 Total	1,517	616	5,688	260,424	10,938	928	4,720	16,594	2,368	262,776	11,037	936	910
2010 January	149	60	541	25,625	1,076	91	-234	18,251	1,657	23,734	997	85	82
February	138	56	496	23,802	1,000	85	-482	19,297	1,046	22,274	936	79	77
March	154	62	537	26,486	1,112	94	-1,104	20,222	925	24,457	1,027	87	85
April	147	59	522	25,384	1,066	90	-927	20,042	-180	24,637	1,035	88	85
May	152	61	534	26,244	1,102	93	-368	19,851	-191	26,067	1,095	93	90
June	149	60	522	25,632	1,077	91	-341	18,565	-1,286	26,577	1,116	95	92
July	154	62	543	26,584	1,117	95	-578	17,809	-756	26,762	1,124	95 95	93
August September	157 152	63 61	538 533	26,964 26,221	1,132 1,101	96 93	-695 -924	17,380 17,437	-429 57	26,698 25,240	1,121 1,060	95	93 88
October	160	64	563	27,471	1,154	98	-830	17,437	-159	26,800	1,126	95	93
November	161	65	585	27,747	1,165	99	-923	18,150	872	25,952	1,090	92	90
December	165	67	592	28,457	1,195	101	-1,711	17,941	-209	26.955	1,132	96	93
Total	1,839	742	6,506	316,617	13,298	1,127	-9,115	17,941	1,347	306,155	12,858	1,090	1,061
2011 January	165	66	581	28,524	1,198	102	-1,359	20,672	i 2,732	24,433	1,026	87	85
February	147	59	535	25,400	1,067	90	-1,425	20,809	137	23,838	1,001	85	83
March	163	65	548	28,194	1,184	100	-2,003	21,440	631	25,560	1,074	91	89
April	154	62	507	26,591	1,117	95	-2,865	20,807	-633	24,359	1,023	87	85
May	161	64	545	27,756	1,166	99	-1,743	20,387	-420	26,433	1,110	94	92
June	157	63	535	27,064	1,137	96	-1,533	18,833	-1,554	27,085	1,138	96	94
July	160	64	555	27,624	1,160	98	-2,731	18,700	-133	25,026	1,051	89	87
August	163	65	575	28,110	1,181	100	-790	17,900	-800	28,120	1,181	100	97
September	154	62	525	26,645	1,119	95	-1,820	18,437	537	24,288	1,020	86	84
October	163	65	557	28,092	1,180	100	-2,388	18,072	-365	26,069	1,095	93	90
November December	164 172	66 69	573 600	28,335 29,772	1,190 1,250	101 106	-3,258 -3,407	18,343 18,261	271 -82	24,806 26.447	1,042 1,111	88 94	86 92
Total	1,922	770	6,636	332,107	13,948	1,182	-3,407 - 25,322	18,261	-₀∠ ¹ 321	306,464	12,871	1,091	1,063
2012 January	167	67	583	29,063	1,221	103	-1,789	21,753	3,492	23,782	999	85	82
February	154	61	528	26,653	1,119	95	-1,785	22,572	819	24,049	1,010	86	83
March	160	64	522	27,706	1,164	99	-1,626	22,952	380	25,700	1,079	91	89
April	152	61	494	26,368	1,107	94	-1,549	22,370	-582	25,401	1,067	90	88
4-Month Total	633	252	2,127	109,790	4,611	391	-6,748	22,370	4,109	98,933	4,155	352	343
2011 4-Month Total 2010 4-Month Total	629 588	252 237	2,171 2,096	108,709 101,297	4,566 4,254	387 361	-7,652 -2,746	20,807 20.042	2,867 3,448	98,190 95.103	4,124 3,994	350 339	341 330

^a Total corn and other biomass inputs to the production of undenatured ethanol used for fuel ethanol.

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

NA=Not available.

NA=Not available.
Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Fuel ethanol data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by the approximate heat content of fuel ethanol—see Table A3. • Through 1980, data are not available. For 1981–1992, data are estimates. For 1993–2008, only data for feedstock, losses and co-products, and losses and co-products, are estimates. • See "Denaturant," "Ethanol," "Fuel Ethanol," and "Fuel Ethanol Minus Denaturant" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Columbia.

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

b Loses and co-products from the production of fuel ethanol. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol—these are included in the industrial sector consumption statistics for the appropriate energy source.

^c The amount of denaturant in fuel ethanol produced.

^d Includes denaturant.

e Through 2009, data are for fuel ethanol imports only; data for fuel ethanol exports are not available. Beginning in 2010, data are for fuel ethanol imports

minus fuel ethanol exports.

f Stocks are at end of period.

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

an increase.

h Consumption of fuel ethanol minus denaturant. Data for fuel ethanol minus denaturant are used to develop data for "Renewable Energy/Biomass" in Tables 10.1–10.2b, as well as in Sections 1 and 2.

i Derived from the preliminary December 2010 stocks value (17,940 thousand

Derived from the preliminary December 2010 stocks value (17,940 thousand

Table 10.4 Biodiesel Overview

							Trade							
	Feed- stock ^a	Losses and Co- products ^b	Pr	oduction		Imports	Exports	Net Imports ^c	Stocksd	Stock Change ^e	Bal- ancing Item ^f	Coi	nsumptio	n
	TBtu	TBtu	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu
2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	1 1 2 4 12 32 63 88 67	(s) (s) (s) (s) (s) 1 1	204 250 338 666 2,162 5,963 11,662 16,145 12,281	9 10 14 28 91 250 490 678 516	1 1 2 4 12 32 62 87 66	78 191 94 97 207 1,069 3,342 7,502 1,844	39 56 110 124 206 828 6,477 16,128 6,332	39 135 -16 -26 1 242 -3,135 -8,626 -4,489	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	243 385 322 640 2,163 6,204 8,528 7,519 7,750	10 16 14 27 91 261 358 316 326	1 2 2 3 12 33 46 40 42
Pebruary February March April May June July August September October November December Total	3 4 4 4 4 4 4 4 3 3 44		633 696 804 814 760 644 657 653 723 676 528 588 8,177	27 29 34 34 32 27 28 27 30 28 22 25 343	3 4 4 4 3 4 3 4 4 3 4 4 4 4	41 31 60 45 80 54 32 52 69 18 30 34	296 139 433 227 251 304 199 225 131 132 57 109 2,503	-256 -108 -374 -182 -171 -249 -167 -173 -62 -114 -27 -75 -1,958	1,049 1,039 1,057 1,009 1,016 968 830 771 682 650 676 672 672	338 -10 18 -48 7 -48 -138 -59 -89 -32 26 -4	0 0 0 0 0 0 0 0 0	40 599 412 680 582 443 628 539 749 594 475 517 6,258	2 25 17 29 24 19 26 23 31 25 20 22 263	(s) 3 2 4 3 2 3 3 4 3 3 3 3 3 3
February	5 8 9 10 11 12 12 12 14 14 14 14	(S)	842 961 1,419 1,692 1,838 1,938 2,183 2,273 2,283 2,508 2,494 2,604 23,034	35 40 60 71 77 81 92 95 96 105 105 109	5 8 9 10 10 12 12 12 13 13 14 123	49 37 53 52 48 48 62 65 65 65 82 66 234 861	217 88 197 222 192 117 142 71 193 132 131 39 1,740	-169 -51 -144 -169 -144 -69 -7 -127 -49 -65 195 -879	738 869 984 1,012 1,102 1,216 1,267 1,663 1,201 1,481 1,436 1,902 1,902	976 131 115 28 90 114 51 396 -462 280 -45 466	0 0 0 0 0 0 0 0	597 779 1,160 1,494 1,604 1,755 2,052 1,871 2,617 2,179 2,474 2,333 20,915	25 33 49 63 67 74 86 79 110 92 104 98 878	3 4 6 8 9 9 11 10 14 12 13 13 112
2012 January	9 10 12 12 43	(s) (s) (s) (s)	1,700 1,837 2,193 2,180 7,910	71 77 92 92 332	9 10 12 12 42	44 58 55 49 206	248 119 149 221 736	-204 -62 -93 -171 -530	1,913 2,083 2,218 1,968 1,968	11 170 135 -250 66	0 0 0 0 0	1,486 1,606 1,964 2,259 7,314	62 67 82 95 307	8 9 11 12 39
2011 4-Month Total 2010 4-Month Total	27 16	(s) (s)	4,913 2,948	206 124	26 16	191 176	724 1,095	-533 -919	1,012 1,009	350 298	0	4,030 1,731	169 73	22 9

Total vegetable oil and other biomass inputs to the production of biodiesel.

under "Stocks."

under Stocks:

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

Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu.

Biodiesel data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by 5.359 million Btu per barrel (the approximate heat content of biodiesel—see Table A3). • Through 2000, data are not available. Beginning in 2001, data not from U.S. Energy Information Administration (EIA) surveys are estimates. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 2001.

Sources: See end of section.

b Losses and co-products from the production of biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source.

C Net imports equal imports minus exports.

d Stocks are at end of period.

d Stocks are at end of period.
 e A negative value indicates a decrease in stocks and a positive value indicates an increase.
 f Beginning in 2009, because of incomplete data coverage and different data sources, "Balancing Item" is used to balance biodiesel supply and disposition.
 g Derived from the preliminary December 2010 stocks value (662 thousand barrels), not the final December 2010 value (672 thousand barrels) that is shown

Renewable Energy

Note. Renewable Energy Production and Consump-

tion. In Tables 1.1, 1.3, and 10.1, renewable energy consumption consists of: conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6); geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and geothermal heat pump and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fuels heat rate —see Table A6), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossilfuels heat rate-see Table A6); wood and wood-derived fuels consumption; biomass waste (municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass) consumption; fuel ethanol (minus denaturant) and biodiesel consumption; and losses and co-products from the production of fuel ethanol and biodiesel. In Tables 1.1, 1.2, and 10.1, renewable production is assumed to equal consumption for all renewable energy sources except biofuels (biofuels production comprises biomass inputs to the production of fuel ethanol and biodiesel).

Table 10.2a Sources

Residential Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Residential Sector, Solar/PV

1989–2009: U.S. Energy Information Administration (EIA) estimates based on Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," and Form EIA-63B, "Annual Photovoltaic Module/Cell Manufacturers Survey." Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

2010 forward: EIA estimates based on Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report"; Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey" (pre-2010 data); and SEIA/GTM Research, *U.S. Solar Market Insight: 2010 Year in Review.* Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for 2012 is derived using the average annual growth rate for 2009–2011.)

Residential Sector, Wood

1973–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980 forward: EIA, Form EIA-457, "Residential Energy Consumption Survey"; and EIA estimates based on Form EIA-457 and regional heating degree-day data. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Commercial Sector, Hydroelectric Power

1989 forward: Commercial sector conventional hydroelectricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Commercial Sector, Solar/PV

2008 forward: Commercial sector solar thermal and photovoltaic (PV) electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Wind

2009 forward: Commercial sector wind electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Wood

1973–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980–1983: EIA, Estimates of U.S. Wood Energy Consumption 1980-1983, Table ES1.

1984: EIA estimate based on the 1983 value.

1985–1988: Values interpolated.

1989 forward: EIA, *Monthly Energy Review (MER)*, Tables 7.4a–7.4c; and EIA estimates based on Form EIA-871, "Commercial Buildings Energy Consumption Survey." Data for wood consumption at commercial combined-heat-and-power (CHP) plants are calculated as total wood consumption at electricity-only and CHP plants (MER, Table 7.4a) minus wood consumption in the electric power sector (MER, Table 7.4b) and at industrial CHP plants (MER, Table 7.4c). Annual estimates for wood consumption at other commercial plants are based on Form EIA-871 (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing

the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Commercial Sector, Biomass Waste

EIA, MER, Table 7.4c.

Commercial Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7a, and 10.3. Calculated as commercial sector motor gasoline consumption (Table 3.7a) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Table 10.2b Sources

Industrial Sector, Hydroelectric Power

Industrial sector conventional hydroelectricity net generation data from Table 7.2c are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Industrial Sector, Solar/PV

2010 forward: Industrial sector solar thermal and photovoltaic (PV) electricity net generation data from the U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Wind

2011 forward: Industrial sector wind electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Wood

1973–1979: EIA, Estimates of U.S. Wood Energy Consumption from 1949 to 1981, Table A2.

1980–1983: EIA, Estimates of U.S. Wood Energy Consumption 1980-1983, Table ES1.

1984: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 1.

1985 and 1986: Values interpolated.

1987: EIA, Estimates of Biofuels Consumption in the United States During 1987, Table 2.

1988: Value interpolated.

1989 forward: EIA, *Monthly Energy Review (MER)*, Table 7.4c; and EIA estimates based on Form EIA-846, "Manufacturing Energy Consumption Survey." Data for wood consumption at industrial combined-heat-and-power (CHP) plants are from MER, Table 7.4c. Annual estimates for wood consumption at other industrial plants are based on Form EIA-846 (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Biomass Waste

1981: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1982 and 1983: EIA estimates for total waste consumption based on *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1984: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1988: Value interpolated.

1989 forward: EIA, MER, Table 7.4c; and EIA estimates based on information presented in Government Advisory Associates, *Resource Recovery Yearbook* and *Methane Recovery Yearbook*, and information provided by the U.S. Environmental Protection Agency, Landfill Methane Outreach Program. Data for waste consumption at industrial CHP plants are from MER, Table 7.4c. Annual estimates for waste consumption at other industrial plants are based on the non-EIA sources listed above (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7b, and 10.3. Calculated as industrial sector motor gasoline consumption (Table 3.7b) divided by total motor gasoline product supplied (Table

3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Industrial Sector, Losses and Co-products

Calculated as fuel ethanol losses and co-products (Table 10.3) plus biodiesel losses and co-products (Table 10.4).

Transportation Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7c, and 10.3. Calculated as transportation sector motor gasoline consumption (Table 3.7c) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Transportation Sector, Biodiesel

EIA, MER, Table 10.4. Transportation sector biodiesel consumption is assumed to equal total biodiesel consumption.

Table 10.3 Sources

Feedstock

Calculated as fuel ethanol production (in thousand barrels) minus denaturant, and then multiplied by the fuel ethanol feedstock factor—see Table A3.

Losses and Co-products

Calculated as fuel ethanol feedstock plus denaturant minus fuel ethanol production.

Denaturant

1981–2008: Data in thousand barrels for petroleum denaturant in fuel ethanol produced are estimated as 2 percent of fuel ethanol production; these data are converted to Btu by multiplying by 4.645 million Btu per barrel (the estimated quantity-weighted factor of pentanes plus and conventional motor gasoline used as denaturant).

2009 and 2010: U.S. Energy Information Administration (EIA), *Petroleum Supply Annual (PSA)*, annual reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

2011 and 2012: EIA, *Petroleum Supply Monthly (PSM)*, monthly reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to

Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

Production

1981–1992: Fuel ethanol production is assumed to equal fuel ethanol consumption—see sources for "Consumption."

1993–2004: Calculated as fuel ethanol consumption plus fuel ethanol stock change minus fuel ethanol net imports. These data differ slightly from the original production data from EIA, Form EIA-819, "Monthly Oxygenate Report," and predecessor form, which were not reconciled and updated to be consistent with the final balance.

2005–2008: EIA, Form EIA-819, "Monthly Oxygenate Report."

2009 and 2010: EIA, PSA, annual reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

2011 and 2012: EIA, PSM, monthly reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

Trade, Stocks, and Stock Change

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

2011 and 2012: EIA, PSM, monthly reports, Table 1.

Consumption

1981–1989: EIA, *Estimates of U.S. Biofuels Consumption* 1990, Table 10; and interpolated values for 1982, 1983, 1985, 1986, and 1988.

1990–1992: EIA, *Estimates of U.S. Biomass Energy Consumption* 1992, Table D2; and interpolated value for 1991.

1993–2004: EIA, PSA, annual reports, Tables 2 and 16. Calculated as 10 percent of oxygenated finished motor gasoline field production (Table 2), plus fuel ethanol refinery input (Table 16).

2005–2008: EIA, PSA, annual reports, Tables 1 and 15. Calculated as motor gasoline blending components adjustments (Table 1), plus finished motor gasoline adjustments (Table 1), plus fuel ethanol refinery and blender net inputs (Table 15).

2009 and 2010: EIA, PSA, annual reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

2011 and 2012: EIA, PSM, monthly reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

Consumption Minus Denaturant

Calculated as fuel ethanol consumption minus the amount of denaturant in fuel ethanol consumed. Denaturant in fuel ethanol consumed is estimated by multiplying denaturant in fuel ethanol produced by the fuel ethanol consumption-to-production ratio.

Table 10.4 Sources

Feedstock

Calculated as biodiesel production in thousand barrels multiplied by 5.433 million Btu per barrel (the biodiesel feedstock factor—see Table A3).

Losses and Co-products

Calculated as biodiesel feedstock minus biodiesel production.

Production

148

2001–2005: U.S. Department of Agriculture, Commodity Credit Corporation, Bioenergy Program records. Annual data are derived from quarterly data. Monthly data are estimated by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month.

2006: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for soybean oil consumed in methyl esters (biodiesel). In addition, the U.S. Energy Information Administration (EIA) estimates that 14.4 million gallons of yellow grease were consumed in methyl esters (biodiesel).

2007: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for all fats and oils consumed in methyl esters (biodiesel).

2008: EIA, *Monthly Biodiesel Production Report*, December 2009 (release date October 2010), Table 11. Monthly data for 2008 are estimated based on U.S. Department of

Commerce, Bureau of the Census, M311K data, multiplied by the EIA 2008 annual value's share of the M311K 2008 annual value.

2009 forward: EIA, *Monthly Biodiesel Production Report*, monthly reports, Table 1.

Trade

For imports, U.S. Department of Agriculture, data for the Harmonized Tariff following Schedule 3824.90.40.20, "Fatty Esters Animal/Vegetable Mixture" (data through June 2010); 3824.90.40.30, "Biodiesel/Mixes" (data for July 2010-2011); 3826.00.00.00, "Biodiesel B30-99" (data for 2012); and 3826.00.10.00, "Biodiesel B100" (data for 2012). For exports, U.S. Department of Agriculture, data for the following Schedule B codes: 3824.90.40.00, "Fatty Substances Vegetable/Mixture" (data through 2010); 3824.90.40.30, "Biodiesel <70%" (data for 2011); and 3826.00.00.00, "Biodiesel B=>30" (data for 2012). Although these categories include products other than biodiesel (such as biodiesel coprocessed with petroleum feedstocks; and products destined for soaps, cosmetics, and other items), biodiesel is the largest component. In the absence of other reliable data for biodiesel trade, EIA sees these data as good substitutes.

Stocks and Stock Change

2009 and 2010: EIA, *Petroleum Supply Annual (PSA)*, annual reports, Table 1, data for renewable fuels except fuel ethanol.

2011 and 2012: EIA, *Petroleum Supply Monthly*, monthly reports, Table 1, data for renewable fuels except fuel ethanol.

Balancing Item

Calculated as biodiesel consumption and biodiesel stock change minus biodiesel production and biodiesel net imports.

Consumption

2001–2008: Calculated as biodiesel production plus biodiesel net imports.

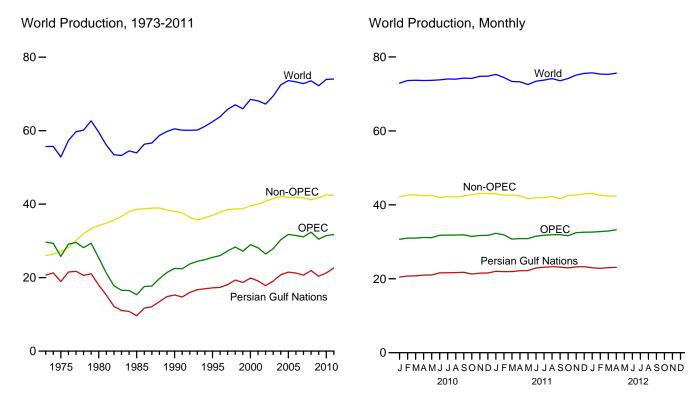
January and February 2009: EIA, PSA, Table 1, data for refinery and blender net inputs of renewable fuels except fuel ethanol.

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

11. International Petroleum

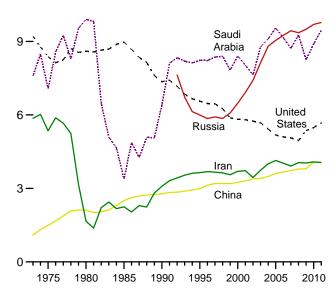
Figure 11.1a World Crude Oil Production Overview

(Million Barrels per Day)



Selected Producers, 1973-2011

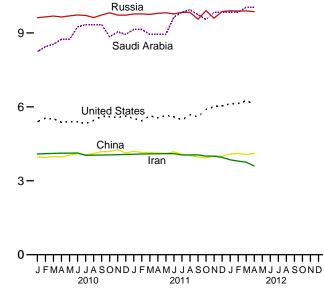
12-



Notes: • OPEC is the Organization of the Petroleum Exporting Countries. • The Persian Gulf Nations are Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Per-

Selected Producers, Monthly

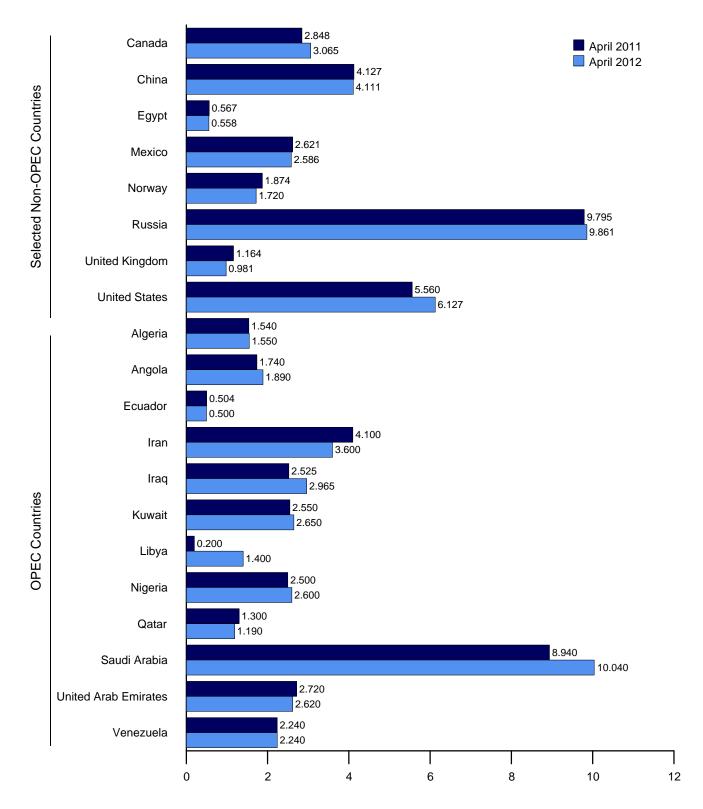
12-



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
1973 Average	1,097	162	209	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	29,661
1975 Average	983	165	161	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	25,790
1980 Average	1,106	150	204	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	25,383
1985 Average	1,036	231	281	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	15,367
1990 Average	1,180	475	285	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	22,498
1995 Average	1,162	646	392	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	25,500
1996 Average	1,227	709	396	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,003
1997 Average	1,259	714	388	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,274
1998 Average	1,226	735	375	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,346
1999 Average	1,177	745	373	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,199
2000 Average	1,214	746	395	3,696	2,571	2,079	1,410	2,165	737	8,404	2,368	3,155	28,940
2001 Average	1,265	742	412	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,114
2002 Average	1,349	896	393	3,444	2,023	1,894	1,319	2,118	679	7,634	2,082	2,604	26,435
2003 Average	1,516	903	411	3,743	1,308	2,136	1,421	2,275	715	8,775	2,348	2,335	27,885
2004 Average	1,582	1,052	528 522	4,001	2,011	2,376	1,515	2,329	783	9,101	2,478	2,557	30,313
2005 Average	1,692 1,699	1,250 1,413	532 536	4,139 4,028	1,878 1,996	2,529 2,535	1,633 1,681	2,627 2,440	835 850	9,550 9,152	2,535 2,636	2,565 2,511	31,766 31,476
2006 Average	1,708	1,744	511	3,912	2,086	2,535 2,464	1,702	2,440	851	8,722	2,603	2,433	31,476
2007 Average 2008 Average	1,705	1,981	505	4,050	2,375	2,586	1,736	2,350	924	9,261	2,681	2,433	32,363
2009 Average	1,585	1,907	486	4,037	2,373	2,350	1,650	2,208	927	8,250	2,413	2,239	30,442
2010 January	1,540	2,040	464	4,088	2,475	2,250	1,650	2,480	969	8,240	2,414	2,090	30,699
February	1,540	2,060	470	4,100	2,475	2,250	1,650	2,420	1,036	8,440	2,414	2,140	30,995
March	1,540	2,070	478	4,112	2,375	2,250	1,650	2,430	1,055	8,540	2,414	2,090	31,004
April	1,540	2,070	480	4,120	2,375	2,250	1,650	2,360	1,072	8,740	2,414	2,110	31,181
May	1,540	2,030	478	4,120	2,375	2,250	1,650	2,310	1,091	8,740	2,415	2,140	31,138
June	1,540	1,980	491	4,127	2,425	2,250	1,650	2,410	1,113	9,240	2,415	2,140	31,780
July	1,540	1,970	492	4,033	2,325	2,350	1,650	2,410	1,136	9,340	2,415	2,140	31,801
August	1,540	1,890	485	4,040	2,325	2,350	1,650	2,510	1,164	9,340	2,415	2,140	31,849
September	1,540	1,790	490	4,047	2,375	2,350	1,650	2,550	1,193	9,340	2,415	2,140	31,880
October	1,540	1,790	497	4,053	2,375	2,350	1,650	2,580	1,216	8,840	2,415	2,140	31,446
November	1,540	1,790	508	4,060	2,375	2,350	1,650	2,510	1,235	9,040	2,415	2,240	31,713
December	1,540	1,790	499	4,068	2,525	2,350	1,650	2,490	1,235	8,940	2,415	2,240	31,742
Average	1,540	1,939	486	4,080	2,399	2,300	1,650	2,455	1,127	8,900	2,415	2,146	31,437
2011 January	1,540 1,540	1,790 1,790	500 509	4,076 4,084	2,625 2,525	2,350 2,350	1,650 1,340	2,580 2,570	1,280 1,280	9,140 9,140	2,520 2,520	2,240 2,240	32,291 31,888
March	1,540	1,790	501	4,092	2,525	2,450	300	2,450	1,290	8,940	2,620	2,240	30,738
April	1,540	1,740	504	4,100	2,525	2,550	200	2,500	1,300	8,940	2,720	2,240	30,859
May	1,540	1,640	497	4,100	2,575	2,550	200	2,570	1,300	8,940	2,720	2,240	30,872
June	1,540	1,690	495	4,100	2,575	2,550	100	2,570	1,300	9,640	2,720	2,240	31,520
July	1,540	1,740	492	4,050	2,625	2,550	100	2,570	1,300	9,840	2,720	2,240	31,767
August	1,540	1,790	495	4,050	2,625	2,600	0	2,600	1,300	9,940	2,720	2,240	31,900
September	1,540	1,840	496	4,050	2,725	2,600	100	2,600	1,300	9,740	2,720	2,240	31,951
October	1,540	1,790	502	4,000	2,725	2,600	300	2,400	1,300	9,540	2,720	2,240	31,657
November	1,540	1,940	504	4,000	2,725	2,600	550	2,500	1,300	9,840	2,720	2,240	32,459
December	1,540	1,890	501	3,950	2,725	2,600	800	2,400	1,300	9,840	2,820	2,240	32,606
Average	1,540	1,786	500	4,054	2,626	2,530	465	2,525	1,296	9,458	2,688	2,240	31,708
2012 January	1,550	1,890	504	3,850	2,675	2,650	1,000	2,500	1,300	9,840	2,620	2,240	32,619
February	1,550	1,940	503	3,800	2,575	2,650	1,200	2,550	1,300	9,840	2,620	2,240	32,768
March	1,550	1,790	499	3,750	2,725	2,650	1,350	2,500	1,200	10,040	2,620	2,240	32,914
April	1,550	1,890	500	3,600	2,965	2,650	1,400	2,600	1,190	10,040	2,620	2,240	33,245
4-Month Average	1,550	1,876	502	3,750	2,736	2,650	1,237	2,537	1,247	9,941	2,620	2,240	32,886
2011 4-Month Average 2010 4-Month Average	1,540 1,540	1,778 2,060	503 473	4,088 4,105	2,551 2,424	2,426 2,250	866 1,650	2,524 2,423	1,288 1,033	9,038 8,489	2,596 2,414	2,240 2,107	31,438 30,967

^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 April 2012, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 600 thousand barrels per day. Data for Saudi Arabia include approximately 150 thousand barrels per

example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC" for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years.

Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available.

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

day from the Abu Safah field produced on behalf of Bahrain.

Description of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For

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

					Selected	Non-OPE	Ca Producei	rs				
	Persian Gulf Nations ^b	Canada	China	Egypt	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom	United States	Total Non- OPEC ^a	World
1973 Average	20,668	1,798	1,090	165	465	32	8,324	NA	2	9,208	26,018	55,679
1975 Average	18,934	1,430	1,490	235	705	189	9,523	NA	12	8,375	27,039	52,828
1980 Average	17,961	1,435	2,114	595	1,936	486	11,706	NA	1,622	8,597	34,175	59,558
1985 Average	9.630	1,471	2,505	887	2.745	773	11,585	NA	2,530	8.971	38.598	53,965
1990 Average	15,278	1,553	2,774	873	2,553	1,630	10,975	NA	1,820	7,355	37,999	60,497
1995 Average	17,208	1,805	2,990	920	2,711	2,766		5,995	2,489	6,560	36,934	62,434
1996 Average	17,367	1,837	3,131	922	2,944	3,091		5,850	2,568	6,465	37,815	63,818
1997 Average	18,095	1,922	3,200	856	3,104	3,142		5,920	2,518	6,452	38,532	65,806
1998 Average	19,337	1,981	3,198	834	3,160	3,011		5,854	2,616	6,252	38,685	67,032
1999 Average	18,667	1,907	3,195	852	2,998	3,019		6,079	2,684	5,881	38,768	65,967
2000 Average	19,892	1,977	3,249	768	3,104	3,222		6,479	2,275	5,822	39,583	68,522
2001 Average	19,098	2,029	3,300	720	3,218	3,226		6,917	2,282	5,801	40,003	68,116
2002 Average	17,794	2,171	3,390	715	3,263	3,131		7,408	2,292	5,746	40,826	67,262
2003 Average	19,063	2,306	3,409	713	3,459	3,042		8,132	2,093	5,681	41,515	69,400
2004 Average	20,787	2,398	3,485	673	3,476	2,954		8,805	1,845	5,419	42,133	72,446
2005 Average	21,501	2,369	3,609	623	3,423	2,698		9,043	1,649	5,178	41,871	73,637
2006 Average	21,232	2,525	3,673	535	3,345	2,491		9,247	1,490	5,102	41,804	73,280
2007 Average	20,672	2,628	3,729	530	3,143	2,270		9,437	1,498	5,064	41,715	72,800
2008 Average	21,913	2,579	3,790	566	2,839	2,182		9,357	1,391	4,950	41,212	73,575
2009 Average	20,402	2,579	3,799	587	2,646	2,067		9,495	1,328	5,361	41,788	72,230
2010 January	20,471	2,497	3,968	579	2,660	2,060		9,615	1,379	5,397	R 42,206	72,906
February	20,750	2,712	3,938	578	2,655	2,038		9,648	1,274	5,543	42,625	73,620
March	20,781	2,621	3,981	577	2,641	1,983		9,683	1,429	5,512	42,689	73,693
April	21,007	2,695	3,961	576	2,639	1,967		9,646	1,378	R 5,375	R 42,451	R 73,633
May	21,025	2,745	4,040	576	2,639	1,921		9,691	1,297	^R 5,403 ^R 5,386	R 42,522 R 42,030	73,661
June	21,604	2,772	4,108	575	2,592	1,611		9,727	1,076			R 73,810
July	21,634	2,765 2.783	4,056	575 574	2,618	1,864 1.648		9,710	1,055	^R 5,317 ^R 5,447	R 42,232 R 42,140	^R 74,033 ^R 73,989
August	21,669	,	4,104	574 574	2,604	,		9,623	1,070	- /	42,140	-,
September	21,755 21,284	2,648 2,690	4,183 4,181	574 573	2,615 2,615	1,637 1,952		9,725 9,816	1,194 1,195	5,613 R 5,603	42,396 R 42,738	74,278 ^R 74,184
October November	21,204	2,090	4,161	573	2,556	1,868		9,723	1,193	R 5,567	R 43,069	R 74,782
December	21,510	2,933	4,126	572	2,620	1,886		9,719	1,207	R 5,629	R 43,049	R 74,791
Average	21,257	2,734	4,076	575	2,621	1,869		9,694	1,233	R 5,482	R 42,512	R 73,949
2011 January	22,026	2,870	4,195	570	2,632	1,905		9,769	1,316	RE 5,527	42,987	75,278
February	21,934	2,906	4,147	569	2,602	1,861		9,773	1,085	RE 5,437	R 42,569	R 74,457
March	21,952	2,854	4,139	568	2,620	1,808		9,753	1,073	E 5,635	R 42,633	R 73,371
April	22,170	2,848	4,127	567	2,621	1,874		9,795	1,164	E 5,560	R 42,432	73,290
May	22,220	2,564	4,104	566	2,603	1,607		9,818	1,017	E 5,647	41,669	72,542
June	22,920	2,664	4,172	565	2,592	1,660		9,770	1,018	E 5,598	^R 41,911	^R 73,431
July	23,120	2,916	4,073	564	2,580	1,737		9,837	946	E 5,468	41,978	^R 73,745
August	23,270	3,068	4,030	563	2,598	1,714		9,832	767	E 5,680	42,250	74,150
September	23,170	2,983	3,964	562	2,534	1,636		9,557	890	RE 5,593	R 41,615	^R 73,566
October	22,920	3,032	3,926	561	2,598	1,756		9,902	998	RE 5,895	R 42,517	^R 74,174
November	23,220	3,022	4,006	560	2,573	1,764		9,595	1,039	RE 6,005	R 42,649	^R 75,108
December	23,270	3,120	3,998	559	2,601	1,713		9,869	1,010	RE 6,042	R 42,955	R 75,560
Average	22,687	2,904	4,073	564	2,596	1,752		9,774	1,026	RE 5,676	^R 42,347	^R 74,055
2012 January	22,970	3,189	4,089	558	2,562	1,761		9,894	999	RE 6,120	R 43,081	R 75,700
February	22,820	3,045	4,109	558	2,588	1,745		9,889	1,016	RE 6,137	R 42,597	R 75,365
March	23,020	2,877	4,066	558	2,596	1,715		9,891	968	RE 6,240	R 42,378	R 75,292
April	23,100	3,065	4,111	558	2,586	1,720		9,861	981	E 6,127	42,366	75,612
4-Month Average	22,979	3,044	4,093	558	2,583	1,735		9,884	991	E 6,157	42,608	75,493
2011 4-Month Average 2010 4-Month Average	22,021 20,750	2,869 2,629	4,152 3,963	569 578	2,619 2,649	1,862 2,012		9,772 9,648	1,161 1,367	^E 5,542 5,455	42,659 42,490	74,097 73,458

^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"

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

for all years.

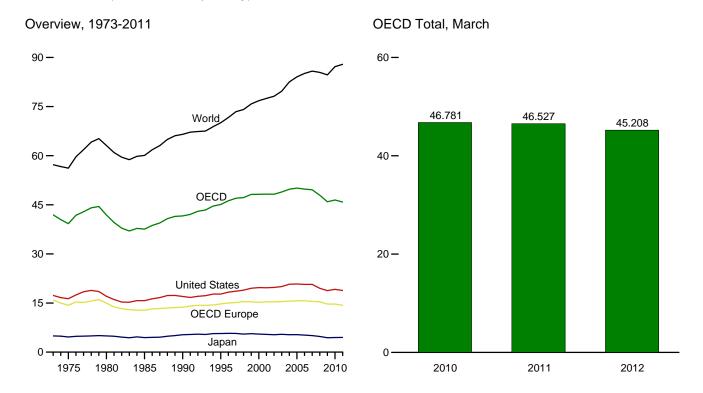
b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

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

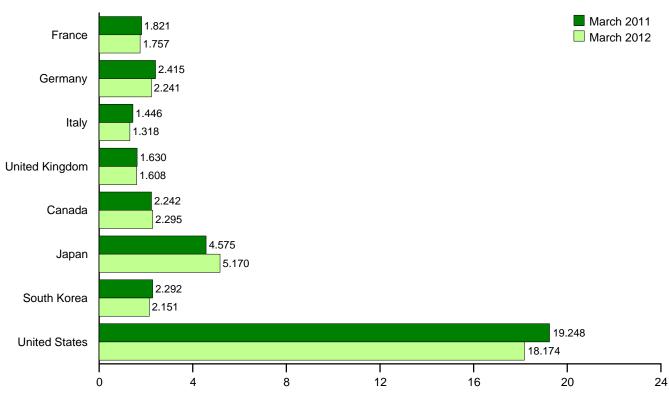
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973.

Sources: See end of section.

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 Development. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Source: Table 11.2.

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

(1112	dodina i	Janeis pe	- Day)									_
	France	Germany ^a	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD d	World
1072 Average	2.601	3,324	2,068	2,341	15,879	1,729	4,949	281	17,308	1,768	41,913	57,237
1973 Average 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	2,252	3,082	1,934	1,725	14,995	1.873	4.960	537	17,056	2.449	41,870	63,113
1985 Average	1,753	2,651	1,705	1,617	12,770	1,526	4,436	552	15,726	2,564	37,575	60,083
1990 Average	1,826	2,682	1,868	1,776	13,729	1,737	5,315	1,048	16,988	2,784	41,601	66,533
1995 Average	1,920	2,882	1,942	1,816	14,714	1,817	5,693	2,008	17,725	3,135	45,092	70,067
1996 Average	1,949	2,922	1,920	1,852	14,998	1,871	5,739	2,101	18,309	3,206	46,224	71,665
1997 Average	1,969	2,917	1,934	1,810	15,140	1,940	5,702	2,255	18,620	3,355	47,013	73,450
1998 Average	2,043	2,923	1,943	1,792	15,448	1,931	5,507	1,917	18,917	3,486	47,206	74,105
1999 Average	2,031	2,836	1,891	1,811	15,357	2,016	5,642	2,084	19,519	3,567	48,185	75,819
2000 Average	2,000	2,767	1,854	1,765	15,215	2,014	5,515	2,135	19,701	3,624	48,205	76,781
2001 Average	2,054	2,807	1,832	1,747	15,384	2,043	5,412	2,132	19,649	3,633	48,253	77,508
2002 Average	1,985	2,710	1,870	1,739	15,329	2,065	5,319	2,149	19,761	3,595	48,218	78,161
2003 Average	2,001	2,662	1,860	1,759	15,445	2,191	5,428	2,175	20,034	3,628	48,901	79,708
2004 Average	2,009	2,649	1,829	1,785	15,547	2,282	5,319	2,155	20,731	3,719	49,753	82,530
2005 Average	1.991	2,621	1,781	1,823	15,666	2,315	5,328	2,191	20,802	3,800	50,102	84,064
2006 Average	1,991	2,639	1,777	1,803	15,666	2,229	5,197	2,180	20,687	3,826	49,785	85,133
2007 Average	1,979	2,420	1,729	1,734	15,474	2,283	5,037	2,241	20,680	3,876	49,591	85,823
2008 Average	1,945	2,545	1,667	1,725	15,389	2,232	4,788	2,142	19,498	3,870	47,919	85,431
2009 Average	1,870	2,452	1,543	1,646	14,663	2,157	4,394	2,188	18,771	3,744	45,918	84,693
2010 January	1.785	2,186	1,353	1,578	R 13.585	2,104	4,766	2,344	18,652	3,482	R 44.933	NA
February	1,788	2,481	1,518	1,679	R 14,813	2,104	4,988	2,365	18,850	3,804	R 47,048	NA
March	1,942	2,530	1,510	1,675	R 14,878	2,137	4,725	2,303	19,099	3,705	R 46,781	NA
April	1,875	2,286	1,504	1,638	R 14,328	2,108	4,352	2,232	19,033	3,754	R 45,818	NA
May	1,723	2,379	1,435	1,607	R 13,961	2,155	3,865	2,153	18,866	3,727	R 44,727	NA
June	1,866	2,535	1,561	1,590	R 14,764	2,133	3,992	2,160	19,537	3,826	R 46,520	NA
July	1,858	2,596	1,643	1,623	R 14.974	2,183	4.194	2,100	19,319	3,748	R 46.513	NA
August	1,770	2,572	1,490	1,635	R 14,609	2,335	4,412	2,204	19,662	3,595	R 46,817	NA
September	1,975	2,773	1,608	1,632	R 15,424	2,351	4,466	2,175	19,438	3,688	R 47,543	NA
October	1,782	2,647	1,516	1,659	R 14.988	2,220	4,059	2,209	18,974	3,640	R 46.090	NA
November	1,818	2,611	1,551	1,639	R 15,069	2,257	4,620	2,374	18,977	3,802	R 47,101	NA
December	1,968	2,349	1,615	1,518	R 14,659	2.213	5.029	2,479	19,722	3.824	R 47.926	NA
Average	1,861	2,495	1,528	1,622	R 14,667	2,211	4,452	2,251	19,180	3,715	R 46,477	R 87,213
2011 January	1,805	2,253	1,354	1,595	13,640	R 2,255	4,923	2,427	19,121	R 3,498	R 45,865	NA
February	1,951	2,458	1,556	1,646	14,765	R 2,265	5,093	2,346	18,869	R 3,822	R 47,161	NA
March	1,821	2,415	1,446	1,630	14,303	2,242	4,575	2,292	19,248	R 3,865	R 46,527	NA
April	1,780	2,281	1,463	1,615	13,937	2,115	4,008	2.008	18,613	R 3,765	R 44,446	NA
May	1,766	2,426	1,426	1,549	14,013	2,136	3,801	2,016	18,363	R 3,723	R 44,053	NA
June	1,819	2,294	1,511	1,682	14,406	2,204	3,957	2,109	19,277	R 3,860	R 45,814	NA
July	1,831	2,431	1,479	1,556	14,385	2,281	4,240	2,186	18,555	R 3,759	R 45,406	NA
August	1,836	2,661	1,401	1,611	14,701	2,344	4,439	2,209	19,153	R 3,810	R 46,657	NA
September	1,952	2,574	1,543	1,665	14,998	2,245	4,292	2,238	18,795	R 3,855	R 46,423	NA
October	1,808	2,531	1,467	1,572	14,350	2,230	4,408	2,213	18,563	R 3,662	R 45,426	NA
November	1,763	2,470	1,407	1,589	14,161	2,256	4,616	2,249	18,734	R 3,893	R 45,910	NA
December	1,768	2,284	1,425	1,526	13,748	R 2,296	5,443	2,434	18,738	R 3,872	R 46,530	NA
Average	1,824	2,423	1,455	1,602	14,279	R 2,239	4,481	2,227	18,835	R 3,781	R 45,843	R 87,912
2012 January	1,777	2,156	1,265	1,435	R 13,074	R 2,101	5,175	2,363	18,268	R 3,558	R 44,539	NA
February	1,984	2,507	1,308	1,559	R 14,393	^R 2,196	5,565	2,407	18,734	R 3,783	R 47,077	NA
March	1,757	2,241	1,318	1,608	13,618	2,295	5,170	2,151	18,174	3,800	45,208	NA
3-Month Average	1,836	2,297	1,297	1,533	13,680	2,197	5,298	2,305	18,384	3,712	45,576	NA
2011 3-Month Average 2010 3-Month Average	1,856 1,902	2,373 2,397	1,449 1,471	1,623 1,643	14,219 14,412	2,254 2,154	4,856 4,821	2,355 2,314	19,087 18,867	3,726 3,659	46,496 46,227	NA NA

^a Data are for unified Germany, i.e., the former East Germany and West

R=Revised. NA=Not available.

Totals may not equal sum of components due to independent

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

Columbia.

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

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

Germany.

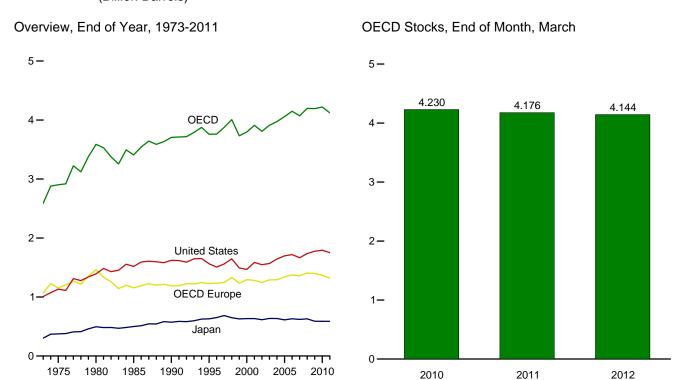
b "OECD Europe" consists of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Slovakia, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

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

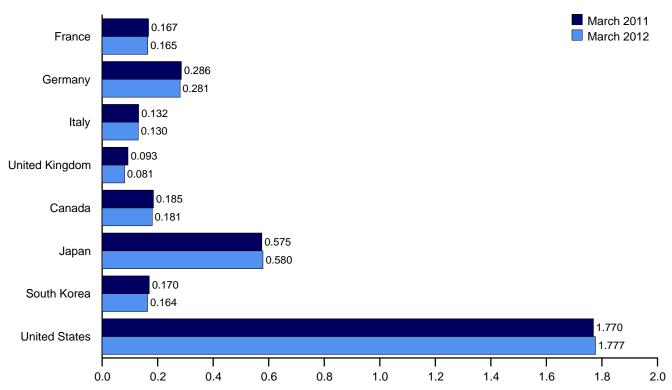
U.S. Territories.

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

Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)



By Selected OECD Country, End of Month



Note: OECD is the Organization for Economic Cooperation and Development. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Source: Table 11.3.

Table 11.3 Petroleum Stocks in OECD Countries

(Million Barrels)

(
	France	Germany ^a	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	1,154	174	375	NA	1,133	67	2,903
1980 Year	243	319	170	168	1,464	164	495	NA	1,392	72	3,587
1985 Year	139	277	156	131	1,154	112	500	13	1,519	110	3,408
1990 Year	143	280	143	103	1,188	143	572	64	1,621	117	3,706
1995 Year	155	302	141	101	1,228	132	631	92	1,563	113	3,758
1996 Year	154	303	135	103	1,235	127	651	123	1,507	118	3,762
1997 Year	161	299	129	100	1,246	144	685	124	1,560	115	3,875
1998 Year	169	323	135	104	1,331	139	649	129	1,647	111	4,006
1999 Year	160	290	130	101	1,233	142	629	132	1,493	105	3,733
2000 Year	170	272	140	100	1,294	144	634	140	1,468	117	3,796
2001 Year	165	273	134	113	1,281	154	634	143	1,586	112	3,910
2002 Year	170	253	138	104	1,247	155	615	140	1,548	103	3,808
2003 Year	179	273	135	100	1,290	165	636	155	1,568	96	3,910
2004 Year	177	267	136	101	1,292	154	635	149	1,645	99	3,974
2005 Year	185	283	132	95	1,342	168	612	135	1,698	103	4,058
2006 Year	182	283	133	103	1,374	169	631	152	1,720	103	4,148
2007 Year	180	275	133	90	1,358	175	621	143	1,665	108	4,072
2008 Year	179	279	128	99	1,407	174	630	135	1,737	114	4,196
2009 Year	175	284	126	94	1,398	169	589	155	1,776	105	4,193
2010 January	182	295	127	95	1.439	172	593	162	1.786	111	4,263
February	175	290	134	99	1,424	174	587	163	1,785	117	4,249
March	172	289	129	93	1.404	180	581	164	1,787	114	4,230
April	172	284	135	95	1.414	181	590	166	1.810	111	4,272
May	173	286	131	99	1.422	177	599	166	1.830	108	4.302
June	170	280	133	96	1,405	178	597	167	1,842	120	4,308
July	168	282	127	96	1,389	186	598	170	1,855	116	4,314
August	171	289	133	93	1,406	195	597	169	1,862	115	4,343
September	163	286	127	95	1,365	193	582	174	1,861	111	4,286
October	161	285	129	94	1,375	195	599	170	1,847	112	4,298
November	170	287	126	92	1,367	197	604	171	1,827	108	4,274
December	168	287	133	89	1,371	196	588	165	1,794	106	4,221
2011 January	173	291	140	R 97	R 1.412	187	596	168	1,803	105	R 4,271
February	170	288	131	95	1,383	182	591	162	1,773	108	4,200
March	167	286	132	93	R 1,371	185	575	170	1,770	105	R 4,176
April	163	291	132	93	R 1,357	191	601	173	1,776	109	R 4,207
May	168	288	130	R 91	R 1,360	189	599	170	1,805	110	4.232
June	167	286	130	85	R 1,352	190	593	175	1,808	108	4,225
July	164	290	130	R 87	R 1,343	189	599	173	1,820	109	4,232
August	162	283	132	89	R 1.347	188	598	173	1,801	111	4,232
September	160	277	130	R 85	R 1,326	189	601	174	1,781	105	4,215
October	165	278	130	R 86	R 1.315	192	599	174	1,770	105	R 4,175
November	164	277	131	R 93	1,330	193	603	174	1,770	105	4,172
December	165	279	128	R 88	1,320	190	589	167	1,772	105	4,172
2012 January	166	284	132	R 90	R 1.341	^R 194	594	164	1,771	107	R 4,172
February	165	283	132	R 90	R 1.340	R 188	583	171	1,764	99	R 4,145
March	165	281	130	81	1,342	181	580	164	1,777	101	4.144
warur	100	201	130	01	1,342	101	360	104	1,777	101	4,144

^a Through December 1983, the data for Germany are for the former West Germany only. Beginning with January 1984, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France,

R=Revised. NA=Not available.

Notes: • Stocks are at end of period. • Petroleum stocks include crude oil (including strategic reserves), unfinished oils, natural gas plant liquids, and refined products. • In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, thereby affecting subsequent stocks reported. New-basis end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

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

all available data beginning in 1973.
Sources: • United States:

Table 3.4. • U.S. Territories: 1983 forward—U.S. Energy Information Administration, International Energy Database. All Other Data: 1973-1982—International Energy Agency (IEA), Quarterly Oil
Statistics and Energy Balances, various issues. 1983—IEA, Monthly Oil and Gas
Statistics Database. 1984 forward—IEA, Monthly Oil Data Service, June 2012.

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

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

and, for 1984 forward, Mexico.

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

International Petroleum

Tables 11.1a and 11.1b Sources

United States

Table 3.1.

All Other Countries and World, Annual Data

1973–1979: U.S. Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8. 1980 forward: EIA, International Energy Database, July 2012.

All Other Countries and World, Monthly Data

1973-1980: Petroleum Intelligence Weekly (PIW), Oil &

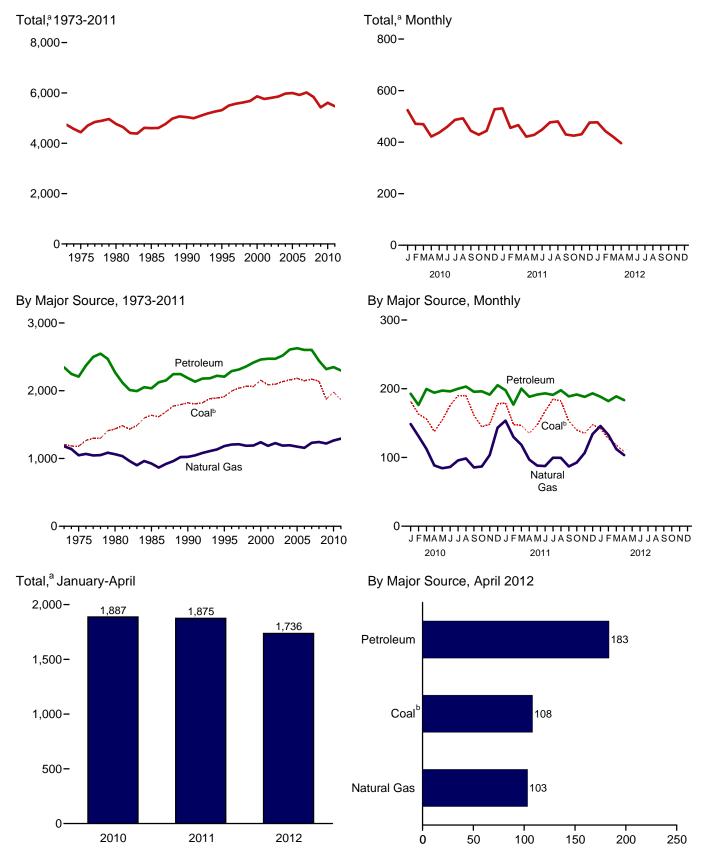
Gas Journal (OGJ), and EIA adjustments.

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

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

12. Environment

Figure 12.1 Carbon Dioxide Emissions From Energy Consumption by Source (Million Metric Tons of Carbon Dioxide)



^a Excludes emissions from biomass energy consumption.

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

^b Includes coal coke net imports.

Carbon Dioxide Emissions From Energy Consumption by Source Table 12.1

			Petroleum											
	Coal ^b	Natural Gas ^c	Aviation Gasoline	Distillate Fuel Oild	Jet Fuel	Kero- sene	LPG ^e	Lubri- cants	Motor Gasoline ^f	Petroleum Coke	Residual Fuel Oil	Other ^g	Total	Total ^{h,i}
1973 Total	1,207 1,181	1,181 1,047	6 5 4	480 443 446	155 146 156	32 24 24	91 82 87	13 11 13	911 911 900	51 48 46	508 443 453	100 97 142	2,346 2,209	4,733 4,437 4,770
1980 Total 1985 Total 1990 Total	1,436 1,638 1,821	1,063 926 1,025	3 3	445 470	178 223	17 6	86 69	12 13	930 988	55 67	216 220	93 127	2,272 2,035 2,187	4,600 5,039
1995 Total 1996 Total	1,913 1,995	1,184 1,205	3 3	498 524	222 232	8 9	78 84	13 12	1,044 1,063	75 78	152 152	114 132	2,207 2,290	5,314 5,501
1997 Total 1998 Total	2,040 2,064	1,211 1,189	3 2	534 538	234 238	10 12	85 75	13 14	1,075 1,107	79 89	142 158	138 125	2,313 2,358	5,575 5,622
1999 Total 2000 Total 2001 Total	2,062 2,155 2,088	1,192 1,241 1,187	3 3 2	555 580 598	245 254 243	11 10 11	91 102 92	14 14 13	1,127 1,135 1,151	93 84 88	148 163 145	130 117 132	2,417 2,461 2,473	5,682 5,867 5,759
2002 Total 2003 Total	2,095 2,136	1,227 1,191	2 2	587 610	237 231	6 8	98 95	12 11	1,183 1,188	94 94	125 138	127 140	2,472 2,518	5,806 5,857
2004 Total 2005 Total 2006 Total	2,160 2,182 2,147	1,195 1,175 1,158	2 2 2	632 640 648	240 246 240	10 10 8	98 94 93	12 12 11	1,214 1,214 1,224	105 105 104	155 164 122	142 141 150	2,609 2,628 2,603	5,975 5,997 5,919
2007 Total	2,172 2,139	1,233 1,243	2 2	652 615	238 226	5 2	94 89	12 11	1,224 1,227 1,166	98 92	129 111	148 130	2,603 2,603 2,444	6,020 5,838
2009 Total	1,876	1,222	2	564	204	3	91	10	1,157	87	91	111	2,320	5,429
February March	182 163 156	149 131 113	(s) (s) (s)	49 46 51	17 15 18	(s) (s) (s)	10 9 8	1 1 1	92 84 95	5 5 7	9 7 8	9 9 11	193 176 200	524 471 470
April May	138 155	88 84	(s) (s)	48 48	17 18	(s) (s)	7 7	1	96 99	6 6	9	11 10	194 197	422 437
June July	176 190	86 96	(s) (s)	48 47	19 19	(s) (s)	7 7 7	1	97 101	7 7	7 9 7	10 10 11	196 200	459 487
August September October	190 161 145	99 86 87	(s) (s) (s)	50 50 50	19 18 18	(s) (s) (s)	7 7 8	1 1 1	100 96 97	8 7 6	8 7	10 9	203 196 196	493 444 429
November December	148 178	103 143	(s) (s)	49 55	17 17	1	8 11	1	92 96	7 6	8 8	9 10	191 205	444 528
Total 2011 January	1,982 179	1,265 154	(s)	590 52	210 17	3 (s)	94 10	11 1	1,146 91	77 6	96	120	2,349 198	5,607
February	148 147	130 R 118	(s) (s)	46 53	15 17	(s) 1 (s)	8 8	1	84 95	4 6	9	9	177 200	456 466
April May	135 148	97 88	(s) (s)	47 48	17 18	(s) (s)	6 7	1	92 95	6 7	9 7	10 9	188 192	R 421 R 428
June July August	167 185 182	^R 87 100 ^R 99	(s) (s) (s)	50 45 52	19 18 19	(s) (s) (s)	6 7 7	1 1 1	94 97 96	7 6 8	7 5 5	10 11 10	193 191 198	449 477 R 480
September October	153 140	87 93	(s) (s)	50 52	17 17	(s) (s)	7 8	1	92 93	6 7	7 6	9	189 192	430 425
November December Total	135 148 1,867	107 134 R 1,294	(s) (s) 2	52 50 596	17 17 209	(s) (s) 2	8 9 92	1 1 10	89 93 1,111	6 5 75	6 8 86	10 10 116	188 193 2,299	431 476 R 5,471
2012 January	142 127	146 133	(s) (s)	50 49	16 16	(s) (s)	9	1	89 87	6 5	6 6	10 10	188 182	477 443
March April	118 108	112 103	(s) (s)	48 46	17 16	(s) (s)	8 7	1 1	93 92	6	6	9	189 183	420 396
4-Month Total 2011 4-Month Total 2010 4-Month Total	496 609 639	494 499 481	1 1 1	193 198 193	66 67 67	(s) 1 1	33 33 34	3 4 4	361 362 367	22 23 24	24 35 33	39 40 40	743 763 763	1,736 1,875 1,887

a Metric tons of carbon dioxide can be converted to metric tons of carbon b Includes coal coke net imports.

C Natural gas, excluding supplemental gaseous fuels.

Distributed a value of the converted carrier of the conve

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

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

Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.

• See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia and the District of Columbia.

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

Sources: See end of section.

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

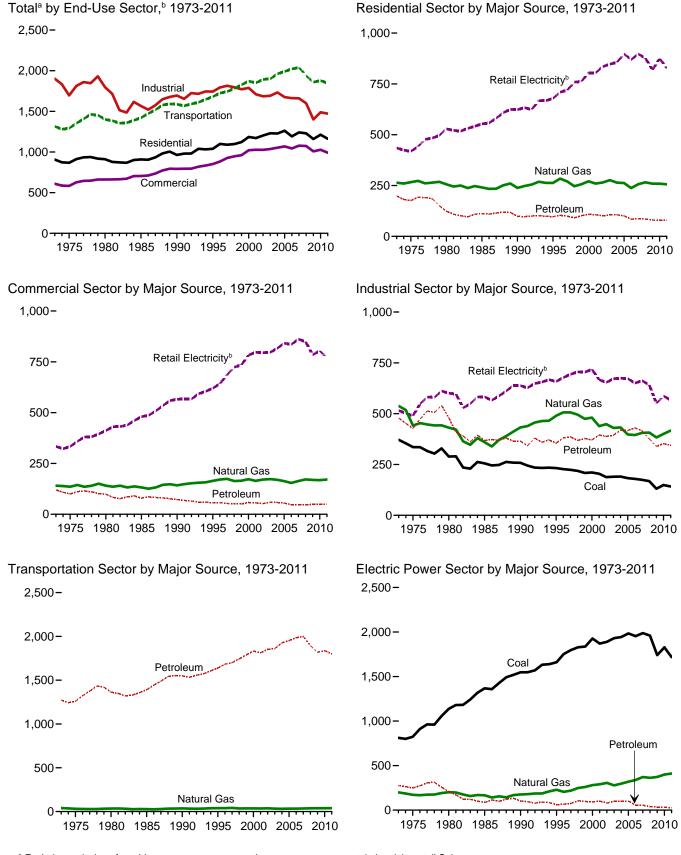
⁹ Aviation gasoline blending components, crude oil, motor gasoline blending components, pentanes plus, petrochemical feedstocks, special naphthas, still gas,

unfinished oils, waxes, and miscellaneous petroleum products.

h Includes electric power sector use of geothermal energy and non-biomass waste. See Table 12.6.

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

Figure 12.2 Carbon Dioxide Emissions From Energy Consumption by Sector (Million Metric Tons of Carbon Dioxide)



^a Excludes emissions from biomass energy consumption.

total electricity retail Sales.

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

^b Emissions from energy consumption in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of

Table 12.2 Carbon Dioxide Emissions From Energy Consumption: Residential Sector

				Petrole	eum			
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Total	Retail Elec- tricity ^e	Total ^f
1973 Total	9	264	147	16	36	199	435	907
1975 Total	ő	266	132	12	32	176	419	867
1980 Total	3	256	96	8	20	124	529	911
1985 Total	ă	241	80	11	20	111	553	909
1990 Total	3	238	72	5	22	98	624	963
1995 Total	2	263	66	5	25	96	678	1.039
1996 Total	2	284	68	6	30	104	710	1,039
1997 Total	2	270	64	7	29	99	719	1,090
1998 Total	1	247	56	8	27	91	759	1,097
1999 Total	i	257	61	8	33	102	762	1,122
2000 Total	i	271	66	7	35	108	805	1.185
2001 Total	i	259	66	7	33	106	805	1,172
2002 Total	i	265	63	4	34	101	835	1,203
2003 Total	i	276	66	5	34	106	847	1,230
2004 Total	i	264	68	6	32	106	856	1,228
2005 Total	i	262	62	6	32	101	897	1,261
2006 Total		237	52	5	28	85	869	1,192
2007 Total	i	257	53	3	31	87	897	1,241
2008 Total	4	266	49	2	35	85	878	1,229
2009 Total	i	259	44	2	35	81	819	1,159
2000 10101	•	200	"	-	•	0.	0.0	1,100
2010 January	(s)	51	6	(s)	3	10	91	151
February	(s)	43	6	(s)	3	9	74	126
March	(s)	31	4	(s)	3	7	65	103
April	(s)	17	2	(s)	2 2	5	51	73
May	(s)	11	3	(s)	2	5	59	75
June	(s)	7	3	(s)	2 3 3	6	79	92
July	(s)	6	2	(s)	3	5	97	108
August	(s)	6	2	(s)	3	5	96	107
September	(s)	6	2	(s)	3	5	72	83
October	(s)	11	3	(s)	3	6	56	73
November	(s)	24	3	(s)	3	7	56	87
December	(s)	46	6	(s)	3	10	81	137
Total	1	259	43	2	33	78	875	1,212
2011 January	(s)	53	5	(s)	3	9	87	148
February	(s)	42	5	(s)	3	8	67	117
March	(s)	33	4	(s)		7	59	99
April	(s)	19	2	(s)	2	5	53	77
May	(s)	11	2	(s)	3	4	58	74
June	(s)	7	3	(s)	3 2 3 2 3	5	76	88
July	(s)	6	2	(s)	3	5	96	107
August	(s)	6	3	(s)	3	6	92	104
September	(s)	7	3	(s)	3	ő	69	81
October	(s)	12	4	(s)	3	7	54	73
November	(s)	23	4	(s)	3	7	53	83
December	(s)	37	6	(s)	3	9	66	113
Total	`1	256	43	`1	33	78	827	1,162
2012 January	(6)	43	6	(a)	3	9	68	121
2012 January	(s)	43 36	5	(s)	3	8	58	102
February	(s)	36 22	5 4	(s)	3	8 7		102 80
March	(s)	15	3	(s)	3	6	51 45	80 66
April 4-Month Total	(s)	117	18	(s)	12	30	222	3 69
4-MONTH 10tal	(s)	117	10	(s)	12	30	444	309
2011 4-Month Total	(s)	146	16	1	12	29	266	441
2010 4-Month Total	(s)	142	18	1	12	30	280	452

(s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section.
• See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

Sources: See end of section.

a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.
d Liquefied petroleum gases.
Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.
Excludes emissions from biomass energy consumption. See Table 12.7.
(s)=Less than 0.5 million metric tons.

Table 12.3 Carbon Dioxide Emissions From Energy Consumption: Commercial Sector

				Retail							
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Total	Elec- tricity ^f	Total
1973 Total 1975 Total 1980 Total 1980 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1997 Total 1998 Total 2001 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total	15 14 11 13 12 11 12 12 9 9 9 9 8 10 9 6 7 7	141 136 141 132 142 164 171 174 165 173 164 170 173 170 163 154 164 171 169	47 43 38 46 39 35 32 31 32 36 37 32 35 34 33 29 28 27 30	5 4 3 2 1 2 2 2 2 2 2 2 2 1 1 1 1 2 1 (s) (s) (s)	9 8 6 6 6 7 8 8 7 9 9 9 10 10 8 8 8 10 9 9	6 6 8 7 8 1 2 3 3 2 3 3 4 4 3 3 4 4 3	NA NA NA NA (S)	52 39 44 18 18 11 11 9 7 6 7 6 9 10 9 6 6	120 100 98 79 73 56 57 54 51 51 58 57 52 59 58 55 48 47 46 49	334 333 412 480 566 620 643 686 724 735 783 797 795 796 816 842 836 861 850 785	609 583 662 704 793 851 883 926 947 960 1,022 1,027 1,026 1,036 1,054 1,069 1,043 1,078 1,078
2010 January	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s)	27 24 18 12 9 7 6 7 7 10 16 25	4 4 3 2 2 2 2 2 2 1 2 2 2 4 3 3	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) 0 0 (s) (s) (s) (s) (s)	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s)	6 6 4 3 3 4 3 3 4 4 6 4 9	66 60 59 57 66 74 80 81 69 63 61 68 805	101 91 82 73 78 85 90 91 79 77 81 100 1,027
2011 January February March April January 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 7 8 12 15 22	4 3 3 2 1 1 2 2 2 2 2 3 3 4 3 3	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) 0 0 0 0 0 0 0 (s) (s) (s)	1 (s) (s) (s) (s) (s) (s) (s) 1 1 1 6	6 5 4 3 2 3 3 4 4 4 5 6 49	65 55 58 57 63 70 77 77 66 61 57 59	R 100 84 83 73 75 81 89 88 77 77 77 77 87 991
2012 January	(s) (s) (s) (s)	24 21 14 12 71	4 3 3 2 13	(s) (s) (s) (s)	1 1 1 1 3	(s) (s) (s) (s)	(s) (s) (s) (s)	1 1 (s) 2	6 5 5 3 19	57 53 52 51 213	88 80 71 66 305
2011 4-Month Total 2010 4-Month Total	2 2	85 81	12 13	(s) (s)	3 3	1 1	(s) (s)	2 3	18 19	234 244	339 346

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section.
• See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

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

b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.
d Liquefied petroleum gases.
e Finished motor gasoline, excluding fuel ethanol.
f Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.</sup>

Tables 7.6 and 12.6.

⁹ Excludes emissions from biomass energy consumption. See Table 12.7. R=Revised. NA=Not available. (s)=Less than 0.5 million metric tons.

Table 12.4 Carbon Dioxide Emissions From Energy Consumption: Industrial Sector

		Coal						Petroleun	n					
	Coal	Coke Net Imports	Natural Gas ^b	Distillate Fuel Oil ^c	Kero- sene	LPG ^d	Lubri- cants	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Other ^f	Total	Retail Elec- tricity ^g	Total ^h
1973 Total	371 336 289 256 258 233 227 224 219 208 211 204 188	-1 2 -4 -2 1 7 3 5 8 7 7	538 442 431 360 432 490 506 506 495 474 481 439	106 97 96 81 84 82 86 88 88 88 88	11 9 13 3 1 1 1 1 2 1 1 2	43 39 61 58 39 45 46 48 39 48 56	7 6 7 6 7 7 7 7 7	18 16 11 15 13 14 14 15 14 15 11 11 21	49 48 45 54 667 70 68 77 81 74 77	144 117 105 57 31 24 24 21 16 14 17 14	100 97 142 93 127 114 132 138 125 130 117	478 427 480 369 366 355 381 386 368 378 370 395 388	515 490 601 583 638 659 678 694 706 704 719 667	1,902 1,696 1,797 1,566 1,695 1,743 1,795 1,815 1,796 1,772 1,788 1,709 1,685
2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	190 191 183 179 175 168 131	6 16 5 7 3 5 -3	430 432 398 395 405 407 383	83 88 92 92 92 93 80	2 2 3 2 1 (s) (s)	50 55 51 56 54 42 46	6 6 6 6 6 5	23 26 25 26 21 17	76 82 80 82 80 76 73	15 17 20 16 13 14	140 142 141 150 148 130 111	394 419 417 430 415 377 339	672 675 673 650 662 642 551	1,692 1,732 1,675 1,662 1,661 1,599 1,401
2010 January February March April May June July August September October November December Total	12 12 13 12 12 12 13 13 13 149	(s) (s) (s) (s) (s) (s) (s) (s) (s) -1	37 34 35 32 31 32 32 32 33 34 37	6698654797889 86	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	6 5 4 3 3 3 3 4 4 4 4 6 50	(s) (s) (s) (s) (s) 1 1 (s) (s) (s) (s) (s)	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	3 4 6 5 5 5 5 6 6 5 6 5 6 5 6 2	1 1 1 1 1 1 1 1 1 1 8	9 9 11 11 10 10 10 11 10 9 9 10	28 27 33 30 28 27 26 31 31 28 30 33 33	46 44 46 45 51 52 54 55 48 47 48 50 587	122 118 127 120 123 122 124 130 124 120 124 133 1,488
2011 January February March April May June July August September October November December Total	12 13 11 12 12 11 12 12 12 12 12 14 14	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 38 35 36 34 R 32 33 R 33 33 34 35 38 R 417	10 7 10 7 7 7 7 3 7 7 8 9 6 88	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	6 5 4 3 3 3 3 4 4 4 4 4 5 48	(s) (s) 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 2 2 2 2 2 2 2 2 2 2 2 1 2 2 1 1 8	5 3 5 5 6 5 5 7 5 6 5 4 62	1 1 1 1 1 (s) (s) (s)	10 9 12 10 9 10 11 10 9 8 10 10	33 26 33 28 28 25 29 27 27 28 30 28 345	47 42 45 45 48 50 53 53 46 47 45 45	132 115 128 118 122 122 123 128 119 121 122 123 R 1,472
2012 January	11 11 12 12 46	(s) (s) (s) 1	39 36 36 34 145	7 9 7 6 29	(s) (s) (s) (s)	5 5 4 4 17	(s) (s) (s) (s)	1 1 2 2 6	5 4 5 5 19	1 (s) 1 1 2	10 10 9 9	31 30 28 26 115	43 42 41 41 166	123 120 117 114 473
2011 4-Month Total 2010 4-Month Total	48 49	(s) (s)	143 138	34 30	(s) (s)	18 19	2 2	6 6	18 19	3 3	40 40	121 118	179 182	491 487

<sup>a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.
d Liquefied petroleum gases.
e Finished motor gasoline, excluding fuel ethanol.
f Aviation gasoline blending components, crude oil, motor gasoline blending components pentages plus petrochemical feedstocks special paphthas still gas</sup>

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

metric tons.
Notes: Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

components, pentanes plus, petrochemical feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.

⁹ Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.

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

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

	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 1985 Total 1985 Total 1990 Total 1990 Total 1997 Total 1997 Total 1998 Total 1997 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	(s) (s) (h) h h h h h h h h h h h h h h h h h h	39 32 34 28 36 38 39 41 35 36 36 35 37 33 32 33 33 33 33 33 35	65 4 3 3 3 3 3 2 2 3 3 2 2 2 2 2 2 2 2 2 2	163 155 204 232 268 307 327 342 352 366 378 387 394 414 434 444 469 472 440 404	152 145 155 178 223 222 234 238 245 254 243 231 240 246 240 238 245 254	3 3 1 1 1 1 1 1 1 1 1 1 1 1 2 2 2 1 3 3 2 3 2	66667666677766666556555	886 889 881 908 967 1,029 1,047 1,057 1,15 1,121 1,127 1,158 1,161 1,185 1,186 1,194 1,201 1,146 1,137	57 56 110 62 80 72 67 56 53 52 70 46 53 45 53 45 58 66 71 78	1,273 1,258 1,363 1,391 1,548 1,639 1,683 1,699 1,743 1,789 1,833 1,813 1,851 1,861 1,926 1,953 1,984 1,999 1,895 1,895	222333333344455555555555555555555555555	1,315 1,292 1,400 1,421 1,588 1,681 1,725 1,744 1,782 1,828 1,872 1,892 1,899 1,962 1,991 2,022 2,040 1,937 1,860
Potal 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	4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	31 30 35 35 37 36 38 39 37 37 35 35 425	17 15 18 17 18 19 19 19 18 17 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	91 82 94 94 97 95 99 98 94 95 90 94	656765656665 69	145 133 154 154 159 156 162 161 155 157 149 153 1,836	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	150 137 157 157 161 159 165 165 157 160 152 158 1,879
Pebruary 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 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) (h h) (h h) (h	5 4 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	33 30 36 35 38 38 37 39 36 37 35 34	17 15 17 17 18 19 18 19 17 17 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	89 83 93 90 93 92 95 94 90 91 87 92 1,089	7 7 6 7 6 5 3 3 5 5 4 6 6 6	147 135 153 151 155 155 155 157 150 151 145 149	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	152 140 157 154 158 158 160 153 154 148 153 1,845
2012 January	(h) (h) (h) (h) (h)	4 4 3 3 15	(s) (s) (s) (s)	32 31 34 35 132	16 16 17 16 66	(s) (s) (s) (s)	(s) (s) (s) (s) 2	87 85 91 90 354	5 4 5 5 18	140 137 148 147 573	(s) (s) (s) (s)	145 141 152 150 589
2011 4-Month Total 2010 4-Month Total	(h)	15 14	1 1	135 131	67 67	1 1	2 2	355 360	27 24	586 586	1 2	603 602

(s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.

• See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

and the District of Columbia.

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

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

b Natural gas, excluding supplemental gaseous fuels.

c Distillate fuel oil, excluding biodiesel.

d Liquefied petroleum gases.

e Finished motor gasoline, excluding fuel ethanol.

f Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6. Tables 7.6 and 12.6.

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

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

				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	NA NA	1,544
	1,137	166	6	1	79	86	NA NA	NA NA	1,619
1985 Total		176	7	-	79 92	102			1,831
1990 Total	1,548			3		-	(s)	6	,
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
	1,987	372	7	17	31	55	` '	11	2,426
2007 Total							(s)		
2008 Total	1,959	362	5	16	19	40	(s)	12	2,374
2009 Total	1,741	373	5	14	14	34	(s)	11	2,159
2010 January	170	30	1	1	1	4	(s)	1	204
February	150	26	(s)	1	1	2	(s)	1	179
March	143	25	(s)	1	1	2	(s)	1	171
April	125	25	(s)	1	1	2	(s)	1	154
May	142	30	(s)	1	1	3	(s)	1	176
June	163	38	1 1	1	2	4	(s)	1	206
July	177	48	1	2	2	4	(s)	1	231
August	177	51	(s)	1	2	3	(s)	1	232
September	148	38	(s)	1	1	2	(s)	i	189
	132	31	(s)	1	1	2	(s)	1	166
October			(-)	1	1		(-)		
November	136	27	(s)	•	-	2	(s)	1	166
December	165 1,828	31 399	1 6	1 15	1 12	3 33	(s)	1 11	200 2,271
Total	1,020	399	•	13	12	33	(s)		2,211
2011 January	166	29	1	2	1	3	(s)	1	199
February	135	26	(s)	1	1	2	(s)	1	164
March	133	26	(s)	1	1	2	(s)	1	163
April	123	28	(s)	1	1	2	(s)	1	155
May	135	31	(s)	1	1	2	(s)	1	169
June	155	38	(s)	1	1	2	(s)	1	196
July	173	51	(s)	1	1	3	(s)	1	228
August	170	50	(s)	1	1	2	(s)	1	223
September	141	37	(s)	1	1	2	(s)	1	181
October	128	31	(s)	1	(s)	2	(s)	i	162
November	123	29	(s)	i	(s)	2	(s)	i	155
December	135	33	(s)	i	(s)	2	(s)	i	171
Total	1,718	411	5	14	7	25	(s)	11	2,166
	400	25	(-)	4	4		(-)	4	400
2012 January	130	35	(s)	1	1	2	(s)	1	168
February	116	35	(s)	1	(s)	2	(s)	1	153
March	106	37	(s)	1	(s)	1	(s)	1	145
April	95	39	(s)	1	(s)	1	(s)	1	136
4-Month Total	446	146	1	3	2	6	(s)	4	602
2011 4-Month Total	558	110	2	5	3	9	(s)	4	681
2010 4-Month Total	587	106	2	5	3	10	(s)	4	707

^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.

Sources: See end of section.

Municipal solid waste from non-biogenic sources, and tire-derived fuels.

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

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

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

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

coverage is the 50 States and the District of Columbia.

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

Table 12.7 Carbon Dioxide Emissions From Biomass Energy Consumption

			By Source			By Sector						
	Woodb	Biomass Waste ^c	Fuel Ethanol ^d	Bio- diesel	Total	Resi- dential	Com- mercial ^e	Indus- trial ^f	Trans- portation	Electric Power ^g	Total	
1973 Total	143	(s)	NA	NA	143	33	1	109	NA	(s)	143	
1975 Total	140	(s)	NA	NA	141	40	1	100	NA	(s)	141	
1980 Total	232	(s)	NA	NA	232	80	2	150	NA	(s)	232	
1985 Total	252	14	3	NA	270	95	2	168	3	1	270	
1990 Total	208	24	4	NA	237	54	8	147	4	23	237	
1995 Total	222	30	8	NA	260	49	9	166	8	28	260	
1996 Total	229	32	<u>6</u>	NA	266	51	10	170	<u>6</u>	30	266	
1997 Total	222	30	7	NA	259	40	10	172	7	30	259	
1998 Total	205 208	30 29	8 8	NA NA	242 245	36 37	9 9	160 161	8 8	30 30	242 245	
1999 Total 2000 Total	212	29 27	9	NA NA	243	39	9	161	9	29	243	
2001 Total	188	33	10	(s)	231	35	9	147	10	31	231	
2002 Total	187	36	12	(s)	235	36	9	144	12	35	235	
2003 Total	188	36	16	(s)	240	38	9	141	16	37	240	
2004 Total	199	35	20	(s)	255	38	10	151	20	36	255	
2005 Total	200	37	23	ìí	261	40	10	150	23	37	261	
2006 Total	197	36	31	2	266	36	9	151	33	38	266	
2007 Total	194	37	39	3	274	38	9	146	41	39	274	
2008 Total	191	40	55	3	289	42	10	140	57	40	289	
2009 Total	177	41	62	3	284	40	10	128	64	41	284	
2010 January	16	4	6	(s)	25	3	1	12	6	4	25	
February	14	3	5	(s)	23		1	11	5	3 4	23	
March	16 15	4 4	6 6	(s)	25 25	3 3	1	12 11	6 6	3	25 25	
April May	15	4	6	(s) (s)	25 25	3	1	11	6	3	25 25	
June	15	4	6	(s)	25 25	3	1	11	6	4	25	
July	16	4	6	(s)	26	3	i	12	6	4	26	
August	16	4	6	(s)	26	3	1	12	6	4	26	
September	16	3	6	(s)	25	3	1	12	6	3	25	
October	16	4	6	(s)	26	3	1	12	6	3	26	
November	15	4	6	(s)	25	3	1	12	6	4	25	
December	16	4	_6	(s <u>)</u>	27	3	.1	12	_6	4	27	
Total	186	43	73	2	304	39	10	139	74	42	304	
2011 January	16	4	6	(s)	26	3	1	12	6	3	26	
February	15 16	3 4	6 6	(s)	24 26	3	1	11 12	6 6	3 3	24 26	
March April	15	3	6	(s)	25 25	3	1	11	6	3	26 25	
May	15	4	6	1	26	3	1	11	7	3	26	
June	16	4	6	i	26	3	i	12	7	3	26	
July	16	4	6	1	27	3	i	12	7	4	27	
August	16	4	7	1	27	3	1	12	7	4	27	
September	15	4	6	1	26	3	1	12	7	3	26	
October	15	4	6	1	26	3	1	11	7	3	26	
November	15	4	6	1	26	3	1	12	7	3	26	
December	16	4	_6	1	27	3	.1	12	7	4	27	
Total	186	43	73	8	311	40	10	140	80	41	311	
2012 January	16	4	6	1	26	3	1	12	6	4	26	
February	15 15	3 4	6 6	1 1	25 26	3 3	1 1	11 11	6 7	3 3	25 26	
March April	15	4	6	1	26 25	3	1	11	7	3	26 25	
4-Month Total	61	14	23	3	101	13	3	46	26	13	1 01	
2011 4-Month Total	61	14	23	2	100	13	3	46	24	13	100	
2010 4-Month Total	61	14	23	1	98	13	3	45	23	14	98	

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

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

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

Notes: • Carbon dioxide emissions from biomass energy consumption are excluded from the energy-related carbon dioxide emissions reported in Tables 12.1–12.6. See Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#environment for all available data beginning in 1973.

Sources: See end of section.

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.

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

and commercial electricity-only plants.

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

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

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)

	Production			Imports			Exports	
	Crude Oil ^a	Natural Gas Plant Liquids	Crude Oil ^a	Petroleum Products	Total	Crude Oil ^a	Petroleum Products	Total
1973	5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752
1974	5.800	4.011	5.827	5.959	5.884	5.800	5.773	5.774
	5.800	3.984	5.821	5.935	5.858	5.800	5.747	5.748
1975								
976	5.800	3.964	5.808	5.980	5.856	5.800	5.743	5.745
977	5.800	3.941	5.810	5.908	5.834	5.800	5.796	5.797
978	5.800	3.925	5.802	5.955	5.839	5.800	5.814	5.808
979	5.800	3.955	5.810	5.811	5.810	5.800	5.864	5.832
980	5.800	3.914	5.812	5.748	5.796	5.800	5.841	5.820
981	5.800	3.930	5.818	5.659	5.775	5.800	5.837	5.821
982	5.800	3.872	5.826	5.664	5.775	5.800	5.829	5.820
983	5.800	3.839	5.825	5.677	5.774	5.800	5.800	5.800
984	5.800	3.812	5.823	5.613	5.745	5.800	5.867	5.850
985	5.800	3.815	5.832	5.572	5.736	5.800	5.819	5.814
986	5.800	3.797	5.903	5.624	5.808	5.800	5.839	5.832
987	5.800	3.804	5.901	5.599	5.820	5.800	5.860	5.858
988	5.800	3.800	5.900	5.618	5.820	5.800	5.842	5.840
989	5.800	3.826	5.906	5.641	5.833	5.800	5.869	5.857
990	5.800	3.822	5.934	5.614	5.849	5.800	5.838	5.833
991	5.800	3.807	5.948	5.636	5.873	5.800	5.827	5.823
992	5.800	3.804	5.953	5.623	5.877	5.800	5.774	5.777
993	5.800		5.954				5.777	5.779
		3.801		5.620	5.883	5.800		
994	5.800	3.794	5.950	5.534	5.861	5.800	5.777	5.779
995	5.800	3.796	5.938	5.483	5.855	5.800	5.740	5.746
996	5.800	3.777	5.947	5.468	5.847	5.800	5.728	5.736
997	5.800	3.762	5.954	5.469	5.862	5.800	5.726	5.734
998	5.800	3.769	5.953	5.462	5.861	5.800	5.710	5.720
999	5.800	3.744	5.942	5.421	5.840	5.800	5.684	5.699
000	5.800	3.733	5.959	5.432	5.849	5.800	5.651	5.658
001	5.800	3.735	5.976	5.443	5.862	5.800	5.751	5.752
002	5.800	3.729	5.971	5.451	5.863	5.800	5.687	5.688
003	5.800	3.739	5.970	5.438	5.857	5.800	5.739	5.740
004	5.800	3.724	5.981	5.475	5.863	5.800	5.753	5.754
005	5.800	3.724	5.977	5.474	5.845	5.800	5.741	5.743
006	5.800	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
008	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
	5.800	3.692 3.674	5.988				5.737 5.670	5.738 5.672
010				5.557	5.894	5.800		
011 ^P	5.800	3.675	6.007	5.555	5.910	5.800	5.619	5.622
	5.800	3.675	6.007	5.555	5.910	5.800	5.619	5.622

a Includes lease condensate.
 P=Preliminary. E=Estimate.
 Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.
 Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.
 Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A3. Approximate Heat Content of Petroleum Consumption and Biofuels Production (Million Btu per Barrel)

	Total Petroleum ^a Consumption by Sector					Liquefied Petroleum	Motor		Fuel Ethanol		Biodiesel	
	Resi- dential	Com- mercial ^b	Indus- trial ^b	Trans- portation ^{b,c}	Electric Power ^{d,e}	Total ^{b,c}	Gases Con- sumption ^f	Gasoline Con- sumption ^g	Fuel Ethanol ^h	Feed- stock Factor	Biodiesel	Feed- stock Factor
1973	5.258	5.689	5.557	5.396	6.245	5.515	3.746	5.253	NA	NA	NA	NA
1974	5.253	5.683	5.525	5.394	6.238	5.504	3.730	5.253	NA	NA	NA.	NA
1975	5.253	5.649	5.513	5.392	6.250	5.494	3.715	5.253	NA	NA	NA	NA
1976	5.277	5.672	5.523	5.396	6.251	5.504	3.711	5.253	NA	NA	NA	NA
1977	5.285	5.682	5.539	5.401	6.249	5.518	3.677	5.253	NA	NA	NA	NA
1978	5.287	5.665	5.536	5.405	6.251	5.519	3.669	5.253	NA	NA	NA	NA
1979	5.365	5.717	5.409	5.429	6.258	5.494	3.680	5.253	NA	NA	NA	NA
1980	5.321	5.751	5.366	5.441	6.254	5.479	3.674	5.253	3.563	6.586	NA	NA
1981	5.283	5.693	5.299	5.433	6.258	5.448	3.643	5.253	3.563	6.562	NA	NA
1982	5.266	5.698	5.247	5.423	6.258	5.415	3.615	5.253	3.563	6.539	NA	NA
1983	5.140	5.591	5.254	5.416	6.255	5.406	3.614	5.253	3.563	6.515	NA	NA
1984	5.307	5.657	5.207	5.418	6.251	5.395	3.599	5.253	3.563	6.492	NA	NA
1985	5.263	5.598	5.199	5.423	6.247	5.387	3.603	5.253	3.563	6.469	NA	NA
1986	5.268	5.632	5.269	5.426	6.257	5.418	3.640	5.253	3.563	6.446	NA	NA
1987	5.239	5.594	5.233	5.429	6.249	5.403	3.659	5.253	3.563	6.423	NA	NA
1988	5.257	5.597	5.228	5.433	6.250	5.410	3.652	5.253	3.563	6.400	NA	NA
1989	5.194	5.549	5.219	5.438	^d 6.240	5.410	3.683	5.253	3.563	6.377	NA	NA
1990	5.145	5.553	5.253	5.442	6.244	5.411	3.625	5.253	3.563	6.355	NA	NA
1991	5.094	5.528	5.167	5.441	6.246	5.384	3.614	5.253	3.563	6.332	NA	NA
1992	5.124	5.513	5.168	5.443	6.238	5.378	3.624	5.253	3.563	6.309	NA	NA
1993	5.102	^b 5.505	^b 5.178	^b 5.436	6.230	^b 5.379	3.606	5.253	3.563	6.287	NA	NA
1994	5.098	5.515	5.150	5.424	6.213	5.361	3.635	5.230	3.563	6.264	NA	NA
1995	5.063	5.478	5.121	5.417	6.188	5.341	3.623	5.215	3.563	6.242	NA	NA
1996	4.998	5.433	5.114	5.420	6.195	5.336	3.613	5.216	3.563	6.220	NA	NA
1997	4.989	5.391	5.120	5.416	6.199	5.336	3.616	5.213	3.563	6.198	NA	NA
1998	4.975	5.365	5.137	5.413	6.210	5.349	3.614	5.212	3.563	6.176	NA	NA
1999	4.902	5.291	5.092	5.413	6.205	5.328	3.616	5.211	3.563	6.167	NA	NA
2000	4.908	5.316	5.057	5.422	6.189	5.326	3.607	5.210	3.563	6.159	NA	NA
2001	4.937	5.325	5.142	5.412	6.199	5.345	3.614	5.210	3.563	6.151	5.359	5.433
2002	4.886	5.293	5.093	5.411	6.173	5.324	3.613	5.208	3.563	6.143	5.359	5.433
2003	4.907	5.307	5.142	5.409	6.182	5.340	3.629	5.207	3.563	6.116	5.359	5.433
2004	4.953	5.328	5.144	5.421	6.192	5.350	3.618	5.215	3.563	6.089	5.359	5.433
2005	4.916	5.364	5.178	5.427	6.188	5.365	3.620	5.218	3.563	6.063	5.359	5.433
2006	4.894	5.310	5.160	5.431	6.143	5.353	3.605	5.218	3.563	6.036	5.359	5.433
2007	4.850	5.298	5.127	5.434	6.151	5.346	3.591	5.219	3.563	6.009	5.359	5.433
2008	4.732	5.175	5.149	5.426	6.123	5.339	3.600	5.218	3.563	5.983	5.359	5.433
2009	4.691	5.266	5.018	^c 5.414	6.105	^c 5.301	3.558	5.218	3.563	5.957	5.359	5.433
2010	4.692	5.263	4.988	5.421	6.084	5.297	3.557	5.218	3.561	5.931	5.359	5.433
2011	E 4.692	E 5.261	E 4.964	E 5.425	P 6.062	P 5.291	P 3.529	P 5.218	P 3.560	5.905	5.359	5.433
2012	E 4.692	E 5.261	E 4.964	E 5.425	E 6.062	E 5.291	E 3.529	^E 5.218	E 3.560	5.880	5.359	5.433

a Petroleum products supplied, including natural gas plant liquids and crude oil burned directly as fuel. Quantity-weighted averages of the petroleum products included in each category are calculated by using heat content values shown in Table A1.

P=Preliminary. E=Estimate. NA=Not available.

Note: The heat content values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.
Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

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

d Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.

^e Electric power sector factors are weighted average heat contents for distillate fuel oil, petroleum coke, and residual fuel oil; they exclude other liquids.

^f Quantity-weighted averages of the major components of liquefied petroleum gases are calculated by using heat content values shown in Table A1.

⁹ There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a quantity-weighted

factor—quantity-weighted averages of the major components of motor gasoline, including fuel ethanol, are calculated by using heat content values shown in Table A1.

h Includes denaturant (petroleum added to ethanol to make it undrinkable). Fuel ethanol factors are weighted average heat contents for undenatured ethanol (3.539 million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as denaturant (5.253 million Btu per barrel). The factor for 2009 is used as the estimated factor for 1980-2008.

Corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol), used as the factor to estimate total biomass inputs to the production of undenatured ethanol. Observed ethanol yields (gallons undenatured ethanol per bushel of corn) are 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; yields in other years are estimated. Corn is assumed to have a gross heat content of 0.392 million Btu per bushel. Undenatured ethanol is assumed to have a gross heat content of 3.539 million Btu per barrel.

J Soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel), used as the factor to estimate total biomass inputs to the production of biodiesel. It is assumed that 7.65 pounds of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. Soybean oil is assumed to have a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel. Biodiesel is assumed to have a gross heat content of 17,253 Btu per pound, or 5.359 million Btu per barrel.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Production			Consumptiona			
	Marketed	Dry	End-Use Sectors ^b	Electric Power Sector ^c	Total	Imports	Exports
973	1,093	1,021	1,020	1,024	1,021	1,026	1,023
974	1,097	1.024	1,024	1,022	1,024	1.027	1,016
975		1,021	1,020	1,026	1,021	1,026	1,014
976		1,020	1,019	1,023	1,020	1,025	1,013
977		1,021	1,019	1,029	1,021	1,026	1,013
978		1,019	1,016	1,034	1,019	1,030	1,013
979	1,092	1,021	1,018	1,034	1,021	1,037	1,013
980		1,021	1,016	1,035	1,021	1,022	1,013
981	1,103	1,027	1,025	1,035	1,027	1,014	1,011
982		1,028	1,026	1,036	1,028	1,018	1,011
983		1,031	1,031	1,030	1,031	1,024	1,010
984		1,031	1,030	1,035	1,031	1,005	1,010
985		1,032	1,031	1,038	1,032	1,002	1,011
986		1,030	1,029	1,034	1,030	997	1,008
987		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		1,030	1,031	1,025	1,030	1,014	1,022
992		1,030	1,031	1,025	1,030	1,011	1,018
993		1,027	1,028	1,025	1,027	1,020	1,016
994	1,105	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		1,026	1,027	1,020	1,026	1,022	1,011
997		1,026	1,027	1,020	1,026	1,023	1,011
998		1,031	1,033	1,024	1,031	1,023	1,011
999		1,027	1,028	1,024	1,027	1,023	1,006
	1,107	1,027	1,026	1,022	1,027	1,023	1,006
000							
001	1,105	1,028	1,029	1,026	1,028	1,023	1,010
002	1,103	1,024	1,025	1,020	1,024	1,022	1,008
003		1,028	1,029	1,025	1,028	1,025	1,009
004		1,026	1,026	1,027	1,026	1,025	1,009
005		1,028	1,028	1,028	1,028	1,025	1,009
006		1,028	1,028	1,028	1,028	1,025	1,009
007		1,027	1,027	1,027	1,027	1,025	1,009
800	1,100	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		1,023	1,023	1,022	1,023	1,025	1,009
011		E 1,022	E 1,023	P 1,021	E 1,022	E 1,025	E 1,009
012		E 1,022	E 1,023	E 1,021	E 1.022	E 1,025	E 1,009

a Consumption factors are for natural gas, plus a small amount of supplemental gaseous fuels.
 b Residential, commercial, industrial, and transportation sectors.
 c Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers. P=Preliminary. E=Estimate.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

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

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A5. Approximate Heat Content of Coal and Coal Coke

(Million Btu per Short Ton)

	Coal									
				С	onsumption					
		Waste	Residential and	Industrial	Sector	Electric				Imports
	Production ^a	Coal Supplied ^b	Commercial Sectors	Coke Plants	Other ^c	Power Sector ^{d,e}	Total	Imports	Exports	Imports and Exports
1973	23.376	NA	22.831	26.780	22.586	22.246	23.057	25.000	26.596	24.800
1974	23.072	NA	22.479	26.778	22.419	21.781	22.677	25.000	26.700	24.800
1975	22.897	NA	22.261	26.782	22.436	21.642	22.506	25.000	26.562	24.800
1976	22.855	NA	22.774	26.781	22.530	21.679	22.498	25.000	26.601	24.800
1977	22.597	NA	22.919	26.787	22.322	21.508	22.265	25.000	26.548	24.800
1978	22.248	NA	22.466	26.789	22.207	21.275	22.017	25.000	26.478	24.800
1979	22.454	NA	22.242	26.788	22.452	21.364	22.100	25.000	26.548	24.800
1980	22.415	NA NA	22.543	26.790	22.432	21.295	21.947	25.000	26.384	24.800
	22.308			26.794	22.585	21.085				24.800
1981	22.239	NA NA	22.474 22.695	26.797	22.565	21.194	21.713 21.674	25.000	26.160 26.223	24.800
1982								25.000		
1983	22.052	NA	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800
1984	22.010	NA	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800
1985	21.870	NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
1986	21.913	NA	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800
1987	21.922	NA	23.404	26.799	22.381	21.136	21.517	25.000	26.291	24.800
1988	21.823	, NA	23.571	26.799	22.360	ຼ20.900	21.328	25.000	26.299	24.800
1989	21.765	^b 10.391	23.650	26.800	22.347	^d 20.898	21.307	25.000	26.160	24.800
1990	21.822	9.303	23.137	26.799	22.457	20.779	21.197	25.000	26.202	24.800
1991	21.681	10.758	23.114	26.799	22.460	20.730	21.120	25.000	26.188	24.800
1992	21.682	10.396	23.105	26.799	22.250	20.709	21.068	25.000	26.161	24.800
1993	21.418	10.638	22.994	26.800	22.123	20.677	21.010	25.000	26.335	24.800
1994	21.394	11.097	23.112	26.800	22.068	20.589	20.929	25.000	26.329	24.800
1995	21.326	11.722	23.118	26.800	21.950	20.543	20.880	25.000	26.180	24.800
1996	21.322	12.147	23.011	26.800	22.105	20.547	20.870	25.000	26.174	24.800
1997	21.296	12.158	22.494	26.800	22.172	20.518	20.830	25.000	26.251	24.800
1998	21.418	12.639	21.620	27.426	23.164	20.516	20.881	25.000	26.800	24.800
1999	21.070	12.552	23.880	27.426	22.489	20.490	20.818	25.000	26.081	24.800
2000	21.072	12.360	25.020	27.426	22.433	20.511	20.828	25.000	26.117	24.800
2001	^a 20.772	12.169	24.909	27.426	22.622	20.337	20.671	25.000	25.998	24.800
2002	20.673	12.165	22.962	27.426	22.562	20.238	20.541	25.000	26.062	24.800
2003	20.499	12.360	22.242	27.425	22.468	20.082	20.387	25.000	25.972	24.800
2004	20.424	12.266	22.324	27.426	22.473	19.980	20.290	25.000	26.108	24.800
2005	20.348	12.093	22.342	26.279	22.178	19.988	20.246	25.000	25.494	24.800
2006	20.340	12.093	22.066	26.271	22.050	19.931	20.181	25.000	25.453	24.800
2007	20.340	12.090	22.069	26.329	22.371	19.909	20.168	25.000	25.466	24.800
2008	20.208	12.090	21.887	26.281	22.348	19.713	19.977	25.000	25.400	24.800
2009	19.963	12.076	22.059	26.334	21.893	19.521	19.742	25.000	25.633	24.800
2010 2011 ^P	20.173	11.960	21.826	26.296	21.005	19.623	19.832	25.000	25.713	24.800
	20.136	11.604	20.724	26.300	20.588	19.370	19.583	25.000	25.645	24.800
2012 ^E	20.136	11.604	20.724	26.300	20.588	19.370	19.583	25.000	25.645	24.800

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

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/lotalenergy/data/monthly/#appendices.
Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

materials).

b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and b waste coal included in "Consumption."

industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."

^c Includes transportation. Excludes coal synfuel plants.

^d Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the

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

^e Electric power sector factors are for anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and, beginning in 1998, coal synfuel.

P=Preliminary. E=Estimate. NA=Not available.

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

(Btu per Kilowatthour)

		Approximate Heat Rates ^a for Electricity Net Generation								
		Fossil	Fuels ^b		N uclear ^h	Noncombustible				
	Coalc	Petroleum ^d	Natural Gas ^e	Total Fossil Fuels ^{f,g}		Renewable Energy ^{g,i}	Heat Content ^j of Electricity ^k			
1973	NA	NA	NA	10,389	10,903	10,389	3,412			
1974		NA NA	NA NA	10,442	11,161	10,442	3,412			
1975		NA NA	NA NA	10,406	11,013	10,406	3,412			
1976		NA NA	NA NA	10,400	11,013	10,400	3,412			
1977		NA NA	NA NA	10,373	10.769	10,373	3,412			
1978		NA NA	NA NA	10,435	10,769	10,433	3,412			
				- /	- , -	- /	3,412			
1979		NA	NA	10,353	10,879	10,353				
1980		NA	NA	10,388	10,908	10,388	3,412			
1981		NA	NA	10,453	11,030	10,453	3,412			
1982		NA	NA	10,454	11,073	10,454	3,412			
1983		NA	NA	10,520	10,905	10,520	3,412			
1984		NA	NA	10,440	10,843	10,440	3,412			
1985		NA	NA	10,447	10,622	10,447	3,412			
1986		NA	NA	10,446	10,579	10,446	3,412			
1987		NA	NA	10,419	10,442	10,419	3,412			
1988		NA	NA	10,324	10,602	10,324	3,412			
1989		NA	NA	10,432	10,583	10,432	3,412			
1990	NA	NA	NA	10,402	10,582	10,402	3,412			
1991	NA	NA	NA	10,436	10,484	10,436	3,412			
1992	NA	NA	NA	10,342	10,471	10,342	3,412			
1993	NA	NA	NA	10,309	10,504	10,309	3,412			
1994		NA	NA	10,316	10,452	10,316	3,412			
1995		NA	NA	10,312	10.507	10,312	3,412			
1996	NA	NA	NA	10.340	10.503	10.340	3,412			
1997	NA	NA	NA	10,213	10,494	10,213	3,412			
1998	NA	NA	NA	10,197	10,491	10,197	3,412			
1999		NA	NA	10,226	10,450	10,226	3,412			
2000		NA	NA	10,201	10,429	10,201	3,412			
2001		10,742	10,051	b10,333	10,443	10,333	3,412			
2002		10,641	9,533	10,173	10,442	10,173	3,412			
2003		10,610	9.207	10,241	10,421	10,241	3,412			
2004		10,571	8.647	10.022	10,427	10.022	3.412			
2005		10,631	8.551	9.999	10,427	9.999	3,412			
2006		10,809	8.471	9,939	10,436	9.919	3,412			
2007		10,794	8.403	9,884	10,436	9,884	3,412			
		11,015	8,403 8.305	9,854	10,465	9,004 9.854	3,412			
2008			-,	- /	-,	- /	- /			
2009		10,923	8,160	9,760	10,460	9,760	3,412			
2010		10,984 F 10,084	8,185 F 0, 405	9,756 F 0,756	10,452 E 10,452	9,756 F 0,756	3,412			
2011		E 10,984	E 8,185	E 9,756		E 9,756	3,412			
2012	^E 10,415	E 10,984	E 8,185	E 9,756	E 10,452	E 9,756	3,412			

^a The values in columns 1-6 of this table are for net heat rates. See "Heat Rate" in Glossary.

b Through 2000, heat rates are for fossil-fueled steam-electric plants at electric utilities. Beginning in 2001, heat rates are for all fossil-fueled plants at electric utilities and electricity-only independent power producers.

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, Btu data for wood and waste at electric utilities are available from surveys.

h Used as the thermal conversion factor for nuclear electricity net generation.

i Technology-based geothermal heat rates are no longer used in Btu calculations in this report. For technology-based geothermal heat rates for 1960–2010, see the Annual Energy Review 2010, Table A6.

See "Heat Content" in Glossary.

k The value of 3,412 Btu per kilowatthour is a constant. It is used as the thermal conversion factor for electricity retail sales, and electricity imports and exports. E=Estimate. NA=Not Available.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.

Sources: See "Thermal Conversion Factor Source Documentation," which follows this table.

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The U.S. Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Aviation Gasoline. EIA adopted the thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication *Competition and Growth in American Energy Markets* 1947–1985, a 1968 release of historical and projected statistics.

Butane. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane-Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See **Butane** and **Propane**.

Crude Oil Exports. Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See **Crude Oil Production**.

Crude Oil Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil imported weighted by the quantities imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude oil imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content by using National Bureau of Standards, Miscellaneous Publication No. 97, Thermal Properties of Petroleum Products. 1933.

Crude Oil Production. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Distillate Fuel Oil. EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Ethane. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Ethane-Propane Mixture. EIA calculation of 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See **Ethane** and **Propane**.

Isobutane. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics.

Kerosene. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Liquefied Petroleum Gases Consumption. Calculated annually by EIA as the average of the thermal conversion factors for all liquefied petroleum gases consumed (see Table A1) weighted by the quantities consumed. The component products of liquefied petroleum gases are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. For 1973–1980, quantities consumed are from EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1. For 1981 forward, quantities consumed are from EIA, Petroleum Supply Annual, Table 2.

Lubricants. EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Motor Gasoline Consumption. 1973–1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics. 1994 forward: EIA calculated national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (see Table A3). The factor for conventional motor gasoline is 5.253 million Btu per barrel, as used for

previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, "Fuel Economy Impact Analysis of Reformulated Gasoline." See Fuel Ethanol (Denatured).

Natural Gas Plant Liquids Production. Calculated annually by EIA as the average of the thermal conversion factors for each natural gas plant liquid produced weighted by the quantities produced.

Natural Gasoline. EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Pentanes Plus. EIA assumed the thermal conversion factor to be 4.620 million Btu or equal to that for natural gasoline. See **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha less than 401° F. Assumed by EIA to be 5.248 million Btu per barrel, equal to the thermal conversion factor for special naphthas. See **Special Naphthas**.

Petrochemical Feedstocks, Other Oils equal to or greater than 401° F. Assumed by EIA to be 5.825 million Btu per barrel, equal to the thermal conversion factor for distillate fuel oil. See **Distillate Fuel Oil**.

Petrochemical Feedstocks, Still Gas. Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See **Still Gas**.

Petroleum Coke. EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950." The Bureau of Mines calculated this factor by dividing 30.120 million Btu per short ton, as given in the referenced Bureau of Mines internal memorandum, by 5.0 barrels per short ton, as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Petroleum Consumption, Commercial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the commercial sector weighted by the estimated quantities consumed by the commercial sector. The quantities of petroleum products consumed by the commercial sector are estimated in the State Energy Data System—see documentation at

 $http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.$

Petroleum Consumption, Electric Power Sector. Calculated annually by EIA as the average of the thermal

conversion factors for all petroleum products consumed by the electric power sector weighted by the quantities consumed by the electric power sector. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Petroleum Consumption, Industrial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the industrial sector weighted by the estimated quantities consumed by the industrial sector. The quantities of petroleum products consumed by the industrial sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Residential Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential sector weighted by the estimated quantities consumed by the residential sector. The quantities of petroleum products consumed by the residential sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Total. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed weighted by the quantities consumed.

Petroleum Consumption, Transportation Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the transportation sector weighted by the estimated quantities consumed by the transportation sector. The quantities of petroleum products consumed by the transportation sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/states/sep_use/notes/use_petrol.pdf.

Petroleum Products Exports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported weighted by the quantities exported.

Petroleum Products Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantities imported.

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the

Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of asphalt (see **Asphalt**) and was first published by the Bureau of Mines in the *Petroleum Statement*, *Annual*, 1970.

Special Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, which was assumed to be equal to that of the total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement*, *Annual*, 1970.

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel, first published in the *Petroleum Statement*, *Annual*, 1970.

Total Petroleum Exports. Calculated annually by EIA as the average of the thermal conversion factors for crude oil and each petroleum product exported weighted by the quantities exported. See **Crude Oil Exports** and **Petroleum Products Exports**.

Total Petroleum Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil and petroleum product imported weighted by the quantities imported. See **Crude Oil Imports** and **Petroleum Products Imports**.

Unfinished Oils. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see **Distillate Fuel Oil**) and first published it in EIA's *Annual Report to Congress, Volume 3, 1977*.

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for plant condensate (see **Plant Condensate**) and first published it in EIA's *Annual Report to Congress, Volume* 2, 1981.

Waxes. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Approximate Heat Content of Biofuels

Biodiesel. EIA estimated the thermal conversion factor for biodiesel to be 5.359 million Btu per barrel, or 17,253 Btu per pound.

Biodiesel Feedstock. EIA used soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel) as the factor to estimate total biomass inputs to the production of biodiesel. EIA assumed that 7.65 pounds

of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. EIA also assumed that soybean oil has a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel.

Ethanol (Undenatured). EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Fuel Ethanol (Denatured). 1981–2008: EIA used the 2009 factor. 2009 forward: Calculated by EIA as the annual quantity-weighted average of the thermal conversion factors for undenatured ethanol (3.539 million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as denaturant (5.253 million Btu per barrel). The quantity of ethanol consumed is from EIA's Petroleum Supply Annual (PSA) and Petroleum Supply Monthly (PSM), Table 1, data for renewable fuels and oxygenate plant net production of fuel ethanol. The quantity of pentanes plus used as denaturant is from PSA/PSM, Table 1, data for renewable fuels and oxygenate plant net production of pentanes plus, multiplied by -1. The quantity of conventional motor gasoline and motor gasoline blending components used as denaturant is from PSA/PSM, Table 1, data for renewable fuels and oxygenate plant net production of conventional motor gasoline and motor gasoline blending components, multiplied by -1.

Fuel Ethanol Feedstock. EIA used corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol) as the annual factor to estimate total biomass inputs to the production of undenatured ethanol. U.S. Department of Agriculture observed ethanol yields (gallons undenatured ethanol per bushel of corn) were 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; EIA estimated the ethanol yields in other years. EIA also assumed that corn has a gross heat content of 0.392 million Btu per bushel.

Approximate Heat Content of Natural Gas

Natural Gas Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of natural gas consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Natural Gas Consumption, End-Use Sectors. Calculated annually by EIA by dividing the heat content of natural gas consumed by the end-use sectors (residential, commercial,

industrial, and transportation) by the quantity consumed. Data are from Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Natural Gas Consumption, Total. 1973–1979: EIA adopted the thermal conversion factor calculated annually by the American Gas Association (AGA) and published in *Gas Facts*, an AGA annual publication. 1980 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed by the total quantity consumed.

Natural Gas Exports. Calculated annually by EIA by dividing the heat content of natural gas exported by the quantity exported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Imports. Calculated annually by EIA by dividing the heat content of natural gas imported by the quantity imported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Production, Dry. Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed. See **Natural Gas Consumption, Total**.

Natural Gas Production, Marketed. Calculated annually by EIA by dividing the heat content of dry natural gas produced (see Natural Gas Production, Dry) and natural gas plant liquids produced (see Natural Gas Plant Liquids Production) by the total quantity of marketed natural gas produced.

Approximate Heat Content of Coal and Coal Coke

Coal Coke Imports and Exports. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Coal Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of coal consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Industrial Sector, Coke Plants. Calculated annually by EIA by dividing the heat content of coal consumed by coke plants by the quantity consumed. Data are from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants."

Coal Consumption, Industrial Sector, Other. Calculated annually by EIA by dividing the heat content of coal

consumed by manufacturing plants by the quantity consumed. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

Coal Consumption, Residential and Commercial Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the residential and commercial sectors by the quantity consumed. Through 1999, data are from Form EIA-6, "Coal Distribution Report." Beginning in 2000, data are for commercial combined-heat-and-power (CHP) plants from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Total. Calculated annually by EIA by dividing the total heat content of coal consumed by all sectors by the total quantity consumed.

Coal Exports. Calculated annually by EIA by dividing the heat content of steam coal and metallurgical coal exported by the quantity exported. Data are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545."

Coal Imports. Assumed by EIA to be 25.000 million Btu per short ton.

Coal Production. Calculated annually by EIA to balance the heat content of coal supply (production and imports) and the heat content of coal disposition (exports, stock change, and consumption).

Waste Coal Supplied. Calculated annually by EIA by dividing the total heat content of waste coal supplied by the quantity supplied. For 1989–1997, data are from Form EIA-867, "Annual Nonutility Power Producer Report." For 1998–2000, data are from Form EIA-860B, "Annual Electric Generator Report—Nonutility." For 2001 forward, data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants"; Form EIA-923, "Power Plant Operations Report"; and predecessor forms.

Approximate Heat Rates for Electricity

Electricity Net Generation, Coal. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using anthracite, bituminous coal, subbituminous coal, lignite, and beginning in 2002, waste coal and coal synfuel.

Electricity Net Generation, Natural Gas. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using natural gas and supplemental gaseous fuels.

Electricity Net Generation, Noncombustible Renewable Energy. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydro, geothermal, solar thermal, photovoltaic, and wind energy sources. Therefore, EIA calculates a rate factor that is equal to the annual average heat rate factor for fossil-fueled power plants in the United States (see "Electricity Net Generation, Total Fossil Fuels"). By using that factor it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption, such as droughts.

Electricity Net Generation, Nuclear. 1973–1984: Calculated annually by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation were reported on Form FERC-1. "Annual Report of Major Electric Utilities, Licensees, and Others"; Form EIA-412, "Annual Report of Public Electric Utilities"; and predecessor forms. For 1982, the factors were published in EIA, Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215. For 1983 and 1984, the factors were published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 13. 1985 forward: Calculated annually by EIA by using the heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms).

Electricity Net Generation, Petroleum. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.

Electricity Net Generation, Total Fossil Fuels. 1973-1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 9. 1989–2000: Calculated annually by EIA by using the heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels. forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using coal, petroleum, natural gas, and other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels).

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Appendix B

Metric Conversion Factors, Metric Prefixes, and Other Physical Conversion Factors

Data presented in the *Monthly Energy Review* and in other U.S. Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. Customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels \times 42 gallons/barrel = 420 gallons).

Table B1. Metric Conversion Factors

Type of Unit	U.S. Unit		Equivalent in	Metric Units
Mass	1 short ton (2,000 lb)	=	0.907 184 7	metric tons (t)
	1 long ton	=	1.016 047	metric tons (t)
	1 pound (lb)	=	0.453 592 37ª	kilograms (kg)
	1 pound uranium oxide (lb 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 (ft ³)	=	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)	=	2.54 ^a	centimeters (cm)
Area	1 acre	=	0.404 69	hectares (ha)
	1 square mile (mi ²)	=	2.589 988	square kilometers (km²)
	1 square yard (yd²)	=	0.836 127 4	square meters (m²)
	1 square foot (ft²)	=	0.092 903 04°	square meters (m²)
	1 square inch (in²)	=	6.451 6ª	square centimeters (cm ²)
Energy	1 British thermal unit (Btu)°	=	1,055.055 852 62ª	joules (J)
	1 calorie (cal)	=	4.186 8ª	joules (J)
	1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)
Temperature ^d	32 degrees Fahrenheit (°F)	=	O ^a	degrees Celsius (°C)
-	212 degrees Fahrenheit (°F)	=	100°	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	Е	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	Z
10 ²⁴	yotta	Υ	10 ⁻²⁴	yocto	у

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices. Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p.10.

Table B3. Other Physical Conversion Factors

Energy Source	Original Unit		Equivalent in Final Units				
Petroleum	1 barrel (bbl)	=	42ª	U.S. gallons (gal)			
Coal	1 short ton	=	2,000ª	pounds (lb)			
	1 long ton	=	2,240 ^a	pounds (lb)			
	1 metric ton (t)	=	1,000 ^a	kilograms (kg)			
Wood	1 cord (cd)	=	1.25 ^b	shorts tons			
	1 cord (cd)	=	128ª	cubic feet (ft³)			

^aExact conversion.

Source: U.S. Department of Commerce, National Institute of Standards and Technology, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17 and C-21.

^bCalculated by the U.S. Energy Information Administration.

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.

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Glossary

Alcohol: The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a **hydrocarbon** plus a hydroxyl group; CH(3)-(CH(2))_n-OH (e.g., **methanol**, **ethanol**, and tertiary butyl alcohol). See **Fuel Ethanol**.

Alternative Fuel: Alternative fuels, for transportation applications, include the following: methanol; denatured ethanol, and other alcohols; fuel mixtures containing 85 percent or more by volume of methanol, denatured ethanol, and other alcohols with motor gasoline or other fuels; natural gas; liquefied petroleum gas (propane); hydrogen; coal-derived liquid fuels; fuels (other than alcohol) derived from biological materials (biofuels such as soy diesel fuel); electricity (including electricity from solar energy); and "... any other fuel the Secretary determines, by rule, is substantially not petroleum and would yield substantial energy security benefits and substantial environmental benefits." The term "alternative fuel" does not include alcohol or other blended portions of primarily petroleum-based fuels used as oxygenates or extenders, i.e., MTBE, ETBE, other ethers, and the 10-percent ethanol portion of gasohol.

Alternative-Fuel Vehicle (AFV): A vehicle designed to operate on an alternative fuel (e.g., compressed natural gas, methane blend, or electricity). The vehicle could be either a dedicated vehicle designed to operate exclusively on alternative fuel or a nondedicated vehicle designed to operate on alternative fuel and/or a traditional fuel.

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). *Note:* Since the 1980's, anthracite refuse or mine waste has been used for steam-electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Anthropogenic: Made or generated by a human or caused by human activity. The term is used in the context of global **climate change** to refer to gaseous emissions that are the result of human activities, as well as other potentially climate-altering activities, such as deforestation.

Asphalt: A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

Barrel (**Petroleum**): A unit of volume equal to 42 U.S. Gallons.

Base Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

Biodiesel: A fuel typically made from soybean, canola, or other vegetable oils; animal fats; and recycled grease. It can serve as a substitute for **petroleum**-derived **diesel fuel** or **distillate fuel oil**. For U.S. Energy Information Administration reporting, it is a fuel composed of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, designated B100, and meeting the requirements of ASTM (American Society for Testing & Materials) D 6751.

Biofuels: Liquid fuels and blending components produced from **biomass** (plant) feedstocks, used primarily for transportation. See **Biodiesel** and **Fuel Ethanol**.

Biogenic: Produced by biological processes of living organisms. Note: EIA uses the term "biogenic" to refer only to organic nonfossil material of biological origin.

Biomass: Organic non-fossil material of biological origin constituting a **renewable energy** source. See **Biodiesel**,

Biofuels, Biomass Waste, Fuel Ethanol, and Wood and Wood-Derived Fuels.

Biomass Waste: Organic non-fossil material of biological origin that is a byproduct or a discarded product. "Biomass waste" includes municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other biomass solids, liquids, and gases; but excludes wood and wood-derived fuels (including black liquor), biofuels feedstock, biodiesel, and fuel ethanol. Note: EIA "biomass waste" data also include energy crops grown specifically for energy production, which would not normally constitute waste.

Bituminous Coal: A dense coal, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steamelectric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Black Liquor: A byproduct of the paper production process, alkaline spent liquor, that can be used as a source of energy. Alkaline spent liquor is removed from the digesters in the process of chemically pulping wood. After evaporation, the residual "black" liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit). See **Heat Content**.

Btu: See British Thermal Unit.

Btu Conversion Factor: A factor for converting energy data between one unit of measurement and British thermal units (Btu). Btu conversion factors are generally used to convert energy data from physical units of measure (such as barrels, cubic feet, or short tons) into the energy-equivalent measure of Btu. (See http://www.eia.gov/totalenergy/data/monthly/#appendices for further information on Btu conversion factors.)

Butane: A normally gaseous straight-chain or branched-chain hydrocarbon (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams.

Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C_4H_8) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

Carbon Dioxide (CO₂): A colorless, odorless, non-poisonous gas that is a normal part of Earth's atmosphere. Carbon dioxide is a product of **fossil-fuel** combustion as well as other processes. It is considered a **greenhouse gas** as it traps heat (infrared energy) radiated by the Earth into the atmosphere and thereby contributes to the potential for **global warming**. The **global warming potential** (GWP) of other greenhouse gases is measured in relation to that of carbon dioxide, which by international scientific convention is assigned a value of one (1).

Chained Dollars: A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Prior to 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period and is therefore subject to less distortion over time.

CIF: See Cost, Insurance, Freight.

Citygate: A point or measuring station at which a distribution gas utility receives gas from a natural gas pipeline company or transmission system.

Climate Change: A term used to refer to all forms of climatic inconsistency, but especially to significant change from one prevailing climatic condition to another. In some cases, "climate change" has been used synonymously with the term "global warming"; scientists, however, tend to use the term in a wider sense inclusive of natural changes in climate, including climatic cooling.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. See Anthracite, Bituminous Coal, Lignite, Subbituminous Coal, Waste Coal, and Coal Synfuel.

Coal Coke: See Coke, Coal.

Coal Stocks: Coal quantities that are held in storage for future use and disposition. Note: When coal data are collected for a particular reporting period (month, quarter, or year), coal stocks are commonly measured as of the last day of the period.

Coal Synfuel: Coal-based solid fuel that has been processed by a **coal synfuel plant**; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coal Synfuel Plant: A plant engaged in the chemical transformation of **coal** into **coal synfuel**.

Coke, Coal: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000° F so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke (coal) has a heating value of 24.8 million Btu per ton.

Coke, Petroleum: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (42 U.S. gallons each) per short ton. Coke (petroleum) has a heating value of 6.024 million Btu per barrel.

Coking Coal: Bituminous coal suitable for making coke. See **Coke**, **Coal**.

Combined-Heat-and-Power (CHP) Plant: A plant designed to produce both heat and electricity from a single heat source. Note: This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious,

social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the abovementioned commercial establishments. Various EIA programs differ in sectoral coverage-for more information see http://www.eia.gov/neic/datadefinitions/Guideforwebcom.htm. See End-Use Sectors and Energy-Use Sectors.

Completion: The installation of permanent equipment for the production of oil or gas. If a well is equipped to produce only oil or gas from one zone or reservoir, the definition of a well (classified as an oil well or gas well) and the definition of a completion are identical. However, if a well is equipped to produce oil and/or gas separately from more than one reservoir, a well is not synonymous with a completion.

Conventional Gasoline: Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. *Note*: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Conventional Hydroelectric Power: Hydroelectric power generated from flowing water that is not created by **hydroelectric pumped storage**.

Conversion Factor: A factor for converting data between one unit of measurement and another (such as between **short tons** and **British thermal units**, or between **barrels** and gallons). (See http://www.eia.gov/totalenergy/data/monthly/#appendices and http://www.eia.gov/totalenergy/data/monthly/#appendices for further information on conversion factors.) See **Btu Conversion Factor** and **Thermal Conversion Factor**.

Cost, Insurance, Freight (CIF): A sales transaction in which the seller pays for the transportation and insurance of the goods to the port of destination specified by the buyer.

Crude Oil: A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include: 1) small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2) small amounts of nonhydrocarbons produced with the oil, such as sulfur and

various metals; and 3) drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude Oil F.O.B. Price: The crude oil price actually charged at the oil-producing country's port of loading. Includes deductions for any rebates and discounts or additions of premiums, where applicable. It is the actual price paid with no adjustment for credit terms.

Crude Oil (Including Lease Condensate): A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Where identifiable, liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded.

Crude Oil Landed Cost: The price of crude oil at the port of discharge, including charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. The cost does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

Crude Oil Refinery Input: The total crude oil put into processing units at refineries.

Crude Oil Stocks: Stocks of crude oil and lease condensate held at refineries, in pipelines, at pipeline terminals, and on leases.

Crude Oil Used Directly: Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

Crude Oil Well: A well completed for the production of crude oil from one or more oil zones or reservoirs. Wells producing both crude oil and natural gas are classified as oil wells.

Cubic Foot (Natural Gas): A unit of volume equal to 1 cubic foot at a pressure base of 14.73 pounds standard per square inch absolute and a temperature base of 60° F.

Degree-Day Normals: Simple arithmetic averages of monthly or annual degree-days over a long period of time (usually the 30-year period 1961-1990). The averages may be simple degree-day normals or population-weighted degree-day normals.

Degree-Days, Cooling (CDD): A measure of how warm a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the base temperature (65 degrees) from the average of the day's high and low temperatures, with negative values set equal to zero. Each day's cooling degree-days are summed to create a cooling degree-day measure for a specified reference period. Cooling degree-days are used in energy analysis as an indicator of air conditioning energy requirements or use.

Degree-Days, Heating (HDD): A measure of how cold a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the average of the day's high and low temperatures from the base temperature (65 degrees), with negative values set equal to zero. Each day's heating degree-days are summed to create a heating degree-day measure for a specified reference period. Heating degree-days are used in energy analysis as an indicator of space heating energy requirements or use.

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degreeday readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

Denaturant: Petroleum, typically **pentanes plus** or **conventional motor gasoline**, added to **fuel ethanol** to make it unfit for human consumption. Fuel ethanol is denatured, usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent denaturant. See **Fuel Ethanol** and **Fuel Ethanol Minus Denaturant**.

Design Electrical Rating, Net: The nominal net electrical output of a nuclear unit as specified by the electric utility for the purpose of plant design.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Diesel Fuel: A fuel composed of **distillate fuel oils** obtained in petroleum refining operation or blends of such distillate fuel oils with **residual fuel oil** used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

Direct Use: Use of electricity that 1) is self-generated, 2) is produced by either the same entity that consumes the power or an affiliate, and 3) is used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of **station use**.

Distillate Fuel Oil: A general classification for one of the **petroleum** fractions produced in conventional distillation operations. It includes **diesel fuels** and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and **electricity generation**.

Dry Hole: An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Dry Natural Gas Production: See Natural Gas (Dry) **Production**.

E85: A fuel containing a mixture of 85 percent **ethanol** and 15 percent **motor gasoline**.

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-i.e., North American Industry Classification System 22 plants. See also Combined-Heat-and-Power (CHP) Plant, Electricity-Only Plant, Electric Utility, and Independent Power Producer.

Electric Utility: Any entity that generates, transmits, or distributes electricity and recovers the cost of its generation, transmission or distribution assets and operations, either directly or indirectly, through cost-based rates set by a separate regulatory authority (e.g., State Public Service Commission), or is owned by a governmental unit or the consumers that the entity serves. Examples of these entities include: investor-owned entities, public power districts, public utility districts, municipalities, rural electric cooperatives, and State and Federal agencies. Electric utilities may have Federal Energy Regulatory Commission approval for interconnection agreements and wholesale trade tariffs covering either cost-of-service and/or market-based rates

under the authority of the Federal Power Act. See **Electric Power Sector**.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity Generation: The process of producing electric energy, or the amount of electric energy produced by transforming other forms of energy, commonly expressed in **kilowatthours** (kWh) or megawatthours (Mwh).

Electricity Generation, Gross: The total amount of electric energy produced by generating units and measured at the generating terminal in **kilowatthours** (kWh) or megawatthours (MWh).

Electricity Generation, Net: The amount of **gross electricity generation** less **station use** (the **electric energy** consumed at the generating station(s) for station service or auxiliaries). *Note*: Electricity required for pumping at **hydroelectric pumped-storage** plants is regarded as electricity for station service and is deducted from gross generation.

Electricity-Only Plant: A plant designed to produce electricity only. See also **Combined-Heat-and-Power (CHP) Plant**.

Electricity Retail Sales: The amount of electricity sold to customers purchasing electricity for their own use and not for resale.

End-Use Sectors: The **residential**, **commercial**, **industrial**, and **transportation** sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power or as an input in the manufacturing process.

Energy Service Provider: An energy entity that provides service to a retail or end-use customer.

Energy-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and

analyze energy use. The sectors most commonly referred to in EIA are: residential, commercial, industrial, transportation, and electric power.

Ethane: A normally gaseous straight-chain hydrocarbon (C_2H_6) . It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethanol (C_2H_3OH): A clear, colorless, flammable alcohol. Ethanol is typically produced biologically from biomass feedstocks such as agricultural crops and cellulosic residues from agricultural crops or wood. Ethanol can also be produced chemically from ethylene. See Biomass, Fuel Ethanol, and Fuel Ethanol Minus Denaturant.

Ethylene: An olefinic hydrocarbon (C2H4) recovered from refinery processes or petrochemical processes.

Exploratory Well: A well drilled to find and produce oil or gas in an area previously considered an unproductive area, to find a new reservoir in a known field (i.e., one previously found to be producing oil or gas in another reservoir), or to extend the limit of a known oil or gas reservoir.

Exports: Shipments of goods from within the 50 States and the District of Columbia to U.S. possessions and territories or to foreign countries.

Extraction Loss: The reduction in volume of natural gas due to the removal of natural gas liquid constituents, such as ethane, propane, and butane, at natural gas processing plants.

Federal Energy Administration (FEA): A predecessor of the U.S. Energy Information Administration.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the U.S. Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the U.S. Department of Energy was created. Its functions were divided between the U.S. Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

First Purchase Price: The price for domestic crude oil reported by the company that owns the crude oil the first time it is removed from the lease boundary.

Flared Natural Gas: Natural gas burned in flares on the base site or at gas processing plants.

F.O.B. (Free on Board): A sales transaction in which the seller makes the product available for pick up at a specified port or terminal at a specified price and the buyer pays for the subsequent transportation and insurance.

Footage Drilled: Total footage for wells in various categories, as reported for any specified period, includes (1) the deepest total depth (length of well bores) of all wells drilled from the surface, (2) the total of all bypassed footage drilled in connection with reported wells, and (3) all new footage drilled for directional sidetrack wells. Footage reported for directional sidetrack wells does not include footage in the common bore, which is reported as footage for the original well. In the case of old wells drilled deeper, the reported footage is that which was drilled below the total depth of the old well.

Former U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Fossil Fuel: An energy source formed in the Earth's crust from decayed organic material, such as **petroleum**, **coal**, and **natural gas**.

Fossil-Fueled Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Fuel Ethanol: Ethanol intended for fuel use. Fuel ethanol in the United States must be anhydrous (less than 1 percent water). Fuel ethanol is denatured (made unfit for human consumption), usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent petroleum, typically pentanes plus or conventional motor gasoline. Fuel ethanol is used principally for blending in low concentrations with motor gasoline as an oxygenate or octane enhancer. In high concentrations, it is used to fuel alternative-fuel vehicles specially designed for its use. See Alternative-Fuel Vehicle, Denaturant, E85, Ethanol, Fuel Ethanol Minus Denaturant, and Oxygenates.

Fuel Ethanol Minus Denaturant: An unobserved quantity of anhydrous, biomass-derived, undenatured ethanol for fuel use. The quantity is obtained by subtracting the estimated denaturant volume from fuel ethanol volume. Fuel ethanol minus denaturant is counted as renewable energy, while denaturant is counted as nonrenewable fuel. See Denaturant, Ethanol, Fuel Ethanol, Nonrenewable Fuels, Oxygenates, and Renewable Energy.

Full-Power Operation: Operation of a nuclear generating unit at 100 percent of its design capacity. Full-power operation precedes commercial operation.

Gasohol: A blend of finished motor gasoline containing alcohol (generally **ethanol** but sometimes methanol) at a concentration between 5.7 percent and 10 percent by volume. See **Motor Gasoline**, **Oxygenated**.

Gas Well: A well completed for the production of natural gas from one or more gas zones or reservoirs. (Wells producing both crude oil and natural gas are classified as oil wells.)

Geothermal Energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust and used for geothermal heat pumps, water heating, or electricity generation.

Global Warming: An increase in the near-surface temperature of the Earth. Global warming has occurred in the distant past as the result of natural influences, but the term is today most often used to refer to the warming some scientists predict will occur as a result of increased anthropogenic emissions of greenhouse gases. See Climate Change.

Global Warming Potential (GWP): An index used to compare the relative radiative forcing of different gases without directly calculating the changes in atmospheric concentrations. GWPs are calculated as the ratio of the radiative forcing that would result from the emission of one kilogram of a greenhouse gas to that from the emission of one kilogram of carbon dioxide over a fixed period of time, such as 100 years.

Greenhouse Gases: Those gases, such as water vapor, **carbon dioxide**, nitrous oxide, **methane**, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulfur hexafluoride, that are transparent to solar (short-wave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Gross Domestic Product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

GT/IC: Gas turbine and internal combustion plants.

Heat Content: The amount of heat energy available to be released by the transformation or use of a specified physical unit of an energy form (e.g., a ton of coal, a barrel of oil, a kilowatthour of electricity, a cubic foot of natural gas, or a pound of steam). The amount of heat energy is commonly expressed in **British thermal units (Btu)**. *Note*: Heat content of combustible energy forms can be expressed in terms of either gross heat content (higher or upper heating value) or net heat content (lower heating value), depending upon whether or not the available heat energy includes or

excludes the energy used to vaporize water (contained in the original energy form or created during the combustion process). The U.S. Energy Information Administration typically uses gross heat content values.

Heat Rate: A measure of generating station thermal efficiency commonly stated as **Btu** per **kilowatthour**. *Note:* Heat rates can be expressed as either gross or net heat rates, depending whether the electricity output is gross or net generation. Heat rates are typically expressed as net heat rates.

Hydrocarbon: An organic chemical compound of hydrogen and carbon in the gaseous, liquid, or solid phase. The molecular structure of hydrocarbon compounds varies from the simplest (methane, the primary constituent of natural gas) to the very heavy and very complex.

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

Hydroelectric Pumped Storage: Hydroelectricity that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen (H): The lightest of all gases, hydrogen occurs chiefly in combination with oxygen in water. It also exists in acids, bases, **alcohols**, **petroleum**, and other **hydrocarbons**.

Imports: Receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an **electric utility**.

Industrial Sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the

above-mentioned industrial activities. Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebind.htm. See **End-Use Sectors** and **Energy-Use Sectors**.

Injections (Natural Gas): Natural gas injected into storage reservoirs.

Isobutane: A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams. See **Butane**.

Isobutylene: An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isopentane: A saturated branched-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Jet Fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Jet Fuel, Kerosene-Type: A kerosene-based product with a maximum distillation temperature of 400° F at the 10-percent recovery point and a final maximum boiling point of 572° F. Fuel specifications are provided in ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is used primarily for commercial turbojet and turboprop aircraft engines.

Jet Fuel, Naphtha-Type: A fuel in the heavy naphtha boiling range, with an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290° to 470° F and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used by the military for turbojet and turboprop engines.

Kerosene: A petroleum distillate having a maximum distillation temperature of 401° F at the 10-percent recovery point, a final boiling point of 572° F, and a minimum flash point of 100° F. Included are the two grades designated in ASTM D3699 (No. 1-K and No. 2-K) and all grades of kerosene called range or stove oil. Kerosene is used in space heaters, cook stoves, and water heaters; it is suitable for use as an illuminant when burned in wick lamps.

Kilowatt: A unit of electrical power equal to 1,000 watts.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 **kilowatt** (1,000 **watts**) of power expended for 1 hour. One kilowatthour is equivalent to 3,412 Btu. See **Watthour**.

Landed Costs: The dollar-per-barrel price of crude oil at the port of discharge. Included are the charges associated

with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Not included are charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage charges).

Lease and Plant Fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and used as fuel in natural gas processing plants.

Lease Condensate: A mixture consisting primarily of pentanes and heavier hydrocarbons, which is recovered as a liquid from natural gas in lease or field separation facilities. Note: This category excludes natural gas liquids, such as butane and propane, which are recovered at natural gas processing plants or facilities.

Lignite: The lowest rank of **coal**, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Liquefied Natural Gas (LNG): Natural gas (primarily methane) that has been liquefied by reducing its temperature to -260° F at atmospheric pressure.

Liquefied Petroleum Gases (LPG): Ethane, ethylene, propane, propylene, normal butane, butylene, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate new natural gas plant liquids.

Low-Power Testing: The period of time between a nuclear generating unit's initial fuel loading date and the issuance of its operating (full-power) license. The maximum level of operation during that period is 5 percent of the unit's design thermal rating.

Lubricants: Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacturing of other products or as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Excluded are byproducts of lubricating oil refining, such as aromatic extracts derived from solvent extraction or tars derived from deasphalting. Included are all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. Lubricant categories are paraffinic and naphthenic.

Marketed Production (Natural Gas): Gross withdrawals less gas used for repressuring, quantities vented and

flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

Methane: A colorless, flammable, odorless, hydrocarbon gas (CH₄) that is the principal constituent of natural gas. It is also an important source of hydrogen in various industrial processes.

Methyl Tertiary Butyl Ether (MTBE): An ether, $(CH_3)_3COCH_3$, intended for motor gasoline blending. See **Oxygenates**.

Methanol: A light, volatile alcohol (CH₃OH) eligible for motor gasoline blending. See **Oxygenates**.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere-for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline Blending: Mechanical mixing of motor gasoline blending components and oxygenates as required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components: Naphtha (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. *Note*: oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Motor Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in sparkignition. Motor gasoline, as defined in ASTM Specification D-4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122°F to 158°F at the 10-percent recovery point to 365°F to 374°F at the 90-percent recovery point. "Motor gasoline" includes conventional gasoline, all types of oxygenated gasoline including gasohol, and reformulated gasoline, but excludes aviation gasoline. Note: Volumetric data on blending components, as well as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

Motor Gasoline Grades: The classification of gasoline by octane ratings. Each type of gasoline (conventional, oxygenated, and reformulated) is classified by three

grades: regular, midgrade, and premium. *Note*: Gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades may be 2 or more octane points lower.

Regular Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 85 and less than 88. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Midgrade Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 88 and less than or equal to 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Premium Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Motor Gasoline, Oxygenated: Finished motor gasoline, other than reformulated gasoline, having an oxygen content of 2.7 percent or higher by weight and required by the U.S. Environmental Protection Agency (EPA) to be sold in areas designated by EPA as carbon monoxide (CO) nonattainment areas. Note: Oxygenated gasoline excludes oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB). Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside CO nonattainment areas are included in data on oxygenated gasoline. Other data on gasohol are included in data on conventional gasoline.

Motor Gasoline, Reformulated: Finished motor gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Note: This category includes oxygenated fuels program reformulated gasoline (OPRG) but excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Motor Gasoline Retail Prices: Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). Those prices are collected in 85 urban areas selected to represent all urban consumers-about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-service.

Motor Gasoline (Total): For stock level data, a sum including finished motor gasoline stocks plus stocks of

motor gasoline blending components but excluding stocks of oxygenates.

MTBE: See Methyl Tertiary Butyl Ether.

NAICS (North American Industry Classification System): A coding system developed jointly by the United States, Canada, and Mexico to classify businesses and industries according to the type of economic activity in which they are engaged. NAICS replaces the Standard Industrial Classification (SIC) codes. For additional information on NAICS, go to

http://www.census.gov/eos/www/naics/.

Naphtha: A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400° F.

Natural Gas: A gaseous mixture of hydrocarbon compounds, primarily methane, used as a fuel for electricity generation and in a variety of ways in buildings, and as raw material input and fuel for industrial processes.

Natural Gas, Dry: Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. *Note:* Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Natural Gas (Dry) Production: The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at the production site include 1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and 2) gas vented and flared. Processing losses include 1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and 2) gas converted to liquid form, such as lease condensate and plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals marketed production less extraction loss.

Natural Gas Marketed Production: Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring; nonhydrocarbon gases removed in treating and processing operations; and quantities vented and flared.

Natural Gas Plant Liquids (NGPL): Natural gas liquids recovered from natural gas in processing plants and, in some situations, from natural gas field facilities, as well as those extracted by fractionators. Natural gas plant

liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Material as follows: ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e., products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gas Wellhead Price: The wellhead price of natural gas is calculated by dividing the total reported value at the wellhead by the total quantity produced as reported by the appropriate agencies of individual producing States and the U.S. Minerals Management Service. The price includes all costs prior to shipment from the lease, including gathering and compression costs, in addition to State production, severance, and similar charges.

Natural Gasoline: A mixture of hydrocarbons (mostly pentanes and heavier) extracted from natural gas that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane, which is a saturated branch-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Summer Capacity: The maximum output, commonly expressed in **kilowatts** (kW) or megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of June 1 through September 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Neutral Zone: A 6,200 square-mile area shared equally between Kuwait and Saudi Arabia under a 1992 agreement. The Neutral Zone contains an estimated 5 billion barrels of oil and 8 trillion cubic feet of natural gas.

Nominal Dollars: A measure used to express **nominal price**.

Nominal Price: The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

Non-Biomass Waste: Material of non-biological origin that is a byproduct or a discarded product. "Non-biomass waste" includes municipal solid waste from non-biogenic sources, such as plastics, and tire-derived fuels.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

Nonrenewable Fuels: Fuels that cannot be easily made or "renewed," such as **crude oil**, **natural gas**, and **coal**.

Nuclear Electric Power (Nuclear Power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

Nuclear Electric Power Plant: A single-unit or multiunit facility in which heat produced in one or more reactors by the fissioning of nuclear fuel is used to drive one or more steam turbines.

Nuclear Reactor: An apparatus in which a nuclear fission chain reaction can be initiated, controlled, and sustained at a specific rate. A reactor includes fuel (fissionable material), moderating material to control the rate of fission, a heavy-walled pressure vessel to house reactor components, shielding to protect personnel, a system to conduct heat away from the reactor, and instrumentation for monitoring and controlling the reactor's systems.

OECD: See Organization for Economic Cooperation and Development.

Offshore: That geographic area that lies seaward of the coastline. In general, the coastline is the line of ordinary low water along with that portion of the coast that is in direct contact with the open sea or the line marking the seaward limit of inland water.

Oil: See Crude Oil.

OPEC: See **Organization of the Petroleum Exporting Countries.**

Operable Unit (Nuclear): In the United States, a nuclear generating unit that has completed low-power testing and been issued a full-power operating license by the Nuclear Regulatory Commission, or equivalent permission to operate.

Organization for Economic Cooperation and Development (OECD): An international organization helping governments tackle the economic, social and governance challenges of a globalized economy. Its membership comprises about 30 member countries. With active relationships with some 70 other countries, non-governmental organizations (NGOs) and civil society, it has a global reach. For details about the organization, see http://www.oecd.org.

Organization of the Petroleum Exporting Countries (**OPEC**): An intergovernmental organization whose stated objective is to "coordinate and unify the petroleum policies of member countries." It was created at the Baghdad Conference on September 10–14, 1960. Current members (with years of membership) include Algeria (1969–present), Angola (2007–present), Ecuador (1973–1992 and 2007–present), Iran (1960–present), Iraq (1960–present), Kuwait (1960–present), Libya (1962–present), Nigeria

(1971–present), Qatar (1961–present), Saudi Arabia (1960–present), United Arab Emirates (1967–present), and Venezuela (1960–present). Countries no longer members of OPEC include Gabon (1975–1994) and Indonesia (1962–2008).

Oxygenates: Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum Coke: See Coke, Petroleum.

Petroleum Consumption: See **Products Supplied** (Petroleum).

Petroleum Imports: Imports of petroleum into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. territories and possessions. Included are imports for the Strategic Petroleum Reserve and withdrawals from bonded warehouses for onshore consumption, offshore bunker use, and military use. Excluded are receipts of foreign petroleum into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas,

lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Stocks, Primary: For individual products, quantities that are held at refineries, in pipelines, and at bulk terminals that have a capacity of 50,000 barrels or more, or that are in transit thereto. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but are included in other oils estimates and total.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquid at gas inlet separators or scrubbers in processing plants.

Primary Energy: Energy in the form that it is first accounted for in a statistical energy balance, before any transformation to secondary or tertiary forms of energy. For example, **coal** can be converted to synthetic gas, which can be converted to **electricity**; in this example, coal is primary energy, synthetic gas is secondary energy, and electricity is tertiary energy. See **Primary Energy Production** and **Primary Energy Consumption**.

Primary Energy Consumption: Consumption of primary energy. (Energy sources that are produced from other energy sources-e.g., coal coke from coal-are included in primary energy consumption only if their energy content has not already been included as part of the original energy source. Thus, U.S. primary energy consumption does include net imports of coal coke, but not the coal coke produced from domestic coal.) The U.S. Energy Information Administration includes the following in U.S. primary energy consumption: coal consumption; coal coke net imports; petroleum consumption (petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel); dry natural gas-excluding supplemental gaseous fuels—consumption; nuclear electricity net generation (converted to **Btu** using the nuclear plants **heat rate**); hydroelectricity conventional net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the geothermal plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste consumption; fuel ethanol and biodiesel consumption; losses and co-products from the production of fuel ethanol and biodiesel; and electricity net imports (converted to Btu using the electricity heat content of 3,412 Btu per kilowatthour). See Total Energy Consumption.

Primary Energy Production: Production of primary The U.S. Energy Information Administration includes the following in U.S. primary energy production: coal production, waste coal supplied, and coal refuse recovery; crude oil and lease condensate production; natural gas plant liquids production; dry natural gas-excluding supplemental gaseous fuels-production; nuclear electricity net generation (converted to Btu using the nuclear plants heat rate); conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the geothermal plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste consumption; and biofuels feedstock.

Prime Mover: The engine, turbine, water wheel, or similar machine that drives an electric generator; or, for reporting purposes, a device that converts energy to electricity directly.

Products Supplied (Petroleum): Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

Propane: A normally gaseous straight-chain hydrocarbon (C_3H_8). It is a colorless paraffinic gas that boils at a temperature of -43.67° F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene: An olefinic hydrocarbon (C_3H_6) recovered from refinery or petrochemical processes.

Real Dollars: These are dollars that have been adjusted for inflation. See **Real Price**.

Real Price: A price that has been adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices, which are expressed in constant dollars, usually reflect buying power relative to a base year.

Refiner Acquisition Cost of Crude Oil: The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Refinery and Blender Net Inputs: Raw materials, unfinished oils, and blending components processed at refineries, or blended at refineries or petroleum storage terminals to produce finished petroleum products. Included are gross inputs of crude oil, natural gas plant liquids, other hydrocarbon raw materials, hydrogen, oxygenates (excluding fuel ethanol), and renewable fuels (including fuel ethanol). Also included are net inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components. Net inputs are calculated as gross inputs minus gross production. Negative net inputs indicate gross inputs are less than gross production. Examples of negative net inputs include reformulated gasoline blendstock for oxygenate blending (RBOB) produced at refineries for shipment to blending terminals, and unfinished oils produced and added to inventory in advance of scheduled maintenance of a refinery crude oil distillation unit.

Refinery and Blender Net Production: Liquefied refinery gases, and finished petroleum products produced at a refinery or petroleum storage terminal blending facility. Net production equals gross production minus gross inputs. Negative net production indicates gross production is less than gross inputs for a finished petroleum product. Examples of negative net production include reclassification of one finished product to another finished product, or reclassification of a finished product to unfinished oils or blending components.

Refinery (Petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Refuse Mine: A surface site where **coal** is recovered from previously mined coal. It may also be known as a silt bank, culm bank, refuse bank, slurry dam, or dredge operation.

Refuse Recovery: The recapture of **coal** from a **refuse mine** or the coal recaptured by that process. The resulting product has been cleaned to reduce the concentration of noncombustible materials.

Renewable Energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, the **fossil fuels**, of which there is a finite supply). Renewable sources of energy include **conventional hydrolectric power**, **biomass**, **geothermal**, **solar**, and **wind**.

Repressuring: The injection of a pressurized fluid (such as air, gas, or water) into oil and gas reservoir formations to effect greater ultimate recovery.

Residential Sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. *Note:* Various EIA programs differ in sectoral coverage for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebres.htm. See **End-Use Sectors** and **Energy-Use Sectors**.

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC (Standard Industrial Classification): A set of codes developed by the U.S. Office of Management and Budget which categorizes industries into groups with similar economic activities. Replaced by NAICS (North American Industry Classification System).

Solar Energy: See **Solar Thermal Energy** and **Photovoltaic Energy**.

Solar Thermal Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or **electricity**.

Special Naphthas: All finished products within the naphtha boiling ranges that are used as paint thinner, cleaners or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Station Use: Energy that is used to operate an **electric power plant**. It includes energy consumed for plant lighting, power, and auxiliary facilities, regardless of whether the energy is produced at the plant or comes from another source.

Steam Coal: All nonmetallurgical coal.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas (Refinery Gas): Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and, petrochemical feedstock.

Stocks: See Coal Stocks, Crude Oil Stocks, or Petroleum Stocks, Primary.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Subbituminous Coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Supplemental Gaseous Fuels: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): (Also referred to as substitute natural gas) A manufactured product, chemically similar in most respects to **natural gas**, resulting from the conversion or reforming of **hydrocarbons** that may easily be substituted for or interchanged with pipeline-quality natural gas.

Thermal Conversion Factor: A factor for converting data between physical units of measure (such as barrels, cubic feet, or short tons) and thermal units of measure (such as British thermal units, calories, or joules); or for converting data between different thermal units of measure. See Btu Conversion Factor.

Total Energy Consumption: Primary energy consumption in the end-use sectors, plus electricity retail sales and electrical system energy losses.

Transportation Sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. Note: Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebtrans.htm See End-Use Sectors and Energy-Use Sectors.

Underground Storage: The storage of natural gas in underground reservoirs at a different location from which it was produced.

Unfinished Oils: All oils requiring further refinery processing except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Stream: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

Union of Soviet Socialist Republics (U.S.S.R.): A political entity that consisted of 15 constituent republics: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. The U.S.S.R. ceased to exist as of December 31, 1991.

United States: The 50 States and the District of Columbia. Note: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 States and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term "United States."

Useful Thermal Output: The thermal energy made available in a combined-heat-and-power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Vented Natural Gas: Gas released into the air on the production site or at processing plants.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Coal: Usable material that is a byproduct of previous **coal** processing operations. Waste coal is usually composed of mixed coal, soil, and rock (mine waste). Most waste coal is burned as-is in unconventional fluidized-bed combustors. For some uses, waste coal may be partially cleaned by removing some extraneous noncombustible constituents. Examples of waste coal include fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste.

Waste: See Biomass Waste and Non-Biomass Waste.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Waxes: Solid or semisolid material derived from petroleum distillates or residues. Waxes are light-colored, more or less translucent crystalline masses, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Included are all marketable waxes, whether crude scale or fully refined. Waxes are used primarily as industrial coating for surface protection.

Wellhead Price: The value of crude oil or natural gas at the mouth of the well.

Wind Energy: Kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.

Wood and Wood-Derived Fuels: Wood and products derived from wood that are used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, paper pellets, railroad ties, utility poles, black liquor, red liquor, sludge wood, spent sulfite liquor, and other wood-based solids and liquids.

Working Gas: The volume of gas in a reservoir that is in addition to the base gas. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.