January 2013 Monthly Energy Review





Independent Statistics & Analysis U.S. Energy Information Administration

www.eia.gov/mer

Monthly Energy Review

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

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

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

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

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

Important Notes About the Data

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

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

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

Electronic Access

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

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

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

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

Monthly Energy Review January 2013

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

This report was prepared by the U.S. Energy Information Administration (EIA), the statistical and analytical agency within the U.S. Department of Energy. By law, EIA's data, analyses, and forecasts are independent of approval by any other officer or employee of the United States Government. The views in this report therefore should not be construed as representing those of the Department of Energy or other Federal agencies.

Contacts

The *Monthly Energy Review* is prepared by the U.S. Energy Information Administration, Office of Energy Statistics, Office of Survey Development and Statistical Integration, Integrated Energy Statistics Team, under the direction of Barbara T. Fichman, 202-586-5737 (barbara.fichman@eia.gov). Questions and comments specifically related to the *Monthly Energy Review* may be addressed to Alexander Sun, 202-287-5948 (alexander.sun@eia.gov).

For assistance in acquiring data, please contact EIA's Office of Communications at 202-586-8800 (infoctr@eia.gov). Questions about the collection, processing, or interpretation of the information may be directed to the following subject specialists:

Section	1.	Energy Overview	Dianne R. Dunn	202-586-2792 dianne.dunn@eia.gov
Section	2.	Energy Consumption by Sector	Dianne R. Dunn	202-586-2792 dianne.dunn@eia.gov
Section	3.	Petroleum	Jennifer Barrick	202-586-6254 jennifer.barrick@eia.gov
Section	4.	Natural Gas	Amy Sweeney	202-586-2627 amy.sweeney@eia.gov
Section	5.	Crude Oil and Natural Gas Resource Development	Robert F. King	202-586-4787 robert.king@eia.gov
Section	6.	Coal		202-287-6326 nicholas.paduano@eia.gov
Section	7.	Electricity	Ronald S. Hankey	202-586-2630 ronald.hankey@eia.gov
Section	8.	Nuclear Energy	Michael P. Mobilia	202-287-6318 michael.mobilia@eia.gov
Section	9.	Energy Prices		
Section	9.	Energy Prices Petroleum	Maureen Klein	202-586-8013 maureen.klein@eia.gov
Section	9.			
Section	9.	Petroleum	Amy Sweeney Charlene Harris-Russel	maureen.klein@eia.gov 202-586-2627 amy.sweeney@eia.gov
Section	9.	Petroleum	Amy Sweeney Charlene Harris-Russel charl .Rebecca Peterson	maureen.klein@eia.gov 202-586-2627 amy.sweeney@eia.gov 1 202-586-2661
Section		Petroleum Natural Gas Average Retail Prices of Electricity	Amy Sweeney Charlene Harris-Russel charl .Rebecca Peterson Gwendolyn Bredehoeft	maureen.klein@eia.gov 202-586-2627 amy.sweeney@eia.gov ll 202-586-2661 ene.harris-russell@eia.gov 202-586-4509 rebecca.peterson@eia.gov
	10.	Petroleum Natural Gas Average Retail Prices of Electricity Cost of Fuel at Electric Generating Plants	Amy Sweeney Charlene Harris-Russel charl Rebecca Peterson Gwendolyn Bredehoeft gwen	maureen.klein@eia.gov 202-586-2627 amy.sweeney@eia.gov ll 202-586-2661 ene.harris-russell@eia.gov 202-586-4509 rebecca.peterson@eia.gov

Contents

Section	1.	Energy Overview
Section	2.	Energy Consumption by Sector
Section	3.	Petroleum
Section	4.	Natural Gas
Section	5.	Crude Oil and Natural Gas Resource Development
Section	6.	Coal
Section	7.	Electricity
Section	8.	Nuclear Energy
Section	9.	Energy Prices
Section	10.	Renewable Energy 135
Section	11.	International Petroleum
Section	12.	Environment
Appendix	A.	British Thermal Unit Conversion Factors
Appendix	B.	Metric Conversion Factors, Metric Prefixes, and Other
		Physical Conversion Factors
Glossary		

Tables

Section	1.	Energy Overview	
1.1		Primary Energy Overview.	. 3
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.	
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 Mileage, Fuel Consumption, and Fuel Economy.	
1.9		Heating Degree-Days by Census Division.	
1.10		Cooling Degree-Days by Census Division.	
1.10			1)
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.	
2.3		Industrial Sector Energy Consumption.	
2.5		Transportation Sector Energy Consumption.	
2.6		Electric Power Sector Energy Consumption.	
2.0		Electric Fower Sector Energy consumption.	55
Section	3.	Petroleum	
3.1		Petroleum Overview	37
3.2		Refinery and Blender Net Inputs and Net Production.	39
3.3		Petroleum Trade	
		3.3a Overview	41
		3.3b Imports and Exports by Type.	
		3.3c Imports From OPEC Countries.	
		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.	
3.7		Petroleum Consumption	51
5.1		3.7a Residential and Commercial Sectors.	53
		3.7b Industrial Sector.	
		3.7c Transportation and Electric Power Sectors.	
3.8		Heat Content of Petroleum Consumption	55
5.0		3.8a Residential and Commercial Sectors.	57
		3.8b Industrial Sector.	
		3.8c Transportation and Electric Power Sectors.	
		5.8e Transportation and Electric Fower Sectors	59
Section	4.	Natural Gas	
4.1		Natural Gas Overview.	69
4.2		Natural Gas Trade by Country	
4.3		Natural Gas Consumption by Sector.	
4.4		Natural Gas in Underground Storage.	
т.т			, 4
Section	5.	Crude Oil and Natural Gas Resource Development	
5.1		Crude Oil and Natural Gas Drilling Activity Measurements.	
5.2		Crude Oil and Natural Gas Exploratory and Development Wells.	78

Tables

Section	6.	Coal	
6.1		Coal Overview	. 83
6.2		Coal Consumption by Sector.	
6.3		Coal Stocks by Sector.	
0.5			. 85
	7.	Electricity	
7.1		Electricity Overview.	. 93
7.2		Electricity Net Generation	
		7.2a Total (All Sectors).	. 95
		7.2b Electric Power Sector.	. 96
		7.2c Commercial and Industrial Sectors.	. 97
7.3		Consumption of Combustible Fuels for Electricity Generation	
7.5		7.3a Total (All Sectors).	90
		7.3b Electric Power Sector.	
7.4		7.3c Commercial and Industrial Sectors (Selected Fuels).	101
7.4		Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output	
		7.4a Total (All Sectors).	
		7.4b Electric Power Sector.	104
		7.4c Commercial and Industrial Sectors (Selected Fuels).	105
7.5		Stocks of Coal and Petroleum: Electric Power Sector.	107
7.6		Electricity End Use.	109
Section 8.1	8.	Nuclear Energy Nuclear Energy Overview	115
			115
Section	9.	Energy Prices	
9.1		Crude Oil Price Summary.	119
9.2		F.O.B. Costs of Crude Oil Imports From Selected Countries.	120
9.3		Landed Costs of Crude Oil Imports From Selected Countries.	121
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		Average Retail Prices of Electricity.	
0.0			
9.9		Cost of Fossil-Fuel Receipts at Electric Generating Plants.	129
9.9 9.10			129
	10.	Cost of Fossil-Fuel Receipts at Electric Generating Plants	129 131
9.10	10.	Cost of Fossil-Fuel Receipts at Electric Generating Plants.	129 131
9.10 Section	10.	Cost of Fossil-Fuel Receipts at Electric Generating Plants	129 131
9.10 Section 10.1	10.	Cost of Fossil-Fuel Receipts at Electric Generating Plants	129 131 137
9.10 Section 10.1	10.	Cost of Fossil-Fuel Receipts at Electric Generating Plants	129 131 137 138
9.10 Section 10.1	10.	Cost of Fossil-Fuel Receipts at Electric Generating Plants	129 131 137 138 139
9.10 Section 10.1 10.2	10.	Cost of Fossil-Fuel Receipts at Electric Generating Plants. Natural Gas Prices. Renewable Energy Renewable Energy Production and Consumption by Source. Renewable Energy Consumption 10.2a Residential and Commercial Sectors. 10.2b Industrial and Transportation Sectors. 10.2c Electric Power Sector	129 131 137 138 139 140
9.10 Section 10.1 10.2	10.	Cost of Fossil-Fuel Receipts at Electric Generating Plants. Natural Gas Prices. Renewable Energy Renewable Energy Production and Consumption by Source. Renewable Energy Consumption 10.2a Residential and Commercial Sectors. 10.2b Industrial and Transportation Sectors. 10.2c Electric Power Sector. Fuel Ethanol Overview.	129 131 137 138 139 140 141
9.10 Section 10.1 10.2	10.	Cost of Fossil-Fuel Receipts at Electric Generating Plants. Natural Gas Prices. Renewable Energy Renewable Energy Production and Consumption by Source. Renewable Energy Consumption 10.2a Residential and Commercial Sectors. 10.2b Industrial and Transportation Sectors. 10.2c Electric Power Sector	129 131 137 138 139 140

Tables

Page

Section 11. International Petroleum

11.1	World Crude Oil Production	
	11.1a OPEC Members.	150
	11.1b Persian Gulf Nations, Non-OPEC, and World.	151
11.2	Petroleum Consumption in OECD Countries.	153
11.3	Petroleum Stocks in OECD Countries.	155

Section 12. Environment

12.1	Carbon Dioxide Emissions From Energy Consumption by Source	159
12.2	Carbon Dioxide Emissions From Energy Consumption: Residential Sector	161
12.3	Carbon Dioxide Emissions From Energy Consumption: Commercial Sector.	162
12.4	Carbon Dioxide Emissions From Energy Consumption: Industrial Sector	163
12.5	Carbon Dioxide Emissions From Energy Consumption: Transportation Sector	164
12.6	Carbon Dioxide Emissions From Energy Consumption: Electric Power Sector.	165
12.7	Carbon Dioxide Emissions From Biomass Energy Consumption	166

Appendix A. British Thermal Unit Conversion Factors

A1.	Approximate Heat Content of Petroleum Products	171
A2.	Approximate Heat Content of Petroleum Production, Imports, and Exports.	172
A3.	Approximate Heat Content of Petroleum Consumption and Biofuels Production.	173
A4.	Approximate Heat Content of Natural Gas.	174
A5.	Approximate Heat Content of Coal and Coal Coke.	175
A6.	Approximate Heat Rates for Electricity, and Heat Content of Electricity.	176

Appendix B. Metric Conversion Factors, Metric Prefixes, and Other Physical Conversion Factors

B1.	Metric Conversion Factors.	184
B2.	Metric Prefixes.	185
B3.	Other Physical Conversion Factors.	185

Figures

Section 1.1 1.2 1.3 1.4a 1.4b 1.5 1.6 1.7 1.8	1.	Energy Overview Primary Energy Overview. Primary Energy Production. Primary Energy Consumption. Primary Energy Imports and Exports. Primary Energy Net Imports. Merchandise Trade Value. Cost of Fuels to End Users in Real (1982-1984) Dollars. Primary Energy Consumption per Real Dollar of Gross Domestic Product. Motor Vehicle Fuel Economy.	. 4 . 6 . 9 . 9 . 12 . 14 . 16
Section	2.	Energy Consumption by Sector	
2.1		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
Section	2	Petroleum	
3.1	5.	Petroleum Overview	26
3.1		Refinery and Blender Net Inputs and Net Production.	
3.2		Petroleum Trade	50
5.5		3.3a Overview	40
		3.3b Imports.	
3.4		Petroleum Stocks.	
3.4		Petroleum Products Supplied by Type.	
3.6		Heat Content of Petroleum Products Supplied by Type.	
3.0 3.7		Petroleum Consumption by Sector.	
3.7		Heat Content of Petroleum Consumption by Sector, Selected Products	
5.8		Theat Content of Teuroreum Consumption by Sector, Selected Troducts	50
Section	4.	Natural Gas	
4.1		Natural Gas.	68
Section	5.	Crude Oil and Natural Gas Resource Development	
5.1		Crude Oil and Natural Gas Resource Development Indicators	76
Section	6	Coal	
6.1	••	Coal	82
0.1			-0
Section	7.	Electricity	
7.1		Electricity Overview.	92
7.2		Electricity Net Generation.	94
7.3		Consumption of Selected Combustible Fuels for Electricity Generation.	98
7.4		Consumption of Selected Combustible Fuels for Electricity Generation and	
		T	02
7.5			06
7.6		Electricity End Use	08
Section	8.	Nuclear Energy	14
8.1		Nuclear Energy Overview 1	14

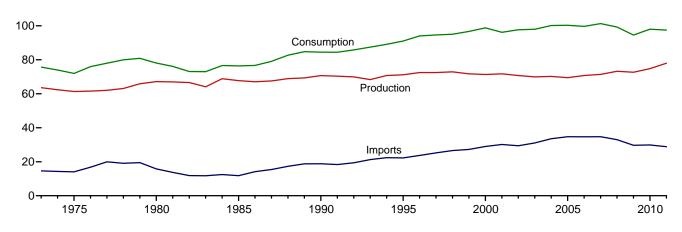
Figures

Section	0	Energy Prices	
9.1).	Petroleum Prices.	118
9.2		Average Retail Prices of Electricity.	126
9.3		Cost of Fossil-Fuel Receipts at Electric Generating Plants.	
9.4		Natural Gas Prices.	
Section	10.	Renewable Energy	
10.1		Renewable Energy Consumption.	136
Sectionr	11.	International Petroleum	
11.1		World Crude Oil Production	
		11.1a Overview	. 148
		11.1b By Selected Country.	149
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	

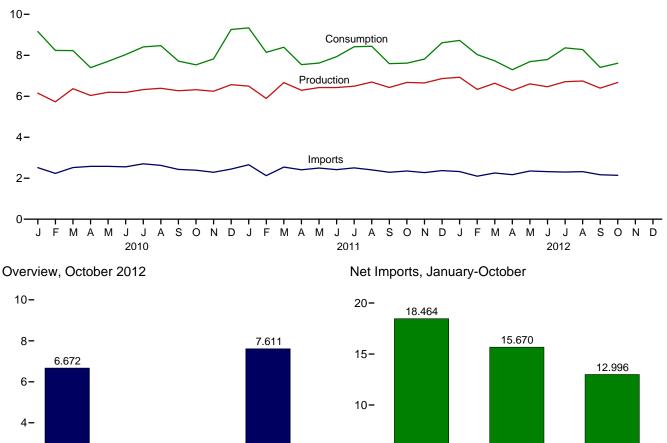
1. Energy Overview

Figure 1.1 Primary Energy Overview (Quadrillion Btu)

Consumption, Production, and Imports, 1973-2011 120-



Consumption, Production, and Imports, Monthly



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

0.955

Exports

Consumption

2.144

Imports

5-

0.

2010

2011

2012

2-

0

Production

Table 1.1 Primary Energy Overview

(Quadrillion Btu)

		Produ	iction			Trade		01.1	Consumption				
	Fossil Fuels ^a	Nuclear Electric Power	Renew- able Energy ^b	Total	Imports	Exports	Net Imports ^c	Stock Change and Other ^d	Fossil Fuels ^e	Nuclear Electric Power	Renew- able Energy ^b	Total ^f	
1072 Total	59 244	0.010	4 444	63 563	44 642	2 022	40 590	0.450	70 244	0.010	4 44 4	75 694	
1973 Total 1975 Total		0.910 1.900	4.411 4.687	63.563 61.320	14.613 14.032	2.033 2.323	12.580 11.709	-0.459 -1.065	70.314 65.357	0.910 1.900	4.411 4.687	75.684 71.965	
1980 Total		2.739	5.428	67.175	15.796	3.695	12.101	-1.210	69.828	2.739	5.428	78.067	
1985 Total		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 4.299	20.701	1.429 140	80.873	6.597	7.016	94.602	
1998 Total 1999 Total	59.314 57.614	7.068 7.610	6.494 6.517	72.876 71.742	26.581 27.252	4.299	22.281 23.537	1.372	81.369 82.427	7.068 7.610	6.493 6.516	95.018 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		8.145	5.734	70.713	29.408	3.669	25.739	1.193	83.699	8.145	5.729	97.645	
2003 Total	56.022	7.959	5.947	69.927	31.061	4.054	27.007	1.009	84.014	7.959	5.948	97.943	
2004 Total	55.930	8.222	6.069	70.220	33.544	4.434	29.110	.830	85.819	8.222	6.081	100.160	
2005 Total	55.053	8.161	6.229	69.443	34.709	4.560	30.149	.689	85.794	8.161	6.242	100.282	
2006 Total 2007 Total		8.215 8.455	6.599 6.509	70.754 71.400	34.679 34.703	4.872 5.482	29.806 29.221	930 .675	84.702 86.211	8.215 8.455	6.649 6.523	99.629 101.296	
2007 Total		8.435	7.202	73.217	32.992	7.060	25.932	.075	83.549	8.435	7.186	99.275	
2009 Total	56.669	8.356	7.616	72.641	29.706	6.965	22.741	822	78.488	8.356	7.600	94.559	
2010 January	^R 4.721	.758	.672	^R 6.151	2.516	.590	1.926	^R 1.082	^R 7.725	.758	.662	^R 9.160	
February	^R 4.437	.682	.610	^R 5.730	2.237	.556	1.681	^R .827	^R 6.940	.682	.605	^R 8.238	
March	^R 5.013	.676	.682	^R 6.371	2.519	.654	1.865	^R 005	^R 6.872	.676	.673	^R 8.231	
April	^R 4.777	.602	.661	^R 6.040	2.580	.686	1.894	^R 536	^R 6.129	.602	.657	^R 7.397	
May		.697	.717	^R 6.196	2.578	.704	1.874	^R 367	^R 6.288	.697	.715	^R 7.704	
June		.714	.753	^R 6.188	2.556	.684	1.872	^R 026 ^R .090	^R 6.556 ^R 6.946	.714	.755	^R 8.034 ^R 8.409	
July August		.752 .748	.701 .662	^R 6.329 ^R 6.391	2.705 2.627	.716 .698	1.989 1.929	R.090	^R 7.056	.752 .748	.701 .660	^R 8.409	
September		.740	.626	^R 6.268	2.431	.675	1.757	^R 305	^R 6.370	.740	.622	^R 7.719	
October		.656	.646	^R 6.320	2.390	.714	1.676	^R 461	^R 6.234	.656	.643	^R 7.535	
November		.655	.682	^R 6.244	2.289	.760	1.529	R.051	^R 6.491	.655	.676	^R 7.825	
December	^R 5.071	.770	.726	^R 6.566	2.447	.797	1.650	^R 1.044	^R 7.761	.770	.720	^R 9.260	
Total	^R 58.224	8.434	8.136	^R 74.795	29.877	8.234	21.643	^R 1.544	^R 81.369	8.434	8.090	^R 97.982	
2011 January	^R 4.986	.761	.747	^R 6.494	^R 2.656	.841	^R 1.815	^R 1.027	^R 7.835	.761	.731	^R 9.337	
February		.678	.710	^R 5.894	R 2.126	.759	R 1.367	R.883	^R 6.754	.678	.703	^R 8.143	
March		.687 .571	.816 .813	^R 6.665 ^R 6.293	^R 2.545 ^R 2.411	.880 .878	^R 1.664 ^R 1.533	^R .063 ^R 280	^R 6.892 ^R 6.164	.687 .571	.805 .804	^R 8.393 ^R 7.546	
April May		.571	.832	^R 6.427	2.497	.847	^R 1.651	^R 457	^R 6.185	.571	.826	^R 7.620	
June		.683	.824	^R 6.424	R 2.418	.818	R 1.600	R090	^R 6.416	.683	.824	^R 7.934	
July		.757	.792	^R 6.490	2 505	.854	^R 1.652	^R .275	^R 6.861	.757	.782	^R 8.417	
August	^R 5.208	.746	.742	^R 6.696	^R 2.406	.879	^R 1.527	^R .216	^R 6.935	.746	.741	^R 8.439	
September	^R 5.054	.700	.677	^R 6.431	^R 2.292	.892	^R 1.400	^R 237	^R 6.214	.700	.670	^R 7.594	
October	^R 5.303	.663	.708	^R 6.674	R 2.352	.891	^R 1.461	^R 518	^R 6.246	.663	.699	^R 7.617	
November	^R 5.239 ^R 5.339	.675	.738 .770	^R 6.651 ^R 6.861	^R 2.274 ^R 2.372	.894 1.026	^R 1.380 ^R 1.347	^R 216 .405	^R 6.406 ^R 7.089	.675	.727 .760	^R 7.816 ^R 8.612	
December Total		.752 8.269	9.169	^R 78.000	R 28.855	10.26 10.458	^R 18.397	^R 1.071	R 79.999	.752 8.269	9.073	^R 97.468	
	5.385		.785	^R 6.928	^R 2.327	.864	^R 1.463	R.333	^R 7.192			^R 8.723	
2012 January February		.757 .668	.785 .701	6.928	R 2.327	.864 .838	1.463	^R .437	R 6.667	.757 .668	.763 .690	R 8.035	
March		.646	.795	6.634	2.255	.964	1.202	R196	^R 6.287	.646	.786	^R 7.729	
April		.585	.770	^R 6.285	2.174	1.000	1.174	^R 163	^R 5.932	.585	.767	R 7.296	
May	^R 5.139	.650	.816	^R 6.605	^R 2.351	1.012	^R 1.340	^R 255	^R 6.209	.650	.816	^R 7.689	
June	^R 5.003	.682	.780	^R 6.465	^R 2.322	.999	1.322	^R .005	^R 6.318	.682	.779	^R 7.793	
July	^R 5.234	.723	.751	^R 6.709	2.303	.982	1.321	R.330	^R 6.865	.723	.753	^R 8.360	
August	^R 5.306	.728	.713	^R 6.747	2.322 R 0.470	^R .942	R 1.380	^R .153	^R 6.815	.728	.719	R 8.280	
September	^R 5.078 5.371	.675 .625	.645 .676	^R 6.398 6.672	R 2.170	^R .915 .955	R 1.255	^R 243 250	^R 6.077 6.292	.675 .625	.644 .681	^R 7.410 7.611	
October 10-Month Total	5.371 51.607	.625 6.739	.676 7.434	65.781	2.144 22.467	.955 9.471	1.188 12.996	250 .150	64.654	.625 6.739	7.396	78.926	
2011 10-Month Total	49.985	6.842	7.661	64.488	24.209	8.539	15.670	.882	66.504	6.842	7.586	81.040	
2010 10-Month Total		7.009	6.728	61.984	24.209	6.676	18.464	.002	67.117	7.009	6.694	80.897	

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

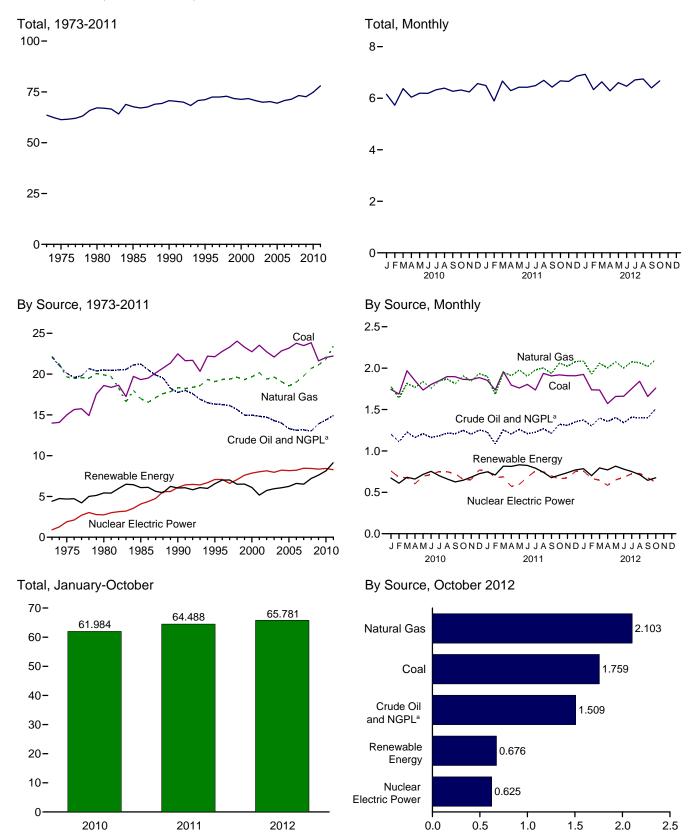
R=Revised.

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

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

available data beginning in 1973.
 Sources: • Production: Table 1.2. • Trade: Tables 1.4a and 1.4b. • Stock
 Change and Other: Calculated as consumption minus production and net imports.
 • Consumption: Table 1.3.

Figure 1.2 Primary Energy Production (Quadrillion Btu)



^a Natural gas plant liquids.

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

Table 1.2 Primary Energy Production by Source

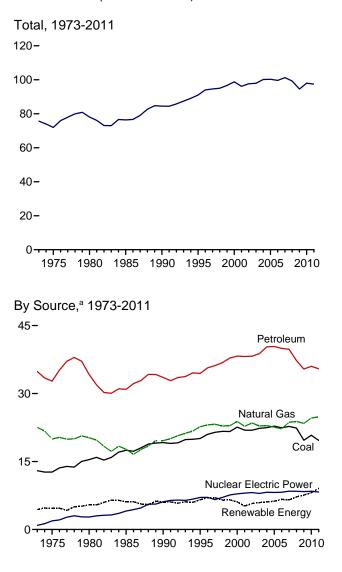
(Quadrillion Btu)

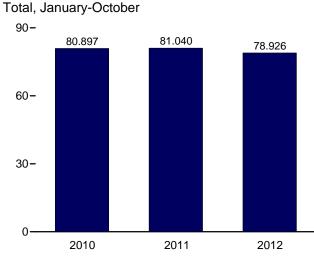
		F	Fossil Fuels				Renewable Energy ^a						
	Coal ^b	Natural Gas (Dry)	Crude Oil ^c	NGPLd	Total	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total
1973 Total	13.992	22.187	19.493	2.569	58.241	0.910	2.861	0.020	NA	NA	1.529	4.411	63.563
1975 Total	14.989	19.640	17.729	2.374	54.733	1.900	3.155	.034	NA	NA	1.499	4.687	61.320
1980 Total	18.598	19.908	18.249	2.254	59.008	2.739	2.900	.053	NA	NA	2.475	5.428	67.175
1985 Total	19.325	16.980	18.992	2.241	57.539	4.076	2.970	.097	(s)	(s)	3.016	6.084	67.698
1990 Total	22.488	18.326	15.571	2.175	58.560	6.104	3.046	.171	.059	.029	2.735	6.041	70.705
1995 Total	22.130 22.790	19.082 19.344	13.887 13.723	2.442 2.530	57.540 58.387	7.075 7.087	3.205 3.590	.152 .163	.069 .070	.033 .033	3.099 3.155	6.558 7.012	71.174 72.486
1996 Total 1997 Total	23.310	19.394	13.658	2.330	58.857	6.597	3.640	.167	.070	.033	3.105	7.012	72.400
1998 Total	24.045	19.613	13.235	2.420	59.314	7.068	3.297	.168	.069	.034	2.929	6.494	72.876
1999 Total	23.295	19.341	12.451	2.528	57.614	7.610	3.268	.171	.068	.046	2.965	6.517	71.742
2000 Total	22.735	19.662	12.358	2.611	57.366	7.862	2.811	.164	.066	.057	3.006	6.104	71.332
2001 Total	23.547	20.166	12.282	2.547	58.541	8.029	2.242	.164	.064	.070	2.624	5.164	71.735
2002 Total	22.732	19.382	12.160	2.559	56.834	8.145	2.689	.171	.063	.105	2.705	5.734	70.713
2003 Total	22.094	19.633	11.948	2.346	56.022	7.959	2.793	.173	.062	.113	2.805	5.947	69.927
2004 Total	22.852 23.185	19.074 18.556	11.538 10.978	2.466 2.334	55.930 55.053	8.222 8.161	2.688 2.703	.178 .181	.063 .063	.142 .178	2.998 3.104	6.069 6.229	70.220 69.443
2005 Total 2006 Total	23.165	19.022	10.978	2.334	55.940	8.215	2.703	.181	.063	.178	3.104	6.599	70.754
2007 Total	23.493	19.786	10.748	2.409	56.435	8.455	2.446	.186	.000	.341	3.461	6.509	71.400
2008 Total	23.851	20.703	10.615	2.419	57.588	8.427	2.511	.192	.089	.546	3.864	7.202	73.217
2009 Total	21.624	21.139	11.332	2.574	56.669	8.356	2.669	.200	.098	.721	3.928	7.616	72.641
2010 January	1.743	R 1.777	.971	.230	^R 4.721	.758	.218	.018	.010	.067	.359	.672	^R 6.151
February	1.687	^R 1.640	.901	.210	^R 4.437 ^R 5.013	.682	.201	.016	.009	.053	.332	.610	^R 5.730
March	1.969 1.848	^R 1.817 ^R 1.767	.991 .936	.236 .227	R 4.777	.676 .602	.204 .186	.018 .017	.010 .010	.084 .095	.366 .351	.682 .661	^R 6.371 ^R 6.040
April May	1.646	^R 1.838	.936	.227	R 4.783	.602	.100	.017	.010	.095	.351	.001	^R 6.196
June	1.802	^R 1.756	.937	.226	^R 4.721	.714	.291	.017	.011	.000	.355	.753	^R 6.188
July	1.847	^R 1.847	.955	.227	^R 4.876	.752	.239	.017	.011	.066	.367	.701	R 6.329
August	1.898	^R 1.869	.979	.236	^R 4.982	.748	.196	.018	.011	.065	.371	.662	^R 6.391
September	1.897	^R 1.813	.976	.232	^R 4.917	.725	.168	.017	.011	.069	.360	.626	^R 6.268
October	1.864	^R 1.906	1.006	.242	^R 5.018	.656	.173	.017	.010	.077	.369	.646	^R 6.320
November	1.860	^R 1.844	.967	.235	^R 4.907	.655	.191	.017	.010	.095	.369	.682	^R 6.244
December Total	1.886 22.038	^R 1.933 ^R 21.806	1.009 11.598	.242 2.781	^R 5.071 ^R 58.224	.770 8.434	.226 2.539	.018 .208	.010 .126	.088 .923	.383 4.341	.726 8.136	^R 6.566 ^R 74.795
2011 January	1.854	^R 1.901	^R .990	.241	^R 4.986	.761	.248	.019	.012	.083	.385	.747	^R 6.494
February	1.736	^R 1.684	R.880	.207	^R 4.506	.678	.234	.017	.012	.102	.346	.710	^R 5.894
March	1.958	^R 1.950	^R 1.005	.250	^R 5.162	.687	.303	.018	.013	.102	.380	.816	^R 6.665
April	1.795	^R 1.909	.964	.241	^R 4.909	.571	.303	.017	.013	.121	.359	.813	^R 6.293
May	1.760	^R 1.977	1.007	.254	^R 4.998	.597	.317	.018	.014	.114	.369	.832	^R 6.427
June	1.804	R 1.903	.969	.241	^R 4.916	.683	.312	.017	.014	.107	.375	.824	^R 6.424
July	1.736	^R 1.979 ^R 2.003	.975	.251	^R 4.941 ^R 5.208	.757	.304	.018	.014	.073	.384	.792	^R 6.490
August September	1.937 1.907	R 1.935	1.014 ^R .974	.254 .239	^R 5.208	.746 .700	.250 .208	.018 .017	.014 .013	.073 .067	.387 .372	.742 .677	^R 6.696 ^R 6.431
October	1.907	R 2.063	R 1.058	.263	^R 5.303	.663	.208	.017	.013	.102	.372	.708	^R 6.674
November	1.909	R 2.022	^R 1.047	.261	^R 5.239	.675	.201	.018	.013	.121	.386	.738	^R 6.651
December	1.908	^R 2.079	^R 1.083	.268	^R 5.339	.752	.231	.018	.013	.104	.405	.770	^R 6.861
Total	22.221	^R 23.406	^R 11.965	2.970	^R 60.562	8.269	3.103	.213	.158	1.168	4.527	9.169	^R 78.000
2012 January	1.925	RE 2.085	RE 1.105	.270	5.385	.757	.227	.019	.015	.134	.390	.785	^R 6.928
February	1.738 1.736	RE 1.928 RE 2.059	^{RE} 1.046 ^{RE} 1.129	.254 .270	^R 4.966 5.194	.668 .646	.198 .250	.018 .019	.015 .017	.108 .135	.362 .373	.701 .795	6.336 6.634
March April	1.736	RE 2.003	RE 1.129 RE 1.093	.270	^R 4.930	.646	.250 .254	.019	.017	.135	.373	.795 .770	R 6.285
May	R 1.659	^{RE} 2.076	RE 1.133	.202	^R 5.139	.650	.277	.010	.017	.124	.378	.816	R 6.605
June	1.660	RE 2.001	^{RE} 1.085	.257	^R 5.003	.682	.259	.019	.019	.116	.368	.780	^R 6.465
July	^R 1.751	^{RE} 2.076	^{RE} 1.143	.264	^R 5.234	.723	.260	.019	.019	.085	.368	.751	^R 6.709
August	1.841	^{RE} 2.065	RE 1.130	.269	^R 5.306	.728	.225	.019	.019	.081	.370	.713	^R 6.747
September	R 1.658	RE 2.021	RE 1.128	.271	^R 5.078	.675	.171	.019	.018	.084	.353	.645	^R 6.398
October 10-Month Total	1.759 17.299	^E 2.103 E 20.418	^E 1.226 E 11.218	.283 2.673	5.371 51.607	.625 6.739	.157 2.278	.019 .188	.019 .178	.122 1.112	.359 3.679	.676 7.434	6.672 65.781
2011 10-Month Total	18.405	19.305	9.834	2.440	49.985	6.842	2.671	.177	.132	.943	3.737	7.661	64.488
2010 10-Month Total	18.292	18.029	9.622	2.304	48.246	7.009	2.122	.173	.106	.740	3.588	6.728	61.984

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

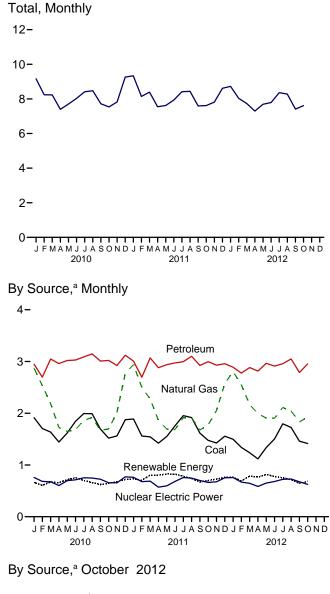
Notes: • See "Primary Energy Production" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1973.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

Figure 1.3 Primary Energy Consumption (Quadrillion Btu)





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



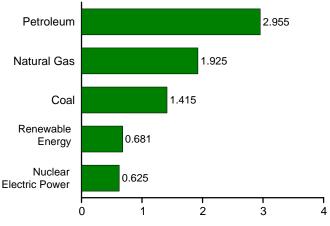


Table 1.3 Primary Energy Consumption by Source

(Quadrillion Btu)

		Fossil	Fuels					Renewable	e Energy ^a			
	Coal	Natural Gas ^b	Petro- leum ^c	Total ^d	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total
973 Total	12.971	22.512	34.837	70.314	0.910	2.861	0.020	NA	NA	1.529	4.411	75.68
975 Total	12.663	19.948	32.732	65.357	1.900	3.155	.034	NA	NA	1.499	4.687	71.96
980 Total	15.423	20.235	34.205	69.828	2.739	2.900	.053	NA	NA	2.475	5.428	78.06
985 Total	17.478	17.703	30.925	66.093	4.076	2.970	.097	(s)	(s)	3.016	6.084	76.39
990 Total	19.173	19.603	33.552	72.332	6.104	3.046	.171	.059	.029	2.735	6.041	84.48
995 Total	20.089	22.671	34.438	77.259	7.075	3.205	.152	.069	.033	3.101	6.560	91.02
996 Total	21.002	23.085	35.675	79.785	7.087	3.590	.163	.070	.033	3.157	7.014	94.02
997 Total	21.445	23.223	36.159	80.873	6.597	3.640	.167	.070	.034	3.105	7.016	94.60
998 Total	21.656	22.830	36.816	81.369	7.068	3.297	.168	.069	.031	2.927	6.493	95.01
999 Total	21.623	22.909	37.838	82.427	7.610	3.268	.171	.068	.046	2.963	6.516	96.65
000 Total	22.580	23.824	38.262	84.731	7.862	2.811	.164	.066	.057	3.008	6.106	98.81
001 Total	21.914	22.773	38.186	82.902	8.029	2.242	.164	.064	.070	2.622	5.163	96.16
002 Total	21.904	23.510	38.224	83.699	8.145	2.689	.171	.063	.105	2.701	5.729	97.64
003 Total 004 Total	22.321 22.466	22.831 22.923	38.811 40.292	84.014 85.819	7.959 8.222	2.793 2.688	.173 .178	.062 .063	.113 .142	2.807 3.010	5.948 6.081	97.94 100.16
005 Total	22.797	22.565	40.388	85.794	8.161	2.703	.181	.063	.178	3.117	6.242	100.10
006 Total	22.447	22.239	39.955	84.702	8.215	2.869	.181	.068	.264	3.267	6.649	99.62
007 Total	22.749	23.663	39.774	86.211	8.455	2.446	.186	.076	.341	3.474	6.523	101.29
008 Total	22.385	23.843	37.280	83.549	8.427	2.511	.192	.089	.546	3.849	7.186	99.27
009 Total	19.692	23.416	35.403	78.488	8.356	2.669	.200	.098	.721	3.912	7.600	94.55
010 January	1.913	^R 2.869	2.947	^R 7.725	.758	.218	.018	.010	.067	.349	.662	^R 9.16
February	1.705	^R 2.533	2.698	^R 6.940	.682	.201	.016	.009	.053	.326	.605	^R 8.23
March	1.635	^R 2.187	3.048	^R 6.872	.676	.204	.018	.010	.084	.357	.673	^R 8.23
April	1.443	^R 1.725	2.960	^R 6.129	.602	.186	.017	.010	.095	.348	.657	^R 7.39
May	1.617	^R 1.649	3.020	^R 6.288	.697	.245	.018	.011	.085	.356	.715	^R 7.70
June	1.844	^R 1.682	3.029	^R 6.556	.714	.291	.017	.011	.079	.357	.755	R 8.03
July	1.994	^R 1.862	3.089	^R 6.946	.752	.239	.017	.011	.066	.368	.701	R 8.40
August	1.991	^R 1.916	3.148	^R 7.056	.748	.196	.018	.011	.065	.370	.660	^R 8.47
September	1.693	^R 1.670	3.008	^R 6.370	.725	.168	.017	.011	.069	.357	.622	^R 7.71
October	1.519	^R 1.697	3.020	^R 6.234	.656	.173	.017	.010	.077	.366	.643	R 7.53
November	1.560	R 2.013	2.923	^R 6.491	.655	.191	.017	.010	.095	.363	.676	R 7.82
December Total	1.875 20.791	^R 2.771 ^R 24.575	3.120 36.010	^R 7.761 ^R 81.369	.770 8.434	.226 2.539	.018 .208	.010 .126	.088 .923	.377 4.294	.720 8.090	^R 9.26 ^R 97.98
011 January	1.888	^R 2.940	3.006	^R 7.835	.761	.248	.019	.012	.083	.369	.731	^R 9.33
February	1.560	R 2.497	2.696	^R 6.754	.678	.234	.013	.012	.102	.339	.703	^R 8.14
March	1.544	R 2.276	3.070	^R 6.892	.687	.303	.018	.013	.102	.369	.805	^R 8.39
April	1.421	R 1.863	2.879	^R 6.164	.571	.303	.017	.013	.121	.349	.804	^R 7.54
May	1.551	^R 1.695	2.938	^R 6.185	.597	.317	.018	.014	.114	.363	.826	^R 7.62
June	1.758	^R 1.684	2.973	^R 6.416	.683	.312	.017	.014	.107	.374	.824	R 7.93
July	1.953	^R 1.913	2.995	^R 6.861	.757	.304	.018	.014	.073	.374	.782	^R 8.41
August	1.917	^R 1.914	3.101	^R 6.935	.746	.250	.018	.014	.073	.386	.741	^R 8.43
September	1.614	^R 1.677	2.923	^R 6.214	.700	.208	.017	.013	.067	.365	.670	^R 7.59
October	1.475	^R 1.773	2.998	^R 6.246	.663	.192	.018	.013	.102	.373	.699	^R 7.61
November	1.425	^R 2.053	2.929	^R 6.406	.675	.201	.018	.013	.121	.375	.727	^R 7.81
December	1.556	^R 2.574	2.957	^R 7.089	.752	.231	.018	.013	.104	.395	.760	_ ^R 8.61
Total	19.663	^R 24.860	35.465	^R 79.999	8.269	3.103	.213	.158	1.168	4.432	9.073	^R 97.46
12 January	1.497	^R 2.804	2.889	^R 7.192	.757	.227	.019	.015	.134	.367	.763	^R 8.72
February	1.340	R 2.550	2.776	^R 6.667	.668	.198	.018	.015	.108	.351	.690	R 8.03
March	1.236	^R 2.165	2.883	^R 6.287	.646	.250	.019	.017	.135	.365	.786	R 7.72
April	1.117 R 1 227	R 1.994	2.815	^R 5.932	.585	.254	.018	.017	.124	.353	.767	R 7.29
May	R 1.337	R 1.908	2.964	R 6.209	.650	.277	.019	.019	.122	.378	.816	R 7.68
June	^R 1.504 ^R 1.796	^R 1.904 ^R 2.112	2.911	^R 6.318 ^R 6.865	.682	.259 .260	.019 .019	.019 .019	.116	.366 .369	.779	^R 7.79 ^R 8.36
July	^R 1.796	R 2.040	2.957 3.050	^R 6.815	.723 .728	.260	.019	.019	.085 .081	.369 .375	.753 .719	R 8.28
August September	^R 1.458	^R 1.833	3.050 2.787	^R 6.077	.728 .675	.225	.019	.019	.081	.375	.644	^R 7.41
October	1.456	1.925	2.767	6.292	.675	.171	.019	.018	.064	.352	.681	7.61
10-Month Total	14.426	21.234	2.955 28.987	64.654	6.739	2.278	.188	.178	1.112	3.641	7.396	78.92
011 10-Month Total	16.681	20.233	29.579	66.504	6.842	2.671	.177	.132	.943	3.662	7.586	81.04
010 10-Month Total	17.355	19.791	29.966	67.117	7.009	2.122	.173	.102	.740	3.554	6.694	80.89

^a Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
 ^b Natural gas only; excludes supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 ^c Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
 ^d Includes coal coke net imports. See Tables 1.4a and 1.4b.
 ^e Conventional hydroelectric power.

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

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

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

 Coal: Tables 6.1 and A5.
 Natural Gas: Tables 4.1 and A4.
 Petroleum: Table 3.6.
 Nuclear Electric Power: Tables 7.2a and A6 ("Nuclear Plants" heat rate).
 Renewable Energy: Table 10.1.
 Net Imports of

 Coal Coke and Electricity: Tables 1.4a and 1.4b.

Figure 1.4a Primary Energy Imports and Exports

(Quadrillion Btu)

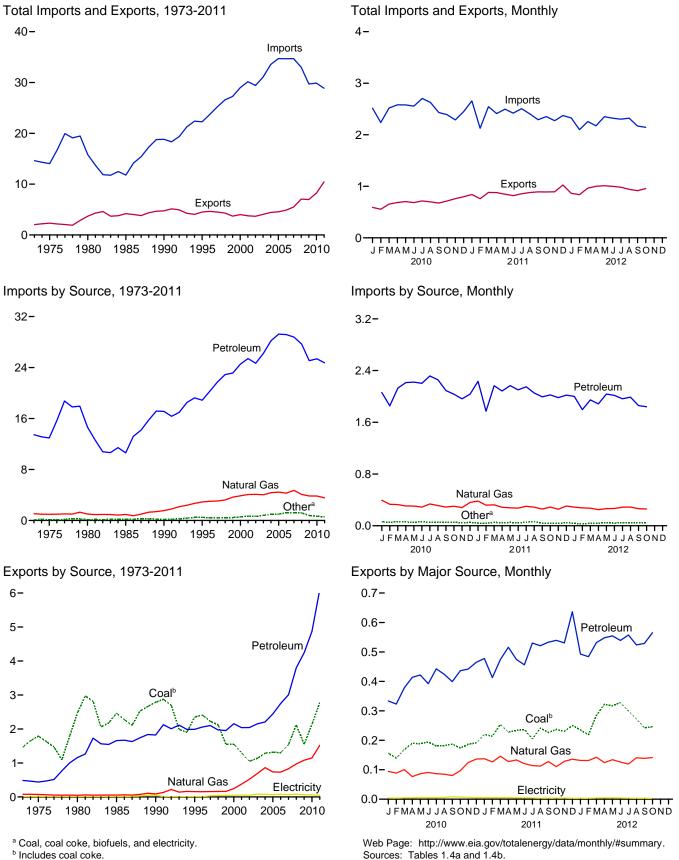
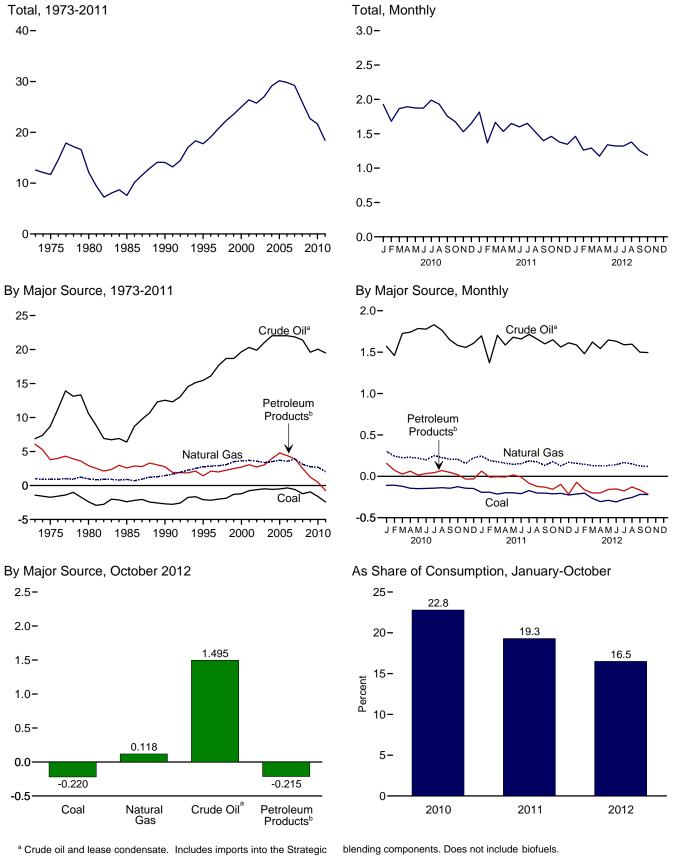


Figure 1.4b Primary Energy Net Imports

(Quadrillion Btu, Except as noted)



Petroleum Reserve, which began in 1977. ^b Petroleum products, unfinished oils, pentanes plus, and gasoline Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.

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

Table 1.4a Primary Energy Imports by Source

(Quadrillion Btu)

_					Imports				
					Petroleum				
	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Total	Biofuels ^c	Electricity	Total
973 Total	0.003	0.027	1.060	6.887	6.578	13.466	NA	0.057	14.613
75 Total	.024	.045	.978	8.721	4.227	12.948	NA	.038	14.032
80 Total	.030	.016	1.006	11.195	3.463	14.658	NA	.085	15.796
85 Total	.049	.014	.952	6.814	3.796	10.609	NA	.157	11.781
90 Total	.067	.019	1.551	12.766	4.351	17.117	NA	.063	18.817
95 Total	.237	.095	2.901	15.669	3.211	18.881	.001	.146	22.260
96 Total	.203	.063	3.002	16.341	3.943	20.284	.001	.148	23.702
97 Total	.187	.078	3.063	17.876	3.864	21.740	(s)	.147	25.215
98 Total	.218	.095	3.225	18.916	3.992	22.908	(s)	.135	26.581
999 Total	.227	.080	3.664	18.935	4.198	23.133	(s)	.147	27.252
00 Total	.313	.094	3.869	19.783	4.749	24.531	(s)	.166	28.973
01 Total	.495	.063	4.068	20.348	5.051	25.398	.002	.131	30.157
	.495	.080	4.008	19.920	4.754	24.674	.002	.125	29.408
02 Total	.626	.068	4.042	21.060	5.159		.002	.125	31.061
03 Total	.626	.068	4.042			26.219	.002		
04 Total				22.082	6.114	28.197		.117	33.544
05 Total	.762	.088	4.450	22.091	7.157	29.248	.012	.150	34.709
06 Total	.906	.101	4.291	22.085	7.084	29.169	.066	.146	34.679
07 Total	.909	.061	4.723	21.914	6.868	28.781	.054	.175	34.703
08 Total	.855	.089	4.084	21.448	6.237	27.685	.084	.195	32.992
09 Total	.566	.009	3.845	19.699	5.383	25.082	.026	.178	29.706
10 January	.042	.001	.394	1.577	.483	2.060	.001	.018	2.516
February	.031	.005	.332	1.469	.384	1.853	(s)	.015	2.237
March	.047	.003	.327	1.734	.393	2.127	.001	.015	2.519
April	.045	.001	.306	1.747	.466	2.214	(s)	.013	2.580
May	.037	.005	.305	1.793	.428	2.221	.001	.010	2.578
June	.044	.005	.289	1.784	.419	2.203	(s)	.014	2.556
July	.035	.003	.337	1.844	.472	2.316	(s)	.015	2.705
August	.043	.003	.313	1.772	.484	2.256	(s)	.012	2.627
September	.040	.002	.289	1.658	.432	2.090	(s)	.010	2.431
October	.044	.001	.302	1.585	.448	2.034	(s)	.009	2.390
November	.037	(s)	.280	1.563	.400	1.963	(s)	.009	2.289
December	.039	(s)	.361	1.614	.420	2.034	(s)	.013	2.447
Total	.484	.030	3.834	20.140	5.231	25.371	.004	.154	29.877
11 January	.025	.001	^R .381	1.710	.523	2.233	(s)	.015	^R 2.656
February	.021	.002	^R .319	1.377	.394	1.771	(s)	.013	^R 2.126
March	.038	.004	^R .323	1.710	.455	2.166	(s)	.014	^R 2.545
April	.028	.001	.285	1.593	.490	2.084	(s)	.013	^R 2.411
May	.033	.004	^R .278	1.687	.479	2.166	(s)	.017	2.497
June	.024	.004	^R .273	1.665	.436	2.101	.001	.015	R 2.418
July	.030	.003	^R .301	1.728	.422	2.150	.001	.021	2.505
August	.039	.005	^R .287	1.664	.389	2.053	.002	.019	R 2.406
September	.021	.003	^R .258	1.607	.386	1.993	.003	.014	^R 2.292
October	.023	.002	^R .289	1.659	.364	2.023	.002	.013	R 2.352
November	.020	.002	R.255	1.572	.409	1.981	.003	.012	R 2.274
December	.024	.004	R.305	1.622	.397	2.019	.005	.015	^R 2.372
Total	.327	.035	^R 3.555	19.595	5.145	24.740	.019	.178	R 28.855
12 January	.020	.003	.288	1.597	.405	2.001	(s)	.014	^R 2.327
February	.013	.002	R.277	1.491	.304	1.795	(S)	.012	R 2.100
March	.017	.002	.272	1.633	.313	1.946	.002	.012	2.255
April	.016	.007	.249	1.549	.336	1.885	.001	.017	2 174
May	.025	.004	.245	1.659	.378	2.037	.002	.019	R 2.351
June	.023	.004	.265	1.640	.375	2.015	.002	.018	R 2.322
July	.010	.001	.288	1.603	.361	1.964	.003	.023	2.303
August	.022	.001	.288	1.608	.380	1.988	.004	.023	2.303
September	.021	.001	R.264	1.510	.349	1.859	.007	.022	R 2.170
	.021	.002	.259	1.507	.333	1.840	.007	.017	2.144
October 10-Month Total	.022 .191	.001 .025	2.717	15.795	3.535 3.535	19.331	.007 .033	.171	2.144 22.467
11 10 Month Total	202	000	2 005	16 400	4 220	20 720	044	450	24.200
11 10-Month Total 10 10-Month Total	.283 .408	.029 .030	2.995 3.194	16.400 16.963	4.339 4.411	20.739 21.374	.011 .004	.152 .131	24.209 25.141

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

^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.
 R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.
 Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
 Web Paoe: See http://www.eia.gov/totalenergv/data/monthlv/#summary for all

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, 10-2 10-4 and A2. • Biotypical: Tables 10-2 10-4 and A2. • Electricity. Tables 10.3, 10.4, and A2. • Biofuels: Tables 10.3, 10.4 and A3. • Electricity: Tables 7.1 and A6.

Table 1.4b Primary Energy Exports by Source and Total Net Imports (Quadrillion Btu)

Net Exports Imports^a Petroleum Natural Petroleum Coal Crude Electricity Coal Coke Gas Oilb Products Total Biofuelsd Total Total 1973 Total 12.580 1.425 0.035 0.079 0.004 0.486 0.009 2.033 0.482 NA 1975 Total 1980 Total 1.761 2.421 .032 .074 .012 .427 .439 NA .017 2.323 3.695 11.709 .051 .609 1985 Total 1.657 2.438 .028 .056 .432 1.225 NA .017 4.196 7.584 1990 Total 2.772 NA 14.065 .014 .087 .230 1.594 .055 4.752 1995 Total 2.318 .034 .156 .200 1.791 1.991 NA .012 4.511 17.750 1996 Total 2.059 2.368 .040 .155 .233 1.825 NA .011 4.633 19.069 .031 .228 1.872 2.100 NA 4.514 20.701 1997 Total 2.193 .159 .031 .233 1.972 4.299 3.715 1998 Total 2.092 .028 .161 1.740 NA .047 22.281 1999 Total164 1.705 NA .049 23.537 1.525 .022 2.048 2000 Total 1.528 .028 .245 .106 2.154 NA .051 4.006 24.967 2001 Total (s) (s) .001 .056 1.265 .033 .377 .043 2.039 3.771 26.386 2002 Total520 .019 2.023 2.042 .054 3.669 25.739 1.032 .020 2003 Total 2.124 2.151 1.117 .018 .686 .026 2.151 .082 4.054 27.007 1.253 .057 .001 2004 Total033 .862 2.208 .078 4.434 29.110 2005 Total 1.273 .043 .735 .730 .067 2.374 2.699 2.442 2.751 .001 .004 .065 4.560 30.149 2006 Total 1.264 .040 .052 .083 4.872 29.806 2007 Total 1.507 .036 .830 .058 2.949 3.007 .035 .069 5.482 29.221 2008 Total 2.071 .049 .972 .061 3.739 3.800 .086 .083 7.060 25.932 2009 Total032 1.082 .093 4.240 .034 .062 6.965 1.515 4.147 22.741 2010 January151 .006 .094 .006 .327 .332 .003 .004 .590 1.926 February138 .001 089 009 312 321 003 003 556 1.681 March008 .366 .374 .006 .004 .100 .654 1.865 (s) April189 001 077 006 .404 411 005 004 686 1 894 .007 .414 .420 .003 .006 .704 1.874 Mav186 .003 .086 June190 .004 .091 .005 .385 .391 .003 .005 .684 1.872 July087 .012 .440 .003 .178 .003 .428 .005 .716 1.989 August085 .006 .415 .421 .004 .006 1.929 .180 .002 .698 September October184 .170 .004 .004 .008 .007 .675 .714 .003 .080 .011 .385 396 1.757 .097 .004 .429 .003 .433 1.676 .004 1.529 November180 .006 .125 .006 .433 .439 .006 .760 .459 December186 .005 .136 .007 .452 .005 .797 2.101 .036 1.147 .088 4.750 4.838 .046 .065 8.234 21.643 Total ^R 1.815 .001 .137 .013 .460 .006 .005 2011 January218 .473 .841 R 1.367 February212 .002 .126 .005 .403 .408 .005 .005 .759 ^R 1.664 March252 .001 .146 .007 .461 .467 .008 .005 .880 ^R 1.533 ^R 1.651 April May128 .133 .007 .011 .007 .005 .004 .227 .001 .499 506 878 .232 .462 .469 .847 .002 June444 .451 .520 .004 .818 .233 .003 .121 .006 .006 ^R 1.600 R 1.652 .202 .003 .114 .013 .011 July August241 .001 .112 .006 .511 .517 .005 .003 .879 R 1.527 ^R 1.400 September224 .003 .128 .006 .518 .524 .010 .003 .892 .235 .110 .009 .520 .529 .011 .003 .891 ^R 1.461 October002 ^R 1.380 ^R 1.347 November226 .004 .129 .011 .507 .518 .013 .004 .894 December010 .613 .014 .003 1.026 .001 136 .622 Total 2.751 .024 1.521 .100 5.904 6.004 .108 .051 10.458 R 18.397 2012 January864 .838 .234 .001 .132 .010 .476 .487 .008 .003 ^R 1.463 .217 .468 .007 .003 1.262 February002 .131 .010 .478 March284 .142 .011 .514 .525 .008 .004 .964 1.291 .002 April124 .134 321 001 006 536 542 007 004 1 000 1.174 May012 .550 .004 ^R 1.340 .314 .003 .537 .006 1.012 June 327 001 .126 .008 526 .534 .007 .007 004 999 1.322 .298 .014 .538 .552 .003 1.321 .119 ^R.141 .982 .001 Julv R.942 .520 R 1.380 August .272 .001 .011 .509 .006 .003 ^R.915 ^R 1.255 R.139 .240 .010 .515 .006 .003 September003 October .. .955 .242 .004 .141 .012 549 .561 .006 .003 1.188 10-Month Total 2.748 5.272 .018 1.330 .104 5.169 .068 .035 9.471 12,996 2011 10-Month Total 2010 10-Month Total 2.276 .019 1.256 .079 4.784 4.863 .080 .045 8.539 15.670 1.735 .025 .886 .075 3.865 3.940 .036 .054 6.676 18.464

a Net imports equal imports minus exports. b

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

components. Does not include biofuels. Through 2010, data are for biodiesel only. Beginning in 2011, data are for fuel ethanol (minus denaturant) and biodiesel.

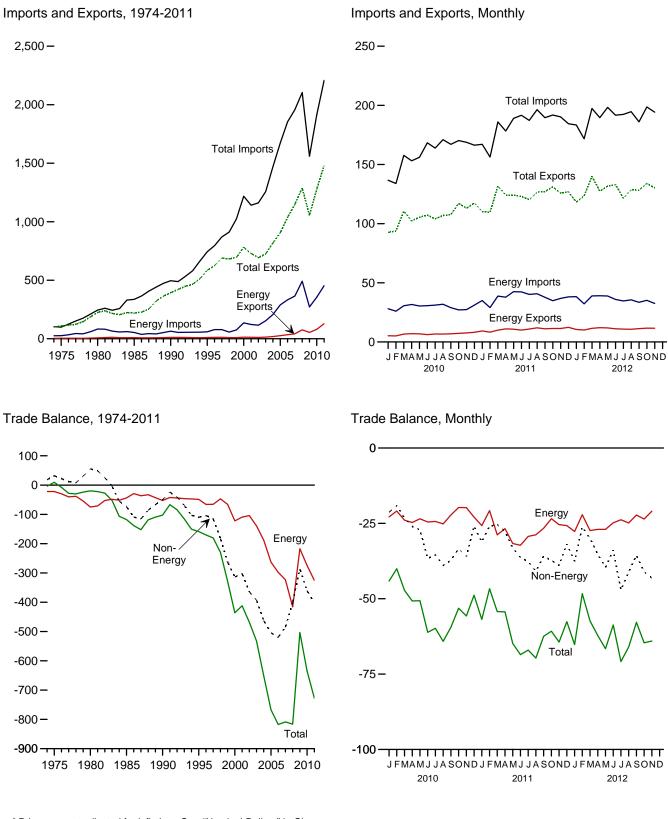
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • See "Primary Energy" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

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

Figure 1.5 Merchandise Trade Value (Billion Dollars^a)



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

Table 1.5 Merchandise Trade Value

(Million Dollars^a)

		Petroleum ^b	1		Energy ^c	1	Non- Energy	1	otal Merchandis	e
	Exports	Imports	Balance	Exports	Imports	Balance	Balance	Exports	Imports	Balance
974 Total	792	24,668	-23.876	3.444	25,454	-22,010	18,126	99.437	103,321	-3.884
975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551
980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696
85 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
90 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496
95 Total	6,321	54,368	-48,047	10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801
96 Total	7,984	72,022	-64,038	12,181	78,086	-65,905	-104,309	625,075	795,289	-170,214
97 Total	8,592	71,152	-62,560	12,682	78,277	-65,595	-114,927	689,182	869,704	-180,522
98 Total	6,574	50,264	-43,690	10,251	57,323	-47,072	-182,686	682,138	911,896	-229,758
99 Total	7,118	67,173	-60,055	9,880	75,803	-65,923	-262,898	695,797	1,024,618	-328,821
00 Total	10,192	119,251	-109,059	13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104
001 Total	8,868	102,747	-93,879	12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899
02 Total	8,569	102,663	-94,094	11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263
03 Total	10,209	132,433	-122,224	13,768	153,298	-139,530	-392,820	724,771	1,257,121	-532,350
04 Total	13,130	179,266	-166,136	18,642	206,660	-188,018	-462,912	818,775	1,469,704	-650,930
05 Total	19,155	250,068	-230,913	26,488	289,723	-263,235	-504,242	905,978	1,673,455	-767,477
06 Total	28,171	299,714	-271,543	34,711	332,500	-297,789	-519,515	1,036,635	1,853,938	-817,304
07 Total	33,293	327,620	-294,327	41,725	364,987	-323,262	-485,501	1,148,199	1,956,962	-808,763
008 Total 009 Total	61,695 44,509	449,847 251,833	-388,152 -207,324	76,075 54,536	491,885 271,739	-415,810 -217,203	-400,389 -286,379	1,287,442 1,056,043	2,103,641 1,559,625	-816,199 -503,582
10 January	4,083	25,234	-21,151	5,236	28,075	-22,839	-21,285	92,601	136,725	-44,124
February	4,003	23,666	-19,663	5,115	26,018	-20,903	-19,141	93,854	133,898	-40,044
March	5,348	28,549	-23,201	6,667	30,613	-23,946	-23,271	110,511	157,728	-47,217
April	5,680	30,016	-24,336	6,970	31,657	-24,687	-26,034	102,443	153,163	-50,721
May	5,484	28,733	-23,249	6,887	30,369	-23,482	-27,165	105,477	156,124	-50,647
June	4.798	29,011	-24,213	6,170	30.698	-24,528	-36,592	107,202	168,321	-61.120
July	5,505	29,218	-23,713	6,760	31,113	-24,353	-35,451	104,057	163,861	-59.804
August	5,346	30,130	-24,784	6,744	31,907	-25,163	-38,957	106,846	170,966	-64,120
September	5,482	27,479	-21,997	6,802	28,992	-22,190	-37,244	107,644	167,078	-59,434
October	6,084	25,556	-19,472	7,318	27,056	-19,738	-33,397	117,104	170,239	-53,135
November	6,272	25,982	-19,710	7,610	27,363	-19,753	-35,966	113,046	168,765	-55,719
December	6,694	29,892	-23,198	8,182	31,107	-22,925	-25,888	117,480	166,293	-48,813
Total	64,778	333,465	-268,687	80,460	354,968	-274,508	-360,389	1,278,263	1,913,160	-634,897
11 January	7,446	33,050	-25,604	9,275	35,010	-25,735	-31,134	110,179	167,048	-56,869
February	6,604	27,551	-20,947	8,291	29,062	-20,771	-25,897	109,647	156,315	-46,668
March	7,841	37,096	-29,255	9,958	38,763	-28,805	-25,442	131,728	185,975	-54,247
April	9,016	36,457	-27,441	11,059	37,803	-26,744	-27,589	123,959	178,293	-54,333
May	8,767	41,002	-32,235	10,795	42,470	-31,675	-33,171	124,107	188,953	-64,846
June	8,032	40,872	-32,840	10,039	42,305	-32,266	-36,274	123,039	191,579	-68,540
July	9,069	38,622	-29,553	10,902	40,224	-29,322	-37,702	120,239	187,263	-67,024
August	9,912	39,063	-29,151	11,940	40,732	-28,792	-40,896	126,633	196,321	-69,688
September	9,202	36,467	-27,265	11,141	37,741	-26,600	-35,855	127,107	189,562	-62,455
October	9,573	33,467	-23,894	11,410	34,857	-23,447	-37,306	131,058	191,811	-60,753
November	9,533	35,665	-26,132	11,401	36,821	-25,420	-38,944	125,899	190,263	-64,364
December	10,501	36,831	-26,330	12,353	38,083	-25,730	-31,876	126,837	184,443	-57,606
Total	105,499	436,145	-330,646	128,564	453,872	-325,308	-402,084	1,480,432	2,207,824	-727,392
12 January	8,730	37,044	-28,314	10,606	38,290	-27,684	-37,519	118,209	183,411	-65,203
February	8,605	31,171	-22,566	10,124	32,250	-22,126	-26,181	123,428	171,735	-48,307
March	9,709	37,933	-28,224	11,552	38,937	-27,385	-29,974	139,965	197,324	-57,359
April	10,152	38,129	-27,977	12,057	39,043	-26,986	-35,179	127,411	189,577	-62,165
May	10,056	37,835	-27,779	11,858	38,829	-26,971	-39,590	131,735	198,296	-66,561
June	9,228	35,043	-25,815	11,100	35,910	-24,810	-33,876	133,018	191,704	-58,686
July	9,154	33,604	-24,450	10,887	34,683	-23,796	-47,011	121,558	192,366	-70,807
August	9,090	34,640	-25,550	10,748	35,594	-24,846	-41,178	128,632	194,656	-66,024
September	9,772	32,562	-22,790	11,263	33,497	-22,234	-35,579	128,237	186,050	-57,813
October	10,106	34,131	-24,025	11,639	35,198	-23,559	^R -41,057	^R 134,020	^R 198,636	^R -64,616
November 11-Month Total	10,253 104,855	31,386 383,478	-21,133 -278,623	11,618 123,453	32,555 394,787	-20,937 -271,334	-43,094 -410,238	130,226 1,416,439	194,257 2,098,011	-64,031 -681,572
11 11-Month Total	94,995	399,312	-304,317	116,211	415,789	-299,577	-370,210	1,353,595	2,023,381	-669,786
010 11-Month Total	58,085	303,574	-245,489	72,279	323,861	-251,582	-334,503	1,160,783	1,746,867	-586,084

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

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

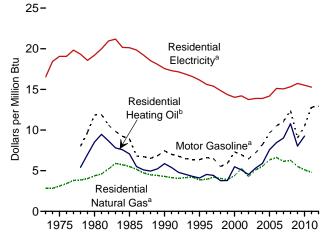
Notes:
 Monthly data are not adjusted for seasonal variations.
 See Note, "Merchandise Trade Value," at end of section.
 Totals may not equal sum of

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

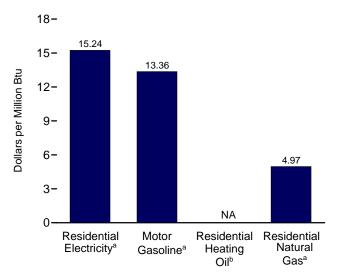
Sources: See end of section.

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

Costs, 1973-2012

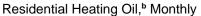


Costs, October 2012



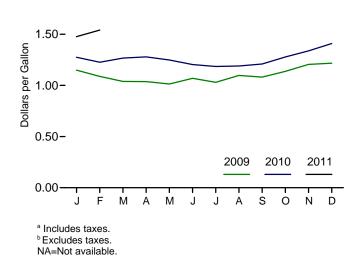
Residential Electricity,^a Monthly

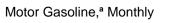
Cents per Kilowatthour 10.00 2010 2011 2012 0 Ò F Μ А А S Ν D J Μ J J

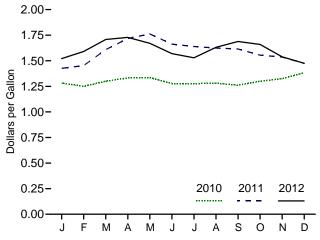


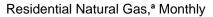
2.00-

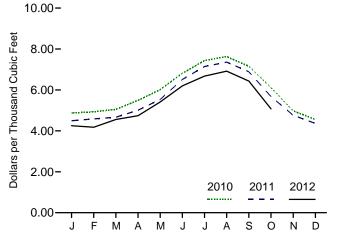
8-











Note: See "Real Dollars" in Glossary.

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

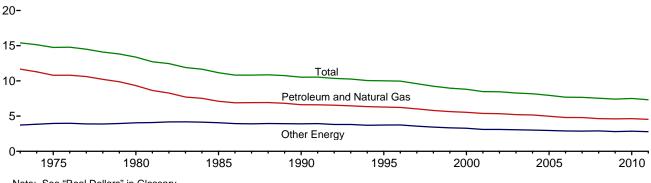
	Consumer Price Index, All Urban Consumers ^a	Motor G	asoline ^b		lential ng Oil ^c	Resid Natura		Resid Electi	ential icity ^b
	Index 1982-1984=100	Dollars per Gallon	Dollars per Million Btu	Dollars per Gallon	Dollars per Million Btu	Dollars per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars pe Million Btu
973 Average	44.4	NA	NA	NA	NA	2.91	2.85	5.6	16.50
975 Average	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 4.32	3.94	5.33 5.25	15.62 15.39
997 Average	160.5	0.804	6.48	0.613	4.42		4.21		
998 Average	163.0	0.684	5.51	0.523	3.77	4.18	4.05	5.07	14.85
999 Average	166.6 172.2	0.733 0.908	5.91 7.32	0.526 0.761	3.79 5.49	4.02 4.51	3.91 4.39	4.90 4.79	14.36 14.02
000 Average	177.1	0.864	6.97	0.706	5.09	5.44	5.28	4.84	14.02
001 Average 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	4.03	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
010 January	216.687	1.282	10.32	1.275	9.19	4.87	4.76	4.84	14.19
February	216.741	1.250	10.06	1.275	8.84	4.93	4.82	5.02	14.13
March	217.631	1.300	10.46	1.267	9.13	5.05	^R 4.94	5.10	14.96
April	218.009	1.333	10.40	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	^R 6.99	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	R 4.98	^R 4.87	5.31	15.56
December	219.179	1.383	11.13	1.409	10.16	R 4.55	R 4.45	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	^R 4.50	^R 4.40	4.94	14.47
February	221.309	1.453	11.69	1.540	11.11	4.58	^R 4.48	5.00	14.65
March	223.467	1.608	12.95	NA	NA	^R 4.67	^R 4.57	5.16	15.11
April	224.906	1.718	13.83	NA	NA	5.01	^R 4.90	5.19	15.21
May	225.964	1.762	14.18	NA	NA	5.53	5.41	5.28	15.47
June	225.722	1.663	13.38	NA	NA	^R 6.51	^R 6.37	5.30	15.54
July	225.922	1.639	13.19	NA	NA	^R 7.14	6.99	5.35	15.68
August	226.545	1.624	13.07	NA	NA	7.36	^R 7.20	5.34	15.64
September	226.889	1.615	13.00	NA	NA	^R 6.89	^R 6.74	5.36	15.72
October	226.421	1.555	12.52	NA	NA	^R 5.68	^R 5.55	5.34	15.64
November	226.230	1.536	12.36	NA	NA	4.77	4.66	5.21	15.26
December	225.672	1.475	11.87	NA	NA	4.36	^R 4.27	5.05	14.81
Average	224.939	1.590	12.80	NA	NA	4.90	^R 4.80	5.21	15.27
12 January	226.665	1.521	12.24	NA	NA	4.25	4.16	5.03	14.73
February	227.663	1.591	12.81	NA	NA	4.18	^R 4.09	5.06	14.83
March	229.392	1.708	13.75	NA	NA	4.56	^R 4.46	5.11	14.97
April	230.085	1.728	13.91	NA	NA	^R 4.74	^R 4.64	5.18	15.17
May	229.815	1.670	13.45	NA	NA	^R 5.41	5.30	5.20	15.23
June	229.478	1.570	12.63	NA	NA	^R 6.20	^R 6.06	5.27	15.44
July	229.104	1.529	12.30	NA	NA	^R 6.67	6.53	5.24	15.35
August	230.379	1.632	13.13	NA	NA	6.92	^R 6.77	5.28	15.48
September	231.407	1.689	13.59	NA	NA	6.44	6.30	5.33	15.62
October	231.317	1.660	13.36	NA	NA	^R 5.08	^R 4.97	^R 5.20	^R 15.24
November	230.221	1.539	12.38	NA	NA	NA	NA	NA	NA
December	229.601	1.475	11.87	NA	NA	NA	NA	NA	NA
Average	229.594	1.609	12.95	NA	NA	NA	NA	NA	NA

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

^a Data are U.S. city averages for all items, and are not seasonally adjusted.
 ^b Includes taxes.
 ^c Excludes taxes.
 R=Revised. NA=Not available.
 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), 9.8, and 9.10, adjusted by the CPI; and *Monthy Energy Review*, September 2012, Table 9.8c. • Consumer Price Index, All Urban Consumers: U.S. Department of Labor, Bureau of Labor Statistics, series ID CUUR0000SA0. • Conversion Factors: Tables A1, A3, A4, and A6.





Note: See "Real Dollars" in Glossary. Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary.

Source: Table 1.7.

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

	Ener	rgy Consumption		Gross	Energy Consum	Energy Consumption per Real Dollar of GDP				
	Petroleum and Natural Gas	Other Energy ^a	Total	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total			
	(Quadrillion Btu		Billion Chained (2005) Dollars	Thousand Btu	per Chained (200	5) Dollar			
I										
973 Year	57.350	18.334	75.684	4,912.8	11.67	3.73	15.41			
974 Year	55.186	18.776	73.962	4,885.7	11.30	3.84	15.14			
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			
77 Year	57.054	20.907	77.961	5.373.1	10.62	3.89	14.51			
78 Year	57.963	21.987	79.950	5.672.8	10.22	3.88	14.09			
79 Year	57.788	23.070	80.859	5,850.1	9.88	3.94	13.82			
30 Year	54.440	23.627	78.067	5,834.0	9.33	4.05	13.38			
81 Year	51.680	24.426	76.106	5,982.1	8.64	4.08	12.72			
82 Year	48.588	24.511	73.099	5,865.9	8.28	4.18	12.46			
83 Year	47.273	25.698	72.971	6,130.9	7.71	4.19	11.90			
84 Year	49.447	27.185	76.632	6,571.5	7.52	4.14	11.66			
85 Year	48.628	27.764	76.392	6,843.4	7.11	4.06	11.16			
36 Year	48.790	27.857	76.647	7,080.5	6.89	3.93	10.83			
37 Year	50.504	28.551	79.054	7,307.0	6.91	3.91	10.82			
38 Year	52.671	30.038	82.709	7,607.4	6.92	3.95	10.87			
39 Year	53.811	30.975	84.786	7,879.2	6.83	3.93	10.76			
90 Year	53.155	31.330	84.485	8.027.1	6.62	3.90	10.52			
91 Year	52.879	31.559	84.438	8,008,3	6.60	3.94	10.54			
92 Year	54.239	31.544	85.783	8,280.0	6.55	3.81	10.36			
93 Year	54.973	32.450	87.424	8,516.2	6.46	3.81	10.27			
94 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	10.03			
	58.760	35.262	94.029			3.73				
96 Year				9,425.8	6.23		9.97			
97 Year	59.382	35.221	94.602	9,845.9	6.03	3.58	9.61			
98 Year	59.646	35.372	95.018	10,274.7	5.81	3.44	9.25			
99 Year	60.747	35.905	96.652	10,770.7	5.64	3.33	8.97			
00 Year	62.086	36.729	98.814	11,216.4	5.54	3.27	8.81			
01 Year	60.958	35.210	96.168	11,337.5	5.38	3.11	8.48			
02 Year	61.734	35.911	97.645	11,543.1	5.35	3.11	8.46			
03 Year	61.642	36.301	97.943	11,836.4	5.21	3.07	8.27			
04 Year	63.215	36.945	100.160	12,246.9	5.16	3.02	8.18			
05 Year	62.953	37.328	100.282	12.623.0	4.99	2.96	7.94			
06 Year	62.194	37.435	99.629	12,958.5	4.80	2.89	7.69			
07 Year	63.437	37.859	101.296	13,206.4	4.80	2.87	7.67			
08 Year	61.123	38.152	99.275	13,161.9	4.64	2.90	7.54			
09 Year	58.819	35.740	94.559	12.757.9	4.61	2.80	7.41			
10 Year	^R 60.584	37.398	^R 97.982	13.063.0	^R 4.64	2.80	R 7.50			
11 Year	^R 60.325	37.143	^R 97.468	13,299.1	^R 4.54	2.79	^R 7.33			

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

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

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 (December 20, 2012), Table 1.1.6.

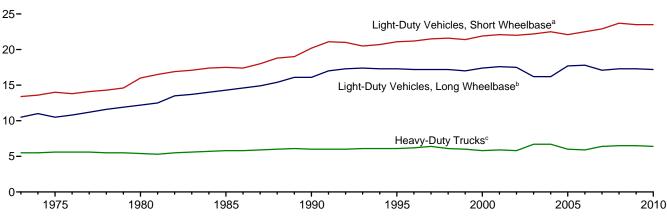


Figure 1.8 Motor Vehicle Fuel Economy, 1973-2010 (Miles per Gallon)

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

		ght-Duty Vehicl Short Wheelbas			ght-Duty Vehicle _ong Wheelbase		Н	eavy-Duty Truck	(s ^c	А	Il Motor Vehicle	s ^d
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Economy (miles per gallon)									
1973	9,884	737	13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9
1974	9,221	677	13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0
1975	9,309	665	14.0	9.829	934	10.5	15,167	2,722	5.6	9,627	790	12.2
1976	9,418	681	13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1
1977	9,517	676	14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3
1978	9,500	665	14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4
1979	9,062	620	14.6	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5
1980	8,813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9,458	712	13.3
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6
1982	9,050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9,644	686	14.1
1983	9,118	534	17.1	10,497	767	13.7	21,083	3,769	5.6	9,760	686	14.2
1984	9,248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6
1986	9,464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1
1988	9,972	531	18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6
1989	10,157	533	19.0	11,676	724	16.1	22,926	3,776	6.1	10,932	688	15.9
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4
1991	10,571	501	21.1	12,245	721	17.0	24,229	4,047	6.0	11,294	669	16.9
1992	10,857	517	21.0	12,381	717	17.3	25,373	4,210	6.0	11,558	683	16.9
1993	10,804	527	20.5	12,430	714	17.4	26,262	4,309	6.1	11,595	693	16.7
1994	10,992	531	20.7	12,156	701	17.3	25,838	4,202	6.1	11,683	698	16.7
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8
1996	11,330	534	21.2	11,811	685	17.2	26,092	4,221	6.2	11,813	700	16.9
1997	11,581	539	21.5	12,115	703	17.2	27,032	4,218	6.4	12,107	711	17.0
1998	11,754	544	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721	16.9
1999 2000	11,848	553 547	21.4	11,957 11,672	701 669	17.0 17.4	26,014	4,352 4,391	6.0 5.8	12,206	732 720	16.7 16.9
2000	11,976 11,831	534	21.9 22.1	11,072	636	17.4	25,617 26,602	4,391	5.8 5.9	12,164 11,887	695	17.1
2001	12,202	555	22.1	11,364	650	17.5	20,002	4,477	5.8	12,171	719	16.9
2002	12,202	556	22.0	11,304	697	16.2	28,093	4,042	6.7	12,171	719	17.0
2003	12,323	553	22.5	11.184	690	16.2	27,023	4,057	6.7	12,200	714	17.0
2004	12,400	567	22.5	10,920	617	17.7	26,235	4,385	6.0	12,200	706	17.1
2005	12,485	554	22.5	10,920	612	17.8	25,231	4,304	5.9	12,002	698	17.2
2000	a10.710	a468	a22.9	^b 14,970	b877	^b 17.1	°28,290	^c 4,398	6.4	11,915	693	17.2
2008	10,290	435	23.7	15,256	880	17.3	28,573	4,387	6.5	11,631	667	17.4
2009	10,391	442	23.5	15,252	882	17.3	26,274	4,037	6.5	11,631	661	17.6
2010P	10,649	453	23.5	15,463	898	17.2	26,609	4,174	6.4	11,853	678	17.5
	,		-0.0					.,	••••	.,		

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

2007, data are for large passenger cars, vans, pickup trucks, and sport utility

2007, data alle for large passenger cars, valis, pickup trucks, and sport utility vehicles with a wheelbase larger than 121 inches.
^c Through 2006, data are for single-unit trucks with 2 axles and 6 or more tires, and combination trucks. Beginning in 2007, data are for single-unit trucks with 2 axles and 6 or more tires or a gross vehicle weight rating exceeding 10,000 nounder and earth for the trucks. pounds, and combination trucks.

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

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

Note: Geographic coverage is the 50 States and the District of Columbia. Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Sources: • Light-Duty Vehicles, Short Wheelbase, 1990-1994: U.S. Department of Transportation, Bureau of Transportation Statistics, 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.

			December					Cumulative hrough Dec		
				Percent	Change				Percent	Change
Census Divisions	Normal ^a	2011	2012	Normal to 2012	2011 to 2012	Normal ^a	2011	2012	Normal to 2012	2011 to 2012
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	1,078	895	931	-14	4	2,462	1,976	2,213	-10	12
Middle Atlantic	1,070	000	551			2,402	1,570	2,210		12
New Jersey, New York, Pennsylvania	998	830	833	-17	(s)	2,191	1,783	1,980	-10	11
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	1,135	939	919	-19	-2	2,472	2,125	2,327	-6	10
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	1,248	1,056	1,111	-11	5	2,695	2,355	2,531	-6	7
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	555	436	431	-22	-1	1,083	918	1,025	-5	12
East South Central Alabama, Kentucky, Mississippi, Tennessee	715	604	546	-24	-10	1,410	1,274	1,338	-5	5
West South Central Arkansas, Louisiana, Oklahoma, Texas	520	497	411	-21	-17	905	849	769	-15	-9
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	928	963	885	-5	-8	2,147	1,995	1,809	-16	-9
Pacific ^b California, Oregon, Washington	563	585	574	2	-2	1,253	1,222	1,097	-12	-10
U.S. Average ^b	817	713	695	-15	-3	1,739	1,518	1,586	-9	4

Table 1.9 Heating Degree-Days by Census Division

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

^b Excludes Alaska and Hawaii.

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

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

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

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

			December				January	Cumulative through De		
				Percent	Change				Percent	Change
Census Divisions	Normal ^a	2011	2012	Normal to 2012	2011 to 2012	Normal ^a	2011	2012	Normal to 2012	2011 to 2012
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	0	0	0	NM	NM	417	607	611	47	1
	0	0	0	INIVI	INIVI	417	007	011	47	'
Middle Atlantic New Jersey, New York, Pennsylvania	0	0	0	NM	NM	656	886	895	36	1
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	0	0	0	NM	NM	709	897	999	41	11
West North Central Iowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	0	0	0	NM	NM	927	1,118	1,218	31	9
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	33	39	38	NM	NM	1,965	2,333	2,212	13	-5
East South Central						1,000	2,000	_,		
Alabama, Kentucky, Mississippi, Tennessee	3	0	0	NM	NM	1,548	1,817	1,783	15	-2
West South Central Arkansas, Louisiana, Oklahoma, Texas	10	6	34	NM	NM	2,450	3,173	2,935	20	-8
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	0	0	1	NM	NM	1,243	1,386	1,522	22	10
Pacific ^b California, Oregon, Washington	1	0	0	NM	NM	704	718	905	29	26
U.S. Average ^b	7	8	11	NM	NM	1,217	1,478	1,489	22	1

Table 1.10 Cooling Degree-Days by Census Division

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

^b Excludes Alaska and Hawaii.

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

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

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

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

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

Energy Overview

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

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

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

Table 1.5 Sources

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

Petroleum Exports

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

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

1993–2011: "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.

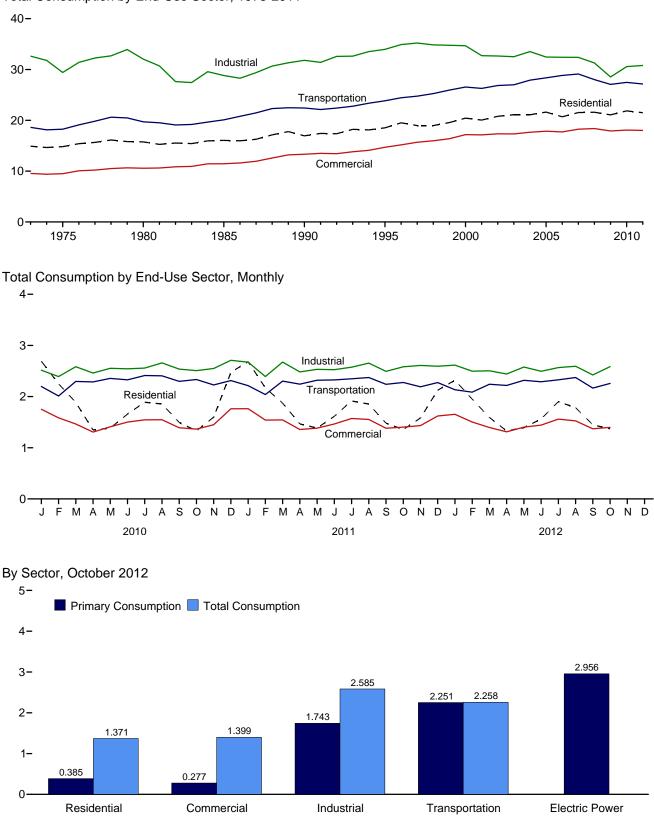
1992–2011: "U.S. International Trade in Goods and Services," Annual Revision.

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



Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.1.

Table 2.1 Energy Consumption by Sector

(Trillion Btu)

				End-Use	e Sectors				Electric		
	Resid	ential	Comm	erciala	Indus	strial ^b	Transpo	ortation	Power Sector ^{c,d}		
	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Total ^f	Primary ^e	Balancing Item ^g	Primary Total ^h
1973 Total	8,225	14,897	4,423	9,543	24,720	32,623	18,577	18,613	19,731	7	75,684
1975 Total	7,990	14,813	4,059	9,492	21,434	29,413	18,210	18,245	20,270	1	71,965
1980 Total	7,439	15,753	4,105	10,578	22,595	32,039	19,659	19,697	24,269	-1	78,067
1985 Total	7,148	16,041	3,732	11,451	19,443	28,816	20,041	20,088	26,032	-4	76,392
1990 Total 1995 Total	6,557 6,936	16,945 18,519	3,896 4,101	13,320 14,690	21,180 22,719	31,810 33,971	22,366 23,791	22,420 23,846	30,495 33,479	-9 3	84,485 91,029
1995 Total	0,930 7,467	19,504	4,101	15,172	22,719	34,904	24,383	23,646 24,437	33,479	3 4	91,029
1997 Total	7,033	18,965	4,295	15,681	23,686	35,200	24,695	24,750	34,886	6	94,602
1998 Total	6,413	18,955	4,005	15,968	23,177	34,843	25,201	25,256	36,225	-3	95,018
1999 Total	6,775	19,557	4,053	16,376	22,950	34,764	25,891	25,949	36,976	6	96,652
2000 Total	7,159	20,425	4,278	17,175	22,824	34,664	26,489	26,548	38,062	2	98,814
2001 Total	6,868	20,042	4,084	17,137	21,794	32,720	26,213	26,275	37,215	-6	96,168
2002 Total	6,912	20,791	4,132	17,345	21,799	32,662	26,781	26,842	38,016	5	97,645
2003 Total	7,211	21,097	4,283	17,331	21,502	32,522	26,920	26,994	38,028	-1	97,943
2004 Total	6,993 6,909	21,092 21,626	4,232 4,051	17,659 17,857	22,412 21,411	33,519 32,446	27,817 28,272	27,895 28,353	38,712 39,638	-6 (s)	100,160 100,282
2005 Total 2006 Total	6,909	21,626	4,051 3,747	17,857	21,411 21,536	32,446 32,401	28,272	28,353 28,830	39,638	(s) (s)	99,629
2007 Total	6,598	21,531	3,922	18,255	21,370	32,394	29,029	29,117	40,377	(3)	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	^R 1,141	^R 2,690	617	1,752	^R 1,723	^R 2,516	2,190	2,198	3,484	4	^R 9,160
February	^R 984	R 2,249	548	1,585	R 1,627	^R 2,391 ^R 2,584	R 2,005	2,012	3,073	1	^R 8,238 ^R 8,231
March	737 439	^R 1,886 1,347	419 277	1,465 1,307	^R 1,778 ^R 1,649	^R 2,364	2,290 2,280	2,297 2,286	3,008 2,755	-1 -2	^R 7,397
April May	328	^R 1,385	226	1,410	^R 1,638	R 2,553	2,280	2,200	3,163	-2	^R 7,704
June	R 267	1,659	198	1,501	^R 1,634	R 2,543	R 2,321	2,328	3,611	2	^R 8,034
July	240	1,889	182	1,546	^R 1,644	R 2,558	R 2,405	R 2,412	3,934	4	^R 8,409
August	232	1,855	186	1,547	R 1,732	^R 2,659	^R 2,400	2,406	3,917	3	^R 8,470
September	237	1,494	189	^R 1,391	^R 1,696	^R 2,537	^R 2,292	2,298	3,306	(s)	^R 7,719
October	343	1,331	256	1,364	^R 1,669	^R 2,508	2,327	^R 2,334	2,942	-1	^R 7,535
November	599	1,597	364	1,451	^R 1,698	R 2,550	R 2,222	2,228	2,944	-1	^R 7,825
December Total	^R 1,053 ^R 6,598	^R 2,475 ^R 21,857	579 ^R 4,040	1,761 ^R 18,079	^R 1,831 ^R 20,322	^R 2,709 ^R 30,569	2,307 ^R 27,388	2,314 ^R 27,469	3,488 ^R 39,627	1 8	^R 9,260 ^R 97,982
2011 January	^R 1.174	^R 2.683	^R 636	^R 1.762	^R 1.840	^R 2.674	^R 2,207	^R 2,214	3,477	R 3	^R 9.337
February	^R 954	^R 2,170	^R 531	^R 1,541	^R 1,619	R 2,392	R 2,034	^R 2,040	^R 3,006	R (s)	^R 8,143
March	^R 770	^R 1,873	^R 449	1,545	^R 1,811	^R 2,675	2,296	2,303	3,069	^R -2	^R 8,393
April	^R 481	^R 1,466	_ 299	^R 1,356	^R 1,637	^R 2,483	2,236	2,243	2,895	R -1	^R 7,546
May	R 330	^R 1,385	R 221	^R 1,384	^R 1,645	^R 2,532	^R 2,313	^R 2,320	3,111	^R -1	^R 7,620
June	^R 264	^R 1,615	R 198	^R 1,464	R 1,627	^R 2,526	^R 2,319	R 2,326	R 3,523	R 2 R 6	^R 7,934
July	242 ^R 252	1,915 1,854	^R 188 ^R 205	^R 1,573 1,553	^R 1,632 ^R 1,728	^R 2,575 ^R 2,655	2,341 2,366	2,348 2,373	4,008 3,883	R 5	^R 8,417 ^R 8,439
August September	264	^R 1,480	205	1,353	^R 1.651	^R 2,493	2,300	2,373	3,003 3,234	R(s)	^R 7,594
October	R 383	^R 1,356	R 286	^R 1,404	^R 1,716	^R 2,583	^R 2,270	^R 2,276	2,964	^R -2	^R 7,617
November	^R 595	^R 1,583	^R 368	^R 1,434	^R 1,753	^R 2.610	R 2,185	2.192	2,916	R-2	^R 7,816
December	^R 886	^R 2,125	^R 504	^R 1,621	^R 1,742	^R 2,594	^R 2,267	^R 2,274	^R 3,215	^R -1	^R 8,612
Total	^R 6,592	^R 21,504	^R 4,096	^R 18,015	^R 20,404	^R 30,793	^R 27,067	^R 27,148	^R 39,301	R 7	^R 97,468
2012 January	R 1,008	R 2,320	561 8 486	1,654	^R 1,797	^R 2,616	2,127	2,134	3,230	^R (s) ^R -2	^R 8,723
February	^R 848 ^R 574	1,951 1,593	^R 486 348	^R 1,503 1,395	^R 1,700 ^R 1,673	^R 2,496 ^R 2,504	2,080 2,235	2,087 R 2 242	2,922	^-2 R-5	^R 8,035 ^R 7,729
March April	424	1,593	⁸ 278	1,395	^R 1,673	^R 2,504	2,235 R 2,213	^R 2,242 2,219	2,903 2,770	R -5	^R 7,729
May	309	1,329	219	1,311	^R 1.671	R 2,578	2,312	^R 2,319	3,181	^R -2	^R 7,290
June	^R 263	^R 1,563	199	1,404	^R 1.615	R 2,495	2,284	R 2,291	3,429	1	^R 7,793
July	R 250	1,901	^R 192	^R 1,560	^R 1,641	^R 2,567	2,320	2,327	3,951	^R 5	^R 8,360
August	260	^R 1,784	^R 210	^R 1,526	^R 1,691	^R 2,594	2,366	2,373	3,750	^R 3	^R 8,280
September	259	^R 1,449	^R 207	^R 1,370	^R 1,608	^R 2,423	2,160	2,167	3,175	^R 1	^R 7,410
October	385	1,371 16 653	277 2 976	1,399	1,743 16 755	2,585 25,299	2,251	2,258	2,956	-2 -6	7,611
10-Month Total	4,582	16,653	2,976	14,565	16,755		22,350	22,416	32,269		78,926
2011 10-Month Total 2010 10-Month Total	5,113 4.947	17,796 17,786	3,225 3,097	14,962 14,868	16,908 16,792	25,589 25,309	22,615 22,859	22,682 22,927	33,169 33,194	11 8	81,040 80,897

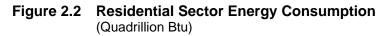
^a Commercial sector, including commercial combined-heat-and-power (CHP)

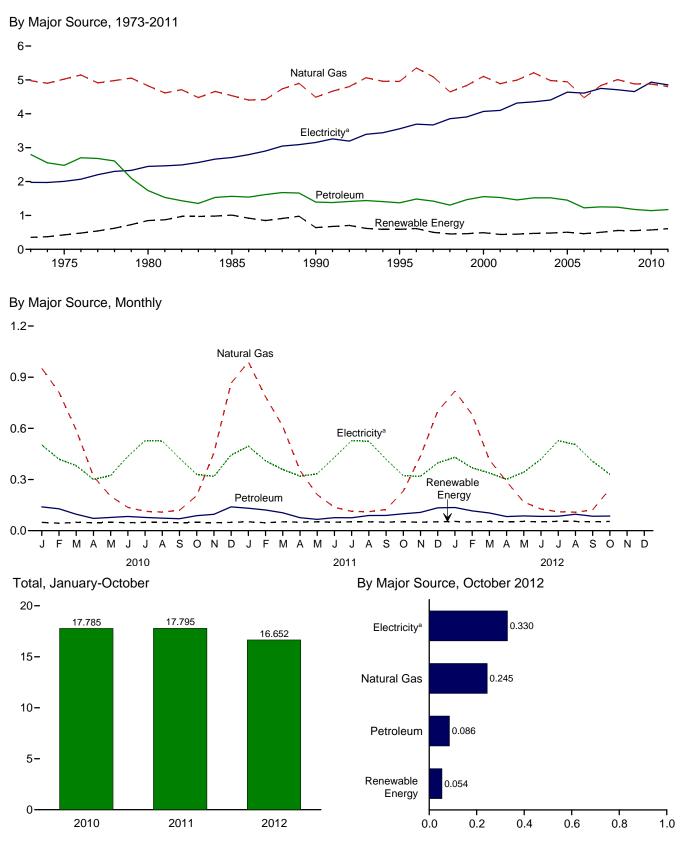
Commercial electricity-only plants.
 ^b Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants.
 ^c Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity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

the public. ^d Through 1988, data are for electric utilities only. Beginning in 1989, data are

for electric utilities and independent power producers. ^e See "Primary Energy Consumption" in Glossary.

f Total energy consumption in the end-use sectors consists of primary energy consumption, electricity retail sales, and electrical system energy losses. See Note 2, "Electrical System Energy Losses," at end of section. ⁹ A balancing item. The sum of primary consumption in the five energy-use sectors equals the sum of total consumption in the four end-use sectors. However, total energy consumption does not equal the sum of the sectoral components due to the use of sector-specific conversion factors for coal and natural gas. ^h Primary energy consumption total. See Table 1.3. R=Revised. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu. Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973. Sources: Tables 1.3 and 2.2–2.6.





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

Table 2.2 Residential Sector Energy Consumption

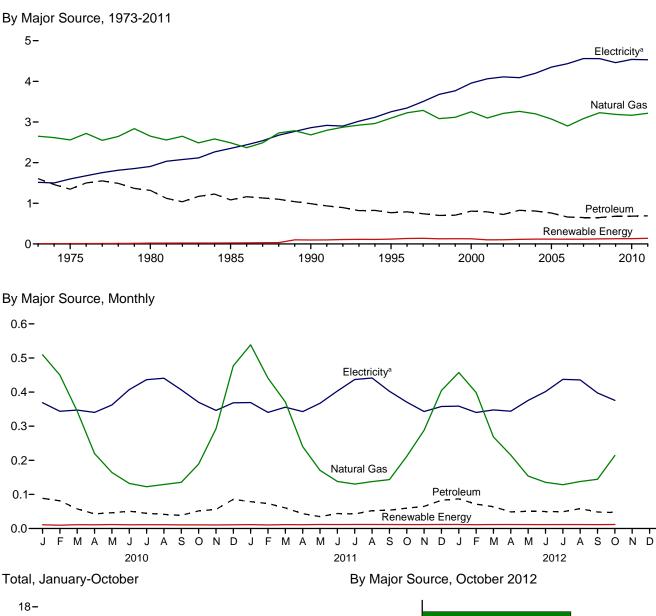
(Trillion Btu)

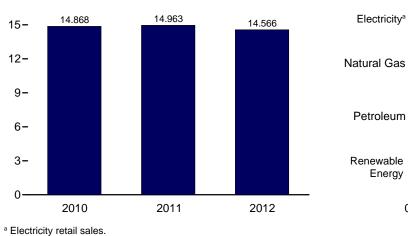
				Prima	ry Consum	otion ^a						
		Fossil	Fuels			Renewat	ole Energy ^b			Electricity	Electrical System	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Retail Sales ^d	Energy Losses ^e	Total
1973 Total 1975 Total 1985 Total 1985 Total 1990 Total 1995 Total 1997 Total 1997 Total 1997 Total 1997 Total 1997 Total 1997 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	94 63 31 31 17 16 12 14 11 12 12 12 12 12 18 6 8 8 8 7	4,977 5,023 4,825 4,534 4,491 4,954 5,354 5,093 4,646 4,835 5,105 4,889 4,995 5,209 4,995 5,209 4,9981 4,946 4,476 4,835 5,010 4,883	2,800 2,479 1,734 1,565 1,394 1,484 1,422 1,304 1,465 1,554 1,559 1,457 1,519 1,529 1,457 1,519 1,451 1,224 1,254 1,254 1,254	$\begin{array}{c} 7,871\\ 7,564\\ 6,589\\ 6,138\\ 5,916\\ 6,345\\ 6,854\\ 6,531\\ 5,962\\ 6,314\\ 6,531\\ 6,430\\ 6,430\\ 6,444\\ 6,741\\ 6,513\\ 6,406\\ 5,706\\ 6,097\\ 6,261\\ 6,067\end{array}$	NA NA NA 6 7 7 8 8 9 9 9 9 9 9 10 13 14 16 18 22 26 33	NA NA 56 64 63 61 59 57 57 58 63 70 80 89	354 425 850 580 520 540 430 380 420 370 380 410 430 380 410 430 380 410 430	354 425 850 1,010 641 591 452 461 489 438 448 448 470 481 504 462 502 557 552	8,225 7,990 7,148 6,557 6,936 7,467 7,033 6,413 6,775 7,159 6,868 6,912 7,211 6,993 6,909 6,168 6,598 6,598 6,517 R 6,618	1,976 2,007 2,448 2,709 3,153 3,657 3,694 3,671 3,856 3,906 4,069 4,100 4,317 4,408 4,638 4,638 4,638 4,638 4,656	4,696 4,817 5,866 6,184 7,235 8,026 8,344 8,261 8,686 8,875 9,197 9,562 9,534 9,562 9,534 9,690 10,079 9,909 10,182 10,071 9,789	14,897 14,813 15,753 16,041 16,945 18,519 19,554 19,557 20,042 20,791 21,097 21,097 21,626 20,688 21,531 21,596 R 21,063
2010 January February March April July August September October November December Total	1 (s) (s) ^R (s) ^R (s) ^R (s) (s) 1 1 7	R 952 R 811 R 591 201 137 R 113 109 120 R 205 456 865 R 4,878	140 128 96 72 78 83 78 74 70 88 96 140 1,142	R 1,093 R 940 R 688 392 R 279 221 R 191 183 190 294 552 R 1,005 R 6,027	3 3 3 3 3 3 3 3 3 3 3 3 3 3 7	10 9 10 9 10 10 10 9 10 9 10 114	36 32 36 35 36 36 36 36 35 36 35 36 420	48 44 48 47 48 47 48 47 48 47 48 47 48 571	^R 1,141 ^R 984 ^R 736 439 328 ^R 267 240 232 237 ^R 342 599 ^R 1,053 ^R 6,598	503 419 381 300 324 435 528 528 526 425 330 318 444 4,933	1,045 846 608 734 956 1,121 1,098 832 658 680 978 10,326	R 2,690 R 2,249 R 1,886 1,347 R 1,385 1,659 1,889 1,855 1,494 1,331 1,597 R 2,475 R 21,856
2011 January February April June July August October December Total	1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 989 R 785 R 613 R 354 R 211 R 137 R 113 R 111 124 R 232 R 437 R 699 R 4,804	132 121 105 76 67 76 89 89 99 107 134 1,171	R 1,122 R 907 R 718 R 430 R 278 R 214 190 R 200 214 331 R 545 R 834 R 545 R 834	3 3 3 3 3 3 3 3 3 3 3 3 3 40	12 11 12 12 12 12 12 12 12 12 12 12 12 1	37 33 35 35 37 35 37 37 35 37 35 37 430	52 47 52 50 52 52 52 52 52 52 52 52 52 610	R 1,174 R 953 R 770 R 481 R 330 R 264 R 241 R 252 264 R 383 R 595 R 886 R 6,591	495 410 358 320 333 430 528 525 419 323 318 397 4,855	1,015 806 R 745 666 722 R 920 1,145 1,077 798 650 670 842 10,057	R 2,683 R 2,169 R 1,872 R 1,466 R 1,385 1,614 1,915 R 1,853 R 1,480 R 1,356 R 1,582 R 2,125 R 21,503
2012 January February March April May June July August September October 10-Month Total	R (S) R (S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	^R 818 ^R 681 416 289 168 127 ^R 111 109 122 245 3,084	136 116 104 83 87 84 85 96 85 86 961	R 954 R 797 520 372 255 211 R 196 R 205 R 206 331 4,048	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	14 13 14 14 14 14 14 14 14 14 14	36 34 35 36 35 36 36 35 36 35 36 358	54 51 54 52 54 54 54 52 54 52 54 533	^R 1,008 ^R 848 ^R 574 424 309 ^R 263 ^R 250 R 259 259 385 4,581	431 368 338 301 343 420 528 505 407 330 3,970	881 734 680 603 739 880 1,123 1,020 784 656 8,101	R 2,320 R 1,950 1,593 1,329 1,391 R 1,563 1,901 R 1,784 R 1,449 1,371 16,652
2011 10-Month Total 2010 10-Month Total	5 6	3,669 3,559	930 906	4,604 4,471	33 31	117 95	358 350	508 475	5,112 4,947	4,140 4,171	8,543 8,667	17,795 17,785

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

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of electricity retail sales. See INDE 2, Electricity retail sales. See INDE 2, Electricity retail sales. See INDE 2, Electricity and Surveys," 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.
Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973. Sources: Tables 2.6, 3.8a, 4.3, 6.2, 7.6, 10.2a, A4, A5, and A6.

Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)





Web Page: http://www.eia.gov/totalenergy/data/monthly/#consumption. Source: Table 2.3.

0.376

0.214

0.3

0.4

0.5

0.6

0.2

0.047

0.1

0.012

0.0

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

					Primary	Consump	tion ^a							
		Fossi	I Fuels			R	enewabl	e Energ	y b			Elec-	Electrical	
	Coal	Natural Gas ^c	Petro- leum ^d	Total	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	tricity Retail Sales ^f	Electrical System Energy Losses ⁹	Total
1973 Total 1975 Total 1985 Total 1985 Total 1990 Total 1995 Total 1997 Total 1997 Total 1997 Total 1997 Total 1997 Total 1997 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total 2007 Total 2008 Total 2009 Total	160 147 115 137 124 117 122 129 93 103 92 97 90 82 97 90 803 97 65 70 69 864	2,649 2,558 2,651 2,488 3,226 3,226 3,225 3,285 3,285 3,285 3,285 3,285 3,285 3,225 3,221 3,221 3,221 3,221 3,201 3,201 3,201 3,025 3,025 3,228 3,282 3,285	1,607 1,346 1,318 1,083 991 769 790 707 707 707 707 807 726 827 807 726 827 807 756 827 809 761 663 649 651 682	4,416 4,051 4,084 3,798 3,982 4,138 4,157 3,878 4,157 3,975 4,150 3,982 4,157 3,925 4,150 3,925 4,150 3,923 3,629 3,805 3,948 R 3,933	NA NA NA NA NA NA NA NA NA 1 1 1 1 1 1 1	NA A A 3 5 5 6 7 7 8 8 9 11 2 14 14 15 17	NA NA NA 	NA NA NA 	7 8 21 24 94 113 129 131 118 121 119 92 95 101 105 103 103 109 112	7 8 21 24 98 135 138 135 129 128 104 113 118 120 118 118 125 129	4,423 4,059 4,105 3,732 3,896 4,101 4,273 4,295 4,005 4,053 4,278 4,053 4,278 4,053 4,278 4,053 4,278 4,132 4,233 4,232 4,051 3,747 3,922 4,073 R 4,062	1,517 1,598 1,906 2,351 3,252 3,344 3,503 3,678 3,956 4,062 4,110 4,090 4,199 4,1351 4,435 4,558 4,460	3,604 3,835 4,567 5,368 6,564 7,338 7,555 7,883 8,557 8,942 8,990 9,104 8,958 9,229 9,455 9,529 9,773 9,749 9,378	9,543 9,492 10,578 11,451 13,320 14,690 15,172 15,681 15,968 16,376 17,175 17,337 17,337 17,331 17,657 17,711 18,255 18,381 R 17,900
2010 January February March April June July August September October November December Total	87644444556 888 898	^R 510 450 344 220 164 132 123 129 ^R 136 189 292 477 ^R 3,165	89 81 58 43 46 51 44 41 39 52 56 85 685	606 538 ^R 408 266 214 187 171 175 178 245 353 ^R 569 ^R 3,910	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 1 2 2 2 2 2 2 2 2 2 2 2 2 19	(s)	(s)	9 8 9 10 9 9 10 9 9 9 9 111	11 10 11 12 11 11 11 11 11 11 10 11 130	617 548 419 277 198 182 186 189 256 364 579 R 4,040	369 344 347 340 407 436 441 406 370 346 369 4,539	766 694 689 822 896 927 920 795 738 741 813 9,501	1,752 1,585 1,465 1,307 1,410 1,541 1,546 1,547 ℝ 1,391 1,364 1,451 1,761 ℝ 18,080
2011 January February April June July August September October November December Total	7 6 6 4 4 4 3 3 8 4 4 8 7 8 4 8 7	R 539 R 441 R 371 R 240 R 171 R 138 R 130 138 R 143 R 212 R 288 R 405 R 3,214	79 73 60 43 35 44 42 52 54 60 65 83 691	R 625 R 521 438 R 287 210 R 186 R 176 R 193 R 200 R 275 R 357 R 492 R 3,960	(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)	(3) (3) (3) (3) (3) (3) (3) (3) (3) (3)	10 9 10 10 10 10 10 10 10 10 10 117	11 10 11 12 12 12 12 12 11 12 12 12 12 12 138	R 636 R 531 R 449 299 R 221 R 198 R 188 R 205 212 R 286 R 368 R 504 R 4,097	369 340 356 343 403 437 441 402 371 343 358 4,531	757 670 740 714 795 863 948 906 767 747 722 759 ^R 9,388	R 1,762 R 1,541 1,545 R 1,356 R 1,384 R 1,464 R 1,464 R 1,573 1,553 1,381 R 1,404 R 1,404 R 1,434 R 1,621 R 18,016
2012 January February April May June July August September October 10-Month Total	544 333 83 83 82 4 33	458 ^R 399 268 215 ^R 154 135 ^R 128 138 ^R 144 214 2,253	87 71 64 49 51 50 49 58 48 48 47 574	549 ^R 474 336 ^R 267 207 ^R 188 ^R 188 ^R 189 ^R 199 ^R 195 265 2,861	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 2 2 2 2 2 2 2 2 2 2 2 2 16	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	10 10 10 10 10 10 10 10 10 98	12 11 12 11 12 11 12 12 11 12 11 12 116	561 ^R 486 348 ^R 278 219 199 ^R 192 ^R 210 ^R 207 277 2,977	359 340 348 344 376 401 437 436 397 376 3,814	734 678 699 889 810 842 931 880 766 747 7,775	1,654 ^R 1,504 1,395 1,311 1,404 ^R 1,443 ^R 1,560 ^R 1,526 ^R 1,370 1,399 14,566
2011 10-Month Total 2010 10-Month Total	46 50	2,522 2,396	543 543	3,111 2,989	(s) 1	16 15	1 (s)	(s) (s)	97 93	115 109	3,226 3,098	3,830 3,824	7,907 7,947	14,963 14,868

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

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

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

Btu. Notes: • The commercial sector includes commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973. Sources: Tables 2.6, 3.8a, 4.3, 6.2, 7.6, 10.2a, A4, A5, and A6.

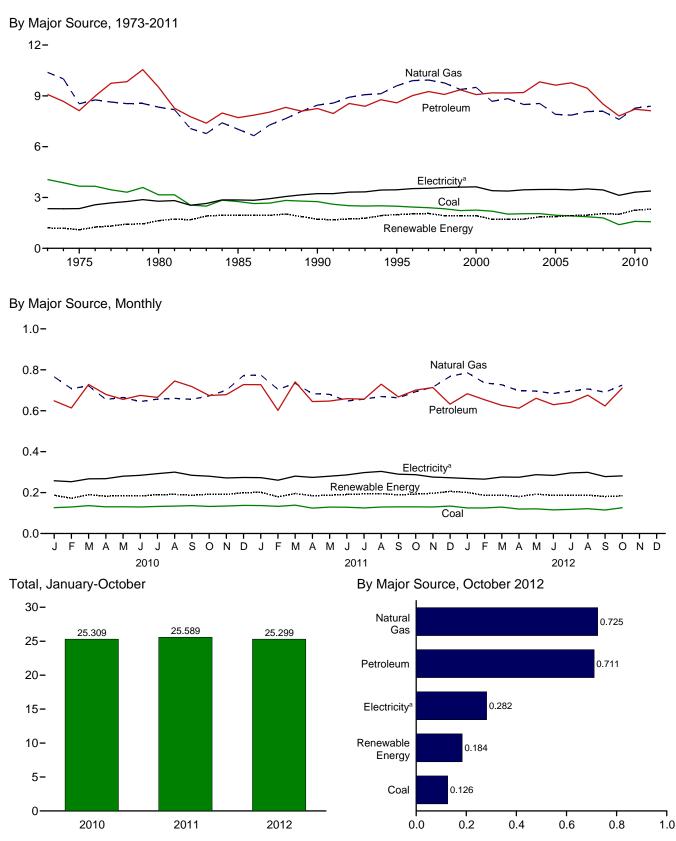


Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

^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)

1973 Total 1975 Total 1985 Total 1985 Total 1990 Total 1995 Total 1990 Total 1997 Total 1998 Total 1997 Total 1998 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total	Coal 4,057 3,667 3,155 2,756 2,756 2,488 2,434 2,395	Natural Gas ^c 10,388 8,532 8,333 7,032 8,451	Petro- leum ^d 9,083 8,127 9,509 7,714	Total ^e 23,521 20,339	Hydro- electric Power ^f 35	Geo- thermal	Renewabl Solar/ PV		Bio-		Total	Elec- tricity Retail	Electrical System Energy	
1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 2000 Total 2001 Total	4,057 3,667 3,155 2,760 2,756 2,488 2,434 2,395	Gas ^c 10,388 8,532 8,333 7,032 8,451	9,083 8,127 9,509	23,521 20,339	electric Power ^f	thermal		M (1-1-1	Bio-		Total			
1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 2000 Total 2001 Total	3,667 3,155 2,760 2,756 2,488 2,434 2,395	8,532 8,333 7,032 8,451	8,127 9,509	20,339	35			Wind	mass	Total	Primary	Sales ^g	Lossesh	Total ^e
1980 Total 1985 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total	3,155 2,760 2,756 2,488 2,434 2,395	8,333 7,032 8,451	9,509		32	NA NA	NA NA	NA NA	1,165 1,063	1,200 1,096	24,720 21,434	2,341 2,346	5,562 5,632	32,623 29,413
1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total	2,760 2,756 2,488 2,434 2,395	7,032 8,451	7,714	20,962	33	NA	NA	NA	1,600	1,633	22,595	2,781	6,664	32,039
1990 Total 1995 Total 1996 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total	2,488 2,434 2,395			17,492	33	NA	NA	NA	1,918	1,951	19,443	2,855	6,518	28,816
1996 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total	2,434 2,395		8,251	19,463	31	2	-	-	1,684	1,717	21,180	3,226	7,404	31,810
1997 Total 1998 Total 1999 Total 2000 Total 2001 Total	2,395	9,592	8,586	20,727	55	3	_	-	1,934	1,992	22,719	3,455	7,796	33,971
1998 Total 1999 Total 2000 Total 2001 Total		9,901 9,933	9,019 9,255	21,377 21,629	61 58	3	_		1,969 1,996	2,033 2,057	23,410 23,686	3,527 3,542	7,968 7,972	34,904 35,200
1999 Total 2000 Total 2001 Total	2,335	9,763	9,082	21,248	55	3	_	_	1,872	1,929	23,177	3,587	8,079	34,843
2000 Total 2001 Total	2,227	9,375	9,356	21,016	49	4	_	-	1,882	1,934	22,950	3,611	8,203	34,764
2001 Total	2,256	9,500	9,075	20,896	42	4	-	-	1,881	1,928	22,824	3,631	8,208	34,664
	2,192	8,676	9,178	20,075	33	5	-	-	1,681	1,719	21,794	3,400	7,526	32,720
	2,019 2.041	8,832 8,488	9,168 9.197	20,079	39 43	5 3	_	-	1,676	1,720 1,725	21,799	3,379	7,484	32,662
2003 Total 2004 Total	2,041	8,400 8,550	9,197	19,777 20,559	43	3 4	_	_	1,679 1,817	1,725	21,502 22,412	3,454 3,473	7,565 7,634	32,522 33,519
2005 Total	1.954	7,907	9,633	19,538	32	4	-	-	1,837	1,873	21,411	3,477	7,557	32,446
2006 Total	1,914	7,861	9,770	19,606	29	4	-	-	1,897	1,930	21,536	3,451	7,415	32,401
2007 Total	1,865	8,074	9,451	19,414	16	5	-	-	1,936	1,956	21,370	3,507	7,517	32,394
2008 Total	1,796	8,083	8,511	18,431	17	5	-	_	2,028	2,049	20,480	3,444	7,365	31,290
2009 Total	1,396	7,609	7,816	16,797	18	4	-	-	1,994	2,016	18,813	3,130	6,582	28,525
2010 January	126	^R 766	648	^R 1,536	2	(s)	(s)	_	185	187	^R 1,723	258	535	^R 2,516
February	130	^R 708	614	^R 1,455	2	(s)	(s)	-	170	172	^R 1,627	253	511	^R 2,391
March	136	^R 722	728	^R 1,588	2	(s)	(s)	-	188	190	^R 1.778	267	538	^R 2.584
April	130	^R 655	680	^R 1,466	2	(s)	(s)	-	181	183	^R 1,649	268	543	^R 2,460
May	131	R 665	655	^R 1,453 ^R 1,450	2	(s)	(s)	-	183	185 183	R 1,638	280	635	R 2,553
June July	130 132	^R 645 ^R 657	675 665	^R 1,450	1	(s) (s)	(s) (s)	_	182 188	183	^R 1,634 ^R 1,644	284 292	625 621	^R 2,543 ^R 2,558
August	134	^R 660	745	^R 1,541	1	(S)	(s)	_	190	191	^R 1,732	300	626	R 2,659
September	136	^R 656	718	^R 1,509	1	(s)	(s)	-	185	187	R 1,696	284	557	^R 2,537
October	132	^R 672	675	^R 1.478	1	(s)	(s)	-	190	192	^R 1.669	280	559	^R 2.508
November	134	R 700	679	^R 1,507	1	(s)	(s)	-	190	191	^R 1,698	272	581	^R 2,550
December Total	138 1,590	^R 772 ^R 8,278	728 8,210	^R 1,632 ^R 18,072	1 16	(s) 4	(s) (s)	_	198 2,230	199 2,250	^R 1,831 ^R 20,322	274 3,313	604 6,934	^R 2,709 ^R 30,569
2011 January	137	^R 775	727	^R 1,639	1	(s)	(s)	(s)	200	202	^R 1,840	273	560	^R 2,674
February	133	R 705	602	^R 1,440	2	(s)	(s)	(s)	178	180	^R 1,619	260	512	R 2,392
March April	139 124	^R 734 ^R 683	741 645	^R 1,615 ^R 1,452	2 2	(s) (s)	(s) (s)	(s) (s)	193 183	196 185	^R 1,811 ^R 1,637	280 274	583 571	^R 2,675 ^R 2,483
May	124	^R 680	647	^R 1,458	2	(S)	(s)	(s) (s)	185	187	^R 1.645	280	607	R 2,532
June	128	^R 647	659	^R 1.436	1	(s)	(s)	(s)	189	191	^R 1,627	286	613	^R 2.526
July	125	^R 657	657	^R 1,438	1	(s)	(s)	(s)	192	194	^R 1,632	298	646	^R 2,575
August	130	^R 669	730	^R 1,533	1	(s)	(s)	(s)	193	195	^R 1,728	304	623	^R 2,655
September	130 130	^R 663 ^R 693	668 701	^R 1,462 ^R 1,523	1	(s)	(s)	(s)	188 191	189 193	^R 1,651 ^R 1,716	290 288	552 579	^R 2,493 ^R 2,583
October November	130	^R 715	701	^R 1,556	1	(s) (s)	(s) (s)	(s) (s)	191	193	^R 1,753	200 276	579	^R 2,610
December	134	R 768	632	^R 1,537	2	(s)	(s)	(S)	204	206	^R 1,742	273	579	^R 2,594
Total	1,569	^R 8,389	8,121	^R 18,090	17	4	(s)	(s)	2,291	2,313	^R 20,404	3,382	7,007	^R 30,793
2012 January	125	^R 786	683	^R 1,596	2	(s)	(s)	(s)	199	201	^R 1.797	269	550	^R 2,616
February	125	^R 736	654	^R 1,515	2	(s)	(s)	(s)	184	186	^R 1,700	266	530	^R 2,496
March	129	^R 727	626	^R 1.485	2	(s)	(s)	(s)	185	187	^R 1,673	276	555	^R 2.504
April	119	^R 698	613	R 1,435	2	(s)	(s)	(s)	179	181	^R 1,616	275	551	R 2,442
May	^R 121 115	^R 696 ^R 684	661 630	^R 1,478 ^R 1,429	2	(s)	(s)	(s)	190 185	192 186	^R 1,671 ^R 1.615	288 284	620 596	^R 2,578 ^R 2,495
June July	^R 115	R 695	630 640	^R 1,429	1	(s) (s)	(s) (s)	(s) (s)	185	186	^R 1,615	284 296	596 630	R 2,495
August	^R 121	^R 706	676	^R 1,504	1	(s)	(S)	(S)	186	187	^R 1,691	299	604	^R 2,594
September	^R 115	^R 691	623	^R 1,427	1	(s)	(s)	(s)	179	181	^R 1,608	278	536	^R 2,423
October	126	725	711	1,559	1	(s)	(s)	(s)	183	184	1,743	282	560	2,585
10-Month Total	1,215	7,144	6,517	14,882	14	4	(s)	(s)	1,856	1,873	16,755	2,812	5,732	25,299
2011 10-Month Total 2010 10-Month Total	1,305 1,318	6,906 6,806	6,775 6,804	14,997 14,932	14 14	3 3	(s) (s)	(s)	1,893 1,843	1,911 1,860	16,908 16,792	2,834 2,767	5,847 5,750	25,589 25,309

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

^b Most data are estimates. See Table 10.20 for fores on series componence and estimation.
 ^c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 ^d Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
 ^e Includes coal coke net imports, which are not separately displayed. See Table 1 de coad 1 db.

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

⁹ Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 ⁿ Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are

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

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

Notes: • The industrial sector includes industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973. Sources: Tables 1.4a, 1.4b, 2.6, 3.8b, 4.3, 6.2, 7.6, 10.2b, A4, A5, and A6.

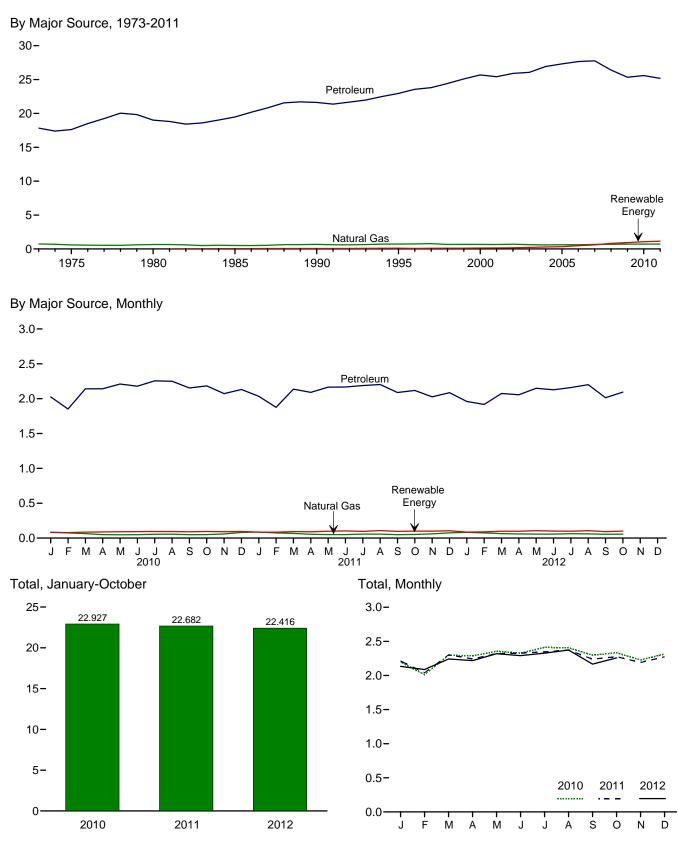


Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)

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

Table 2.5 Transportation Sector Energy Consumption

(Trillion Btu)

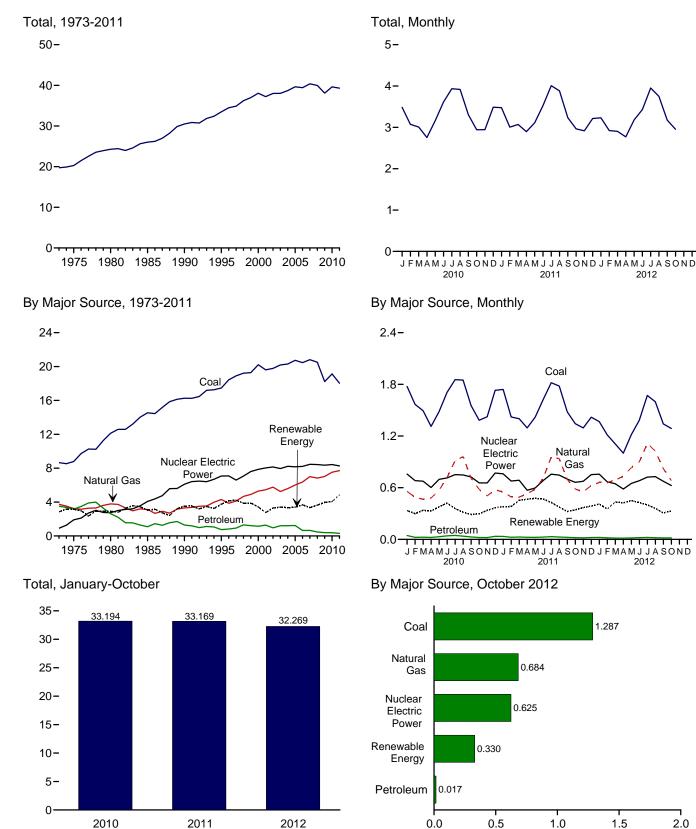
L		Fossi	l Fuels		Renewable Energy ^b	- I	Electricity	Electrical System	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Total Primary	Retail Sales ^e	Energy Losses ^f	Total
973 Total	3	743	17,832	18,577	NA	18,577	11	25	18,613
975 Total	1	595	17,615	18,210	NA	18,210	10	24	18,245
980 Total	(^g)	650	19,009	19,659	NA	19,659	11	27	19,697
985 Total	(g) (g)	519 680	19,472 21,626	19,992 22,306	50 60	20,041 22,366	14 16	32 37	20,088
990 Total 995 Total	(g)	724	21,626	22,306	112	22,366 23,791	16	37	22,420 23,846
996 Total	(a)	737	23,565	24,302	81	24,383	17	38	23,840
997 Total	(°)	780	23,813	24,593	102	24,695	17	38	24,750
998 Total	(°)	666	24.422	25.088	113	25.201	17	38	25.256
999 Total	(°)	675	25,098	25,774	118	25,891	17	40	25,949
000 Total	(g)	672	25,682	26,354	135	26,489	18	42	26,548
001 Total	(^g)	658	25,412	26,070	142	26,213	20	43	26,275
002 Total	(g)	699	25,913	26,612	170	26,781	19	42	26,842
J03 Total	(9) (9)	627	26,063	26,690	230 290	26,920	23 25	51	26,994
004 Total 005 Total	(9) (9)	602 624	26,925 27,309	27,527 27,933	290	27,817 28,272	25	54 56	27,895 28.353
006 Total	(9)	625	27,651	28,276	475	28,751	20	56	28,830
007 Total	(9)	663	27,763	28,427	602	29,029	23	60	20,030
008 Total	(9)	692	26,407	27,099	826	27,925	26	56	28,008
009 Total	(g)	715	25,339	26,054	935	26,989	27	56	27,071
10 January	(g)	84	2,025	^R 2,110	81	2,190	2	5	2,198
February	(g)	74	1,851	1,926	79	R 2,005	2	5	2,012
March	(g)	64	2,141	2,205	85	2,290	2	5	2,297
April	(9) (9)	50 48	2,142 2,209	2,193	87 92	2,280 2,349	2 2	4	2,286 2,356
May June	(9)	40 49	2,209	2,257 2.228	92	^R 2,321	2	5 5	2,300
July	(9)	54	2,256	2,220	93 94	R 2,405	2	5	R 2,412
August	(g)	56	2,250	2,306	94	R 2,400	2	4	2,406
September	(9)	R 49	2,153	2,202	90	R 2,292	2	4	2,298
October	(e)	49	2,184	2,233	94	2.327	2	4	^R 2,334
November	(°)	59	2,072	2,131	91	^R 2,222	2	4	2,228
December	(g)	_ 81	2,132	2,213	94	2,307	2	5	2,314
Total	(g)	^R 719	25,595	^R 26,314	1,074	^R 27,388	26	55	^R 27,469
11 January	(g)	^R 87 ^R 74	2,034 1.876	^R 2,121 ^R 1,950	86 84	^R 2,207 ^R 2,034	2 2	5 4	^R 2,214 ^R 2,040
February March	(9)	67	2,136	2.203	93	2,034	2	5	2,040
April	(a)	55	2,091	2,205	90	2,236	2	4	2,243
May	(a)	50	2,165	R 2,215	98	R 2,313	2	5	R 2,320
June	(e)	50	2,167	2,217	102	^R 2,319	2	5	^R 2,326
July	(a)	^R 56	2,188	2,245	96	2,341	2	5	2,348
August	(g)	R 56	2,203	R 2,259	107	2,366	2	4	2,373
September	(9) (9)	^R 49 ^R 52	2,088	R 2,137	96	2,234 B 2,270	2	4 4	2,240 B 2,276
October	(9)	60	2,118 2,026	^R 2,170 2,086	100 99	^R 2,270 ^R 2,185	2 2	4	^R 2,276 2,192
November December	(9)	^R 76	2,026	^R 2,066	99 105	^R 2,267	2	4 5	R 2,274
Total	(g)	R 732	25,179	R 25,910	1,157	R 27,067	26	54	R 27,148
12 January	(g)	^R 82	1,960	^R 2,042	86	2,127	2	5	2,134
February	(g)	74	1,917	1,991	89	2,080	2	4	2,087
March	(g)	R 64	2,074	R 2,138	98	2,235	2	4	R 2,242
April	(9) (9)	R 59	2,056	R 2,115	98	R 2,213	2	4	2,219 B 2,210
May	(9)	56 56	2,149 2,127	^R 2,206 ^R 2,184	107 101	2,312 2,284	2 2	4 4	^R 2,319 ^R 2,291
June July	(9)	56 62	2,127	2,184	98	2,284 2,320	2	4 5	2,291
August	(9)	60	2,100	2,222	106	2,320	2	4	2,327
September	(9)	54	2,014	2,068	92	2,160	2	4	2,167
October	(e)	57	2,094	2,151	101	2,251	2	4	2,258
10-Month Total	(g)	625	20,751	21,375	975	22,350	21	44	22,416
11 10-Month Total 10 10-Month Total	(g)	596 579	21,067 21,391	21,663 21,970	952 889	22,615 22,859	22 22	45 46	22,682 22,927

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

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

electricity retail sales. See Note 2, "Electrical System Energy Losses," at end of section.
⁹ Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption. R=Revised. NA=Not available. Notes: • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973. Sources: Tables 2.6, 3.8c, 4.3, 6.2, 7.6, 10.2b, A4, A5, and A6.

Figure 2.6 Electric Power Sector Energy Consumption (Quadrillion Btu)



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

Table 2.6 **Electric Power Sector Energy Consumption**

(Trillion Btu)

						Prima	ry Consum	ption ^a					
		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	14,542	<u>3,135</u>	<u>1,090</u>	18,767	<u>4,076</u>	2,937	<u>97</u>	<u>(s)</u>	(s)	<u>14</u>	<u>3,049</u>	<u>140</u>	26,032
1990 Total ^e		3,309	1,289	20,859	6,104	3,014	161	4	29	317	3,524	8	30,495
1995 Total		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	23,957	6,597	3,581	150	5	34	446	4,216	116	34,886
1998 Total	19,216	4,675	1,306	25,197	7,068	3,241	151	5	31	444	3,872	88	36,225
1999 Total	19,279	4,902	1,211	25,393	7,610	3,218	152	5	46	453	3,874	99	36,976
2000 Total	20,220	5,293	1,144	26,658	7,862	2,768	144	5	57	453	3,427	115	38,062
2001 Total	19,614	5,458	1,277	26,348	8,029	2,209	142	6	70	337	2,763	75	37,215
2002 Total 2003 Total 2004 Total 2005 Total	19,783 20,185 20,305 20,737	5,767 5,246 5,595 6,015	961 1,205 1,212 1,235	26,511 26,636 27,112 27,986	8,145 7,959 8,222 8,161	2,650 2,749 2,655 2,670	147 146 148 147	6 5 6	105 113 142 178	380 397 388 406	3,288 3,411 3,339 3,406	72 22 39 85	38,016 38,028 38,712 39,638
2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	20,462 20,808 20,513 18,225	6,375 7,005 6,829 7,022	648 657 468 390	27,485 28,470 27,810 25,638	8,215 8,455 8,427 8,356	2,839 2,430 2,494 2,650	145 145 146 146	5 6 9 9	264 341 546 721	412 423 435 441	3,665 3,345 3,630 3,967	63 107 112 116	39,428 40,377 39,978 38,077
2010 January	1,775	557	45	2,377	758	217	13	(s)	67	39	335	14	3,484
February	1,568	489	23	2,080	682	199	11	(s)	53	36	300	12	3,073
March	1,494	466	25	1,984	676	202	13	1	84	39	338	10	3,008
April	1,312	480	23	1,815	602	184	12	1	95	36	329	9	2,755
May	1,483	570	31	2,084	697	243	13	1	85	36	378	5	3,163
June	1,708	719	41	2,468	714	290	12	2	79	39	421	9	3,611
July	1,855	914	46	2,815	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 November December Total	1,383 1,423 1,731 19,133	581 506 575 ^R 7,528	22 21 36 378	1,986 1,950 2,341 27,039	656 655 770 8,434	171 190 225 2,521	12 12 13 148	1 (s) 12	77 95 88 923	37 39 41 459	298 337 367 4,064	1 3 9 89	2,942 2,944 3,488 ^R 39,627
2011 January February	1,741 1,421	550 493 491	35 24 28	2,326 1,938 1,920	761 678 687	247 233 301	13 12 13	(s) 1 1	83 102 102	37 35 36	381 382 453	9 8 8	3,477 ^R 3,006
March April May June	1,401 1,294 1,418 1,623	531 ^R 582 712	20 24 24 26	^R 1,849 ^R 2,024 2,361	571 597 683	301 301 315 311	13 12 13 12	2 2 2	102 121 114 107	30 32 34 37	453 467 477 469	o 7 12 11	3,069 2,895 3,111 ^R 3,523
July	1,819	955	32	2,806	757	303	12	2	73	39	429	16	4,008
August	1,780	938	27	2,745	746	249	12	2	73	39	376	16	3,883
September	1,481	696	24	2,201	700	207	12	2	67	37	323	10	3,234
October	1,343	585	20	1,949	663	191	12	1	102	36	343	10	2,964
November December Total	1,294 1,419 18,035	552 625 7,712	18 22 303	1,864 2,066 26,050	675 752 8,269	199 229 3,085	12 13 149	1 1 17	121 103 1,167	36 39 437	369 386 4,855	8 12 127	2,904 2,916 ^R 3,215 ^R 39,301
2012 January	1,368	660	23	2,051	757	225	14	1	134	37	410	11	3,230
February	1,214	660	18	1,892	668	196	13	1	108	34	353	9	2,922
March	1,108	689	15	1,812	646	249	14	2	135	35	435	10	2,903
April	1,001	733	15	1,748	585	252	13	3	124	31	424	13	2,770
May	1,216	832	17	2,065	650	276	14	5	122	35	451	15	3,181
June	1,385	901	20	2,306	682	257	13	5	116	36	428	14	3,429
July	1,672	1,113	23	2,808	723	259	14	5	85	38	401	19	3,951
August	1,598	1,025	19	2,643	728	224	13	4	80	38	360	19	3,750
September	1,341	821	17	2,179	675	170	13	4	84	36	307	14	3,175
October	1,287	684	17	1,988	625	156	14	4	122	35	330	12	2,956
10-Month Total	13,190	8,119	185	21,493	6,739	2,264	135	35	1,111	354	3,900	137	32,269
2011 10-Month Total	15,322	6,533	264	22,119	6,842	2,657	124	15	943	362	4,100	108	33,169
2010 10-Month Total	15,980	6,445	322	22,747	7,009	2,107	123	11	740	380	3,361	77	33,194

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

for electric utilities and independent power producers. R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • Data are for fuels consumed to produce electricity and useful thermal

output. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • See Note 1, "Energy Consumption Data and Surveys," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973. Sources: Tables 3.8c, 4.3, 6.2, 7.1, 7.2b, 10.2c, A4, A5, and A6.

Energy Consumption by Sector

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

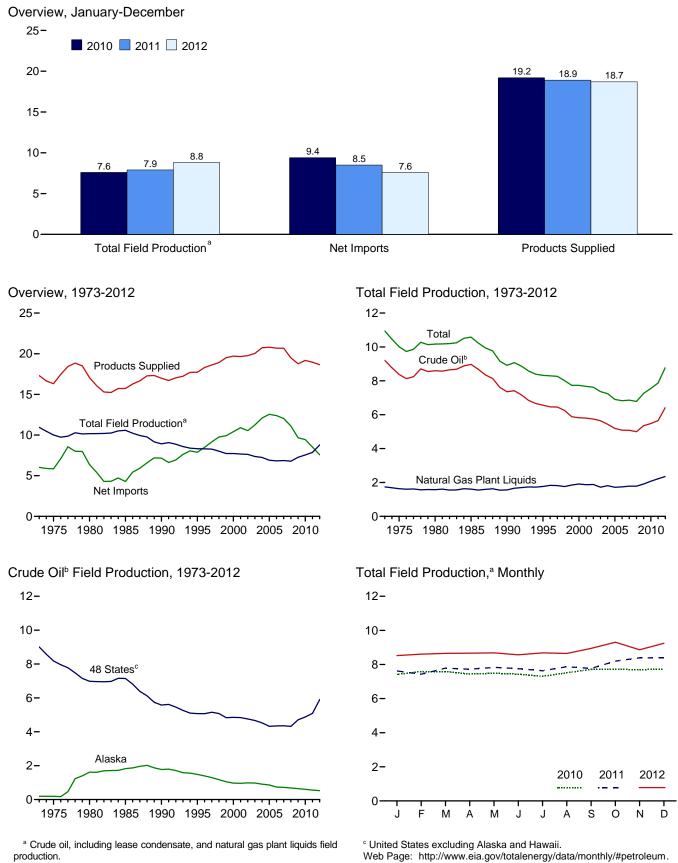
Users of EIA's energy consumption statistics should be aware of a second group of energy-related surveys, typically called "consumption surveys." Consumption surveys gather information on the types of energy consumed by end users of energy, along with the characteristics of those end users that can be associated with energy use. For example, the Manufacturing Energy Consumption Survey belongs to the consumption survey group because it collects information directly from end users (the manufacturing establishments). There are important differences between the supply and consumption surveys that need to be taken into account in any analysis that uses both data sources. For information on those differences, see Energy Consumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys, DOE/EIA-0533, U.S. Energy Information Administration, Washington, DC, April 6, 1990.

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

3. Petroleum

.

Figure 3.1 Petroleum Overview (Million Barrels per Day)



^bIncludes lease condensate.

Source: Table 3.1.

Table 3.1 **Petroleum Overview**

(Thousand Barrels per Day)

		Fie	eld Produc	tion ^a		Banaur			Trade				
	48 States ^d	Crude Oil ^b Alaska	o,c Total	NGPL ^{e,f}	Total ^c	Renew- able Fuels and Oxy- genates ^g	Process- ing Gain ^h	lm- ports ⁱ	Ex- ports ^f	Net Imports ^j	Stock Change ^k	Adjust- ments ^{c,l}	Petroleum Products Supplied
1973 Average 1975 Average 1980 Average 1980 Average 1985 Average 1990 Average 1995 Average 1996 Average 1997 Average 1998 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 Average 2008 Average 2008 Average 2009 Average	9,010 8,183 6,980 7,146 5,582 5,076 5,077 4,832 4,851 4,839 4,670 4,522 4,348 4,352 4,348 4,354 4,318	198 191 1,617 1,825 1,773 1,484 1,393 1,296 1,175 1,050 970 963 985 974 908 864 741 722 683 645	$\begin{array}{c} 9,208\\ 8,375\\ 8,5971\\ 7,355\\ 6,560\\ 6,452\\ 6,252\\ 5,801\\ 5,822\\ 5,801\\ 5,744\\ 5,435\\ 5,186\\ 5,089\\ 5,077\\ 5,000\\ 5,353\end{array}$	1,738 1,633 1,579 1,559 1,559 1,830 1,817 1,759 1,850 1,911 1,868 1,880 1,719 1,809 1,717 1,739 1,739 1,783 1,784 1,910	10,946 10,007 10,170 8,914 8,295 8,269 8,269 8,011 7,731 7,733 7,670 7,624 7,363 7,624 7,363 6,827 6,860 6,784 7,263	NA AA NA AAA NA AAAAAAAAAAAAAAAAAAAAAAA	453 460 597 557 683 774 830 886 886 886 886 948 903 957 974 1,051 989 994 994 996 993 979	6,256 6,056 6,009 5,067 8,018 8,835 9,478 10,162 10,708 11,459 11,459 11,457 11,457 12,264 13,714 13,707 13,468 12,915 11,691	231 209 544 781 1,003 949 945 940 1,040 971 1,048 1,165 1,317 1,485 1,802 2,024	6,025 5,846 6,365 4,286 7,161 7,886 8,9764 9,912 10,419 10,900 10,546 11,238 12,097 12,549 12,3036 11,114 9,667	135 32 140 -103 107 -246 -151 143 239 -422 -69 325 -105 56 209 145 60 -148 195 109	18 41 64 2000 338 496 528 487 532 501 529 514 548 506 536 641 802 226	17,308 16,322 17,056 15,726 16,988 17,725 18,309 18,620 18,917 19,519 19,761 20,034 20,731 20,687 20,680 19,498 18,771
2010 January February April May June July August September October November December Average	4,758 4,911 4,867 4,738 4,827 4,849 4,769 4,906 4,994 4,978 4,952 4,982 4,982 4,877	640 635 646 571 534 538 614 618 606 632 601	5,399 5,546 5,513 5,377 5,398 5,384 5,313 5,445 5,608 5,558 5,614 5,614 5,479	2,017 2,043 2,076 2,061 2,091 2,046 1,994 2,071 2,104 2,125 2,136 2,124 2,074	7,416 7,589 7,589 7,438 7,430 7,307 7,515 7,712 7,515 7,712 7,694 7,739 7,553	846 874 895 878 893 905 911 915 924 967 961 907	961 1,060 1,064 1,028 1,069 1,109 1,123 1,062 1,012 1,051 1,187 1,068	11,300 11,230 11,621 12,526 12,141 12,444 12,675 12,356 11,823 11,142 11,096 11,132 11,793	1,897 2,034 2,149 2,432 2,399 2,304 2,516 2,410 2,345 2,480 2,598 2,644 2,353	9,404 9,197 9,472 10,093 9,742 10,140 10,159 9,946 9,478 8,662 8,498 8,488 9,441	309 -46 77 762 661 373 440 214 -23 -451 -667 -1,068 49	334 85 156 368 334 350 279 380 249 203 100 279 261	18,652 18,850 19,099 19,044 18,866 19,537 19,319 19,662 19,438 18,974 18,977 19,722 19,180
2011 January February April May June July August September October December December Average	^R 4,978 ^R 4,932 ^R 5,016	464 611 606 582 553 453 526 585 585 585 585 585 593 592 561	R 5,505 R 5,419 R 5,589 R 5,538 R 5,598 R 5,598 R 5,598 R 5,422 R 5,642 R 5,645 R 6,026 R 6,026 R 5,652	2,114 2,009 2,195 2,186 2,234 2,188 2,206 2,227 2,171 2,313 2,373 2,358 2,216	R 7,620 R 7,427 R 7,784 R 7,725 R 7,832 7,755 R 7,628 R 7,870 R 7,765 R 8,198 R 8,392 R 8,384 R 7,868	982 972 1,002 996 992 1,015 1,004 1,027 1,011 1,023 1,076 1,085 1,016	1,019 954 1,019 1,013 1,085 1,106 1,122 1,133 1,123 1,123 1,084 1,113 1,134 1,134	12,248 10,738 11,850 11,806 11,877 11,757 11,277 11,277 11,277 11,217 11,053 11,217 11,064 11,504	2,750 2,634 2,733 3,071 2,735 2,716 3,053 3,002 3,174 3,107 3,159 3,667 2,986	9,497 8,104 9,117 8,736 9,131 9,131 8,704 8,224 8,095 7,946 8,059 7,397 8,518	484 -1,033 -139 105 884 59 231 -644 -492 -371 23 -646 -421	R 359 R 383 R 268 R 286 R 323 R 276 R 550 R 516 R 405 R 223 R 463 R 156 R 350	18,993 18,873 19,329 18,650 18,479 19,253 18,778 19,415 18,892 18,844 19,080 18,803 18,949
March April June July August September	RE 5,713 RE 5,726 RE 5,758 RE 5,741 RE 5,941 RE 5,941 RE 5,879 RE 5,982 RE 6,274 E 6,211 E 6,380	E 593 E 582 E 567 E 553 E 546 E 493 E 415 E 404 E 502 RE 502 RE 553 E 554 E 554 E 526	RE 6,144 RE 6,219 RE 6,279 RE 6,279 RE 6,279 RE 6,304 RE 6,234 RE 6,234 RE 6,284 RE 6,484 RE 6,484 E 6,630 E 6,764 E 6,934 E 6,426	2,376 2,388 2,375 2,382 2,376 2,323 2,323 2,323 2,367 2,458 R 2,458 R 2,458 E 2,100 E 2,308 E 2,356	RE 8,519 RE 8,607 RE 8,655 RE 8,661 RE 8,660 RE 8,679 RE 8,679 RE 8,679 RE 8,679 RE 8,679 RE 8,644 E 9,242 E 8,782	1,021 1,012 994 1,001 1,018 1,004 929 927 924 R 913 E 899 E 921 E 966	1,053 1,068 1,023 1,047 1,089 1,099 1,060 1,102 1,047 R 998 E 1,091 E 1,112 E 1,066	10,944 10,464 10,610 10,634 11,132 11,393 10,748 10,898 E 10,533 R 10,088 E 10,114 E 10,235 E 10,650	2,839 2,980 3,064 3,263 3,194 3,209 3,211 3,017 3,150 R 3,255 E 2,818 E 2,920 E 3,077	8,104 7,484 7,547 7,370 7,939 8,184 7,537 7,881 7,383 R 6,833 E 7,296 E 7,315 E 7,573	655 -228 409 -18 524 493 33 -272 R -278 E -278 E -183 E 76 E 151	R 237 R 361 R 402 R 232 R 506 R 552 R 428 R 364 R 459 R 394 E 661 E 451 E 420	18,280 18,760 18,213 18,330 18,707 18,915 18,601 19,226 18,173 R 18,722 E 18,994 E 18,965 E 18,657

^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."

"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

е

United States excluding Alaska and Hawaii. Natural gas plant liquids. See Note 6, "Petroleum Data Discrepancies," at end of section.

Generation of the section of the secti

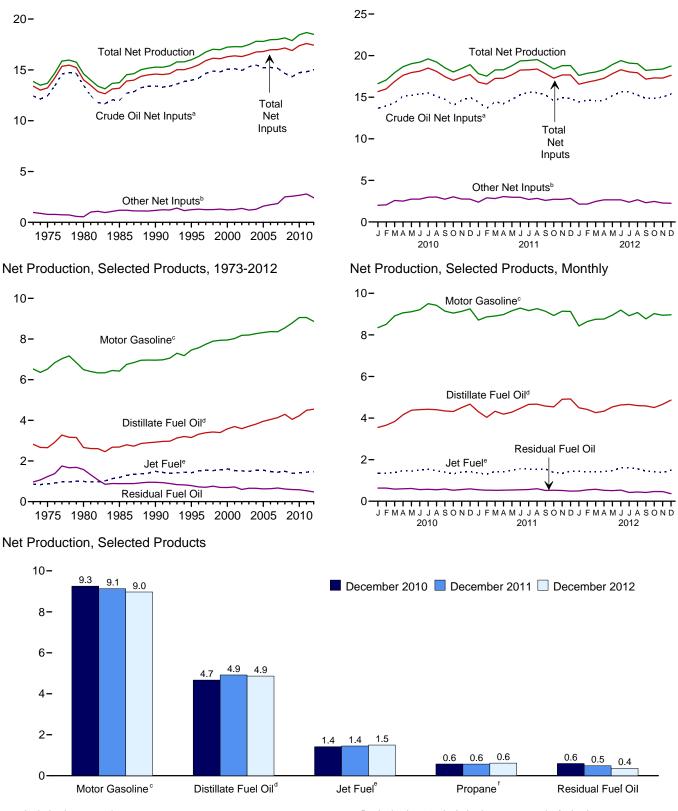
Includes Strategic Petroleum Reserve imports. See Table 3.3b.

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.
 ⁱ An adjustment for crude oil, hydrogen, oxygenates, renewable fuels, other hydrocarbons, motor gasoline blending components, finished motor gasoline, and distillate fuel oil. See EIA, *Petroleum Supply Monthly*, Appendix B, "PSM Explanatory Notes," for further information.
 R=Revised. E=Estimate. NA=Not available.
 Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
 Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/.

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

Net Inputs and Net Production, 1973-2012

Net Inputs and Net Production, Monthly



^a Includes lease condensate.

^b Natural gas plant liquids and other liquids.

^eBeginning 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

(Thousand Barrels per Day)

	Refine	ery and Ble	ender Net li	nputs ^a			Refinery	and Blen	der Net Prod	duction ^b		
							LPG	c				
	Crude Oil ^d	NGPL ^e	Other Liquids ^f	Total	Distillate Fuel Oil ^g	Jet Fuel ^h	Propane ⁱ	Total	Motor Gasoline ^j	Residual Fuel Oil	Other Products ^k	Total
1973 Average 1975 Average 1980 Average	12,431 12,442 13,481	815 710 462	155 72 81	13,401 13,225 14,025	2,820 2,653 2,661	859 871 999	271 234 269	375 311 330	6,527 6,518 6,492	971 1,235 1,580	2,301 2,097 2,559	13,854 13,685 14,622
1985 Average 1990 Average 1995 Average 1996 Average	12,002 13,409 13,973 14,195 14,662	509 467 471 450 416	681 713 775 843 832	13,192 14,589 15,220 15,487 15,909	2,686 2,925 3,155 3,316 3,392	1,189 1,488 1,416 1,515 1,554	295 404 503 520 565	391 499 654 662 691	6,419 6,959 7,459 7,565 7,743	882 950 788 726 708	2,183 2,452 2,522 2,541 2,671	13,750 15,272 15,994 16,324 16,759
1997 Average 1998 Average 1999 Average 2000 Average 2001 Average	14,802 14,889 14,804 15,067 15,128	403 372 380 429	853 927 849 825	16,144 16,103 16,295 16,382	3,392 3,424 3,399 3,580 3,695	1,526 1,565 1,606 1,530	550 569 583 556	674 684 705 667	7,892 7,934 7,951 8,022	762 698 696 721	2,753 2,709 2,705 2,651	17,030 16,989 17,243 17,285
2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2007 Average 2008 Average	14,947 15,304 15,475 15,220 15,242 15,156 14,648	429 419 422 441 501 505 485	941 791 866 1,149 1,238 1,337 2,019	16,316 16,513 16,762 16,811 16,981 16,999 17,153	3,592 3,707 3,814 3,954 4,040 4,133 4,294	1,514 1,488 1,547 1,546 1,481 1,448 1,493	572 570 584 540 543 543 562 519	671 658 645 573 627 655 630	8,183 8,194 8,265 8,318 8,364 8,358 8,548	601 660 655 628 635 673 620	2,712 2,780 2,887 2,782 2,827 2,827 2,728 2,561	17,273 17,487 17,814 17,800 17,975 17,994 18,146
2009 Average	14,336	485	2,082	16,904	4,048	1,396	537	623	8,786	598	2,431	17,882
2010 January February March April May June July	13,666 13,950 14,314 15,131 15,215 15,382 15,519	503 402 413 374 399 397 384	1,501 1,654 2,166 2,135 2,348 2,349 2,595	15,670 16,005 16,893 17,640 17,963 18,127 18,498	3,551 3,658 3,835 4,156 4,375 4,408 4,425	1,338 1,340 1,379 1,470 1,449 1,495 1,542	531 562 575 585 571 572 574	480 540 726 850 857 870 860	8,348 8,510 8,913 9,062 9,113 9,211 9,500	633 632 581 598 615 559 576	2,281 2,385 2,523 2,531 2,622 2,670 2,704	16,631 17,065 17,957 18,668 19,031 19,212 19,607
August September October November December Average	15,110 14,740 14,000 14,637 14,976 14,724	390 443 504 531 563 442	2,607 2,294 2,517 2,223 2,185 2,219	18,107 17,477 17,021 17,391 17,724 17,385	4,404 4,341 4,315 4,503 4,670 4,223	1,463 1,404 1,317 1,394 1,417 1,418	552 551 526 543 572 560	778 614 501 390 430 659	9,426 9,143 9,049 9,134 9,252 9,059	554 588 528 564 595 585	2,605 2,449 2,323 2,457 2,547 2,547	19,230 18,539 18,033 18,442 18,911 18,452
2011 January February April May June August	14,423 13,676 14,451 14,231 14,718 15,294 15,589 15,556	549 515 460 448 432 444 417 437 494	1,835 2,388 2,350 2,606 2,535 2,522 2,288 2,288 2,396 2,100	16,807 16,579 17,261 17,285 17,685 18,260 18,294 18,388	4,303 4,033 4,326 4,189 4,283 4,471 4,656 4,668 4,668	1,362 1,298 1,431 1,422 1,479 1,568 1,550 1,550	561 512 528 542 563 567 557 557	431 472 636 781 815 847 820 791 603	8,714 8,866 8,908 8,978 9,157 9,289 9,166 9,264 9,140	552 529 526 534 538 553 563 604 516	2,464 2,335 2,454 2,394 2,496 2,638 2,661 2,652 2,605	17,826 17,533 18,280 18,298 18,770 19,366 19,416 19,522 18,993
September October November December Average	15,275 14,570 14,960 14,842 14,806	524 599 566 490	2,100 2,205 2,118 2,270 2,300	17,870 17,298 17,677 17,678 17,596	4,576 4,539 4,902 4,919 4,492	1,553 1,378 1,341 1,449 1,449	569 540 564 566 552	480 377 368 619	9,140 8,932 9,141 9,128 9,058	530 516 486 537	2,505 2,525 2,513 2,462 2,518	18,382 18,790 18,812 18,673
2012 January February April May June July August September October November	^R 14,854 ^E 15 025	513 531 445 443 429 442 435 435 522 R 620 RF 601	1,633 1,618 2,022 2,215 2,228 2,222 1,944 2,239 1,794 R 1,846 RE 1,669	16,561 16,809 17,012 17,272 17,833 18,297 18,036 17,932 17,179 R 17,320 F 17,295	4,498 4,416 4,262 4,330 4,537 4,632 4,659 4,599 4,584 R 4,509 E 4,661	1,437 1,401 1,412 1,433 1,468 1,609 1,611 1,559 1,450 R 1,418 E 1,384	518 532 545 558 569 585 565 543 522 ^R 543 ^R 543 ^{RE} 613	414 492 685 833 856 841 777 553 ^R 476 F 369	8,427 8,645 8,753 8,763 8,952 9,193 8,921 9,079 8,770 8,770 R 9,026 E 8,943	495 547 525 509 538 420 443 420 ^R 467 <u>E</u> 463	2,343 2,375 2,347 2,436 2,582 2,644 2,577 2,450 R 2,421 E 2,566	17,613 17,876 18,035 18,319 18,322 19,396 19,034 18,226 R 18,318 E 18,386
Average	E 15,389 E 15,009	^F 610 E 502	^E 1,639 E 1,923	F 17,638 E 17,435	^E 4,865 ^E 4,547	^E 1,497 E 1,474	E 613 E 559	F 377 E 626	E 8,966 E 8,870	^E 362 ^E 480	^E 2,684 E 2,503	E 18,750 E 18,500

^a See "Refinery and Blender Net Inputs," in Glossary.
 ^b See "Refinery and Blender Net Production," in Glossary.
 ^c Liquefied petroleum gases.
 ^d Includes lease condensate.
 ^e Natural gas plant liquids (liquefied petroleum gases and pentanes plus).
 ^f Unfinished oils (net), other hydrocarbons, and hydrogen. Beginning in 1981, also includes avaiton and motor gasoline blending components (net). Beginning in 2009, also includes oxygenates (net), including fuel ethanol. Beginning in 2009, also includes renewable diesel fuel (including biodiesel).
 ^g Beginning in 2009, includes renewable diesel (usel (including biodiesel))

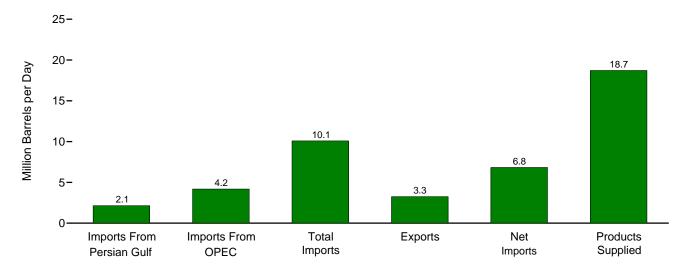
also includes retrewable dieser tidel (including biodiesel). 9 Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil. ^h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Products." ⁱ Includes propulene.

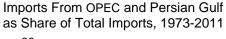
¹ Includes propylene. ^j Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

^k Asphalt and road oil, finished aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special naphthas, still gas, waxes, and miscellaneous products. Beginning in 2005, also includes naphtha-type jet fuel. R=Revised. E=Estimate. F=Forecast.
 Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, 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. • 2012: EIA, *Petroleum Status Report* data system, Short-Term Integrated Forecasting System, and *Monthly Energy Review* data system calculations.

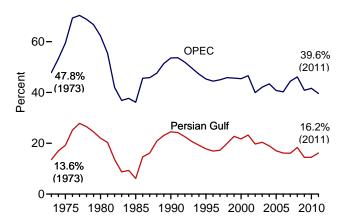
Figure 3.3a Petroleum Trade: Overview

Overview, October 2012

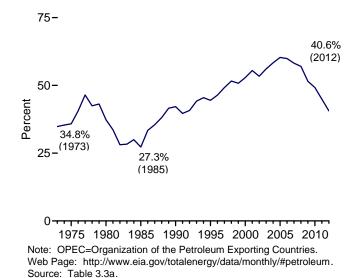




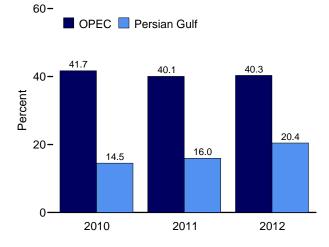




Net Imports as Share of Products Supplied, 1973-2012



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



Net Imports as Share of Products Supplied, January-December

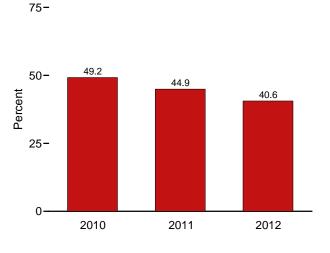


Table 3.3a Petroleum Trade: Overview

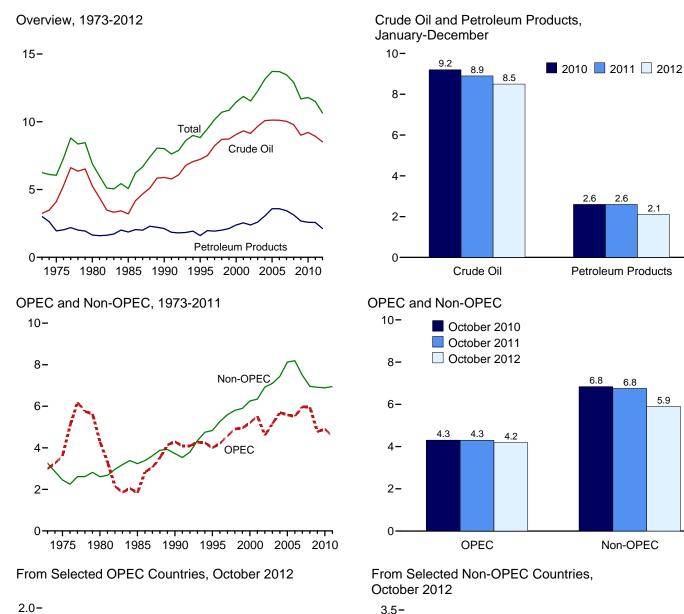
									are of Supplied			hare of Imports
	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Exports	Net Imports	Products Supplied	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Net Imports	Imports From Persian Gulf ^a	Imports From OPEC ^t
			Thousand Ba	arrels per Day	/				Pe	rcent		
1973 Average	848	2,993	6,256	231	6,025	17,308	4.9	17.3	36.1	34.8	13.6	47.8
1975 Average	1,165	3,601	6,056	209	5,846	16,322	7.1	22.1	37.1	35.8	19.2	59.5
980 Average	1,519	4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	22.0	62.2
985 Average	311	1,830	5,067	781	4,286	15,726	2.0	11.6	32.2	27.3	6.1	36.1
990 Average	1,966	4,296	8,018	857	7,161	16,988	11.6	25.3	47.2	42.2	24.5	53.6
995 Average	1,573 1,604	4,002 4,211	8,835	949 981	7,886 8,498	17,725 18,309	8.9	22.6	49.8	44.5	17.8	45.3
996 Average	1,004	4,211	9,478 10,162	1,003	0,490 9,158	18,620	8.8 9.4	23.0 24.5	51.8 54.6	46.4 49.2	16.9 17.3	44.4 45.0
997 Average	2,136	4,905	10,708	945	9,764	18,917	11.3	24.5	56.6	49.2 51.6	19.9	45.8
998 Average 999 Average	2,130	4,903	10,708	940	9,912	19,519	12.6	25.9	55.6	50.8	22.7	45.6
000 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
001 Average	2,761	5,528	11,871	971	10,900	19,649	14.1	28.1	60.4	55.5	23.3	46.6
002 Average	2,269	4,605	11,530	984	10,546	19,761	11.5	23.3	58.3	53.4	19.7	39.9
003 Average	2,501	5,162	12.264	1.027	11.238	20.034	12.5	25.8	61.2	56.1	20.4	42.1
004 Average	2,493	5,701	13,145	1,048	12,097	20,731	12.0	27.5	63.4	58.4	19.0	43.4
005 Average	2,334	5,587	13,714	1,165	12,549	20,802	11.2	26.9	65.9	60.3	17.0	40.7
006 Average	2,211	5,517	13,707	1,317	12,390	20,687	10.7	26.7	66.3	59.9	16.1	40.2
007 Average	2,163	5,980	13,468	1,433	12,036	20,680	10.5	28.9	65.1	58.2	16.1	44.4
2008 Average	2,370	5,954	12,915	1,802	11,114	19,498	12.2	30.5	66.2	57.0	18.4	46.1
009 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
010 January	1,563	4,554 4,659	11,300	1,897 2,034	9,404 9,197	18,652	8.4 8.8	24.4 24.7	60.6 59.6	50.4 48.8	13.8	40.3 41.5
February March	1,666 1,842	4,659 5,084	11,230 11,621	2,034 2,149	9,197 9,472	18,850 19,099	0.0 9.6	24.7	59.6 60.8	40.0 49.6	14.8 15.9	41.5
April	2.026	5,084	12,526	2,149	10.093	19,099	10.6	28.2	65.8	49.0 53.0	16.2	43.7
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	1,564	4,614	11,132	2,644	8,488	19,722	7.9	23.4	56.4	43.0	14.0	41.4
Average	1,711	4,906	11,793	2,353	9,441	19,180	8.9	25.6	61.5	49.2	14.5	41.6
011 January February	1,681 1,495	4,909 4,530	12,248 10,738	2,750 2,634	9,497 8.104	18,993 18,873	8.8 7.9	25.8 24.0	64.5 56.9	50.0 42.9	13.7 13.9	40.1 42.2
March	1,400	4,638	11,850	2,733	9.117	19,329	8.6	24.0	61.3	47.2	14.1	39.1
April	1,704	4,548	11,808	3.071	8,736	18.650	9.1	24.4	63.3	46.8	14.4	38.5
May	1,844	4,619	11,866	2,735	9,131	18,479	10.0	25.0	64.2	49.4	15.5	38.9
June	2,033	4,894	11,877	2,716	9,161	19,253	10.6	25.4	61.7	47.6	17.1	41.2
July	2,167	4,939	11,757	3,053	8,704	18,778	11.5	26.3	62.6	46.4	18.4	42.0
August	1,910	4,656	11,227	3,002	8,224	19,415	9.8	24.0	57.8	42.4	17.0	41.5
September	2,039	4,326	11,270	3,174	8,095	18,892	10.8	22.9	59.7	42.9	18.1	38.4
October	1,904	4,296	11,053	3,107	7,946	18,844	10.1	22.8	58.7	42.2	17.2	38.9
November	1,944 1,921	4,206	11,217	3,159	8,059	19,080	10.2 10.2	22.0	58.8	42.2	17.3	37.5
December Average	1,921 1,861	4,093 4,555	11,064 11,504	3,667 2,986	7,397 8,518	18,803 18,949	10.2 9.8	21.8 24.0	58.8 60.7	39.3 44.9	17.4 16.2	37.0 39.6
012 January	2,208	4,203	10,944	2,839	8,104	18,280	12.1	23.0	59.9	44.3	20.2	38.4
February	1,948	3,986	10,464	2,980	7,484	18,760	10.4	21.2	55.8	39.9	18.6	38.1
March	2,222	4,314	10,610	3,064	7,547	18,213	12.2	23.7	58.3	41.4	20.9	40.7
April	2,228	4,394	10,634	3,263	7,370	18,330	12.2	24.0	58.0	40.2	21.0	41.3
May	2,560	4,672	11,132	3,194	7,939	18,707	13.7	25.0	59.5	42.4	23.0	42.0
June	2,376	4,618	11,393	3,209	8,184	18,915	12.6	24.4	60.2	43.3	20.9	40.5
July	2,131	4,331	10,748	3,211	7,537	18,601	11.5	23.3	57.8	40.5	19.8	40.3
August	2,071	4,344	10,898	3,017	7,881	19,226	10.8	22.6	56.7	41.0	19.0	39.9
September	2,071	4,268	10,533 B 10,088	3,150 B 2,255	7,383 R c 933	18,173 B 18,722	11.4	23.5 R 22.4	58.0	40.6 B 26.5	19.7 R 21 2	40.5 R 41 F
October	R 2,141	R 4,186	^R 10,088 ^E 10,114	R 3,255	R 6,833	R 18,722	R 11.4	R 22.4	^R 53.9 ^E 53.2	R 36.5	R 21.2	R 41.5
November	NA NA	NA NA	E 10,114	E 2,818 E 2,920	E 7,296 E 7,315	^E 18,994 ^E 18,965	NA NA	NA NA	E 53.2	E 38.4 E 38.6	NA NA	NA NA
December	NA NA	NA	E 10,235	E 3,077	E7,315	E 18,965	NA NA	NA	E 54.0	E 40.6	NA	NA NA
Average	NA	NA	- 10,030	- 3,077	-1,515	- 10,007	INA	NA	- 57.1	- 40.0	NA	NA

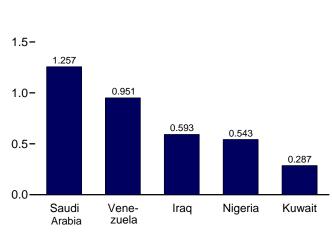
^a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 ^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. See Table 3.3c for notes on which countries are included in the data.
 R=Revised. E=Estimate. NA=Not available.
 Notes: • Readers of this table may be interested in a feature article, "Measuring Dependence on Imported Oil," that was published in the August 1995 Monthly Energy Review. See Table 3.3b. • Annual averages may not equal average of months due to independent rounding.
 • U.S. geographic coverage is the 50 States and the

District of Columbia. U.S. exports include shipments to U.S. territories, and imports include receipts from U.S. territories. Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2011: EIA, Petroleum Supply Annual, annual reports. • 2012: EIA, Petroleum Status Report data system and Monthly Energy Review data system calculations.

Figure 3.3b Petroleum Trade: Imports

(Million Barrels per Day)





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

3.0-2.683 2.5-2.0-1.5-1.062 1.0-0.552 0.5-0.376 0.117 0.0 Mexico Colombia Canada Russia United Kingdom

2.6

6.8

2.6

Petroleum Products

6.8

Non-OPEC

5.9

2.1

Table 3.3b Petroleum Trade: Imports and Exports by Type

(Thousand Barrels per Day)

					Im	ports						Exports	
	Crue	de Oil ^a			LPG	b							
	SPR ^{c,d}	Total	Distillate Fuel Oil	Jet Fuel ^e	Propane ^f	Total	Motor Gasoline ^g	Residual Fuel Oil	Otherh	Total	Crude Oil ^a	Petroleum Products	Total
973 Average		3,244	392	212	71	132	134	1,853	290	6,256	2	229	231
975 Average		4,105	155	133	60	112	184	1,223	144	6,056	6	204	209
980 Average	44	5,263	142	80	69	216	140	939	130	6,909	287	258	544
985 Average		3,201	200	39	67	187	381	510	550	5,067	204	577	781
990 Average	27	5,894	278	108	115	188	342	504	705	8,018	109	748	857
995 Average	-	7,230	193	106	102	146	265	187	708	8,835	95	855	949
996 Average	-	7,508	230	111	119	166	336	248	879	9,478	110	871	981
997 Average		8,225	228	91	113	169	309	194	945	10,162	108	896	1,003
998 Average	-	8,706	210	124	137	194	311	275	888	10,708	110	835	945
999 Average		8,731	250	128	122	182	382	237	943	10,852	118	822	940
000 Average		9,071	295	162	161	215	427	352	938	11,459	50	990	1,040
001 Average		9,328	344	148	145	206	454	295	1,095	11,871	20	951	971
002 Average	16	9,140	267	107	145	183	498	249	1,085	11,530	9	975	984
003 Average	-	9,665	333	109	168	225	518	327	1,087	12,264	12	1,014	1,027
004 Average		10,088 10.126	325 329	127 190	209 233	263 328	496 603	426 530	1,419 1.609	13,145 13.714	27	1,021 1.133	1,048 1.165
005 Average		10,126	329	190	233	328	475	530 350	1,609	13,714	25	1,133	1,165
006 Average		10,118	305	217	182	332 247	4/5	350	1,881	13,707	25	1,292	1,317
007 Average 008 Average		9,783	213	103	185	253	302	349	1,005	12,915	27	1,405	1,433
009 Average		9,013	225	81	147	182	223	331	1,635	11,691	44	1,980	2,024
		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	1,202	11,621	45	2,104	2,034
April		9,726	220	88	79	102	178	480	1,732	12,526	37	2,396	2,432
May		9,655	189	81	82	102	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
011 January	-	9,183	337	65	235	290	102	411	1,860	12,248	72	2,678	2,750
February	-	8,184	206	68	220	266	119	364	1,532	10,738	30	2,604	2,634
March		9,183	190	65	205	260	135	378	1,639	11,850	36	2,696	2,733
April		8,839	191	80	141	177	138	424	1,959	11,808	41	3,031	3,071
May		9,059	170	91	118	160	137	306	1,942	11,866	37	2,698	2,735
June	-	9,235	127	82	115	160	130	353	1,789	11,877	36	2,680	2,716
July		9,276	157	95	115	157	92	246	1,733	11,757	73	2,980	3,053
August		8,936	148	66	123	167	106	231	1,573	11,227	34	2,969	3,002
September		8,914	179	58	141	176	99	277	1,567	11,270	35	3,139	3,174
October		8,907	128	61 72	129	166	66 74	286 341	1,440	11,053	51	3,057	3,107
November	_	8,724 8,711	138	21	152 210	191 258	74 60	341 330	1,677 1,509	11,217 11.064	64	3,094	3,159
December Average	_	8,711 8,935	175 179	69	158	258 202	105	330 328	1,509 1,686	11,064 11,504	53 47	3,614 2,939	3,667 2,986
)12 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	2,035
March		8,767	136	5	108	136	91	271	1,205	10,610	60	3,004	3,064
April		8,591	98	56	102	129	53	240	1,466	10,634	32	3,231	3,263
May		8,909	111	49	172	218	60	251	1,534	11,132	69	3,124	3,194
June		9,101	87	42	133	170	66	325	1,602	11,393	46	3,163	3,209
July		8,606	113	48	148	182	52	247	1,501	10,748	77	3,134	3,211
August		8,631	110	124	142	186	37	233	1,577	10,898	60	2,957	3,017
September		8.375	84	84	149	191	35	256	1,507	10.533	58	3.092	3,150
October		^R 8.091	^R 88	^R 106	R 135	^R 176	^R 26	R 219	^R 1,382	R 10 088	^R 67	^R 3,188	R 3.255
November		E 8,014	E 176	E 27	E 147	NA	E 63	E 284	NA	E 10,114	E 42	E 2.776	E 2,818
December	-	^E 8,032	E 190	E 24	E 172	NA	E 57	E 256	NA	^E 10,235	E 43	E 2,877	E 2,920
Average		^E 8,520	E 124	E 51	E 140	NA	E 57	E 259	NA	^E 10,650	E 56	^E 3,021	E 3,077

^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."
 ^f Includes propylene.

"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 oxygenates, and miscellaneous products. Beginning in 2005, also includes

naphtha-type jet fuel.

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

reported. Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual,* annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual,* annual reports. • 1981-2011: EIA, *Petroleum Supply Annual,* annual reports. • 2012: EIA, *Petroleum Status Report* data system and *Monthly Energy Review* data system calculations. system calculations

Table 3.3c Petroleum Trade: Imports From OPEC Countries

(Thousand Barrels per Day)

	Algeria	Angolaa	Ecuador ^b	Iraq	Kuwait ^c	Libya	Nigeria	Saudi Arabia ^c	Vene- zuela	Otherd	Tota OPE
973 Average	136	(a)	48	4	47	164	459	486	1,135	514	2,99
75 Average	282	2a3	57	2	16	232	762	715	702	832	3,60
80 Average	488	(a)	27	28	27	554	857	1,261	481	577	4,30
95 Average	187	$\binom{a}{a}$	67	46	21	4	293	168	605	439	1,83
85 Average	280		49	40 518	86	4	293			439	
90 Average			(^b)			-		1,339	1,025		4,29
95 Average	234		(°)	0	218	0	627	1,344	1,480	98	4,00
96 Average	256	(a)		1	236	0	617	1,363	1,676	62	4,21
97 Average	285	()		89	253	0	698	1,407	1,773	64	4,56
98 Average	290	(a)	(b)	336	301	0	696	1,491	1,719	73	4,90
99 Average	259	(a)	(b)	725	248	0	657	1,478	1,493	93	4,95
00 Average	225	(a)	(þ)	620	272	0	896	1,572	1,546	72	5,20
01 Average	278	(^a)	(b)	795	250	0	885	1,662	1,553	105	5,52
02 Average	264	(a)	(b)	459	228	0	621	1,552	1,398	83	4,60
03 Average	382	(a)	(b)	481	220	0	867	1,774	1,376	61	5,16
04 Average	452	(a)	(b)	656	250	20	1,140	1,558	1,554	70	5,70
05 Average	478	(a)	(b)	531	243	56	1,166	1,537	1,529	47	5,58
6 Average	657	(a)	(b)	553	185	87	1,114	1,463	1,419	38	5,51
07 Average	670	`5 08	(b)	484	181	117	1,134	1,485	1,361	39	5,98
08 Average	548	513	` 22́1	627	210	103	988	1,529	1,189	26	5,95
09 Average	493	460	185	450	182	79	809	1,004	1,063	50	4,77
10 January	498	280	215	523	77	40	1,048	963	911	_	4,55
February	498	360	152	540	228	40	932	898	1,010	-	4,65
March	455	502	183	475	218	79	962	1,149	1,061	-	5,08
April	464	509	225	490	278	142	1,060	1,257	951	-	5,37
May	518	448	182	394	225	39	1,026	1,097	1,117	10	5,05
June	550	425	245	630	217	98	1,108	1,125	899	_	5,29
July	518	374	239	430	189	110	1,174	1,053	1,084	7	5,17
August	565	484	276	281	251	123	985	1,132	1,022	_	5,11
September	543	417	229	422	172	43	1,174	1.093	1.008	10	5.11
October	451	324	203	143	215	36	872	1,131	930	-	4,30
November	572	276	194	340	170	23	856	1,152	942	_	4,50
December	484	319	194	336	125	66	1.070	1,093	917	9	4,52
Average	510	393	212	415	197	70	1,023	1,096	988	3	4,90
11 January	565	316	238	433	147	57	1,022	1,101	1,030	_	4,90
February	406	370	255	263	118	36	978	1,114	989	_	4,53
March	500	280	182	398	161	32	913	1,108	1,065	_	4,63
April	466	277	169	519	78	1	922	1,107	1,009	_	4,54
May	391	356	158	422	200	(s)	854	1,203	1,005	19	4.61
			219							68	
June	297	373		559	238	35	853	1,169	1,084		4,89
July	354	407	172	596	228	-	884	1,326	954	18	4,93
August	298	331	309	637	165	1	892	1,075	914	32	4,65
September	291	304	305	404	145	2	580	1,479	806	11	4,32
October	173	439	178	490	278	2	693	1,120	906	17	4,29
November	260	340	181	395	302	10	703	1,222	767	26	4,20
December	297	357	106	380	231	9	534	1,310	868	_	4,09
Average	358	346	206	459	191	15	818	1,195	951	16	4,55
2 January	269	370	100	390	352	5	504	1,423	750	41	4,20
February	256	230	244	271	252	29	353	1,420	931	-	3,98
March	325	175	174	386	462	60	374	1,374	984	_	4,31
April	259	253	201	395	235	68	483	1,589	904	7	4,39
May	303	256	199	675	407	65	428	1,471	861	7	4,67
June	236	378	236	649	250	93	515	1,456	788	17	4,61
July	213	285	176	352	304	110	372	1,466	1,046	7	4,33
August	303	153	180	550	301	126	504	1,220	1,007	-	4,34
September	175	237	218	461	310	67	468	1,291	1,035	6	4,26
October	186	183	122	593	287	59	543	1,257	951	4	4,18
10-Month Average	253	252	184	473	317	68	455	1,396	926	9	4,33
11 10-Month Average	374	345	218	474	177	16	859	1,180	977	17	4,63
10 10-Month Average	506	412	215	431	207	75	1,034	1,091	1,000	3	4,97

^a Angola joined OPEC in January 2007. For 1973-2006, Angola is included in "Total Non-OPEC" on Table 3.3d.
 ^b Ecuador was a member of OPEC from 1973-1992, and rejoined OPEC in November 2007. For 1993-2007, Ecuador is included in "Total Non-OPEC" on Table 0.0

November 2007. For 1993-2007, Ecuador is included in clotal Non-OPEC on Table 3.3d. ^c Imports from the Neutral Zone are reported as originating in either Saudi Arabia or Kuwait depending on the country reported to U.S. Customs. ^d For all years, includes Iran, Qatar, and United Arab Emirates. For 1973-2008, also includes Indonesia; and for 1975-1994, also includes Gabon. – =No data reported. (s)=Less than 500 barrels per day. Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. Petroleum imports not classified as "OPEC" on this table are included on Table 3.3d. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example, of origin for the crude oil from which the products were produced. For example,

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

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

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

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

(Thousand Barrels per Day)

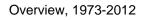
	Brazil	Canada	Colombia	Mexico	Nether- lands	Norway	Russia ^a	United Kingdom	U.S. Virgin Islands	Other	Total Non-OPEC
1973 Average	9	1.325	9	16	53	1	26	15	329	1.480	3,263
1975 Average	5	846	9	71	19	17	14	14	406	1,052	2.454
1980 Average	3	455	4	533	2	144	1	176	388	903	2,609
1985 Average	61	770	23	816	58	32	8	310	247	913	3,237
1990 Average	49	934	182	755	55	102	45	189	282	1,128	3,721
1995 Average	8	1,332	219	1,068	15	273	25	383	278	1,233	4,833
1996 Average	9	1,424	234	1,244	19	313	25	308	313	1,377	5,267
1997 Average	5	1,563	271	1,385	25	309	13	226	300	1,495	5,593
1998 Average	26	1,598	354	1,351	31	236	24	250	293	1,640	5,803
1999 Average	26	1,539	468	1,324	27	304	89	365	280	1,478	5,899
2000 Average	51	1,807	342	1,373	30	343	72	366	291	1,581	6,257
2001 Average	82	1,828	296	1,440	43	341	90	324	268	1,631	6,343
2002 Average	116	1,971	260	1,547	66	393	210	478	236	1,649	6,925
2003 Average	108	2,072	195	1,623	87	270	254	440	288	1,766	7,103
2004 Average	104	2,138	176	1,665	101	244	298	380	330	2,008	7,444
2005 Average	156	2,181	196	1,662	151	233	410	396	328	2,413	8,127
2006 Average	193	2,353	155	1,705	174	196	369	272	328	2,446	8,190
2007 Average	200	2,455	155	1,532	128	142	414	277	346	1,839	7,489
2008 Average	258	2,493	200	1,302	168	102	465	236	320	1,416	6,961
2009 Average	309	2,479	276	1,210	140	108	563	245	277	1,307	6,915
2010 January	353	2,596	322	1,133	116	126	463	282	298	1,057	6,747
February	226	2,491	386	1,137	126	99	423	413	196	1,074	6,571
March	306	2,505	251	1,306	136	59	494	267	235	977	6,538
April	318	2,472	423	1,282	89	166	587	304	331	1,178	7,149
May	319	2,528	315	1,428	108	119	719	176	195	1,180	7,087
June	308	2,717	407	1,211	87	52	760	269	246	1,090	7,146
July	332	2,549	404	1,289	207	119	719	351	239	1,287	7,497
August	251	2,489	372	1,282	137	57	786	266	301	1,298	7,239
September	181	2,479	363	1,254	45	62	648	178	302	1,200	6,712
October	169	2,347	422	1,347	108	111	655	152	270	1,255	6,837
November	198	2,513	492	1,363	57	79	561	187	234	886	6,571
December	295 272	2,736 2,535	231 365	1,365 1,284	71 108	26 89	514 612	236 256	191 253	855 1,112	6,518 6,887
Average	212	2,555		1,204	100	09	012	230	255	1,112	0,007
2011 January	263	3,004	355	1,366	101	85	558	155	276	1,176	7,338
February	179	2,997	258	1,103	129	69	437	110	179	749	6,209
March	165	2,819	427	1,319	91	156	690	198	149	1,198	7,211
April	228	2,755	548	1,077	133	167	704	193	179	1,275	7,260
May	298	2,564	433	1,303	129	101	684	245	194	1,296	7,247
June	283	2,586	309	1,222	175	93	689	146	151	1,330	6,983
July	330	2,691	418	1,197	80	58	564	175	192	1,113	6,818
August	239	2,688	395	1,185	81	87	585	125	185	1,001	6,571
September	190	2,880	529	1,192	64	97	592	124	189	1,087	6,943
October	190	2,719	578	1,177	23	180	687	150	151	902	6,757
November	245	2,858	424	1,256	96	174	737	125	177	918	7,011
December	417	3,009	508	1,064	101	88	552	162	214	857	6,971
Average	253	2,796	433	1,206	100	113	624	159	186	1,077	6,948
2012 January	321	3,008	431	1,114	101	46	572	168	96	884	6,740
February	286	3,048	472	1,081	92	163	288	127	28	894	6,478
March	356	2,931	482	1,004	143	87	326	187	1	779	6,296
April	237	2,931	472	1,002	84	51	388	204	12	858	6,239
May	215	3,018	430	996	121	95	550	143	2	891	6,460
June	297	3,051	515	915	151	82	655	205	(s)	904	6,775
July	257	2,973	397	1,007	137	47	491	131	1	976	6,417
August	289	3,022	409	1,016	91	90	368	197	-	1,072	6,554
September	152	2,815	357	1,096	75	63	562	109	-	1,036	6,264
October	90	2,683	376	1,062	69	67	552	117	3	882	5,902
10-Month Average	250	2,948	434	1,029	107	79	476	159	14	917	6,412
2011 10-Month Average	237	2,768	426	1,216	100	110	620	163	185	1,115	6,940
2010 10-Month Average	277	2,517	366	1,268	116	97	627	265	262	1,161	6,956

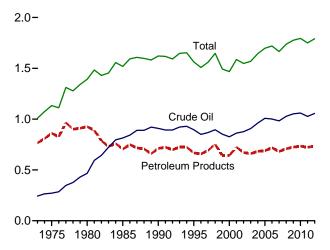
^a Through 1992, may include imports from republics other than Russia in the former U.S.S.R. See "Union of Soviet Socialist Republics (U.S.S.R.)" in Glossary. – No data reported (s)=1 ess than 500 barrels per day equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 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/.

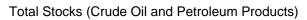
– =No data reported. (s)=Less than 500 barrels per day. Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary for membership. Petroleum imports not classified as "OPEC" on Table 3.3c are included on this table. • The country of origin for petroleum products may not be the 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

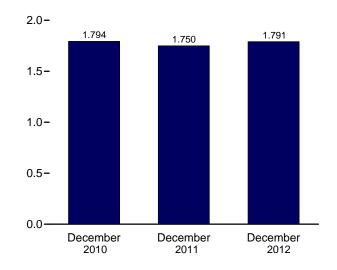
Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual,* annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual,* annual reports. • 1981-2011: EIA, *Petroleum Supply Annual,* annual reports. •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

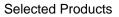
Figure 3.4 Petroleum Stocks (Billion Barrels, Except as Noted)

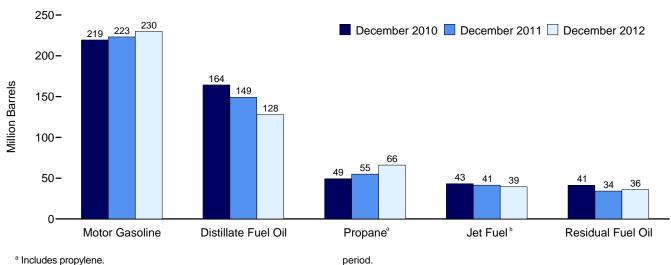








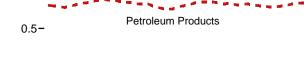




^a Includes propylene.
 ^b Includes kerosene-type jet fuel only.

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

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



Total

Crude Oil

Overview, Monthly

2.0-

1.5-

1.0-



SPR and Non-SPR Crude Oil Stocks, 1973-2012

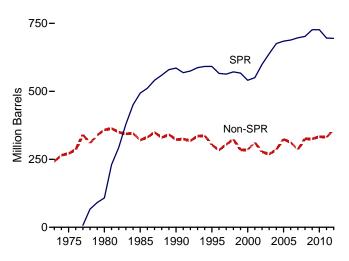


Table 3.4 Petroleum Stocks

(Million Barrels)

		Crude Oil ^a		Distillate	Jet	LPG	b	Motor	Residual		
	SPRC	Non-SPR ^{d,e,f}	Total ^{e,f}	Fuel Oil ^{f,g}	Jet Fuel ^h	Propane ^{f,i}	Total ^f	Gasoline ^{f,j}	Fuel Oil ^f	Otherk	Total ^f
1973 Year		242	242	196	29	65	99	209	53	179	1,008
1975 Year		271	271	209	30	82	125	235	74	188	1,133
1980 Year	108	358	466	205	42	65	120	261	92	205	1,392
1985 Year	493	321	814	144	40	39	74	223	50	174	1,519
1990 Year	586	323	908	132	52	49	98	220	49	162	1,621
1995 Year	592	303	895	130	40	43	93	202	37	165	1,563
1996 Year	566	284	850	127	40	43	86	195	46	164	1,507
1997 Year	563	305	868	138	44	44	89	210	40	169	1,560
1998 Year	571	324	895	156	45	65	115	216	45	176	1,647
1999 Year	567	284	852	125	41	43	89	193	36	157	1,493
2000 Year	541	286	826	118	45	41	83	196	36	164	1,468
2001 Year	550	312	862	145	42	66	121	210	41	166	1,586
2002 Year	599	278	877	134	39	53	106	209	31	152	1,548
2003 Year	638	269	907	137	39	50	94	207	38	147	1,568
2004 Year	676	286	961	126	40	55	104	218	42	153	1,645
2005 Year	685	324	1,008	136	42	57	109	208	37	157	1,698
2006 Year	689	312	1,001	144	39	62	113	212	42	169	1,720
2007 Year	697	286	983	134	39	52	96	218	39	156	1,665
2008 Year 2009 Year	702 727	326 325	1,028 1,052	146 166	38 43	55 50	113 102	214 223	36 37	162 153	1,737 1,776
	727	337	1,063	164	44	35	80	232	40	162	1,786
2010 January	727	343	1,063	155	44	28	80 70	232	40	162	1,785
February	727	343	1,070	147	44	28	70	235	41	170	1,787
March	727	363	1,080	147	42	35	89	220	41	174	1,787
April May	727	362	1,090	145	44	42	105	218	44	178	1,810
June	727	365	1,003	158	45	42	120	216	40	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	345	1,072	163	42	35	87	236	39	171	1,809
February	727	348	1,075	154	39	27	73	230	35	174	1,780
March	727	360	1,087	149	40	24	71	215	38	177	1,776
April	727	367	1,093	143	38	28	81	204	40	180	1,779
May	727	368	1,095	145	41	34	93	214	38	181	1,807
June	727	356	1,082	144	42	40	107	215	38	180	1,809
July	718	346	1,065	154	44	47	121	215	38	179	1,816
August	696	347	1,043	155	43	52	132	210	39	173	1,796
September	696	330	1,026	153	46	57	135	215	35	171	1,781
October	696	337	1,033	142	45	60	135	207	37	170	1,769
November	696	337	1,033	144	42	59	126	220	39	167	1,770
December	696	331	1,027	149	41	55	112	223	34	164	1,750
2012 January	696	340	1,036	149	42	48	101	235	34	175	1,772
February	696	347	1,043	139	41	43	96	231	36	179	1,765
March	696	368	1,064	134	39	45	102	219	36	184	1,778
April	696	377	1,073	125	40	50	116	211	34	179	1,777
May	696	386	1,082	122	40	56	133	205	33	179	1,794
	696	386	1,082	120	38	62	147	208	37	176	1,808
July	696	370	1,066	127	40	69	159	210	36	172	1,809
August	696	363	1,058	127	43	73	171	201	34	166	1,801
September	695	369	1,064	127 ^R 119	44 ^R 45	76	175 ^R 168	201 ^R 204	36	172 ^R 166	1,818 ^R 1,810
October	695 ^E 695	375 ^E 372	1,070 ^E 1,067	E 115	E 40	74 ^E 72	^{RF} 157	E 213	37 ^E 38	^{RE} 158	E 1,788
November	E 695	E 372	E 1,067	E 115 E 128	E 39	E 66	F 140	E 213	E 38	E 162	= 1,788 E 1 701
December	- 695	- 361	- 1,056	- 128	- 39	- 66	140	- 230	- 36	- 162	^E 1,791

Includes lease condensate.

b

^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

Crude oil stocks in the SPR include non-U.S. stocks held under foreign or commercial storage agreements. ^d All crude oil stocks other than those in "SPR." ^e Beginning in 1981, includes stocks of Alaskan crude oil in transit. See Note 5, "Stocks of Alaskan Crude Oil," at end of section. ^f See Note 4, "Petroleum New Stock Basis," at end of section. ^g Excludes stocks in the Northeast Heating Oil Reserve. Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil. ^h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other." "Other."

Includes propylene.

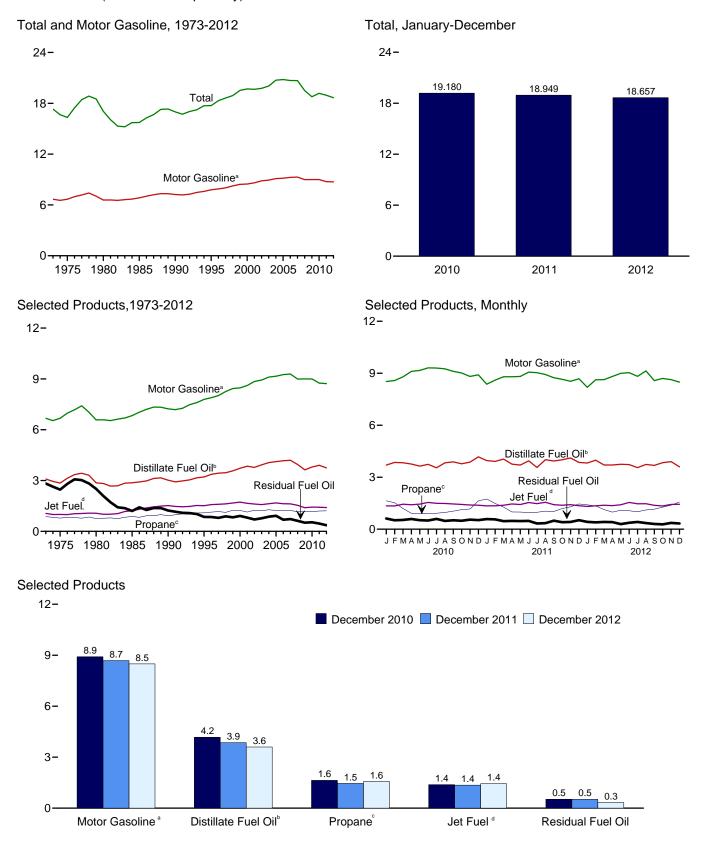
Includes finished motor gasoline and motor gasoline blending components;
 excludes oxygenates.
 ^k Asphalt and road oil, aviation gasoline, aviation gasoline blending

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

components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. Sources: • **1973-1975**: Bureau of Mines, Mineral Industry Surveys, *Petroleum Statement, Annual*, annual reports. • **1976-1980**: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • **1981-2011**: EIA, *Petroleum Statement, Annual*, annual reports. • **1981-2011**: EIA, *Petroleum Suppl Annual*, annual reports. • **2012**: EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, Short-Term Integrated Forecasting System, and *Monthly Energy Review* data system calculations. System, and Monthly Energy Review data system calculations.

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



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

^d Beginning in 2005, includes kerosene-type jet fuel only. Note: SPR=Strategic Petroleum Reserve.

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

Table 3.5 Petroleum Products Supplied by Type

(Thousand Barrels per Day)

	Asphalt					LPC	B 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 20	3,207	1,514	54	1,096	1,899	156	7,789	365 379	852	1,381	17,725
1996 Average	484 505	20	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	848 797	1,518 1,605	18,309 18,620
1997 Average 1998 Average	521	19	3,433	1,622	78	1,120	1,952	168	8,253	447	887	1,508	18,917
1999 Average	547	21	3.572	1,673	73	1.246	2,195	169	8,431	477	830	1,532	19,519
2000 Average	525	20	3,722	1,725	67	1,235	2,231	166	8,472	406	909	1,458	19,701
2001 Average	519	19	3,847	1,655	72	1,142	2,044	153	8,610	437	811	1,481	19,649
2002 Average	512	18	3,776	1,614	43	1,248	2,163	151	8,848	463	700	1,474	19,761
2003 Average	503	16	3,927	1,578	55	1,215	2,074	140	8,935	455	772	1,579	20,034
2004 Average	537	17	4,058	1,630	64	1,276	2,132	141	9,105	524	865	1,657	20,731
2005 Average	546	19	4,118	1,679	70	1,229	2,030	141	9,159	515	920	1,605	20,802
2006 Average	521 494	18 17	4,169 4.196	1,633 1.622	54 32	1,215 1.235	2,052 2.085	137 142	9,253 9,286	522 490	689 723	1,640 1,593	20,687
2007 Average	494	17	3,945	1,622	32 14	1,235	2,065	142	9,200 8.989	490	622	1,593	20,680 19,498
2009 Average	360	14	3,631	1,393	18	1,160	2,051	118	8,997	404	511	1,251	18,771
2010 January	203	10	3,701	1,344	15	1,638	2,644	116	8,520	268	615	1,218	18,652
February	249	10	3,854	1,343	34	1,526	2,531	137	8,579	334	515	1,263	18,850
March	264	14	3,835	1,443	11	1,193	2,225	138	8,793	425	531	1,421	19,099
April	331	17	3,759	1,410	7	916	1,843 1.878	132	9,108 9.162	385 339	590	1,463	19,044
May June	378 517	15 18	3,639 3,743	1,446 1.543	11 16	891 901	1,070	128 155	9,162	339 411	519 500	1,351 1,386	18,866 19.537
July	470	20	3,743	1,494	10	901	1,938	141	9,301	385	595	1,360	19,337
August	537	14	3,830	1,486	9	973	2,025	129	9,255	434	476	1,467	19,662
September	463	20	3,886	1,457	8	1.040	2.084	136	9,112	433	513	1,326	19,438
October	434	15	3,773	1,430	15	1,135	2,126	127	9,016	335	489	1,215	18,974
November	295	11	3,873	1,396	46	1,168	2,141	125	8,816	389	552	1,333	18,977
December Average	204 362	12 15	4,176 3,800	1,383 1,432	50 20	1,634 1,160	2,677 2,173	113 131	8,911 8,993	371 376	525 535	1,301 1,343	19,722 19,180
2011 January	221	11	3.958	1.346	19	1.743	2,757	124	8.370	361	582	1.244	18.993
February	248	14	3,913	1,352	50	1,485	2,527	124	8,604	293	566	1,185	18,873
March	282	18	4,045	1,385	26	1,277	2,410	150	8,799	348	462	1,405	19,329
April	311	10	3,755	1.457	-8	996	2.043	136	8,796	355	477	1,301	18,650
May	357	18	3,699	1,424	(S)	989	2,077	122	8,817	414	468	1,082	18,479
June	454	17	3,947	1,540	4	958	2,027	125	9,067	379	479	1,213	19,253
July	465	19	3,564	1,473	9	976	2,039	119	9,031	368	329	1,363	18,778
August	545	18	4,009	1,554	5	1,040	2,102	137	8,925	461	347	1,311	19,415
September	462 423	13 16	3,936 4,003	1,416 1,384	8 2	1,021 1,195	2,050 2,227	125 102	8,744 8,649	349 395	491 405	1,299 1,239	18,892 18,844
October November	423 297	10	4,003 4,109	1,384	2	1,195	2,227	102	8,649 8,537	395 377	405 419	1,239	18,844
December	187	10	3,853	1,353	12	1,458	2,535	111	8,683	229	519	1,228	18,803
Average	355	15	3,899	1,425	12	1,202	2,272	125	8,753	361	461	1,272	18,949
2012 January	216	12	3,823	1,313	2	1,406	2,463	129	8,187	367	420	1,349	18,280
February	218	11	3,980	1,350	23	1,343	2,421	139	8,622	297	394	1,306	18,760
March	236	14	3,706	1,382	2	1,134	2,226	111	8,633	323	416	1,163	18,213
April	329 378	14 17	3,704	1,359	3 1	986	2,069	122	8,817	338	408	1,166	18,330
May	378 454	17 13	3,745 3,729	1,409 1,545	1	1,095 1,064	2,152 2,072	116 107	8,996 9,035	376 372	294 372	1,224 1,214	18,707 18,915
June July	454 461	20	3,729	1,545	2	1,004	2,072	107	9,035 8,819	372	372 418	1,214	18,601
August	485	13	3,740	1,469	1	1,110	2,120	111	9,135	409	353	1,320	19,226
September	444	15	3,681	1,379	3	1,157	2,224	103	8,575	357	302	1,090	18,173
October	^R 369	^R 14	^R 3,838	^R 1,341	R 3	^R 1,273	^R 2,388	^R 110	^R 8,700	^R 319	^R 279	^R 1,361	^R 18,722
November	F 305	F 10	E 3,897	E 1,430	^{RF} 23	E 1,388	^{RF} 2,401	^{RF} 115	E 8,630	F 383	E 362	RE 1,439	E 18,994
December	F 200	F 10	E 3,600	^E 1,436	F 32	E 1,568	F 2,631	^F 112	^E 8,490	F 383	E 332	^E 1,741	^E 18,965
Average	E 341	E 14	E 3,748	E 1,407	Ĕ 8	E 1,211	E 2,280	^E 115	E 8.720	E 355	[⊑] 362	E 1,307	E 18,657

a Liquefied petroleum gases

^b Beginning in 2009, includes renewable diesel fuel (including biodiesel)
 ^b blended into distillate fuel oil.
 ^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in

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

2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other."
^d Includes propylene.
^e Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.
^f Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as includes for the planding crude oil blended in 1983, also includes reacting in 1983, also includes reacting in 1983, also includes reacting blending crude oil burned asoline 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

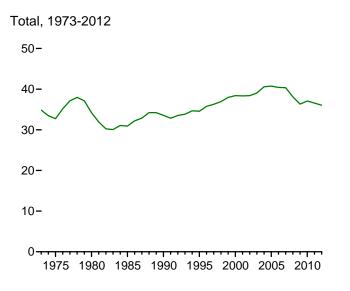
greater than -500 barrels per day.

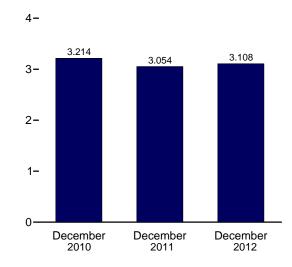
Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a-3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent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

of Columbia. Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, *Petroleum* Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, *Petroleum Statement, Annual*, annual reports. • 1981-2011: EIA, *Petroleum Supply Annual*, annual reports. • 2012: EIA, *Petroleum Supply Monthly*, monthly reports; and, for the current two months, *Weekly Petroleum Status Report* data system, Short-Term Integrated Forecasting System, and *Monthly Energy Review* data system calculations.

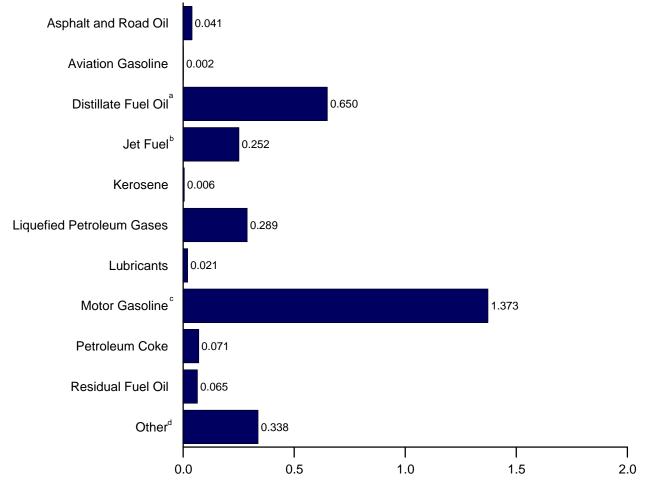
Figure 3.6 Heat Content of Petroleum Products Supplied by Type (Quadrillion Btu)

Total









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

^b Includes kerosene-type jet fuel only.

° Includes fuel ethanol blended into motor gasoline.

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

Table 3.6 Heat Content of Petroleum Products Supplied by Type

(Trillion Btu)

Read Qii Gasoline Fuel Oli Fuel Oli Fuel Oli Cote Fuel Qii Other/ Total 1973 Total 1,264 83 6.575 2.167 447 1,221 1,881 359 1.278 5543 5249 2.109 32,721 334 12,786 554 52,492 1,718 342,205 335 12,786 554 52,492 12,83 334,205 3355 1556 12,372 357 354 12,446 532 5,772 3,278 334,205 3355 1566 337 152,312 335,50 1355 1537 1542 1,564 829 1,228 3,282 1358 143 1,771 1,771 3,338 1562 1,563 2,573 13,571 15,711 15,711 15,711 356 1,332 140 1,734 2,2451 336 14,823 336,823 336,824 3,240 308 16,631 3,640 3,640 3,640 3,640 3,640 3,640 <td< th=""><th></th><th>Asphalt and</th><th>Aviation</th><th>Distillate</th><th>Jet</th><th>Kero-</th><th>LPC</th><th>a</th><th>Lubri-</th><th>Motor</th><th>Petro- leum</th><th>Residual</th><th></th><th></th></td<>		Asphalt and	Aviation	Distillate	Jet	Kero-	LPC	a	Lubri-	Motor	Petro- leum	Residual		
1975 Total 1,014 7,1 6,061 2,047 329 1,097 304 1,278 5,42 5,649 2,109 32,78 34,205 1985 Total 1,029 56 6,098 2,447 328 1,238 2,103 322 1,308 582 5,775 2,158 30,255 1985 Total 1,176 40 6,618 3,129 112 15,42 2,512 346 14,825 6,121 1,355 3,455 1995 Total 1,224 40 7,715 3,274 128 1,544 2,515 311 1,502 3,263 354 15,224 3,238 3,288 36,265 1996 Total 1,224 40 7,304 3,306 156 1,568 2,697 336 16,035 1,648 1,668 3,267 3,277 3,466 68,333 133 1,747 2,852 3,127 3,7369 3,466 68,333 133 1,747 2,852 3,124 1,166 3,968 3,969 3,136 1,669 1,016 1,656 3,937 3,468							Propaned	Total					Other ^f	Total
1975 Total 1,014 71 6,061 2,047 329 1,097 304 1,278 5,42 5,649 2,109 32,41 039 1,376 354 1,264 522 5,775 2,152 3,225 3,255 2,152 3,121 3,555 3,557 156 1,504 6,251 3,123 3,157 152 1,624 5,044 8,23 1,282 3,228 8,285 5,129 3,123 3,17,359 3,426 150 1,564 2,837 3,157 160,05 1,648 1,668 3,040 3,17,959 3,426 150 1,584 2,697 3,354 1,620 3,040 3,040 3,047 2,525 3,347 1,174 2,428 3,049 1,747 2,525 3,344 1,619 1,060 1,772 3,248 4,0583 3,0475 1,41 1,772 <th>1973 Total</th> <th>1.264</th> <th>83</th> <th>6.575</th> <th>2.167</th> <th>447</th> <th>1.221</th> <th>1.981</th> <th>359</th> <th>12.797</th> <th>573</th> <th>6.477</th> <th>2.114</th> <th>34.837</th>	1973 Total	1.264	83	6.575	2.167	447	1.221	1.981	359	12.797	573	6.477	2.114	34.837
1985 Total 1,029 500 6,098 2,447 238 1,236 2,103 322 13,098 582 2,759 2,152 30,552 1995 Total 1,178 40 6,618 3,132 112 1,534 2,512 346 1,625 6,827 3,152 112 1,534 2,560 335 15,564 6,827 3,128 337,580 3,662 115 1,634 2,569 335 15,564 6,827 3,128 3,37,940 1997 Total 1,226 36 7,735 3,360 140 1,744 2,897 338 16,373 396 1,40 1,744 2,897 338 16,373 3,964 3,946 130 1,747 2,824 3,946 3,946 3,946 3,947 134 1,701 2,748 3,946 3,946 3,947 134 1,701 2,764 3,946 3,946 3,947 144 1,160 1,727 2,244 3,940,948 2,007 1,143 <														
1990 Total 1,170 45 6,422 3,129 88 1,284 2,059 36,21 34,252 342 121 1342 2,121 342 122 342 123 123 123 123 123 123 123 123 123 357 357 150 160 150 150 160 150 160 150 160 150 160 150 160 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 36 <														
1995 Total 1,178 40 6,818 3,132 112 1,544 2,602 335 15,044 882 1,955 2,837 34,555 1997 Total 1,224 40 7,344 3,308 156 1,582 2,600 335 15,044 883 1,628 2,877 357 15,049 1,600 335 15,040 3,030 37,860 37,870 338 15,573 15,041 1,227 35 3,580 140 1,582 2,577 35 11,681 3,056 33,830 16,155 885 2,001 1,881 3,065 38,333 33,340 90 1,747 2,852 348 1,001 1,773 3,156 1,001 1,777 3,537 161 1,001 1,003 3,040 38,061 2005 Total 1,304 31 8,624 3,357 141 1,171 2,244 310 1,787 1,165 1,390 3,444 40,520 2006 Total 1,017 2,848 3,456 43,317 1,171 2,244 310 1,737 1,143 <														
1997 Total 1,176 3.7 7,175 3,274 128 1,584 2,660 354 15,064 837 1,952 3,121 35,739 1997 Total 1,224 30 7,359 3,457 162 1,584 2,600 354 15,571 15,016 1828 3,288 3,288 362,85 37,59 3,462 151 1,745 2,847 375 16,061 1,040 3,105 31,237 360,93 368,93 2002 Total 1,240 34 6,028 3,340 160 1,747 2,847 313 16,571 891 1,000 1,772 3,264 340,000 1,772 3,264 40,593 306 36,672 31,791 2,242 313 1,579 1,1561 3,464 40,593 306 1,562 3,171 1,781 2,464 1,332 2,111 3,318 40,372 306 1,721 2,682 312 1,744 1,133 2,111 3,318 40,340 300 1,562 2,371 1,516 1,516 4,464 40,420 307 1,562														
1997 Total 1,224 40 7,349 3,308 136 1,588 2,650 35.4 15,254 829 1,828 3,298 38,298 36,334 1999 Total 1,324 39 7,559 3,462 151 1,744 2,487 375 150,058 1995 3,462 151 1,744 2,487 358 180,05 1,997 38,402 38,402 33,835 180 1,017 2,2467 339 16,018 1,004 1,005 3,129 30,613 38,402 33,655 131,1791 2,244 339 16,018 1,000 1,722 3,248 40,053 30,011 1,010 1,722 3,148 40,732 30,011 1,010 1,723 3,248 40,533 30,011 1,017 2,764 319 1,626 31,840 40,732 30,011 1,721 2,646 310 1,626 34,40 34,40,732 30,011 1,729 2,731 313 1,689 3,416 40,732 30,011 30,01 30,011 30,011 30,01 30,011 30,011 30,01 30,011														
1998 Total 1,263 35 7,359 3,357 162 1,568 2,575 371 15,701 982 2,036 3,093 36,934 2000 Total 1,276 36 7,395 3,580 140 1,744 2,945 389 16,155 895 2,001 2,379 38,402 2001 Total 1,226 34 8,028 3,340 90 1,747 2,852 338 16,319 1,018 1,065 3,040 38,400 2003 Total 1,220 31 8,245 3,255 113 1,717 2,852 338 16,319 1,018 1,065 3,040 38,400 2005 Total 1,121 328 8,775 144 1,721 2,862 1,31 1,768 1,017 1,659 3,416 40,4072 2006 Total 1,107 28 8,711 3,73 9,11 1,618 3,416 40,400 2007 Total 1,197 32 8,411 3,738 9,11 1,701 1,618 3,416 40,400 3,414 40,722 4,432	1997 Total													
1999 Total 1,224 39 7,595 3,462 151 1,745 2,897 375 16,036 1,048 1,048 1,046 1,026 3,129 37,960 2000 Total 1,240 34 6,028 3,340 90 1,641 1,055 9,55 2,091 2,297 38,402 33,340 90 1,615 9,55 2,091 2,297 38,404 38,403 300 90 1,616 1,906 3,428 40,503 330 90 1,616 1,906 3,428 40,503 310 1,737 1,166 1,906 3,428 40,503 310 1,747 2,682 312 1,744 1,133 2,111 3,181 40,402 2007 Total 1,167 3,28 8,111 1,701 2,700 3313 1,762 1,448 1,851 3,446 40,420 2007 Total 1,172 2,833 6 1,227 1,433 3,462 40,420 2007 1,659 3,313 40,358 67 1,224 1,442 1,52 3,046 3,019 2,1,735 38	1998 Total													
2001 Total 1,257 35 8,179 3,426 150 1,588 2,687 338 16,373 961 1,861 3,066 38,340 2003 Total 1,240 30 8,349 3,265 113 1,771 2,744 309 16,891 1,000 1,772 3,64 39,641 2004 Total 1,323 35 8,755 3,475 144 1,721 2,644 313 17,652 1,144 1,533 3,418 40,420 2006 Total 1,151 32 8,624 3,353 66 1,722 2,744 1,13 2,111 3,418 40,420 2007 Total 1,152 2,720 3,334 66 1,722 2,744 2,13 1,1632 3,414 40,420 2007 Total 1,152 2,720 3,335 66 1,722 2,744 2,61 3,739 1,163 2,613 3,029 3,049 3,020 2,61 3,020 2,15 3,029 2,15 3,029 2,15 3,029 2,15 3,029 2,15 3,029 2,15	1999 Total													
2002 Total 1,240 34 8,028 3,340 90 1,747 2,852 334 16,819 1,018 1,605 3,040 83,409 2003 Total 1,304 31 8,652 3,383 133 1,791 2,864 313 17,379 1,156 1,990 3,264 40,593 2005 Total 1,261 33 8,755 3,375 144 1,721 2,743 313 1,652 1,148 1,581 3,416 40,732 2007 Total 1,197 32 8,621 3,386 6 1,729 2,733 313 1,620 2,713 593 1,717 2,613 56,321 2008 Total 1,012 2,843 3 1,620 2,574 201 1,7159 50 120 2,15 3,029 2009 Total 1,012 2,283 5 1,620 2,41 4,25 50 120 2,21 3,026 2009 Total 1,010 2,22 2,63														
2003 Total 1,220 30 8,349 3,265 113 1,701 2,744 309 16,981 1,000 1,772 3,264 39,051 2005 Total 1,221 33 35 8,755 3,475 144 1,721 2,624 313 17,682 1,144 1,513 3,418 40,732 2006 Total 1,121 28,641 3,138 313 1,761 1,762 1,144 1,513 34,16 40,420 2001 Total 1,197 28,621 3,383 1650 2,574 291 1,712 2,841 38,101 2005 Total 777 7,720 2,883 36 1,624 2,664 260 1,173 2,841 36,101 2001 January 42 2 668 226 213 5 164 255 23 1,253 56 91 202 2,776 March 54 2.667 240 1 1,05 1,98 3,111 3,014 2,06 261 1,422 70 1,03 3,654 2,77 3,111 <td></td>														
2004 Total 1,304 31 8,652 3,383 133 1,791 2,642 313 17,379 1,156 1,133 2,111 3,318 40,732 2005 Total 1,261 33 8,644 3,379 111 1,714 1,714 1,714 1,714 1,714 1,714 1,714 1,714 1,714 1,714 1,714 1,714 1,714 1,714 1,714 1,714 3,718 40,732 2007 Total 1,197 32 8,921 3,358 67 1,722 2,773 313 1,778 1,7168 1,022 1,448 1,851 3,416 40,358 2007 Total 677 277 7,720 2,883 356 1,622 1,148 1,622 1,437 90 130 2,2776 March 54 2 6,657 254 2 1,462 26 1,422 79 103 2,52 3,143 June 103 3 644 263 3 109 217 27 1,644 242 3,123 1,441 <	2002 Total													
2005 Total 1,223 35 8,755 3,475 144 1,721 2,623 312 17,444 1,133 2,111 3,318 40,732 2006 Total 1,197 32 8,921 3,358 67 1,729 2,733 313 17,689 1,022 1,422 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 36,231 2010 January 42 2 6.68 236 3 195 294 22 1,376 50 120 2,15 3,029 February 46 1 629 254 2 1,422 79 103 252 3,134 April 66 3657 240 1 105 198 24 1,422 79 103 252 3,134 August 110 265 233 104 206 21 1,458 74 94 237 3,142 June 103	2004 Total													
2007 Total 1,197 32 8,921 3,358 67 1,729 2,733 313 17,669 1,077 1,659 3,313 40,358 2009 Total 873 27 7,720 2,883 36 1,624 2,664 262 17,155 938 1,173 2,611 36,521 2010 January 42 2 668 236 3 195 222 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 2 662 254 2 106 207 24 1,462 63 101 240 3,111 June 103 644 263 3 104 206 28 1,458 74 94 237 3,123 4,142 63 101 242 3,133 4,142 103 355 3,33 104 220 24 1,497 81 93 355														
2008 Total 1,012 28 8,411 3,193 30 1,620 2,742 291 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 2 666 236 3 195 294 22 1,378 50 120 2,776 March 54 2 692 254 1442 246 26 1,422 79 103 252 3,134 June 103 3 654 263 3 104 206 28 1,486 74 94 237 3,122 July 97 3 640 263 3 109 217 7 1,504 72 1,604 3,1122 July 97 277 236 13 135 233 24 <td></td>														
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 46 1 629 213 5 164 255 35 120 215 3,02 February 46 1 629 213 5 164 255 23 1,253 56 91 202 2,776 March 56 3 657 254 2 142 246 26 1,422 79 103 252 3,134 June 103 3654 263 3 104 206 28 1,478 74 94 237 3,122 July 97 3 640 263 3 104 206 28 1,478 74 94 237 3,212 July 97 3 640 263 3 104 228 23 1,340 79 227 3,901 August 110 2 677														
2010 January 42 2 668 236 3 195 294 22 1,378 50 120 215 3,029 March 54 2 699 254 2 142 246 265 23 1,253 56 91 202 2,776 March 66 3 657 240 1 105 198 24 1,422 79 103 3252 3,131 June 103 3 654 263 3 104 206 28 1,458 74 94 237 3,123 August 110 2 692 261 2 116 220 24 1,442 68 91 227 3,037 September 92 2 677 238 8 133 253 24 1,438 63 95 215 3,14 Cetober 89 2 681 26 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>														
February 46 1 629 213 5 164 255 23 1,253 56 91 202 2,776 March	2009 10181	0/3	21	7,720	2,003	30	1,024	2,004	202	17,135	930	1,175	2,011	30,321
March 54 2 692 254 2 142 246 26 1.426 79 103 252 3.344 April 66 3 657 254 2 106 207 24 1.426 63 101 240 3.111 June 103 3 654 263 3 104 206 28 1.448 74 94 243 3.112 July 97 3 640 263 3 109 217 27 1.504 72 116 242 3.132 September 92 3 679 248 1 1.20 219 25 1.426 78 97 227 3.097 October 89 2 681 251 3 135 233 24 1.426 73 30.97 204 23 1.380 70 104 227 3.091 Total 878														
April 66 3 657 240 1 106 128 24 1,426 70 111 251 3,046 May 103 3 654 263 3 109 217 27 1,504 72 116 242 3,122 July 97 3 640 263 3 109 217 27 1,504 72 116 242 3,132 August 110 2 692 261 2 116 220 24 1,426 78 97 227 3,097 October 89 2 681 251 3 135 233 24 1,426 70 010 227 3,097 December 42 2 754 243 9 194 228 23 1,336 67 113 227 3,091 March 58 3 730 243 5 152 254														
May 78 2 657 254 2 106 207 24 1,482 63 101 240 3,111 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 92 661 251 3 135 233 24 1,458 63 95 215 3,114 December 42 2 754 243 9 194 298 21 1,414 69 102 233 3,214 Total 878 27 8,080 2,963 41 1,624 2,821 291 17,127 826 1,237 3,010 29,02 2,779 March 58 3 730 243 5 1,52 <t></t>														
July 97 3 640 263 3 109 217 27 1,504 72 116 242 3,841 August 110 2 692 261 2 116 220 24 1,497 81 93 259 3,241 September 92 3 679 248 1 120 219 25 1,426 78 97 227 3,097 October 89 2 681 251 3 135 223 1,380 70 104 227 3,014 December 42 2 754 243 9 194 298 21 1,411 69 102 233 3,214 Total 878 27 75 237 3 207 304 23 1,354 67 113 227 3,091 February 46 2 658 3 730 243 5 152 265 28 1,426 77 91 194 3,032 <t< td=""><td></td><td>78</td><td></td><td>657</td><td>254</td><td>2</td><td>106</td><td>207</td><td>24</td><td></td><td>63</td><td>101</td><td>240</td><td>3,111</td></t<>		78		657	254	2	106	207	24		63	101	240	3,111
August 110 2 662 261 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 59 2 677 238 8 134 228 23 1,380 70 104 227 3,014 December 42 2 754 243 9 194 298 21 1,414 69 102 233 3,214 Total 878 27 8,080 2,963 41 1,624 2,821 291 17,127 826 1,228 2,800 37,082 2011 January 45 2 715 237 3 207 304 23 1,354 67 113 227 3,091 March 58 3 730 243 5 152 265 28 1,426 67 91 100 190 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
September 92 3 679 248 1 120 219 25 1426 78 97 227 3,097 October 89 2 681 251 3 135 233 24 1,458 63 95 215 3,114 December 42 2 754 243 9 194 298 21 1,441 69 102 233 3,214 December 42 2 774 243 9 194 298 21 1,441 69 102 233 3,214 Totai 878 27 8,080 2,963 41 1624 281 21 1,411 69 102 233 3,214 March 58 3 730 243 5 152 265 28 1,423 65 90 250 3,160 April 62 2 656 248 1 115			3											
Ociober 89 2 681 251 3 135 233 24 1.458 63 95 215 3.114 November 59 2 677 238 8 134 228 23 1.380 70 104 227 3.014 December 42 2 754 243 9 194 298 21 1.441 69 102 233 3.214 Total 878 27 8,080 2,963 41 1,624 2,821 291 17,127 826 1,228 2,800 37,082 2011 January 45 2 715 237 3 207 304 23 1,354 67 113 227 3,091 March 58 3 730 243 5 152 265 28 1,423 65 90 220 3,160 April 62 2 656 248 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
November 59 2 677 238 8 134 228 23 1,380 70 104 227 3,014 December 42 2 754 243 9 194 298 21 1,441 69 102 233 3,214 Total 878 27 8,080 2,963 41 1,624 2,821 291 17,127 826 1,228 2,800 37,082 2011 January 45 2 715 237 3 207 304 23 1,354 67 113 227 3,091 Karch 58 3 730 243 5 152 265 28 1,423 65 90 250 3,160 May 73 3 668 250 1118 226 23 1,412 67 191 194 3,032 June 90 3 690 262 110 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>														
December 42 2 754 243 9 194 298 21 1,441 69 102 233 3,214 Total 878 27 8,080 2,963 41 1,624 2,821 291 17,127 826 1,228 2,800 37,082 2011 January 45 2 715 237 3 207 304 23 1,354 67 113 227 3,091 February 46 2 638 215 8 159 2265 28 1,423 65 90 250 3,160 April 62 2 656 248 1 115 216 25 1,377 64 90 224 2,965 June 90 3 690 262 1 110 214 233 1,419 68 90 209 3,070 July 96 3 644 259 2														
2011 January 45 2 715 237 3 207 304 23 1,354 67 113 227 309 February 46 2 638 215 8 159 254 20 1,257 49 100 190 2,779 March 58 3 730 243 5 152 265 28 1,423 65 90 220 3,160 April 62 2 656 248 1 115 216 25 1,377 64 90 224 2,965 May 73 3 668 250 (s) 118 226 23 1,426 77 91 194 3,0370 July 96 3 644 259 2 116 222 22 1,461 69 64 245 3,086 August 112 3 724 273 1 124 231 26 1,444 86 68 234 3,011 October <td< td=""><td>December</td><td>42</td><td>2</td><td>754</td><td>243</td><td>9</td><td>194</td><td>298</td><td>21</td><td>1,441</td><td>69</td><td></td><td>233</td><td>3,214</td></td<>	December	42	2	754	243	9	194	298	21	1,441	69		233	3,214
February 46 2 638 215 8 159 254 20 1,257 49 100 190 2,779 March 58 3 730 243 5 152 265 28 1,423 65 90 220 2,965 May 73 3 668 250 (s) 118 226 23 1,426 77 91 194 3,032 June 90 3 669 262 1 110 214 23 1,419 68 90 209 3,070 July 96 3 644 259 2 116 222 22 1,461 69 64 245 3,086 August 112 3 724 273 1 124 231 26 1,444 86 68 234 3,201 October 87 2 723 243 (s) 142 245 19 1,399 74 79 220 3,020 020 3,020 03 <th>Total</th> <th>878</th> <th>27</th> <th>8,080</th> <th>2,963</th> <th>41</th> <th>1,624</th> <th>2,821</th> <th>291</th> <th>17,127</th> <th>826</th> <th>1,228</th> <th>2,800</th> <th>37,082</th>	Total	878	27	8,080	2,963	41	1,624	2,821	291	17,127	826	1,228	2,800	37,082
March 58 3 730 243 5 152 265 28 1,423 65 90 250 3,160 April 62 2 656 248 1 115 216 25 1,377 64 90 224 2,965 May 73 3 668 250 (s) 118 226 23 1,426 77 91 194 3,032 June 90 3 690 262 1 110 214 23 1,419 68 90 209 3,070 July 96 3 644 259 2 116 222 22 1,461 69 64 245 3,080 August 112 3 724 273 1 124 231 1,369 63 93 224 3,011 October 87 2 723 243 (s) 142 245 19 1,399 74 79 220 3,092 November 59 2	2011 January													
April 62 2 656 248 1 115 216 25 1,377 64 90 224 2,965 May 73 3 668 250 (s) 118 226 23 1,426 77 91 194 3,032 June 90 3 668 262 1 110 214 23 1,426 77 91 194 3,032 June 96 3 644 259 2 116 222 22 1,461 69 64 245 3,086 August 112 3 724 273 1 124 231 26 1,444 86 68 324 3,011 October 87 2 723 243 (s) 142 245 19 1,399 74 79 220 3,020 December 38 2 696 238 2 173 289 21 1,405 43 101 203 3,020 December 38	February													
May 73 3 668 250 (s) 118 226 23 1,426 77 91 194 3,032 June 90 3 690 262 1 110 214 23 1,419 68 90 209 3,070 July 96 3 644 259 2 116 222 22 1,461 69 64 245 3,086 August 112 3 724 273 1 124 231 26 1,444 86 68 234 3,201 September 92 2 688 241 1 117 216 23 1,369 63 93 224 3,011 October 87 2 723 243 (s) 142 245 19 1,399 74 79 220 3,020 December 38 2 696 238 2 173 289 21 1,405 43 101 220 3,054 Total 8														
June 90 3 690 262 1 110 214 23 1,419 68 90 209 3,070 July 96 3 644 259 2 116 222 22 1,461 69 64 245 3,086 August 112 3 724 273 1 124 231 26 1,444 86 68 234 3,070 September 92 2 688 241 1 117 216 23 1,369 63 93 224 3,011 October 87 2 723 243 (s) 142 245 19 1,399 74 79 220 3,092 November 59 2 718 241 1 149 254 23 1,339 74 79 220 3,092 December 38 2 696 238 2 173 289 21 1,405 43 101 220 3,054 Total <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>														
July 96 3 644 259 2 116 222 22 1,461 69 64 245 3,086 August 112 3 724 273 1 124 231 26 1,444 86 68 234 3,201 September 992 2 688 241 1 117 216 23 1,369 63 93 224 3,011 October 87 2 723 243 (s) 142 245 19 1,399 74 79 220 3,092 November 59 2 718 241 1 149 254 23 1,336 68 79 239 3,020 December 38 2 696 238 2 173 289 21 1,405 43 101 20 3,054 Total 859 27 8,289 2,950 25 1,682 2,937 276 16,670 794 1,058 2,676 36,562 <t< td=""><td></td><td></td><td>3</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>			3											
August 112 3 724 273 1 124 231 26 1,444 86 68 234 3,201 September 92 2 688 241 1 117 216 23 1,369 63 93 224 3,011 October 87 2 723 243 (s) 142 245 19 1,399 74 79 220 3,092 November 59 2 718 241 1 149 254 23 1,336 68 79 220 3,020 December 38 2 696 238 2 173 289 21 1,405 43 101 220 3,054 Total 859 27 8,289 2,950 25 1,682 2,937 276 16,670 794 1,058 2,676 36,562 2012 January 44 2 690 231 (s) 167 270 24 1,324 69 82 238 2,975														
September 92 2 688 241 1 117 216 23 1,369 63 93 224 3,011 October 87 2 723 243 (s) 142 245 19 1,399 74 79 220 3,092 November 59 2 718 241 1 149 254 23 1,336 68 79 239 3,020 December 38 2 696 238 2 173 289 21 1,405 43 101 220 3,054 Total 859 27 8,289 2,950 25 1,682 2,937 276 16,670 794 1,058 2,676 36,562 2012 January 42 2 672 222 4 149 250 24 1,305 52 72 219 2,863 March 49 2 669 243		112	3	724	273	1	124	231	26	1,444		68	234	3,201
November 59 2 718 241 1 149 254 23 1,336 68 79 239 3,020 December 38 2 696 238 2 173 289 21 1,405 43 101 220 3,054 Total 859 27 8,289 2,950 25 1,682 2,937 276 16,670 794 1,058 2,676 36,562 2012 January 44 2 690 231 (s) 167 270 24 1,324 69 82 238 2,976 February 42 2 672 222 4 149 250 24 1,305 52 72 219 2,863 March 49 2 669 243 (s) 135 245 21 1,396 60 81 209 2,976 April 65 2 647 231														
December 38 2 696 238 2 173 289 21 1,405 43 101 220 3,054 Total 859 27 8,289 2,950 25 1,682 2,937 276 16,670 794 1,058 2,676 36,562 2012 January 44 2 690 231 (s) 167 270 24 1,324 69 82 238 2,975 February 42 2 672 222 4 149 250 24 1,305 52 72 219 2,863 March 49 2 669 243 (s) 135 245 21 1,396 60 81 209 2,907 May 78 3 676 248 (s) 130 237 22 1,455 70 57 217 3,063 June 90 2 652 263 <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>														
Total 859 27 8,289 2,950 25 1,682 2,937 276 16,670 794 1,058 2,676 36,562 2012 January 44 2 690 231 (s) 167 270 24 1,324 69 82 238 2,975 February 42 2 672 222 4 149 250 24 1,305 52 72 219 2,863 March 49 2 669 243 (s) 135 245 21 1,396 60 81 209 2,976 April 65 2 647 231 1 113 219 22 1,380 61 77 201 2,907 May 78 3 676 248 (s) 130 237 22 1,455 70 57 217 3,063 June 90 2 652 263 (s) <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
February 42 2 672 222 4 149 250 24 1,305 52 72 219 2,863 March 49 2 669 243 (s) 135 245 21 1,396 60 81 209 2,976 April 65 2 647 231 1 113 219 22 1,380 61 77 201 2,907 May 78 3 676 248 (s) 1302 237 22 1,455 70 57 217 3,063 June 90 2 652 263 (s) 120 230 20 1,414 67 70 211 3,007 July 95 3 641 258 (s) 120 230 20 1,427 63 81 233 3,152 August 100 2 675 258 (s) 132 2														
February 42 2 672 222 4 149 250 24 1,305 52 72 219 2,863 March 49 2 669 243 (s) 135 245 21 1,396 60 81 209 2,976 April 65 2 647 231 1 113 219 22 1,380 61 77 201 2,907 May 78 3 676 248 (s) 1302 237 22 1,455 70 57 217 3,063 June 90 2 652 263 (s) 120 230 20 1,414 67 70 211 3,007 July 95 3 641 258 (s) 120 230 20 1,427 63 81 233 3,152 August 100 2 675 258 (s) 132 2		14	2	600	221	(c)	167	270	24	1 32/	60	80	236	2 075
March 49 2 669 243 (s) 135 245 21 1,396 60 81 209 2,976 April 65 2 647 231 1 113 219 22 1,380 61 77 201 2,907 May 78 3 676 248 (s) 130 237 22 1,455 70 57 217 3,063 June 90 2 652 263 (s) 122 218 19 1,414 67 70 211 3,007 July 95 3 641 258 (s) 120 230 20 1,427 63 81 232 3,051 August 100 2 675 258 (s) 132 239 21 1,478 76 69 233 3,152 September 88 2 643 235 (s) 133 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>														
April 65 2 647 231 1 113 219 22 1,380 61 77 201 2,907 May 78 3 676 248 (s) 130 237 22 1,455 70 57 217 3,063 June 90 2 652 263 (s) 122 218 19 1,414 67 70 211 3,007 July 95 3 641 258 (s) 120 230 20 1,427 63 81 232 3,051 August 100 2 675 258 (s) 132 239 21 1,478 76 69 233 3,152 September 88 2 643 235 (s) 133 236 19 1,342 64 57 190 2,874 October 876 2 R693 R 236 R 1 R 151														
May 78 3 676 248 (s) 130 237 22 1,455 70 57 217 3,063 June 90 2 652 263 (s) 122 218 19 1,414 67 70 211 3,007 July 95 3 641 258 (s) 120 230 20 1,427 63 81 23 3,051 August 100 2 675 258 (s) 132 239 21 1,478 76 69 233 3,152 September 88 2 643 235 (s) 132 236 19 1,342 64 57 190 2,877 October 76 2 R693 R236 R1 R151 R263 R21 R1,407 R 60 F54 R241 R3,054			2						22	1,380				
July 95 3 641 258 (s) 120 230 20 1,427 63 81 232 3,051 August 100 2 675 258 (s) 132 239 21 1,478 76 69 233 3,157 September 88 2 643 235 (s) 133 236 19 1,342 64 57 190 2,877 October 76 2 R693 R236 R1 R151 R263 R21 R1,407 R60 R54 R241 R3,054	May		3											
August 100 2 675 258 (s) 132 239 21 1,478 76 69 233 3,152 September														
September 88 2 643 235 (s) 133 236 19 1,342 64 57 190 2,877 October														
October R76 2 R693 R236 R1 R151 R263 R21 R1.407 R60 R54 R241 R3.054														
		R 76			R 236	R 1	R 151	R 263	R 21	R 1.407		^R 54		R 3,054
	November	F 61	F 2	E 681	E 243	F 4	^E 160	^{RF} 255	^{RF} 21	E 1.351	F 69	^E 68	^{RE} 257	E 3.012
December F41 F2 E650 E252 F6 E186 F289 F21 E1.373 F71 E65 E338 E3.108		F 41	F2		E 252	_ ^F 6		F 289	F 21	E 1,373	F 71	^E 65	^E 338	^E 3,108
Total ^E 829 ^E 25 ^E 7,991 ^E 2,919 ^E 16 ^E 1,700 ^E 2,951 ^E 254 ^E 16,653 ^E 784 ^E 834 ^E 2,787 ^E 36,044	Total	[⊨] 829	^E 25	[⊨] 7,991	^E 2,919	^E 16	^E 1,700	^E 2,951	^E 254	^E 16,653	[⊨] 784	[⊨] 834	^E 2,787	^E 36,044

^a Liquefied petroleum gases.

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

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

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

⁶ Printing motor gasoline. Degrimme Degrimme in 1995, also includes tudi etration bended into motor gasoline. ⁷ Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary supply) reclassified as gasoline blending components. Beginning in 1983, also includes crude oil burned

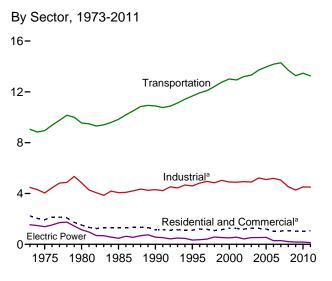
as fuel. Beginning in 2005, also includes naphtha-type jet fuel.

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

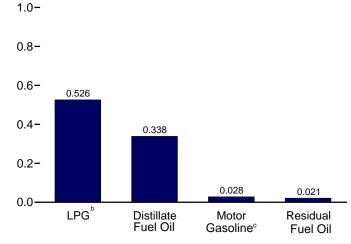
Notes: • Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent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

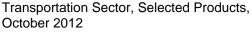
For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/. Sources: See end of section.

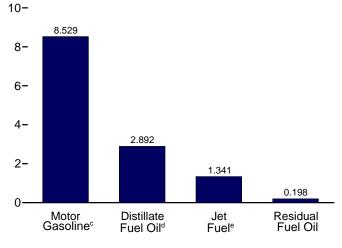












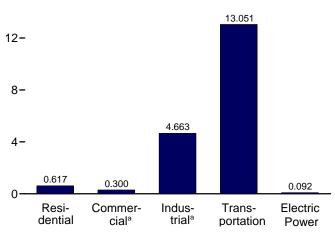
^a Includes combined-heat-and-power plants and a small number of electricity-only plants.

^b Liquefied petroleum gases.

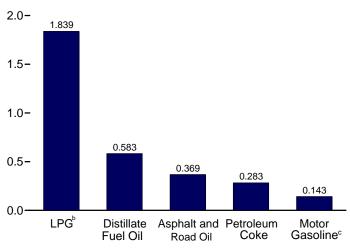
° Includes fuel ethanol blended into motor gasoline.

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

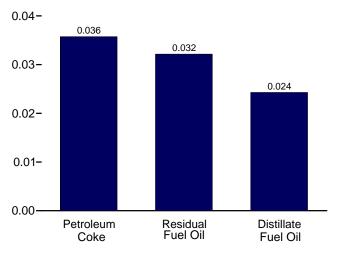
By Sector, October 2012 16-



Industrial Sector,^a Selected Products, October 2012



Electric Power Sector, October 2012



distillate fuel oil.

^e Includes kerosene-type jet fuel only.

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

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

		Resident	tial Sector				Com	mercial Sect	tor ^a		
	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petro- leum Coke	Residual Fuel Oil	Total
1973 Average	942	110	407	1,459	303	31	105	45	NA	290	774
1975 Average	850	78	365	1,293	276	24	92	46	NA	214	653
1980 Average	617	51	222	890	243	20	63	56	NA	245	626
1985 Average	514	77	224	815	297	16	68	50	NA	99	530
1990 Average	460	31	252 282	742 743	252 225	6 11	73 78	58 10	0	100	489 385
1995 Average	426 434	36 43	334	743 811	225	10	78 87	10	(s) (s)	62 60	385
1996 Average 1997 Average	411	45	325	781	209	12	86	22	(s)	48	378
1998 Average	363	52	303	718	202	15	84	20	(s)	37	358
1999 Average	389	54	376	819	206	13	100	15	(s)	32	366
2000 Average	424	46	395	865	230	14	107	23	(s)	40	415
2001 Average	427	46	375	849	239	15	102	20	(s)	30	406
2002 Average	404	29	384	817	209	8	101	24	(s)	35	376
2003 Average	425	34	389	848	226	9	112	32	(s)	48	428
2004 Average	433	41	364	839	221	10	108	23	(s)	53	416
2005 Average	402	40	366	809	210	10	94	24	(s)	50	389
2006 Average	335	32	318	685	189	7	88	26	(s)	33	343
2007 Average	342	21	345	708	181	4	87	32	(s)	33	337
2008 Average	314	10	394	718	174	2	113	24	(s)	32	345
2009 Average	283	13	391	687	194	2	99	28	(s)	33	357
2010 January	460	10	461	931	324	2	122	28	(s)	57	532
February	471	24	441	936	332	4	116	28	(s)	58	538
March	270	8	388	666	190	1	102	28	(s)	33	356
April	196	5	321	521	138	1	85	29	(s)	24	277
May	207	8	327	542	146	1	86	30	0	25	289
June	244	11	338	593	172	2	89	30	0	30	323
July	189	13	345	547	133	2	91	30	0	23	280
August	169	7	353	528	119	1	93	30	(s)	21	264
September	157	6	363	526	111	1	96	29	(s)	19	256
October	233	10	370	614	164	2	98	29	(s)	29	322
November	271	32	373	676	190	5	99	29	(s)	33	356
December	432	35	466	934	304	6	123	29	(s)	53	516
Average	274	14	379	667	193	2	100	29	(s)	34	358
2011 January	400	13	480	893	281	2	127	27	(s)	43	481
February	419	35	440	895	295	6	116	28	(s)	45	490
March	286	19	420	725	201	3	111	28	(s)	31	375
April	197	6	356	559	139	1	94	28	0	21	283
May	130	(s)	362	492	91	(s)	96	29	0	14	230
June	202	3	353	558	142	1	93	29	0	22	287
July	180	6	355	542	127	1	94	29	0	19	270
August	246	4	366	616	174	1	97	29	0	26	326
September	270 293	5	357 388	632 682	190 206	1	94 102	28 28	0	29 31	342 368
October	293	1 4	417	682 757	206	(s) 1	102	28	0	36	368 411
November	433	9		898			120	28	(s)	46	502
December Average	433 282	9 9	456 396	686 686	305 198	1 1	120	28 28	(s) (s)	40 30	302 363
Average	202	5	550	000	130		105	20	(3)	50	505
2012 January	469	1	429	899	330	(s)	113	26	(s)	50	521
February	394	16	422	832	277	3	111	28	(s)	42	462
March	320	1	388	709	225	(s)	102	28	(s)	34	391
April	234	2	361	597	165	(s)	95	29	(s)	25	314
May	232	(s)	375	608	164	(s)	99	29	0	25	317
June	241	1	361	603	169	(s)	95	29	0	26	320
July	224	2	369	596	158	(s)	98	29	(s)	24	309
August	282 227	1 2	382	664 616	198	(s)	101 102	30 28	(s)	30 24	359
September	199		388	616	160 140	(s)	102		(s)		315
October 10-Month Average	199 282	2 3	416 389	617 674	140 198	(s) (s)	110 103	28 28	(s) (s)	21 30	300 360
2011 10-Month Average	261	9	388	658	184	2	102	28	(s)	28	344
2010 10-Month Average	258	10	370	639	182	2	98	29	(s)	32	342

^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. (s)=Less than 500 barrels per day and greater than -500 barrels per day.
 Notes: • Data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is

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

Table 3.7b Petroleum Consumption: Industrial Sector

(Thousand Barrels per Day)

					Industria	al Sectora				
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total
973 Average	522	691	75	902	88	133	254	809	1,005	4,479
975 Average	419	630	58	844	68	116	246	658	1,001	4,038
980 Average	396	621	87	1,172	82	82	234	586	1,581	4,842
985 Average	425	526	21	1.285	75	114	261	326	1.032	4.065
990 Average	483	541	6	1,215	84	97	325	179	1,373	4,304
06 Average	485	532	7		80	105	328	147	1,381	4,594
95 Average	400			1,527			343	147		
96 Average		557	9	1,580	78	105			1,518	4,819
997 Average	505	566	9	1,617	82	111	331	127	1,605	4,953
98 Average	521	570	11	1,553	86	105	390	100	1,508	4,844
999 Average	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
004 Average	537	570	14	1,646	73	195	423	108	1,657	5,222
005 Average	546	594	19	1,549	72	187	404	123	1,605	5,100
06 Average	521	594	14	1,627	71	198	425	104	1,640	5,193
007 Average	494	595	6	1.637	73	161	412	84	1,593	5.056
008 Average	417	599	2	1,419	67	131	394	86	1,408	4,523
009 Average	360	521	2	1,541	61	128	363	46	1,251	4,323
10 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
	378	472	2	1,419	66	149	274	51	1,403	4,430
May										
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	221	715	3	2,123	64	137	275	62	1,244	4,844
February	248	586	9	1,946	62	141	218	59	1,185	4,455
March	282	764	5	1,856	77	144	266	48	1,405	4,847
April	311	562	2	1,573	70	144	302	49	1,301	4,314
May	357	555	(s)	1,600	63	145	359	49	1,082	4,209
June	454	572	1	1,561	64	149	309	50	1,213	4,372
July	465	307	2	1,570	61	148	287	32	1,363	4,235
August	545	529	1	1,618	70	146	388	34	1,311	4,230
September	462	557	1	1,579	64	140	276	51	1,299	4,043
October	402	587	(s)	1,715	53	143	343	42	1,299	4,432
November	297	705	1	1,842	64	140	336	43	1,391	4,819
December	187	454	2	2,014	57	142	173	53	1,228	4,311
Average	355	574	2	1,749	64	144	295	48	1,272	4,503
12 January	216	552	(s)	1,896	66	134	303	41	1,349	4,558
February	218	723	4	1,864	71	141	242	39	1,306	4,609
March	236	498	(s)	1,715	57	142	292	41	1,163	4,145
April	329	490	1	1,594	63	145	311	41	1,166	4,139
Мау	378	468	(s)	1,657	59	148	343	29	1,224	4,307
June	454	378	(s)	1,596	55	148	336	35	1,214	4,217
July	461	253	(s)	1,632	54	145	298	40	1,298	4,18
August	485	305	(s)	1,687	57	150	368	34	1,320	4,406
September	444	434	(s)	1,713	53	141	314	30	1,090	4,218
October	369	583	(0)	1,839	57	143	283	27	1,361	4.663
10-Month Average	359	467	1	1,719	59	143	309	36	1,250	4,000
011 10-Month Average	378	573	2	1,713	65	144	303	47	1,265	4,491
	385									

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

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

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

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

Table 3.7c Petroleum Consumption: Transportation and Electric Power Sectors

(Thousand Barrels per Day)

				Transportat	ion Secto	r			Electric Power Sector ^a				
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oil ^e	Petro- leum Coke	Residual Fuel Oil ^f	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 18	2,489 2,536	1,655	10 10	74 73	8,435	255 295	12,938	80 60	47 80	437 287	564 427	
2002 Average	16	2,536	1,614 1,578	10	68	8,662 8,733	295	13,208 13,321	76	80 79	379	534	
2003 Average	10	2,005	1,578	12	69	8,887	321	13,321	52	101	379	535	
2004 Average 2005 Average	19	2,765	1,630	20	68	8,948	365	13,957	54	111	382	547	
2005 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	203	
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 21	62	8,839	371	13,540	25 30	56	37	118	
November	11 12	2,719 2.679	1,396 1,383	21	60 55	8,643 8,736	427 355	13,277 13,245	60	50 63	35 67	114 189	
December Average	12	2,079	1,303 1,432	20	64	8,816	382	13,245 13,466	38	65	67	170	
2011 Jonuary	11	2,520	1,346	27	60	8,206	421	12,591	43	85	56	184	
2011 January February	14	2,520	1,340	24	59	8,200	421	12,391	33	75	37	144	
March	18	2,765	1,385	23	73	8,626	346	13,235	29	82	37	147	
April	10	2,823	1,457	20	66	8,623	360	13,360	33	54	46	133	
May	18	2,892	1,407	20	59	8.644	363	13,420	31	55	40	128	
June	17	3,000	1,540	20	61	8,889	364	13,891	32	70	43	145	
July	19	2,914	1,473	20	58	8,854	226	13,562	36	81	52	169	
August	18	3,034	1,554	20	67	8,750	243	13,686	26	73	44	143	
September	13	2,895	1,416	20	61	8,572	378	13,355	24	73	33	130	
October	16	2,894	1,384	22	50	8,479	300	13,143	24	52	32	107	
November	12	2,807	1,416	23	60	8,369	308	12,996	25	40	32	97	
December	10	2,633	1,353	25	54	8,513	389	12,977	28	56	31	116	
Average	15	2,814	1,425	22	61	8,581	343	13,260	30	66	41	137	
2012 January	12	2,445	1,313	24	62	8,026	295	12,179	26	63	34	123	
February	11	2,562	1,350	23	67	8,452	285	12,752	23	55	27	105	
March	14	2,644	1,382	22	54	8,463	311	12,889	19	31	29	79	
April	14	2,790	1,359	20	59	8,644	314	13,200	26	27	28	80	
May	17	2,852	1,409	21	56	8,819	212	13,385	29	33	29	91	
June	13	2,912	1,545	20	52	8,857	265	13,664	29	37	45	111	
July	20	2,889	1,468	20	51	8,646	301	13,395	28	40 41	53	121	
August	13	2,931 2,839	1,469 1,379	21 22	54 50	8,955	251 219	13,694 12,930	23 22	41 43	39 30	102 94	
September October	15 14	2,839 2,892	1,379	22	50 54	8,407 8,529	198	12,930	22	43 36	30 32	94 92	
10-Month Average	14	2,892 2,776	1,341 1,401	23	54 56	8,529 8,580	265	13,051 13,115	24	41	32	100	
2011 10-Month Average	15	2.833	1.434	22	61	8.609	342	13,315	31	70	42	143	
2010 10-Month Average	15	2,035	1,434	21	65	8,841	342	13,507	36	67	70	143	

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.
 ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
 ^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type it fuel only; naphtha-type jet fuel is included in "Industrial Sector, Other" on Table 3.7b.
 ^d Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

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

amounts of kerosene and jet fuel.

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

¹ Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4. Notes: • Transportation sector data are estimates. • For total petroleum consumption by all sectors, see petroleum products supplied data in Table 3.5. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7.a-3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

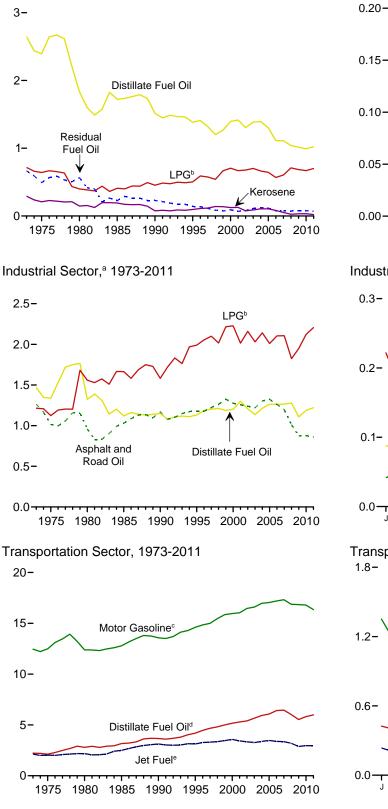
Figure 3.8 Heat Content of Petroleum Consumption by Sector, Selected Products (Quadrillion Btu)

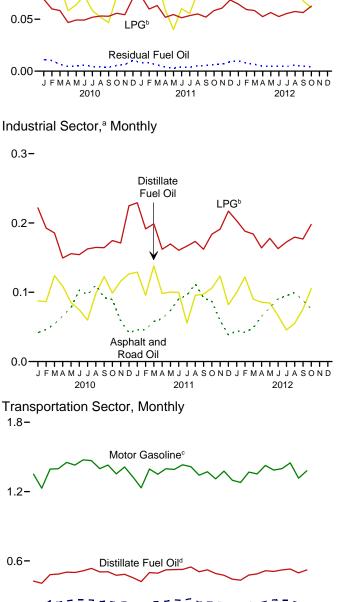
Residential and Commercial Sectors,^a 1973-2011

Residential and Commercial Sectors,^a Monthly 0.20-

Distillate

Fuel Oil





diesel) blended into distillate fuel oil.

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.

 a Includes combined-heat-and-power plants and a small number of electricity-only plants.
 ^b Liquefied petroleum gases.

⁶ Liquetied petroleum gases.

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

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

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

		Resident	al Sector				Con	mercial Sec	ctor ^a		
	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Total
973 Total	2,003	227	570	2,800	644	65	147	87	NA	665	1,607
975 Total	1,807	161	512	2,479	587	49	129	89	NA	492	1,346
980 Total	1,316	107	311	1,734	518	41	88	107	NA	565	1,318
985 Total	1,092	159	314	1,565	631	33	95	96	NA	228	1,083
990 Total	978	64	352	1,394	536	12	102	111	0	230	991
995 Total	905	74	395	1,374	479	22	109	18	(s)	141	769
996 Total	926	89	469	1,484	483	21	122	27	(s)	137	790
997 Total	874	93	455	1,422	444	25	120	43	(s)	111	743
998 Total	772	108	424	1,304	429	31	118	39	(s)	85	702
999 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
002 Total	860	60	537	1,457	444	16	141	45	(s)	80	726
2003 Total	905	70	544	1,519	481	19	157	60	(s)	111	828
004 Total	924	85	512	1,520	470	20	152	45	(s)	122	810
2005 Total	854	84	513	1,451	447	22	131	46	(s)	116	762
2006 Total	712	66	446	1,224	401	15	123	49	(s)	75	664
2007 Total	726	44	484	1,254	384	9	121	61	(s)	75	651
2008 Total	669	21	553	1,243	372	4	158	46	(s)	73	653
009 Total	602	28	547	1,176	413	4	139	53	(s)	76	685
010 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	0	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
011 January	72	2	57	132	51	(s)	15	4	(s)	8	79
February	68	6	47	121	48	1	12	4	(s)	8	74
March	52	3	50	105	36	1	13	5	(s)	6	61
April	34	1	41	76	24	(s)	11	4	0	4	44
May	23	(s)	43	67	17	(s)	11	5	0	3	35
June	35	1	41	76	25	(s)	11	5	0	4	44
July	33	1	42	76	23	(s)	11	5	0	4	43
August	45	1	44	89	31	(s)	12	5	0	5	53
September	47	1	41	89	33	(s)	11	4	0	5	54
October	53	(s)	46	99	37	(s)	12	5	0	6	60
November	59	1	48	107	41	(s)	13	4	(s)	7	65
December	78	2	54	134	55	(s)	14	5	(s)	9	83
Total	599	18	554	1,171	422	3	146	54	(s)	69	695
012 January	85	(s)	51	136	60	(s)	13	4	(s)	10	87
February	67	3	47	116	47	(s)	12	4	(s)	8	72
March	58	(s)	46	104	41	(s)	12	5	(s)	7	64
April	41	(s)	41	83	29	(s)	11	4	(s)	5	49
May	42	(s)	45	87	30	(s)	12	5	0	5	51
June	42	(s)	42	84	30	(s)	11	5	0	5	50
July	41	(s)	44	85	29	(s)	12	5	(s)	5	50
August	51	(s)	45	96	36	(s)	12	5	(s)	6	59
September	40	(s)	45	85	28	(s)	12	4	(s)	5	49
October	36	(s)	49	86	25	(s)	13	5	(s)	4	47
10-Month Total	501	5	455	961	353	1	120	45	(s)	58	577
011 10-Month Total	462	16	452	930	326	3	119	45	(s)	54	546
010 10-Month Total	457	17	432	906	322	3	114	46	(s)	61	546

^a Commercial sector fuel use, including that at commercial b Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

 NA=Not available. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.
 Notes: • Data are estimates. • For total heat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption

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

Table 3.8b Heat Content of Petroleum Consumption: Industrial Sector

(Trillion Btu)

		Industrial Sector ^a												
		Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total			
1973 Total		1.264	1,469	156	1,215	195	255	558	1,858	2,114	9,083			
1975 Total		1.014	1,339	119	1,123	149	223	540	1,509	2,109	8,127			
1980 Total		962	1,324	181	1,559	182	158	516	1,349	3,278	9,509			
1985 Total		1.029	1,119	44	1.664	166	218	575	748	2,152	7,714			
1990 Total		1.170	1,150	12	1.582	186	185	714	411	2.839	8.251			
1995 Total		1,178	1,131	15	1,990	178	200	721	337	2,837	8,588			
1996 Total		1,176	1,187	18	2,054	173	200	757	335	3,121	9,020			
1997 Total		1,224	1,203	19	2,100	182	212	727	291	3,298	9,256			
1998 Total		1,263	1,211	22	2,016	191	199	858	230	3,093	9,083			
1999 Total		1,324	1,187	13	2,217	193	152	936	207	3,129	9,357			
2000 Total		1.276	1,200	16	2.228	190	150	796	241	2.979	9.076			
2001 Total		1,257	1,300	23	2,014	174	295	858	203	3,056	9,181			
2002 Total		1,240	1,204	14	2,160	172	309	842	190	3,040	9,171			
2003 Total		1,220	1,136	24	2,030	159	324	825	220	3,264	9,202			
2004 Total		1,304	1,214	28	2,141	161	372	934	249	3,428	9,831			
2005 Total		1,323	1,264	39	2,009	160	356	889	281	3,318	9,640			
2006 Total		1,261	1,263	30	2,104	156	376	934	239	3,416	9,780			
2007 Total		1,197	1,265	13	2,106	161	306	906	193	3,313	9,461			
2008 Total		1,012	1,277	4	1,823	150	250	868	198	2,941	8,523			
2009 Total		873	1,107	4	1,950	135	244	799	106	2,611	7,829			
2010 January		42	87	(s)	222	11	23	38	11	215	650			
February		46	87	1	193	12	21	45	10	202	615			
March		54	124	(s)	186	13	23	67	11	252	730			
April		66	109	(s)	149	12	23	58	11	251	681			
May		78	85	(s)	156	12	24	51	10	240	657			
June		103	75	(s)	154	14	24	60	8	237	676			
July		97	60	1	163	14	25	57	10	242	667			
August		110	98	(s)	165	12	25	69	8	259	747			
Septembe	r	92	123	(s)	164	13	23	67	10	227	719			
October		89	99	(s)	175	12	24	52	10	215	676			
November		59	116	1	171	12	23	61	11	227	680			
December	·	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		45	129	1	229	12	22	51	12	227	729			
February		46	96	1	191	11	21	37	10	190	603			
March		58	138	1	199	14	23	50	9	250	743			
April		62	98	(s)	162	13	23	55	9	224	646			
		73	100	(s)	170	12	23	67	10	194	649			
		90	100	(s)	161	12	23	56	9	209	660			
July		96	55	(s)	167	11	24	54	6	245	658			
August		112	96	(s)	173	13	24	73	7	234	731			
Septembe	r	92	97	(s)	162	12	22	50	10	224	669			
October		87	106	(s)	184	10	23	64	8	220	702			
	·	59	123	(s)	191	12	22	61	8	239	715			
	r	38	82	(s)	217	11	23	32	10	220	634			
Total		859	1,221	4	2,205	142	274	648	109	2,676	8,139			
2012 January		44	100	(s)	203	12	22	57	8	238	684			
		42	122	1	188	13	21	42	7	219	655			
		49	90	(s)	184	11	23	55	8	209	628			
		65	86	(s)	164	11	23	56	8	201	614			
		78	85	(s)	178	11	24	64	6	217	662			
		90	66	(s)	163	10	23	61	7	211	631			
		95	46	(s)	172	10	23	56	8	232	642			
		100	55	(s)	180	11	24	69	7	233	678			
Septembe	r	88	76	(s)	177	10	22	57	6	190	625			
	Total	76 727	105 830	(s) 1	198 1,806	11 109	23 229	53 568	5 68	241 2,192	712 6,532			
					,									
2011 10-Month 2010 10-Month		762 777	1,015 946	4 4	1,797 1,726	120 127	229 235	555 563	91 99	2,218 2,341	6,790 6,818			

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

 ^c Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and residual rule of reclassified as unimitated as gasoline blending components. Beginning in 1983, also includes crude oil burned as fuel. Beginning in 2005, also includes naphtha-type jet fuel. (s)=Less than 0.5 trillion Btu and greater than -0.5 trillion Btu.

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

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

				Transporta	tion Secto	r			E	lectric Po	wer Sector ^a					
	Aviation Gasoline	Distillate Fuel Oil ^b	Jet Fuel ^c	Liquefied Petroleum Gases	Lubri- cants	Motor Gasoline ^d	Residual Fuel Oil	Total	Distillate Fuel Oile	Petro- leum Coke	Residual Fuel Oil ^f	Total				
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1995 Total	83 71 64 50 45 40	2,222 2,121 2,795 3,170 3,661 4,195	2,131 2,029 2,179 2,497 3,129 3,132	49 43 18 30 23 18	163 155 172 156 176 168	12,455 12,485 12,383 12,784 13,575 14,607	727 711 1,398 786 1,016 911	17,832 17,615 19,009 19,472 21,626 23,070	273 226 169 85 97 108	15 2 5 7 30 81	3,226 2,937 2,459 998 1,163 566	3,515 3,166 2,634 1,090 1,289 755				
1996 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2002 Total 2003 Total	37 40 35 39 36 35 34 30	4,469 4,672 4,812 5,001 5,165 5,292 5,392 5,666	3,274 3,308 3,357 3,462 3,580 3,426 3,340 3,265	16 14 18 14 12 14 14 14	163 172 180 182 179 164 162 150	14,837 14,999 15,463 15,855 15,960 16,041 16,465 16,597	851 712 674 665 888 586 677 571	23,648 23,918 24,538 25,219 25,820 25,557 26,085 26,297	109 111 136 140 175 171 127 161	80 102 124 112 99 103 175 175	628 715 1,047 959 871 1,003 659 869	817 927 1,306 1,211 1,144 1,277 961 1,205				
2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	31 35 33 32 28 27	5,932 6,076 6,414 6,457 6,020 5,528	3,383 3,475 3,379 3,358 3,193 2,883	19 28 27 22 40 28	152 151 147 152 141 127	16,962 17,043 17,197 17,321 16,872 16,837	740 837 906 994 920 810	27,219 27,645 28,105 28,335 27,214 26,240	111 115 74 89 73 70	222 243 214 171 154 139	879 876 361 397 240 181	1,212 1,235 648 657 468 390				
2010 January February March June July August September October December December Total	2 1 2 3 2 3 3 2 3 2 2 2 2 27	425 406 481 486 502 499 514 535 505 506 475 484 5,818	236 213 254 240 263 263 263 248 248 248 243 243 2,963	3 3 2 2 2 2 2 2 2 2 2 2 3 3 9	11 11 13 12 12 14 13 12 12 12 11 10 141	1,351 1,229 1,394 1,398 1,453 1,453 1,429 1,475 1,468 1,398 1,475 1,468 1,398 1,353 1,413 16,791	79 64 79 88 73 61 72 72 80 69 877	2,107 1,928 2,225 2,227 2,299 2,270 2,348 2,342 2,240 2,276 2,161 2,224 26,646	14 5 4 6 7 8 6 5 4 5 11 80	12 12 13 11 12 14 15 12 11 10 9 12 144	18 7 8 13 20 23 19 12 7 7 13 154	45 23 25 23 31 41 46 37 28 22 21 36 378				
2011 January February April June July August September October November December Total	2 2 3 2 3 3 3 3 2 2 2 2 2 2 2 7	455 421 499 483 522 524 524 526 548 506 523 491 475 5,983	237 215 243 248 250 262 259 273 241 243 241 243 241 238 2,950	3 3 2 2 2 2 2 2 3 3 3 3 3 3 3	11 10 14 11 11 11 13 11 9 11 10 134	1,327 1,232 1,395 1,350 1,398 1,391 1,432 1,415 1,342 1,371 1,371 1,377 16,343	82 75 67 68 71 69 44 47 71 58 58 58 76 787	2,117 1,957 2,225 2,175 2,262 2,262 2,277 2,301 2,175 2,210 2,115 2,181 26,254	8 5 6 6 7 5 4 4 4 5 6 4	16 13 15 10 13 15 14 13 10 7 11 146	11 6 7 9 8 8 10 9 6 6 6 6 9 3	35 24 28 24 24 26 32 27 24 20 18 22 303				
2012 January February March April May June July August September October 10-Month Total	2 2 2 3 2 3 2 3 2 2 2 2 2 2 2 2	442 433 477 488 515 509 522 529 496 522 4 ,933	231 222 243 231 248 263 258 258 235 236 2,424	3 3 2 2 2 2 3 2 3 2 3 25	12 12 10 11 11 9 10 10 103	1,298 1,279 1,369 1,353 1,427 1,387 1,387 1,349 1,449 1,316 1,380 13,655	58 52 61 59 41 50 59 49 41 39 508	2,045 2,002 2,165 2,146 2,246 2,222 2,252 2,300 2,102 2,191 21,670	5 4 3 4 5 5 5 4 4 4 4	12 10 6 7 7 8 8 7 7 7	7 5 6 5 6 9 10 8 6 6 6 6	23 18 15 17 20 23 19 17 17 185				
2011 10-Month Total 2010 10-Month Total	24 24	5,017 4,859	2,471 2,482	25 24	113 120	13,656 14,025	653 727	21,958 22,261	55 64	128 123	81 135	264 322				

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

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.
 ^b Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
 ^c Through 2004 includes kerosene-tyne and nanhtha-tyne iet fuel. Beginning in

^c Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector Other" on Table 3.8b.
^d Finished motor gasoline. Beginning in 1993, also includes fuel ethanol

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

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

¹ Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4. Notes: • Transportation sector data are estimates. • For total heat content of petroleum consumption by all sectors, see data for heat content of petroleum products supplied in Table 3.6. Petroleum products supplied is an approximation of petroleum consumption and is synonymous with the term "petroleum consumption" in Tables 3.7a–3.8c. • See Note 7, "Petroleum Products Supplied and Petroleum Consumption," at end of section. • Totals may not equal sum of components due to independent roundent roundent or superior and the District. to independent rounding. . Geographic coverage is the 50 States and the District of Columbia.

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

Petroleum

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Residual Fuel Oil: 1974-75; 1980-91; and 1982-69.

Total Petroleum: 1974—1,121; 1980—1,425; and 1982—1,461.

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

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

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

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

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

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

Table 3.1 Sources

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

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

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

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

Table 3.6 Sources

Asphalt and Road Oil, Aviation Gasoline, Distillate Fuel Oil, Kerosene, Propane, Lubricants, Petroleum Coke, and Residual Fuel Oil Product supplied data in thousand barrels per day for these petroleum products are from Table 3.5, and are converted to trillion Btu by multiplying by the appropriate heat content factors in Table A1.

Jet Fuel

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

Liquefied Petroleum Gases (LPG) Total

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

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

Motor Gasoline

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

Other Petroleum Products

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

For the current two months, total "Other" petroleum products supplied is calculated by first estimating total

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

Total Petroleum

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

Tables 3.7a–3.7c Sources

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

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

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

1981–2011: EIA, Petroleum Supply Annual. 2012: EIA, Petroleum Supply Monthly.

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

Asphalt and Road Oil

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

Aviation Gasoline

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

Distillate Fuel Oil

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

Distillate Fuel Oil Consumed by the Electric Power Sector

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

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

The aggregate end-use amount is total distillate fuel oil supplied minus the amount consumed by the electric power

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

Following are notes on the individual sector groupings:

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

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

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

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

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

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

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

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

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

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

Jet Fuel

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

Kerosene

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

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

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

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

to the 1979 shares, and the estimated industrial (including farm) portion is added to all other uses.

Liquefied Petroleum Gases (LPG)

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

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

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

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

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

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

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

Lubricants

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

Motor Gasoline

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

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

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

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

Petroleum Coke

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

Residual Fuel Oil

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

Residual Fuel Oil Consumed by the Electric Power Sector

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

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

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

Following are notes on the individual sector groupings:

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

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

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

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

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

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

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

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

Other Petroleum Products

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

Table 3.8a Sources

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

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

Liquefied Petroleum Gases (LPG)

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

Motor Gasoline

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

Total Petroleum

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

Table 3.8b Sources

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

Liquefied Petroleum Gases (LPG)

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

Motor Gasoline

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

Other Petroleum Products

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

Total Petroleum

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

Table 3.8c Sources

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

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

Jet Fuel

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

Liquefied Petroleum Gases (LPG)

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

Motor Gasoline

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

Total Petroleum

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

THIS PAGE INTENTIONALLY LEFT BLANK

4. Natural Gas

•

Figure 4.1 Natural Gas (Trillion Cubic Feet)

Overview, 1973-2011 Overview, Monthly 30-3.5-25-3.0-Consumption Consumption 2.5 -20-**Dry Production** 2.0-15-1.5-Dry Production 10-1.0-5-Net Imports 0.5-Net Imports 0----0.0----..... 1975 1980 1985 1990 1995 2000 2005 2010 J FMAMJ J A SOND J FMAMJ J A SOND J FMAMJ J A SOND 2010 2011 2012 Consumption by Sector, 1973-2011 Consumption by Sector, Monthly 12-1.2-Industrial Electric Residential 10-Power 0.9-8ndustrial 6-0.6-Residential Transportation 4 lectric Pow Commercia 0.3- \sim 2-Commercial Transportation 0-0.0-----****** _____ _____ 1975 1980 1985 1990 1995 2000 2005 2010 J FMAM J J A SOND J FMAM J J A SOND J FMAM J J A SOND 2010 2011 2012 Underground Storage, End of Year, 1973-2011 Underground Storage, End of Month 9-8-Total Total 6-6 Working Gas Base Gas 4-Working Gas 3-**Base Gas** 2

1975 1980 1985 1990 1995 2000 2005 2010 Web Page: http://www.eia.gov/totalenergy/data/monthly/#naturalgas. Sources: Tables 4.1, 4.3, and 4.4. 2010

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

2011

2012

0

Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

	Gross With- drawals ^a	Marketed Production (Wet) ^b	Extraction Loss ^c	Dry Gas Production ^d	Supple- mental Gaseous Fuels ^e	Imports	Trade Exports	Net Imports	Net Storage With- drawals ^f	Balancing Item ^g	Consump- tion ^h
1973 Total	24,067	ⁱ 22,648	917	ⁱ 21,731	NA	1,033	77	956	-442	-196	22,049
1975 Total	21,104	20,109	872	19,236	NA	953	73	880	-344	-235	19,538
1980 Total	21,870	20,180	777	19,403	155	985	49	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	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 24.108	19,866 19.961	964 938	18,902 19.024	103 102	2,994 3.152	157 159	2,837 2,993	24 -530	871 657	22,737 22.246
1998 Total 1999 Total	23.823	19,805	938	18,832	98	3,152	163	2,993	-530	-119	22,246
2000 Total	24,174	20,198	1,016	19,182	90	3,782	244	3,538	829	-306	23,333
2001 Total	24,501	20,570	954	19,616	86	3.977	373	3,604	-1.166	-500	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	^R 2,210	^R 1,824	^R 87	^R 1,737	5	385	94	291	822	^R -46	^R 2,810
February	R 2.048	R 1,683	R 80	R 1,603	5	324	88	236	628	Rg	R 2.481
March	R 2,277	^R 1,865	R 89	R 1,776	5	319	100	219	34	R 109	^R 2,143
April	^R 2,190	^R 1,813	86	R 1,727	5	298	76	223	-364	^R 102	^R 1,692
May	^R 2,237	^R 1,886	90	^R 1,797	5	298	86	212	-416	^R 19	^R 1,617
June	^R 2,139	^R 1,802	86	^R 1,717	5	282	90	192	-326	^R 61	^R 1,650
July	^R 2,209	^R 1,896	^R 90	^R 1,806	^R 5	329	86	243	-231	_ ^R 2	^R 1,826
August	^R 2,235	^R 1,918	^R 91	^R 1,827	6	305	84	221	-190	^R 16	^R 1,879
September	R 2,238	^R 1,861	89	R 1,772	5	282	79	202	-363	R 21	^R 1,637
October	R 2,357	^R 1,956	93	^R 1,863	6	295	96	199	-360	R -42	R 1,665
November	^R 2,277 ^R 2,400	^R 1,893 ^R 1,984	90 ^R 95	^R 1,802 ^R 1,890	5	273	124	150	77	^R -61 ^R -73	R 1,973
December Total	^R 26,816	R 22,382	R 1,066	^R 21,316	6 65	352 3,741	135 1,137	217 2,604	675 -13	R 115	^R 2,714 ^R 24,087
10tal	20,010	22,302	1,000	21,310	05	3,741	1,137	2,004	-13	115	24,007
2011 January	^R 2,299	^R 1,953	92	^R 1,861	^R 5	^R 372	136	^R 236	^R 811	^R -31	^R 2,882
February	^R 2,104	^R 1,729	^R 82	^R 1,647	R 4	^R 311	125	^R 186	^R 594	^R 16	^R 2,448
March	^R 2,411	^R 2,002	^R 95	^R 1,908	^R 5	^R 315	145	^R 171	^R 151	^R -3	^R 2,232
April	^R 2,350	^R 1,961	^R 93	^R 1,868	_ 5	278	127	^R 151	^R -216	R 20	^R 1,828
May	^R 2,411	^R 2,031	^R 96	^R 1,935	R 5	271	132	139	^R -405	R -10	^R 1,663
June	R 2,313	^R 1,954	R 92	R 1,862	5	^R 267	120	R 147	^R -346	^R -15	R 1,653
July	R 2,340	R 2,033	^R 96 ^R 97	R 1,937	5	293 ^R 280	113	^R 180 ^R 169	^R -248	R 3 R -7	R 1,877
August	^R 2,370 ^R 2,358	^R 2,057 ^R 1,987	R 97	^R 1,960 ^R 1,893	5 5	^R 280	111 127	^R 169	^R -249 ^R -404	R 27	^R 1,878 ^R 1,646
September October	R 2,358	^R 2,119	R 100	^R 2.019	5 5	R 282	127	^R 173		R-65	^R 1,741
November	^R 2,476	^R 2,076	^R 98	^R 1,978	5	R 249	128	^R 121	^R -41	^R -50	^R 2.014
December	R 2,544	R 2,135	R 101	R 2.034	R 5	R 298	134	R 163	R 390	R -69	^R 2,524
Total	R 28,479	R 24,036	^R 1,134	R 22,902	R 60	R 3,469	1,507	R 1,962	^R -354	^R -185	R 24,385
										5	
2012 January	R 2,573	RE 2,149	109	RE 2,041	6	281	130	R 151	545	R 8	R 2,750
February	R 2,378	RE 1,989	102	RE 1,887	5	R 270	130	^R 140	459	R 10	R 2,501
March	^R 2,537 ^R 2,445	RE 2,123 RE 2,065	109 105	RE 2,014 RE 1,960	6 R 4	265 243	141 123	124 120	-39 -137	R 19 R 8	^R 2,124 ^R 1,956
April	R 2,445	RE 2,065 RE 2,139	105	RE 2,031	4	243 ^R 259	123	R 120	-137 -283	R-8	^R 1,956
May June	R 2,530 R 2,420	RE 2,061	108	RE 2,031 RE 1,958	4 5	R 260	133	134	-283 -230	R (s)	^R 1,871
July	R 2,420	RE 2,137	103	RE 2,031	5	281	125	162	-230	^R (s) ^R 7	^R 2.071
August	R 2,372	RE 2.128	100	RE 2,021	5	281	139	R 142	-168	R 1	R 2,001
September	R 2,428	RE 2,086	107	RE 1,978	5	R 258	^R 137	R 121	^R -291	^R -14	^R 1,798
October	2,571	E 2,172	114	E 2,058	5	253	140	113	-241	-46	1,888
10-Month Total	24,710	^E 21,051	1,073	E 19,978	51	2,650	1,318	1,332	-520	-14	20,827
2044 40 Marsth Tatal	00 450	40.005		40.000	50	0.000	4 0 4 5	4 677	704		40.047
2011 10-Month Total 2010 10-Month Total	23,459 22.139	19,825 18,505	936 882	18,890 17,623	50 53	2,922 3.116	1,245 878	1,677 2,238	-704 -765	-65 250	19,847 19,399

^a Gases withdrawn from natural gas, crude oil, coalbed, and shale gas wells. Includes natural gas, natural gas plant liquids, and nonhydrocarbon gases; but

Includes natural gas, natural gas plant liquids, and nonhydrocarbon gases; but excludes lease condensate. ^b Gross withdrawals minus repressuring, nonhydrocarbon gases removed, and vented and flared. See Note 1, "Natural Gas Production," at end of section. ^c See Note 2, "Natural Gas Extraction Loss," at end of section. ^d Marketed production (wet) minus extraction loss. ^e See Note 3, "Supplemental Gaseous Fuels," at end of section. ^f Net withdrawals from underground storage. For 1980-2011, also includes net withdrawals of liquefied natural gas in above-ground tanks. See Note 4, "Natural Gas Storage," at end of section. ^g See Note 5, "Natural Gas Balancing Item," at end of section. Since 1980, excludes transit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination via the other country). ^h See Note 6, "Natural Gas Consumption," at end of section. ⁱ May include unknown quantities of nonhydrocarbon gases.

 ^j For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector" on Table 4.3. See Note 7, "Natural Gas Consumption, 1989-1992," at end of section. R=Revised. E=Estimate. (s)=Less than 0.5 billion cubic feet and greater than -0.5 billion cubic feet. NA=Not available. Notes: • See Note 8, "Natural Gas Adjustments, 1993-2000," at end of section.
 • Totals may not equal sum of components due to independent rounding.
 • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#naturalgas for all available data beginning in 1973.
 • 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, December 2012, Table 1. 2012, Table 1.

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

					Imports				Exports					
	Algeriaa	Canada ^b	Egypt ^a	Mexicob	Nigeriaa	Qatara	Trinidad and Tobago ^a	Other ^{a,c}	Total	Canada ^b	Japan ^a	Mexicob	Other ^{a,d}	Total
1973 Total 1975 Total 1980 Total 1980 Total 1985 Total	3 5 86 24	1,028 948 797 926	0 0 0 0	2 0 102 0	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0	1,033 953 985 950	15 10 0 0	48 53 45 53	14 9 4 2	0 0 0 0	77 73 49 55
1990 Total 1995 Total 1996 Total 1997 Total 1998 Total	84 18 35 66 69	1,448 2,816 2,883 2,899 3,052	0 0 0 0	0 7 14 17 15	0 0 0 0	0 0 0 0	0 0 0 0	0 5 12 17	1,532 2,841 2,937 2,994 3,152	17 28 52 56 40	53 65 68 62 66	16 61 34 38 53	0 0 0 0	86 154 153 157 159
1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2003 Total 2004 Total	76 47 65 27 53 120	3,368 3,544 3,729 3,785 3,437 3,607	0 0 0 0 0	55 12 10 2 0 0	0 13 38 8 50 12	20 46 23 35 14 12	51 99 98 151 378 462	17 21 14 8 11 46	3,586 3,782 3,977 4,015 3,944 4,259	39 73 167 189 271 395	64 66 63 66 62	61 106 141 263 343 397	0 0 0 0 0	163 244 373 516 680 854
2005 Total 2006 Total 2006 Total 2007 Total 2008 Total 2008 Total	97 17 77 0 0	3,700 3,590 3,783 3,589 3,271	73 120 115 55 160	9 13 54 43 28	8 57 95 12 13	3 0 18 3 13	439 389 448 267 236	40 11 0 18 15 29	4,233 4,341 4,186 4,608 3,984 3,751	353 358 341 482 559 701	65 61 47 39 31	305 322 292 365 338	0 0 2 0 3	729 724 822 963 1,072
2010 January February March April		327 277 276 252	17 12 9 6	1 1 5 5	0 0 3 9	12 6 1 9	22 16 16 15	6 12 9 3	385 324 319 298	68 60 77 50	2 2 2 4	23 22 21 22	0 3 0	94 88 100 76
May June July August	0 0 0 0	257 248 291 282	9 6 6 0	4 2 1 1	9 11 5 0	0 0 0 0	16 11 17 17	3 5 8 5	298 282 329 305	55 51 50 49	2 2 4 2	29 34 32 33	0 3 0 0	86 90 86 84
September October November December Total	0 0 0 0 0	250 257 242 322 3,280	6 3 0 0 73	3 4 (s) 1 30	3 2 0 0 42	0 5 9 4 46	16 15 14 15 190	3 9 9 9 81	282 295 273 352 3,741	50 63 84 82 739	7 2 2 3 33	23 25 30 38 333	0 6 12 32	79 96 124 135 1,137
2011 January February March April May	0 0	^R 332 ^R 279 ^R 277 245 ^R 236	3 6 6 3	(s) (s) (s) (s) (s)	0 0 0 0	13 0 14 4 24	16 11 10 11 8	9 15 9 13 0	^R 372 ^R 311 ^R 315 278 271	85 84 98 76 80	2 2 2 2 3	37 37 41 43 44	13 3 3 6 6	136 125 145 127 132
June July August September October	0 0 0 0 0	^R 239 ^R 273 ^R 250 ^R 231 ^R 251	6 0 0 3	(s) (s) (s) (s) 1	0 0 2 0 0	5 5 8 4 8	11 13 11 8 8	6 3 9 9 12	^R 267 293 ^R 280 ^R 252 ^R 282	71 64 67 77 64	2 0 2 2 0	47 47 42 39 43	0 3 0 8 3	120 113 111 127 110
November December Total	0 0 0	^R 233 ^R 272 ^R 3,117	0 3 35	(s) (s) 3	0 0 2	3 4 91	12 10 129	0 9 92 2	^R 249 ^R 298 ^R 3,469	84 87 937	2 0 18	39 42 500	3 5 52	128 134 1,507
2012 January February March April June July August September	0 0 0 0 0 0	265 R 250 246 235 R 243 251 265 262 R 246	0 3 0 0 0 0 0 0 0 0	(s) (s) (s) (s) (s) (s) (s) (s)	0 0 0 0 0 0 0 0 0 0	4 0 4 4 6 0 3 3 3 3	9 11 13 1 11 8 12 16 8	3 6 3 0 0 0 0	281 R 270 265 243 R 259 R 260 281 281 R 258	84 87 93 78 78 64 62 77 ^R 80	3 2 0 3 2 0 2 0	40 42 46 45 52 58 57 60 58	3 0 3 0 0 0 0 0 0	130 130 141 123 133 125 118 139 R 137
October 10-Month Total 2011 10-Month Total 2010 10-Month Total	0 0 0 0	242 2,507 2,612 2,716	0 3 32 73	(s) (s) 2 29	0 0 2 42	6 31 84 33	5 96 106 161	0 14 83 63	253 2,650 2,922 3,116	75 777 766 573	2 14 16 28	61 518 419 265	3 8 44 12	140 1,318 1,245 878

^a As liquefied natural gas.
^b By pipeline, except for very small amounts of liquefied natural gas imported from Canada in 1973, 1977, and 1981 and exported to Mexico beginning in 1998. See Note 9, "Natural Gas Imports and Exports," at end of section.
^c Australia in 1997-2001 and 2004; Brunei in 2002; Equatorial Guinea in 2007; Indonesia in 1986 and 2000; Malaysia in 1999 and 2002-2005; Norway in 2008 forward; Ornan 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 2007 South Korea in 2009-2011; Spain in 2010 and 2011; and United Kinqdom in 2010 and 2011.

Kingdom in 2010 and 2011.

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

R=Revised. (s)=Less than 500 million cubic feet.
Notes: • See Note 9, "Natural Gas Imports and Exports," at end of section.
Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#naturalgas for all available data beginning in 1973.
Sources: • 1973-1987: U.S. Energy Information Administration (EIA), Form
FPC-14, "Annual Report for Importers and Exporters of Natural Gas."
1988-2009: EIA, Natural Gas Annual, annual reports. • 2010 forward: EIA, Natural Gas Monthly, December 2012, Tables 4 and 5; and U.S. Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports."

Table 4.3 Natural Gas Consumption by Sector

(Billion Cubic Feet)

					End-Us	se Sectors						
					Industrial			Tr	ansportatio	on		
	Resi-	Com-	Lease and		Other Industr	ial	-	Pipelines ^d and Dis-	Vehicle		Electric Power	
	dential	merciala	Plant Fuel	CHPb	Non-CHP ^c	Total	Total	tributione	Fuel	Total	Sector ^{f,g}	Total
1973 Total 1975 Total 1980 Total 1980 Total 1990 Total 1990 Total 1990 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 2000 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	4,924 4,752 4,433 4,391 4,850 5,241 4,984 4,520 4,726 4,996 4,726 4,996 4,726 4,996 4,889 5,079 4,869 4,869 4,827 4,368 4,722 4,892	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 3,129 2,832 3,013 3,153 3,119	1,496 1,396 966 1,230 1,220 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) 1,055 1,258 1,289 1,355 1,401 1,310 1,240 1,310 1,240 1,141 1,084 1,115 1,055 990	8,689 6,968 7,172 5,901 5,963 6,906 7,146 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 8,142 7,344 7,527 7,150 7,256 6,657 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 8,463 8,273 8,544 7,713 7,669 7,881 7,880 7,443	728 583 504 660 700 711 751 635 645 645 645 645 667 591 566 584 584 584 648 648 670	NA NA NA (s) 5 6 8 9 12 13 15 18 12 23 24 26 27	728 583 635 504 660 705 718 760 645 655 640 682 610 587 608 607 608 674 697	3,660 3,158 3,044 3,245 4,237 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 22,609 22,737 22,246 23,333 22,239 23,027 22,277 22,403 22,014 21,699 23,104 23,277 22,910
2010 January February April May June July August September October November December Total	R 579 313 198 134 111 107 117 202 447 R 847	499 441 337 215 161 130 120 127 133 185 287 467 R 3,103	106 98 109 R 105 R 108 R 103 107 108 107 R 113 R 109 R 115 R 1,286	90 80 84 79 82 84 91 95 87 87 87 82 92 1,029	R 554 R 516 R 515 R 459 R 445 R 445 R 445 R 445 R 446 R 446 R 449 R 463 R 549 R 549 R 5 49 R 5 49	R 644 R 595 R 598 R 538 R 538 R 529 R 537 R 539 R 537 R 539 R 536 R 547 R 577 R 641 R 6,826	R 750 R 693 R 707 R 643 R 652 R 644 R 644 R 644 R 643 R 659 R 643 R 659 R 686 R 756 R 756 R 8,112	80 70 60 847 845 851 52 45 846 55 85 877 8 674	R 2 R 2 R 2 R 2 R 2 R 2 R 2 R 2 R 2 R 2	82 R 73 R 63 49 47 48 53 55 R 48 48 48 57 79 R 703	546 480 457 471 560 706 897 943 697 570 497 564 7,387	R 2,810 R 2,481 R 2,143 R 1,692 R 1,617 R 1,650 R 1,826 R 1,879 R 1,637 R 1,665 R 1,973 R 2,714 R 24,087
2011 January February March May June July August September October November December Total	R 970 R 769 R 601 R 347 208 R 135 R 111 109 122 227 R 429 R 686	R 528 R 432 R 364 168 R 135 R 128 135 141 R 208 R 397 R 3,154	R 107 R 97 R 111 R 109 R 112 R 107 R 110 R 111 R 109 R 116 R 115 R 118 R 1,323	90 81 82 83 87 88 97 99 91 85 86 96 1,063	R 563 R 513 R 526 R 479 R 468 R 440 R 438 R 446 R 438 R 446 R 451 R 479 R 501 R 539 R 5,842	R 652 R 594 R 562 R 555 R 555 R 535 R 546 R 541 R 563 R 563 R 5635 R 6,905	R 759 R 691 R 719 R 667 R 667 R 644 R 657 R 651 R 651 R 680 R 701 R 753 R 8,227	R 82 R 70 63 51 R 46 R 52 R 52 46 R 48 56 71 R 684	3 R2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 8 3 2 8 3 2 3 3 8 3 2 8 2 8 3 2 8 3 3 3 3 3 3 3 3	R 85 R 72 R 66 54 49 R 48 55 55 R 48 R 51 59 74 716	540 484 482 521 572 699 939 921 684 575 543 614 7,574	R 2,882 R 2,448 R 2,232 R 1,828 R 1,663 R 1,663 R 1,653 R 1,877 R 1,877 R 1,878 R 1,646 R 1,741 R 2,014 R 2,524 R 24,385
2012 January February April May June July August September October 10-Month Total	R 802 668 408 283 165 125 109 107 R 119 240 3,026	R 449 R 391 263 R 211 R 151 133 126 135 142 210 2,211	RE 118 RE 109 RE 117 RE 114 RE 118 RE 113 RE 113 RE 115 E 120 E 1,158	98 90 87 93 94 101 98 93 95 940	R 554 R 522 R 506 R 483 R 472 R 463 R 478 R 478 R 470 497 4,908	R 652 R 612 R 596 R 570 R 565 R 565 R 557 R 564 R 576 R 563 592 5,848	R 771 R 721 R 713 R 684 R 683 R 671 R 682 R 693 R 678 711 7,006	E 77 E 70 RE 60 RE 55 E 52 E 52 E 58 E 56 E 50 E 53 E 584	E3 E3 E3 E3 E3 E3 E3 E3 E3 E3 E3 E3 E3 E	E 80 RE 73 E 62 RE 58 E 55 E 61 E 59 E 53 E 56 E 61	648 648 677 720 817 885 1,093 1,093 1,007 807 671 7,973	R 2,750 R 2,501 R 2,124 R 1,956 R 1,871 R 1,868 R 2,071 R 2,001 R 1,798 1,888 20,827
2011 10-Month Total 2010 10-Month Total	3,599 3,489	2,474 2,349	1,090 1,062	881 855	4,803 4,753	5,684 5,608	6,774 6,670	556 542	27 24	583 566	6,417 6,326	19,847 19,399

^a All commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Table 7.4c for CHP fuel use.
 ^b Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants.
 ^c All industrial gas to the table of the delivery of natural gas to consumers.
 ^e Natural gas used as fuel in the delivery of natural gas to consumers.
 ^f The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.
 ^g Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
 ^h Included in "Non-CHP."
 ⁱ For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector." See Note 7, "Natural Gas Consumption, 1989-1992," at end of section.
 ^R-Revised. E=Estimate. NA=Not available. (s)=Less than 500 million cubic feet. Notes:
 ^e Data are for natural gas, plus a small amount of supplemental gaseous fuels.

See Note 8, "Natural Gas Adjustments, 1993-2000," at end of section. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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)*, December 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 2903" (Clober 1999), Table 10, and "Alternatives to Traditional Transportation Fuels 2003" (February 2004), Table 10, and dividing by the natural gas end-use sectors 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, December 2012, Table 2. • Electric Power Sector: Table 7.4b.

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	Natural Gas in Underground Storage, End of Period Base Gas Working Gas Total [©]		e,	From Sa	Vorking Gas me Period us Year		Storage Activity	
	Base Gas	Working Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,c}
973 Total	2.864	2,034	4.898	305	17.6	1,533	1,974	-442
975 Total	3,162	2,212	5,374	162	7.9	1,760	2,104	-344
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	-00
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	4,320	2,730	6.906	-207	-7.6	2,373	2,598	174
00 Total				-207	-31.9	3,498		814
00 Total	4,352	1,719	6,071				2,684	
01 Total	4,301	2,904	7,204	1,185	68.9	2,309	3,464	-1,156
02 Total	4,340	2,375	6,715	-528	-18.2	3,138	2,670	468
03 Total	4,303	2,563	6,866	187	7.9	3,099	3,292	-193
04 Total	4,201	2,696	6,897	133	5.2	3,037	3,150	-113
05 Total	4,200	2,635	6,835	-61	-2.3	3,057	3,002	55
06 Total	4,211	3,070	7,281	435	16.5	2,493	2,924	-431
07 Total	4,234	2,879	7,113	-191	-6.2	3,325	3,133	192
08 Total	4,232	2,840	7,073	-39	-1.4	3,374	3,340	34
09 Total	4,277	3,130	7,407	290	10.2	2,966	3,315	-349
10 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
	4,294	3,851	8,156	41		52	407	
October					1.1			-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	^R 4,303	^R 2,306	^R 6,609	R 2	^R .1	^R 849	^R 50	799
February	^R 4,302	^R 1,722	^R 6,024	^R 39	^R 2.3	^R 666	^R 82	_ 584
March	^R 4,302	^R 1,577	^R 5,879	^R -75	^R -4.6	^R 314	^R 168	^R 146
April	^R 4,304	^R 1,788	^R 6,092	^R -223	^R -11.1	^R 100	^R 312	-212
May	^R 4,304	^R 2,187	^R 6.491	^R -233	-9.6	^R 58	^R 458	^R -399
June	^R 4.302	2.530	^R 6.831	-210	-7.7	^R 80	^R 421	-340
July	^R 4,300	^R 2,775	^R 7,075	^R -190	^R -6.4	^R 116	^R 359	-244
August	^R 4.300	^R 3,019	^R 7,319	^R -134	-4.2	^R 126	^R 370	-244
September	^R 4,301	3,416	^R 7,717	-92	-2.6	^R 55	^R 454	-398
October	^R 4.302	3.804	^R 8,106	^R -47	-1.2	^R 52	^R 437	-385
November	^R 4.300	3,843	^R 8,143	74	2.0	^R 184	R 221	^R -38
December	R 4,302	3,462	^R 7.764	351	11.3	R 474	R 90	R 383
Total	R 4,302	3,462	R 7,764	351	11.3	^R 3,074	^R 3,422	-348
	4,307	2,916	7 000	^R 610	^R 26.5	633	88	545
12 January	4,307 4,307	2,916	7,223 6,762	R 733	R 42.6	526	88 67	545 459
February				R 900				
March	4,325	2,477	6,802		R 57.1	217	256	-39
April	4,329	2,613	6,942	R 825	_46.1	144	282	-137
May	4,334	2,890	7,225	^R 704	R 32.2	92	375	-283
June	4,337	3,118	7,456	589	23.3	109	339	-230
July	4,339	3,246	7,585	^R 471	17.0	129	263	-134
August	4,348	3,409	7,757	R 390	12.9	134	302	-168
September	4,352	^R 3,693	^R 8,045	^R 278	^R 8.1	^R 67	^R 358	^R -291
October	4,365	3,930	8,295	126	3.3	99	340	-241
10-Month Total						2,150	2,670	-520
11 10-Month Total						2.417	3.110	-693

 ^a For total underground storage capacity at the end of each calendar year, see Note 4, "Natural Gas Storage," at end of section.
 ^b For 1980-2011, data differ from those shown on Table 4.1, which includes liquefied natural gas storage for that period.
 ^c Positive numbers indicate that withdrawals are greater than injections. Negative numbers indicate that injections are greater than withdrawals. Net withdrawals or injections may not equal the difference between applicable ending stocks. See Note 4, "Natural Gas Storage," at end of section. R=Revised.

R=Revised. Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#naturalgas for all available data beginning in 1973. Sources: • Storage Activity: 1973-1975–U.S. Energy Information Administration (EIA), Natural Gas Annual 1994, Volume 2, Table 9.

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, December 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-8, "Underground Gas Storage Report." 1996-2006—EIA, NGM, monthly issues. 2007 forward—EIA, NGM, December 2012, Table 8.

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 ^R 8,849
1986 8,145	1999 8,229	
1987 8,124	2000 8,241	
R=Revised	•	•

R=Revised

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 1980–2011 include both underground and liquefied natural gas (LNG) storage. Annual data on LNG additions and withdrawals are from Form EIA-176. Monthly data are estimated by computing the ratio of each month's underground storage additions and withdrawals to annual underground storage additions and withdrawals and applying the ratio to the annual LNG data.

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

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

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

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

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

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

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

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

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

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

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

5. Crude Oil and Natural Gas Resource Development



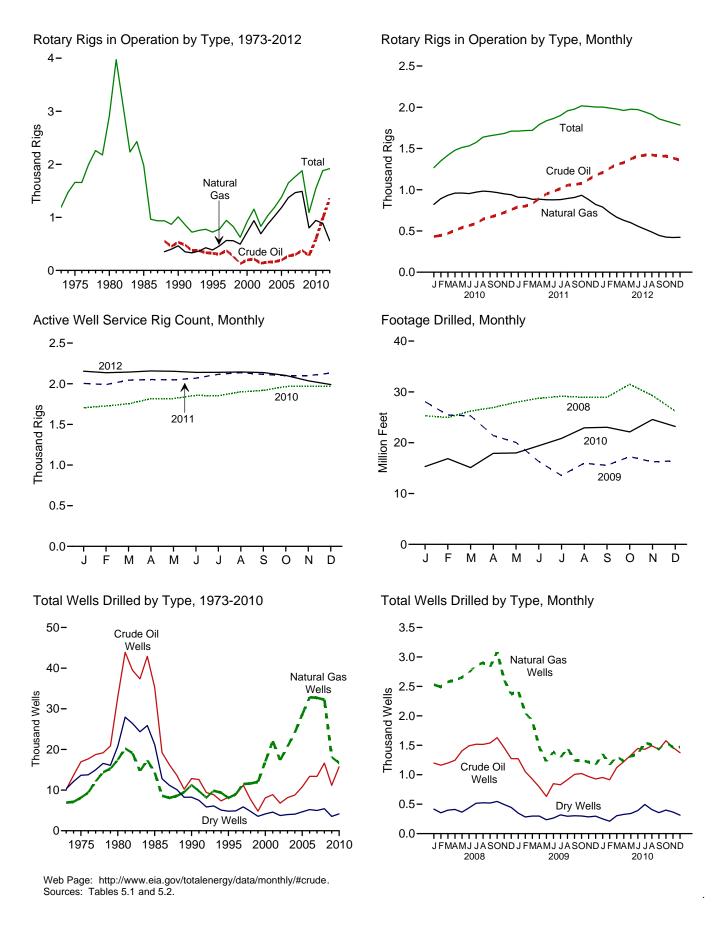


Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements (Number of Rigs)

		R	otary Rigs in Operation	n ^a		
	By	Site	By	Туре		Active Well Service
	Onshore	Offshore	Crude Oil	Natural Gas	Total ^b	Rig Count ^c
973 Average	1,110	84	NA	NA	1,194	2,008
975 Average	1.554	106	NA	NA	1,660	2,486
80 Average	2,678	231	NA	NA	2,909	4.089
85 Average	1,774	206	NA	NA	1,980	4,716
90 Average	902	108	532	464	1,010	3,658
	622	101	323	385	723	3.041
95 Average						
96 Average	671	108	306	464	779	3,445
97 Average	821	122	376	564	943	3,499
98 Average	703	123	264	560	827	3,014
99 Average	519	106	128	496	625	2,232
00 Average	778	140	197	720	918	2,692
01 Average	1,003	153	217	939	1,156	2,267
02 Average	717	113	137	691	830	1.830
03 Average	924	108	157	872	1,032	1,967
04 Average	1.095	97	165	1,025	1,192	2.064
05 Average	1,035	94	194	1,025	1.381	2,004
		94 90	274	1,164		2,222
06 Average	1,559				1,649	
07 Average	1,695	72	297	1,466	1,768	2,388
08 Average	1,814	65	379	1,491	1,879	2,515
09 Average	1,046	44	278	801	1,089	1,722
I 0 January	1,225	42	433	822	1,267	1,706
February	1,305	45	446	892	1,350	1,726
March	1.369	50	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
	1,558	15	591	971	1,573	1.852
July						
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	1,661	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
11 January	1.686	26	793	909	1,711	2.004
February	1,692	26	801	907	1,718	1,990
March	1,694	26	830	884	1,720	2.044
	1,762	20	896	885	1,720	2,044
April		20 32	090 948	878		2,052
May	1,804				1,836	
June	1,829	34	979	877	1,863	2,069
July	1,865	35	1,014	880	1,900	2,116
August	1,923	35	1,055	894	1,957	2,136
September	1,946	32	1,063	907	1,978	2,115
October	1,982	35	1,077	933	2,017	2,100
November	1,974	37	1,125	880	2.011	2,100
December	1,961	42	1,177	821	2,003	2,131
	1,846	32	984	887	2,003 1.879	2,131
Average			304		1,073	2,075
12 January	1,960	43	1,208	790	2,003	2,154
February	1,949	42	1,261	723	1,990	2,135
March	1,935	43	1,307	667	1,979	2,143
April	1,917	44	1,329	629	1,961	2,157
May	1.931	46	1,373	600	1,977	2,153
June	1.923	49	1.409	558	1,972	2,139
July	1,894	51	1,419	522	1,944	2,133
August	1,863	50	1,423	487	1,913	2,144
September	1,808	51	1,409	447	1,859	2,137
October	1,785	49	1,407	425	1,834	2,102
November	1,758	51	1,385	421	1,809	^R 2,036
December	1.733	51	1,358	423	1,784	1,990
Average	1,871	48	1,357	558	1,919	2,113
Avelage	1,071	40	1,007	330	1,313	2,113

^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.

R=Revised. NA=Not available. Note: Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#crude 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/rig_counts/rc_index.cfm. • Active Well Service Rig Count: Cameron International Corporation, Houston, TX. See http://www.c-a-m.com/Forms/Product.aspx?prodID=cdc209c4-79a3-47e5-99c2-fdeda6d4aad6. fdeda6d4aad6.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

						Wells I	Drilled						
		Explo	ratory			Develo	pment			То	tal		Total
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Footage Drilled
						Num	nber						Thousand Feet
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	156,044
1995 Total	570	558	2,024	3,152	7,678	7,524	2,790	17,992	8,248	8,082	4,814	21,144	117,156
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	491 327	562 566	2,113 1.590	3,166 2.483	10,715	10,936 11,073	3,761 3,171	25,412 21,599	11,206 7,682	11,498 11,639	5,874 4,761	28,578 24,082	161,249 137,202
1998 Total 1999 Total	327 197	500	1,590	2,403	7,355 4.608	11,457	2,393	18.458	4.805	12.027	3,550	24,082	102.861
2000 Total	288	657	1,341	2,286	7,802	16,394	2,393	27,001	4,805	17,051	4,146	20,382	144,425
2001 Total	357	1,052	1,733	3,142	8,531	21,020	2,865	32,416	8,888	22,072	4,598	35,558	180,141
2002 Total	258	844	1,282	2,384	6,517	16,498	2,472	25,487	6,775	17,342	3,754	27,871	145,159
2003 Total	350	997	1,297	2,644	7,779	19,725	2,685	30,189	8,129	20,722	3,982	32,833	177,239
2004 Total	383	1,671	1,350	3,404	8,406	22,515	2,732	33,653	8,789	24,186	4,082	37,057	204,279
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	240,307
2006 Total	646	2,456	1,547	4,649	12,739	30,382	3,659	46,780	13,385	32,838	5,206	51,429	282,675
2007 Total	808	2,794	1,582	5,184	12,563	29,925	3,399	45,887	13,371	32,719	4,981	51,071	301,515
2008 January	88	208	144	440	1,111	2,321	272	3,704	1,199	2,529	416	4,144	25,306
February	82	230	107	419	1,080	2,261	247	3,588	1,162	2,491	354	4,007	24,958
March	66	216	127	409	1,132	2,363	271	3,766	1,198	2,579	398	4,175	26,226
April May	68 88	189 206	130 124	387 418	1,177 1,317	2,415 2.449	281 240	3,873 4.006	1,245 1,405	2,604 2,655	411 364	4,260 4,424	26,920 27,947
June	63	195	139	397	1,428	2,449	299	4,000	1,403	2,035	438	4,664	28,739
July	79	163	171	413	1,420	2,695	344	4,207	1,518	2,858	515	4,891	29,140
August	67	165	144	376	1,448	2,735	379	4,562	1,515	2,900	523	4,938	28,942
September	52	166	164	382	1,488	2,667	355	4,510	1,540	2,833	519	4,892	28,960
October	80	243	173	496	1,549	2,841	373	4,763	1,629	3,084	546	5,259	31,505
November	97	192	160	449	1,361	2,418	334	4,113	1,458	2,610	494	4,562	29,276
December	67	172	132	371	1,206	2,196	313	3,715	1,273	2,368	445	4,086	26,222
Total	897	2,345	1,715	4,957	15,736	29,901	3,708	49,345	16,633	32,246	5,423	54,302	334,141
2009 January	80 62	171 125	99 88	350 275	1,192 991	2,253 1,925	250 195	3,695 3,111	1,272 1,053	2,424 2.050	349 283	4,045 3,386	28,077 25,440
February March	62 59	125	00 88	275	867	1,925	210	2.848	926	2,050	203 298	3,300	25,440 25,304
April	36	68	93	197	755	1,396	205	2,356	791	1,464	298	2,553	23,304
May	47	90	80	217	584	1,136	156	1,876	631	1,226	236	2,093	20,055
June	44	91	75	210	804	1.297	189	2.290	848	1.388	264	2,500	16.301
July	40	100	101	241	789	1,188	217	2,194	829	1,288	318	2,435	13,543
August	49	84	88	221	867	1,372	207	2,446	916	1,456	295	2,667	15,970
September	61	71	96	228	945	1,170	207	2,322	1,006	1,241	303	2,550	15,547
October	55	79	78	212	966	1,167	222	2,355	1,021	1,246	300	2,567	17,261
November	38	83	85	206	931	1,133	199	2,263	969	1,216	284	2,469	16,236
December Total	34 605	98 1,206	84 1,055	216 2,866	894 10,585	1,074 16,882	213 2,470	2,181 29,937	928 11,190	1,172 18,088	297 3,525	2,397 32,803	16,424 231,562
2010 January	55	. 91	81	227	898	1,264	169	2,331	953	1,355	250	2,558	15,304
February	44	71	67	182	871	1,096	144	2,331	915	1,355	211	2,330	16,862
March	59	85	88	232	1,062	1,224	216	2,502	1,121	1,309	304	2,734	15,102
April	49	78	77	204	1,173	1,152	249	2,574	1,222	1,230	326	2,778	17,904
May	48	107	86	241	1,282	1,208	255	2,745	1,330	1,315	341	2,986	17,987
June	61	100	90	251	1,385	1,250	302	2,937	1,446	1,350	392	3,188	19,408
July	46	103	105	254	1,386	1,443	390	3,219	1,432	1,546	495	3,473	20,847
August	56	104	94	254	1,434	1,402	314	3,150	1,490	1,506	408	3,404	22,923
September	57	73	88	218	1,374	1,358	268	3,000	1,431	1,431	356	3,218	23,037
October	75	87	117	279	1,502	1,463	283	3,248	1,577	1,550	400	3,527	22,123
November	62	114	103	279	1,400	1,352	263	3,015	1,462	1,466	366	3,294	24,561
December	57	92	70	219	1,317	1,379	243	2,939	1,374	1,471	313	3,158	23,189
Total	669	1,105	1,066	2,840	15,084	15,591	3,096	33,771	15,753	16,696	4,162	36,611	239,247

Notes: • Data are estimates. • 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 and dwell 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

 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.

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

Crude Oil and Natural Gas Resource Development

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

Prior to the March 1985 MER, drilling statistics consisted of

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

THIS PAGE INTENTIONALLY LEFT BLANK



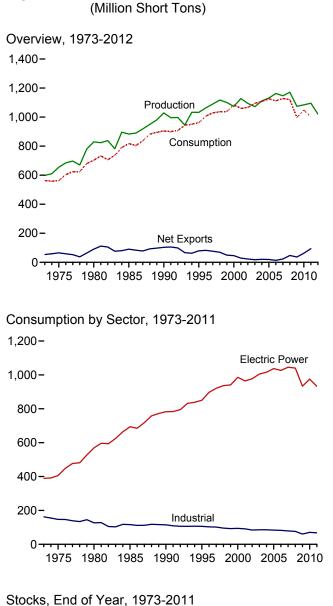
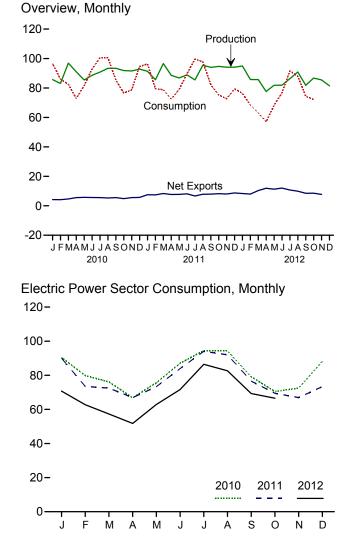
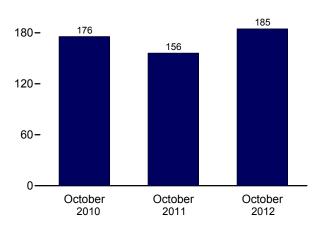


Figure 6.1

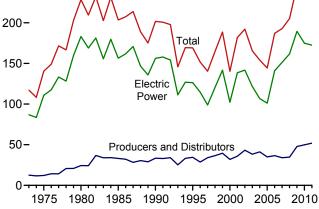
Coal



Electric Power Sector Stocks, End of Month 240-



250-



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

Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste Coal		Trade		Stock	Losses and Unaccounted	
	Production ^a	Suppliedb	Imports	Exports	Net Imports ^c	Change ^{d,e}	for ^f	Consumption
973 Total	598,568	NA	127	53,587	-53,460	402	-17,878	562,584
975 Total	654.641	NA	940	66,309	-65,369	32,154	-5,522	562,640
980 Total	829,700	NA	1,194	91,742	-90,548	25,595	10,827	702,730
985 Total	883,638	NA	1,952	92,680	-90,727	-27,934	2,796	818,049
990 Total	1.029.076	3.339	2.699	105.804	-103,104	26,542	-1,730	904.498
995 Total	1,032,974	8,561	9,473	88,547	-79,074	-275	632	962,104
996 Total	1,063,856	8,778	8,115	90,473	-82,357	-17,456	1,411	1,006,321
			7.487					
997 Total	1,089,932	8,096		83,545	-76,058	-11,253	3,678	1,029,544
998 Total	1,117,535	8,690	8,724	78,048	-69,324	24,228	-4,430	1,037,103
999 Total	1,100,431	8,683	9,089	58,476	-49,387	23,988	-2,906	1,038,647
000 Total	1,073,612	9,089	12,513	58,489	-45,976	-48,309	938	1,084,095
001 Total	1,127,689	10,085	19,787	48,666	-28,879	41,630	7,120	1,060,146
002 Total	1,094,283	9,052	16,875	39,601	-22,726	10,215	4,040	1,066,355
003 Total	1,071,753	10,016	25,044	43,014	-17,970	-26,659	-4,403	1,094,861
004 Total	1,112,099	11,299	27,280	47,998	-20,718	-11,462	6,887	1,107,255
005 Total	1,131,498	13,352	30,460	49,942	-19,482	-9,702	9,092	1,125,978
006 Total	1,162,750	14,409	36,246	49,647	-13,401	42,642	8,824	1,112,292
007 Total	1,146,635	14,076	36,347	59,163	-22,816	5,812	4.085	1,127,998
008 Total	1,171,809	14,146	34,208	81,519	-47,311	12,354	5,740	1,120,548
009 Total	1,074,923	13,666	22,639	59,097	-36,458	39,668	14,985	997,478
010 January	85,711	1,187	1.665	5.866	-4.202	-10.695	-3,103	96.494
February	83.087	908	1,005	5,386	-4,202	-7,306	1,154	86.001
March	96,904	1.192	1,239	6,554	-4,655	8.127	2.870	82.444
	90,904	1.071	1,899		-4,000	11,519	2,870	72,790
April				7,358				
May	85,401	1,138	1,475	7,220	-5,745	2,723	-3,500	81,570
June	88,621	1,219	1,771	7,387	-5,616	-9,407	647	92,983
July	90,795	1,273	1,390	6,928	-5,539	-15,499	1,446	100,582
August	93,350	1,261	1,702	7,001	-5,299	-8,766	-2,316	100,393
September	93,360	1,102	1,588	7,145	-5,556	5,111	-1,591	85,386
October	91.831	982	1,775	6.623	-4.849	11.463	-90	76.591
November	91,558	1.121	1,473	7,015	-5,542	8,878	-437	78,697
December	92,791	1,197	1,563	7,232	-5.669	-9.187	2.925	94,582
Total	1,084,368	13,651	19,353	81,716	-62,363	-13,039	182	1,048,514
011 January	91.355	1.182	1.014	8.509	-7.496	-11.679	418	96.303
February	85.575	1.046	843	8.275	-7.432	-3.306	2.917	79.577
March	96.548	1,126	1,524	9.832	-8.308	3.991	6.608	78,767
April	88,563	996	1,136	8.843	-7.706	8,966	390	72,497
May	86.850	990	1,130	9.042	-7,700	2.393	-1.461	79.098
	88.878	1.162	970	9,042	-8,132	-9.803	2.060	89.652
June								
July	85,498	1,202	1,208	7,865	-6,657	-15,788	-3,788	99,618
August	95,495	1,181	1,545	9,387	-7,843	-10,739	1,809	97,762
September	94,013	1,117	835	8,723	-7,888	5,015	-113	82,341
October	94,643	1,078	917	9,159	-8,242	13,552	-1,334	75,261
November	94,109	1,133	807	8,808	-8,001	11,911	2,623	72,707
December	94,101	1,076	976	9,713	-8,737	5,698	1,377	79,365
Total	1,095,628	13,209	13,088	107,259	-94,171	211	11,506	1,002,948
012 January	94,944	1,068	789	9,126	-8,337	2,835	8,471	76,368
February	85,763	891	534	8,460	-7,927	8,065	2,290	68,373
March	85,698	837	699	11,055	-10,356	9,722	3,389	63,068
April	77,624	^R 746	623	12,529	-11,905	^R 7,275	^R 2,190	^R 57,000
May	81.825	R 938	986	12,325	-11,271	R 479	R 2,835	^R 68,178
June	81,911	^R 905	719	12,749	-12,030	^R -5,264	^R -642	^R 76,692
	Record	^R 1.050				^R -14.940	^R -21	^R 91.626
July	^R 86,344		894	11,623	-10,729	R 7 040		
August	^R 90,839	^R 992	667	10,597	-9,930	^R -7,248	^R 1,170	^R 87,979
September	^R 81,846	^R 800	855	9,344	-8,489	^R 2,381	^R -2,617	^R 74,394
October	86,744	^{RF} 999	868	9,421	-8,554	^R 3,853	^R 3,155	^R 72,181
November	85,473	NA	^R 798	^R 8,516	^R -7,718	NA	NA	NA
December	81,440	NA	NA	NA	NA	NA	NA	NA
Total	1,020,451	NA	NA	NA	NA	NA	NA	NA
	.,							

^a Beginning in 2001, includes a small amount of refuse recovery (coal recaptured from a refuse mine and cleaned to reduce the concentration of noncombustible materials).
 ^b Waste coal (including fine coal, coal obtained from a refuse bank or slurry)

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

Waste coal (including intercoal, coal obtained from a reuse bain of sturry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."
^c Net imports equal imports minus exports. A minus sign indicates exports are revent them imports.

greater than imports. ^d For 1980-2007, excludes coal stocks in the residential and commercial

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

^f The difference between calculated coal supply and disposition, due to coal quantities lost or to data reporting problems. R=Revised. NA=Not available. F=Forecast. Notes: • For methodology used to calculate production, consumption, and stocks, see Note 1, "Coal Production," Note 2, "Coal Consumption," and Note 3, "Coal Stocks," at end of section. • Data include refined coal. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#coal for all available data beginning in 1973. Sources: See end of section.

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

					End-l	Jse Sector	5					
			Commerci	al			Industrial					
	Resi-				Coke	0	ther Industria	al		Trans-	Electric Power	
	dential	CHP ^a	Otherb	Total	Plants	CHPC	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1973 Total 1975 Total 1980 Total 1985 Total	4,113 2,823 1,355 1,711	(9) (9) (9)	7,004 6,587 5,097 6,068	7,004 6,587 5,097 6,068	94,101 83,598 66,657 41,056	(h) (h) (h) (h)	68,038 63,646 60,347 75,372	68,038 63,646 60,347 75,372	162,139 147,244 127,004 116,429	116 24 (^h)	389,212 405,962 569,274 693,841	562,584 562,640 702,730 818,049
1990 Total 1995 Total 1995 Total 1996 Total	1,345 755 721	(°) 1,191 1,419 1,660	4,189 3,633 3,625	5,000 5,052 5,285	38,877 33,011 31,706	() 27,781 29,363 29,434	48,549 43,693 42,254	76,330 73,055 71,689	115,207 106,067 103,395	(h) (h) (h)	782,567 850,230 896,921	904,498 962,104 1,006,321
1997 Total 1998 Total 1999 Total	711 534 585	1,738 1,443 1,490	4,015 2,879 2,803	5,752 4,322 4,293	30,203 28,189 28,108	29,853 28,553 27,763	41,661 38,887 36,975	71,515 67,439 64,738	101,718 95,628 92,846	(h) (h) (h)	921,364 936,619 940,922	1,029,544 1,037,103 1,038,647
2000 Total 2001 Total 2002 Total	454 481 533	1,547 1,448 1,405	2,126 2,441 2,506	3,673 3,888 3,912	28,939 26,075 23,656	28,031 25,755 26,232	37,177 39,514 34,515	65,208 65,268 60,747	94,147 91,344 84,403	(h) (h) (h)	985,821 964,433 977,507	1,084,095 1,060,146 1,066,355
2003 Total 2004 Total 2005 Total	551 512 378	1,816 1,917 1,922	1,869 2,693 2,420	3,685 4,610 4,342	24,248 23,670 23,434	24,846 26,613 25,875	36,415 35,582 34,465	61,261 62,195 60,340	85,509 85,865 83,774	(h) (h) (h) (h)	1,005,116 1,016,268 1,037,485	1,094,861 1,107,255 1,125,978
2006 Total 2007 Total 2008 Total 2009 Total	290 353 351 ^R 321	1,886 1,927 2,021 1,798	1,050 1,247 1,134 ^ℝ 1,091	2,936 3,173 3,155 ^R 2,889	22,957 22,715 22,070 15,326	25,262 22,537 21,902 19,766	34,210 34,078 32,491 25,549	59,472 56,615 54,393 45,314	82,429 79,331 76,463 60,641	([~]) (^h) (^h) (^h)	1,026,636 1,045,141 1,040,580 933,627	1,112,292 1,127,998 1,120,548 997,478
2010 January February	^R 39 ^R 34	193 167	^R 160 ^R 139	^R 353 ^R 306	1,472 1,584	2,094 1,978	2,084 2,215	4,178 4,193	5,650 5,777	(h) (h)	90,452 79,884	96,494 86,001
March April May	^R 30 ^R 19 ^R 19 ^R 22	149 117 118	^R 124 ^R 56 ^R 57 ^R 65	^R 274 ^R 173 ^R 175 ^R 199	1,801 1,786 1,794	2,124 2,220 2,010	2,106 1,749 1,975	4,230 3,969 3,985	6,030 5,755 5,779	(h) (h) (h) (h)	76,110 66,842 75,597	82,444 72,790 81,570
June July August September	R 21 R 23 R 20	135 142 152 133	^R 51 ^R 54 ^R 47	^R 199 ^R 192 ^R 206 ^R 180	1,772 1,783 1,814 1,894	1,898 2,122 2,194 1,941	2,061 1,944 1,909 2,174	3,959 4,066 4,103 4,115	5,732 5,849 5,917 6,010	(h) (h) (h)	87,030 94,519 94,247 79,176	92,983 100,582 100,393 85,386
October November December	^R 23 ^R 24 ^R 32	121 128 165	^R 88 ^R 93 ^R 119	^R 209 ^R 220 ^R 284	1,731 1,787 1,874	1,958 1,854 2,246	2,174 2,178 2,297 1,957	4,136 4,151 4,203	5,866 5,938 6,077	(h) (h) (h)	70,492 72,514 88,189	76,591 78,697 94,582
Total	R 308	1,720	R 1,053	^R 2,772	21,092	24,638	24,650	49,289	70,381	(^h)	975,052	1,048,514
2011 January February March April	^R 33 ^R 30 ^R 29 ^R 19	189 173 164 124	^R 143 ^R 131 ^R 124 ^R 68	^R 332 ^R 304 ^R 289 ^R 191	1,746 1,623 1,819 1,668	2,082 1,800 1,891 1,787	2,090 2,345 2,281 1,902	4,172 4,145 4,173 3,689	5,917 5,769 5,991 5,357	(h) (h) (h) (h) (h)	90,021 73,474 72,458 66,930	96,303 79,577 78,767 72,497
May June July August	^R 19 ^R 20 ^R 17 ^R 16	124 130 145 129	^R 68 ^R 71 ^R 31 ^R 28	^R 192 ^R 202 ^R 176 ^R 157	1,878 1,846 1,670 1,863	1,836 1,843 1,946 1,962	1,836 1,833 1,772 1,753	3,672 3,676 3,718 3,715	5,550 5,522 5,388 5,578	(h) (h) (h)	73,338 83,908 94,037 92,012	79,098 89,652 99,618 97,762
September October November	^R 15 ^R 16 ^R 17	122 110 117	^R 26 ^R 55 ^R 59	^R 148 ^R 165 ^R 177	1,874 1,784 1,772	1,788 1,748 1,712	1,947 2,088 2,110	3,735 3,836 3,822	5,609 5,621 5,594	(h) (h) (h) (h)	76,569 69,458 66,919	82,341 75,261 72,707
December Total	^R 21 ^R 251	139 1,668	^R 70 ^R 874	^R 209 ^R 2,541	1,891 21,434	1,923 22,319	1,962 23,919	3,885 46,238	5,776 67,671	(") (^h)	73,359 932,484	79,365 1,002,948
2012 January February March	^R 20 ^R 18 ^R 17	162 141 135	^R 69 ^R 64 ^R 62	^R 231 ^R 205 ^R 196	1,701 1,687 1,895	1,913 1,708 1,707	1,783 2,000 1,952	3,696 3,708 3,659	5,397 5,395 5,554	(h) (h) (h)	70,720 62,755 57,300	76,368 68,373 63,068
April May June	^R 11 ^R 11 ^R 11	115 121 114	^R 10 ^R 11 ^R 10	^R 125 ^R 132 ^R 124	^R 1,783 ^R 1,857 ^R 1,657	1,542 1,689 1,634	1,789 1,621 1,671	3,331 3,310 3,305	^R 5,113 ^R 5,167 ^R 4,962	(h) (h) (h)	51,751 62,868 71,595	^R 57,000 ^R 68,178 ^R 76,692
July August September October	^R 10 ^R 11 ^R 10 ^F 17	118 126 116 115	^R 1 ^R 1 ^R 1 ^F 81	^R 119 ^R 127 ^R 117 ^F 195	^R 1,676 ^R 1,816 ^R 1,552 ^F 1,928	1,773 1,827 1,613 1,796	^R 1,619 ^R 1,555 ^R 1,781 ^F 1,680	^R 3,392 ^R 3,382 ^R 3,394 ^F 3,476	^R 5,068 ^R 5,198 ^R 4,946 ^F 5,404	(h) (h) (h) (h)	86,429 82,643 69,321 66,565	^R 91,626 ^R 87,979 ^R 74,394 72,181
10-Month Total	E 137	1,263	E 308	E 1,571	E 17,551	17,200	E 17,451	E 34,652	E 52,203	(^h)	681,948	735,858
2011 10-Month Total 2010 10-Month Total	213 252	1,411 1,427	745 841	2,156 2,268	17,771 17,431	18,683 20,539	19,848 20,396	38,531 40,934	56,301 58,366	(h) (h)	792,206 814,349	850,877 875,235

^a Commercial combined-heat-and-power (CHP) and a small number of commercial electricity-only plants, such as those at hospitals and universities. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of

See Note, "Classification of Power Plants Into Energy-Use Sectors," at enu or Section 7. ^b All commercial sector fuel use other than that in "Commercial CHP." ^c Industrial combined-heat-and-power (CHP) and a small number of industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7. ^d All industrial sector fuel use other than that in "Coke Plants" and "Industrial CHP." ^e The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. ^f Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers.

⁹ Included in "Commercial Other."
 ^h Included in "Industrial Non-CHP."
 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 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				
	12,108 233 24,379 NA		Industrial			Electric		
			Coke Plants	Othera	Total	Total	Power Sector ^{b,c}	Total
973 Year	12.530	290	6,998	10,370	17,368	17,658	86,967	117,155
975 Year			8,797	8,529	17,326	17,559	110,724	140,391
980 Year			9,067	11,951	21,018	21,018	183,010	228,40
985 Year	33,133	NA	3,420	10,438	13,857	13,857	156,376	203,367
990 Year	33,418	NA	3,329	8,716	12,044	12,044	156,166	201,62
995 Year	34.444	NA	2.632	5,702	8.334	8.334	126.304	169.08
996 Year	28,648	NA	2,667	5,688	8,355	8,355	114,623	151,62
997 Year	33.973	NA	1.978	5.597	7.576	7.576	98.826	140.37
998 Year	36,530	NA	2,026	5,545	7,571	7,571	120,501	164,60
999 Year	39,475	NA	1,943	5,569	7,511	7,511	° 141,604	188,59
000 Year	31,905	NA	1,494	4,587	6,081	6,081	102,296	140,28
001 Year	35,900	NA	1,510	6,006	7,516	7,516	138,496	181,91
002 Year	43,257	NA	1,364	5,792	7,156	7,156	141,714	192,12
003 Year	38,277	NA	905	4.718	5,623	5,623	121.567	165,46
004 Year	41,151	NA	1,344	4.842	6,186	6,186	106,669	154,00
005 Year	34,971	NA	2.615	5,582	8,196	8,196	101,137	144.30
006 Year	36,548	NA	2,928	6.506	9,434	9,434	140.964	186.94
007 Year	33,977	NA	1,936	5,624	9,434 7,560	7,560	151,221	192,75
007 Tear	34.688	498	2.331	6.007	8.338	8,836	161,589	205.11
009 Year	47,718	529	1,957	5,109	7,066	7,595	189,467	244,780
	,	020	1,001	0,100	.,	1,000	,	,
010 January	48,854	510	1,832	4,798	6,630	7,140	178,091	234,08
February	49,069	490	1,708	4,486	6,194	6,684	171,026	226,779
March	50,936	471	1,583	4,175	5,758	6,229	177,742	234,900
April	50,761	482	1,715	4,207	5,922	6,404	189,260	246,42
May	50,900	494	1,846	4,239	6,086	6,579	191,669	249,14
June	51,497	505	1,978	4,272	6,250	6,755	181,490	239,74
July	47,935	509	1,948	4,345	6,294	6,803	169,504	224,24
August	48,638	513	1,918	4,419	6,337	6,851	159,987	215,47
September	49,913	517	1,889	4,492	6,381	6,899	163,776	220,587
October	49,430	529	1,901	4,503	6,404	6,933	175,686	232,050
November	50,571	541	1,913	4,514	6,428	6,968	183,389	240,928
December	49,820	552	1,925	4,525	6,451	7,003	174,917	231,740
011 January	48,709	536	1.937	4.305	6,241	6.777	164,575	220,06 ⁻
February	49.140	520	1,948	4.084	6.032	6,552	161,064	216,75
March	48,165	503	1,959	3,864	5,823	6,326	166,255	220,740
April	49.852	505	1,958	3,969	5,927	6,433	173,427	229.712
May	51,473	508	1,957	4,075	6,032	6,539	174,093	232,10
June	50,507	510	1,956	4,181	6,136	6,646	165,149	222,302
July	52,420	513	2.082	4,101	6,285	6,798	147,296	206,514
August	50,287	515	2,002	4,205	6,446	6,961	138,527	195,77
September	49.909	518	2,405	4,223	6.652	7.170	143,711	200.79
October	50,810	546	2,403	4,247	6,790	7,336	156,196	200,79
November	50,997	575	2,541	4,386	6,927	7,502	167,754	214,342
December	51,897	603	2,610	4,380 4,455	7,065	7,502 7,668	172,387	220,253
	,		,			,		
12 January	F 48,424	587	2,507	4,238	6,745	7,332	179,030	234,78
February	^F 49,954	572	2,403	4,021	6,425	6,997	185,901	242,852
March	^F 51,458	557	2,300	3,804	_ 6,105	_ 6,661	194,455	252,574
April	^F 51,705	566	^R 2,299	3,911	^R 6,210	^R 6,776	201,368	R 259,849
May	^F 51,253	575	^R 2,297	4,018	^R 6,315	^R 6,891	202,184	R 260,328
June	^F 51,007	_ 585	^R 2,295	_ 4,125	^R 6,420	^R 7,005	197,052	R 255,064
July	F 49,859	R 589	^R 2,329	^R 4,228	^R 6,557	^R 7,146	183,119	^R 240,124
August	^F 48,343	^R 592	^R 2,363	^R 4,332	^R 6,694	^R 7,287	177,246	^R 232,875
September	^F 47,181	^R 596	^R 2,396	^R 4,435	^R 6,831	^R 7,427	180,648	^R 235,256
October	F 46,885	F 597	F 2,383	F 4,583	F 6,966	F 7,562	184,661	239,109

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

^D The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.
^C Through 1998, data are for stocks at electric utilities only. Beginning in 1999,

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

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

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

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

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

Sources: See end of section.

Coal

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 6.1 Sources

Production

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

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

Waste Coal Supplied

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

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

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

2004–2007: EIA, Form EIA-906, "Power Plant Report,"

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

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

Imports and Exports

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

Stock Change

Calculated from data in Table 6.3. (The 1973 stock change value is calculated using the 1972 total stocks value of 116,753 thousand short tons from EIA, *Annual Energy Review 2011*, Table 7.6. The 1972 stocks value excludes stocks at producers and distributors.)

Losses and Unaccounted for

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

Consumption

Table 6.2.

Table 6.2 Sources

Residential and Commercial Total

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

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

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

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

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

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

Commercial CHP

Table 7.4c.

Commercial Other

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

Industrial Coke Plants

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

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

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

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

Other Industrial Total

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

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

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

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

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

Other Industrial CHP

Table 7.4c.

Other Industrial Non-CHP

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

Transportation

1973–1976: DOI, BOM, Minerals Yearbook.

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

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

Electric Power

Table 7.4b.

Table 6.3 Sources

Producers and Distributors

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

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

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

Residential and Commercial

1973–1976: DOI, BOM, Minerals Yearbook.

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

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

Industrial Coke Plants

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

October 1977–1980: EIA, Form EIA-5/5A, "Coke and Coal

Chemicals-Monthly/Annual."

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

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

Industrial Other

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

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

1998–2007: EIA, Form EIA-3, "Quarterly Coal Consumption Report—Manufacturing Plants."

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

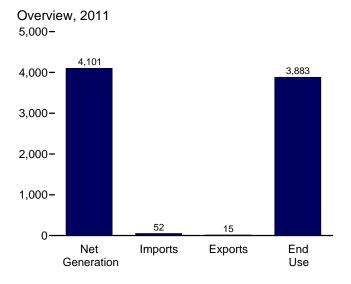
Electric Power

Table 7.5.

THIS PAGE INTENTIONALLY LEFT BLANK

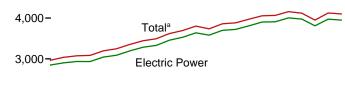


Figure 7.1 Electricity Overview (Billion Kilowatthours)



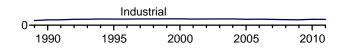
Net Generation by Sector, 1989-2011

5,000-



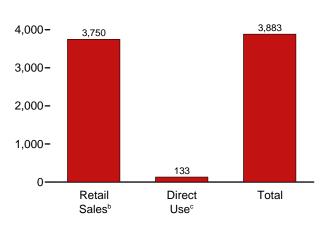
2,000-

1,000-



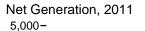


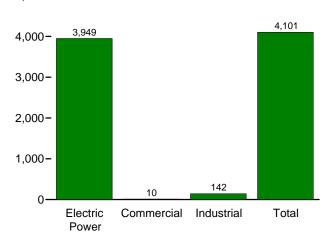




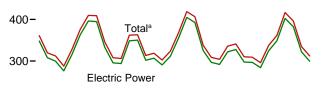
^a Includes commercial sector.

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



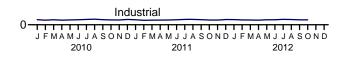


Net Generation by Sector, Monthly 500-

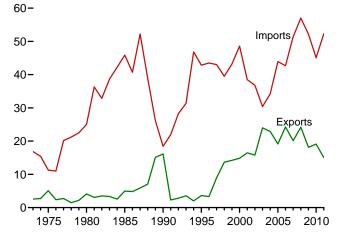


200-

100-



Trade, 1973-2011



° See "Direct Use" in Glossary.

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

Electricity Overview Table 7.1

(Billion Kilowatthours)

		Net Gen	eration			Trade				End Use	
	Electric Power Sector ^a	Com- mercial Sector ^b	Indus- trial Sector ^c	Total	Imports ^d	Exports ^d	Net Imports ^d	T&D Losses ^e and Unaccounted for ^f	Retail Sales ^g	Direct Use ^h	Total
1973 Total	1.861	NA	3	1.864	17	3	14	165	1,713	NA	1,713
1975 Total	1,918	NA	3	1,921	11	5	6	180	1,747	NA	1,747
1980 Total	2,286	NA	3	2.290	25	4	21	216	2.094	NA	2.094
1095 Total	2,200	NA	3	2,250	46	5	41	190	2,034	NA	2,034
1985 Total	2,470	NA 6	131	2,473	40	5 16	41	203		125	2,324 2,837
1990 Total		8			43	4	39	203	2,713		3,164
1995 Total	3,194	8	151	3,353					3,013	151	
1996 Total	3,284		151	3,444	43	3	40	231	3,101	153	3,254
1997 Total	3,329	9	154	3,492	43	9	34	224	3,146	156	3,302
1998 Total	3,457	9	154	3,620	40	14	26	221	3,264	161	3,425
1999 Total	3,530	9	156	3,695	43	14	29	240	3,312	172	3,484
2000 Total	3,638	8	157	3,802	49	15	34	244	3,421	171	3,592
2001 Total	3,580	7	149	3,737	39	16	22	202	3,394	163	3,557
2002 Total	3,698	7	153	3,858	37	16	21	248	3,465	166	3,632
2003 Total	3,721	7	155	3,883	30	24	6	228	3,494	168	3,662
2004 Total	3,808	8	154	3,971	34	23	11	266	3,547	168	3,716
2005 Total	3,902	8	145	4,055	44	19	25	269	3,661	150	3,811
2006 Total	3,908	8	148	4,065	43	24	18	266	3,670	147	3,817
2007 Total	4,005	8	143	4,157	51	20	31	298	3,765	126	3,890
2008 Total	3,974	8	137	4,119	57	24	33	287	3,733	132	3,865
2009 Total	3,810	8	132	3,950	52	18	34	261	3,597	127	3,724
2010 January	348	1	12	361	5	1	4	22	332	E 11	343
February	308	1	11	320	4	1	3	15	298	E 10	309
March	300	1	12	312	4	1	3	12	293	E 11	303
April	276	1	11	288	4	1	3	13	267	E 10	277
May	316	1	12	328	3	2	1	35	284	E 11	294
June	363	1	12	376	4	2	2	36	331	E 11	342
July	396	1	13	410	4	1	3	32	369	E 12	381
August	395	1	13	409	4	2	2	27	372	E 12	384
September	333	1	12	346	3	2	1	8	328	E 11	339
October	296	1	12	308	3	2	(s)	10	288	E 11	298
November	294	1	11	306	3	2	ì	21	275	E 11	285
December	349	1	13	362	4	1	3	34	319	^E 12	331
Total		9	144	4,125	45	19	26	265	3,754	132	3,886
2011 January	350	1	12	363	4	2	3	20	334	E 11	345
February	302	1	11	313	4	2	2	9	297	E 10	307
March	307	1	11	319	4	2	2	19	292	E 10	302
April	291	1	11	302	4	2	2	19	275	E 10	286
May	311	1	11	324	5	1	4	29	288	E 11	299
June	355	1	12	368	4	1	3	31	329	E 11	340
July	405	1	13	419	6	1	5	41	371	E 12	383
August	392	1	13	407	6	1	5	26	373	E 12	385
September		1	12	338	4	1	3	4	326	E 11	337
October		1	11	309	4	1	3	13	288	E 11	299
November		1	12	304	3	1	2	20	275	E 11	286
December		1	13	336	4	1	3	26	302	E 12	314
Total	3,949	10	142	4,101	52	15	37	255	3,750	133	3,883
2012 January	328	1	12	341	4	1	3	22	311	^E 12	323
February	298	1	12	310	4	1	3	16	286	E 11	297
March	297	1	11	309	4	1	3	19	283	E 11	293
April	284	1	11	296	5	1	4	19	270	E 10	281
May	325	1	12	338	5	1	4	35	295	E 11	307
June	349	1	12	362	5	1	4	30	324	E 11	336
July	403	1	13	417	7	1	6	40	370	E 12	382
August		1	13	396	6	1	5	26	364	^E 12	376
September		1	12	335	5	1	4	10	318	⊑ 11	329
October	299	1	12	312	4	1	4	15	290	E 11	301
10-Month Total	3,286	9	120	3,415	50	10	40	230	3,112	^E 113	3,225
2011 10-Month Total	3.335	8	118	3.461	45	13	32	209	3.173	^E 110	3.283
2010 10-Month Total	3,330	7	120	3,457	38	16	23	209	3,161	E 110	3,203

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

Commercial contained the contained to the co

^e Electricity information decision
 ^e Transmission and distribution losses (electricity losses that occur between the point of generation and delivery to the customer). See Note 2, "Electrical System Energy Losses," at end of Section 2.
 ^f Data collection frame differences and nonsampling error.

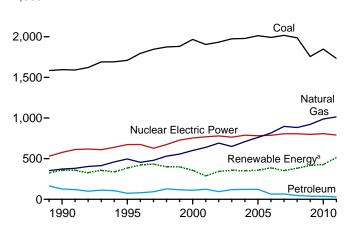
^g Electricity retail sales to ultimate customers by electric utilities and, beginning

⁹ Electricity retail sales to ultimate customers by electric utilities and, beginning in 1996, other energy service providers. ^h Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use. E=Estimate. NA=Not available. (s)=Less than 0.5 billion kilowatthours. Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See end of section.

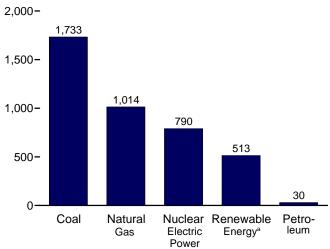
Sources: See end of section.

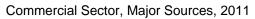
Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

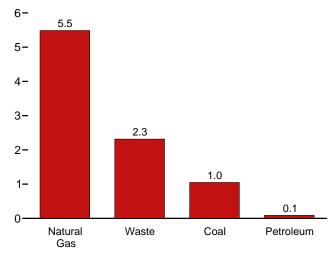
Total (All Sectors), Major Sources, 1989-2011 2,500-



Total (All Sectors), Major Sources, 2011



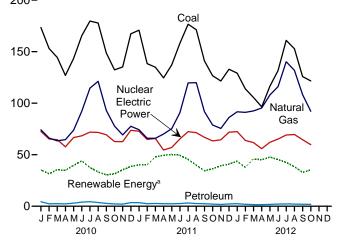




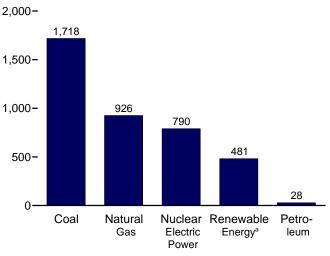
^a Conventional hydroelectric power, wood, waste, geothermal, solar/PV, and wind.

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

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



Electric Power Sector, Major Sources, 2011



Industrial Sector, Major Sources, 2011

81.9 80-60-40-26.7 20-14.5 8.6 1.9 1.8 0 Wood Coal Petroleum Natural Other Hydro-Gases ^b Gas electric Power^c

° Conventional hydroelectric power.

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

100 -

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

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

		Fossil	Fuels						Renewab	le Energy			
						Hvdro-	Conven- tional	Bior	nass				
	Coala	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	electric Pumped Storage ^e	Hydro- electric Power ^f	Wood ^g	Wasteh	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total 1975 Total 1980 Total	847,651 852,786 1,161,562	314,343 289,095 245,994	340,858 299,778 346,240	NA NA NA	83,479 172,505 251,116	(f) (f) (f)	275,431 303,153 279,182	130 18 275	198 174 158	1,966 3,246 5,073	NA NA NA	NA NA NA	1,864,057 1,920,755 2,289,600
1985 Total	1,402,128	100,202	291,946	NA	383,691	(†)	284,311	743	640	9,325	11	6	2,473,002
1990 Total ^k 1995 Total		126,460 74,554	372,765 496,058	10,383 13,870	576,862 673,402	-3,508 -2,725	292,866 310,833	32,522 36.521	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	20,911	14,329	521	3,234	3,444,188
1997 Total	1,845,016 1.873.516	92,555 128,800	479,399 531,257	13,351 13,492	628,644 673,702	-4,040 -4.467	356,453 323.336	36,948 36,338	21,709 22.448	14,726 14,774	511 502	3,288 3.026	3,492,172 3.620.295
1998 Total 1999 Total		118,061	556,396	14.126	728,254	-4,467 -6.097	323,330	30,330	22,440	14,774	502 495	3,026 4,488	3,620,295
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	1,903,956	124,880 94,567	639,129 691.006	9,039 11.463	768,826	-8,823 -8,743	216,961 264.329	35,200 38.665	14,548 15.044	13,741	543 555	6,737 10.354	3,736,644 3.858.452
2002 Total 2003 Total	1,933,130 1.973.737	94,567 119.406	649.908	15.600	780,064 763,733	-8,743	264,329	36,665	15,044	14,491 14.424	535	11,354	3,853,452
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 2006 Total	2,012,873 1.990.511	122,225 64.166	760,960 816,441	13,464 14.177	781,986 787,219	-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 4.064.702
2006 Total	2.016.456	65.739	896,590	13,453	806,425	-6,556	269,246	39.014	16,099	14,500	612	26,569	4,064,702
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 April	144,406 126,952	2,470 2,286	63,431 64,644	1,010 943	64,635 57,611	-325 -335	20,886 19,097	3,090 2,932	1,592 1,558	1,307 1,240	76 112	8,589 9,764	312,168 287,800
May	143,272	2,994	73,665	1,017	66,658	-441	25,079	2,893	1,577	1,311	153	8,698	327,936
June	165,491	3,989	92,268	964	68,301	-472	29,854	3,094	1,627	1,264	176	8,049	375,759
July August	179,600 177,745	4,411 3,575	114,624 121,151	963 1,061	71,913 71,574	-557 -600	24,517 20,119	3,308 3,319	1,640 1,642	1,274 1,297	161 156	6,724 6,686	409,725 408,884
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 December	135,185 167,258	2,079 3,523	69,227 77,573	907 952	62,655 73,683	-467 -530	19,562 23,169	3,080 3,275	1,625 1,650	1,252 1,330	77 44	9,748 9.059	306,010 362,119
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	170,803	3,457	74,254	930	72,743	-426	25,531	3,290	1,515	1,351	40	8,550	363,105
February	138,311	2,434	65,924	807	64,789	-247	24,131	2,937	1,427	1,219	85	10,452	313,293
March April	134,845 124,488	2,692 2,424	65,947 70,029	945 918	65,662 54,547	-349 -466	31,134 31,194	3,081 2,798	1,565 1,503	1,342 1,243	122 164	10,545 12,422	318,710 302,400
May	137,102	2,378	75,243	875	57,013	-418	32,587	2,794	1,563	1,322	191	11,772	323,627
June	158,055	2,594	90,691	1,013	65,270	-567	32,151	3,230	1,632	1,218	223	10,985	367,727
July August	176,586 171,281	3,154 2,594	119,624 119,856	1,098 1,087	72,345 71,339	-708 -663	31,285 25,764	3,362 3,384	1,690 1,692	1,273 1,279	191 229	7,489 7,474	418,693 406,541
September	140,941	2,424	91,739	1,004	66,849	-553	21,378	3,178	1,589	1,229	186	6,869	337,961
October	126,627	2,062	78,819	941	63,337	-572	19,787	2,954	1,631	1,285	159	10,525	308,727
November December	121,463 132.929	1,783 2,186	75,441 86.122	943 1.005	64,474 71.837	-441 -496	20,681 23,732	3,088 3,353	1,684 1,731	1,275 1,329	107 121	12,439 10,656	304,119 335,753
Total	1,733,430	30,182	1,013,689	11,566	790,204	-5,905	319,355	37,449	19,222	15,364	1,818	120,177	4,100,656
2012 January	129,115	2,444	91,641	980	72,381	-330	23,359	3,366	1,629	1,415	86	13,806	340,919
February	113,908	1,926	91,091	1,005	63,847	-226	20,361	3,126	1,537	1,339	137	11,164	310,151
March	105,546 96,466	1,561 1,564	92,503 95,346	1,010 980	61,729 55,871	-268 -242	25,770 26,136	2,938 2,666	1,663 1,668	1,413 1,335	249 346	13,897 12,812	309,040 295,940
April May	96,466 116,345	1,564	95,346 107,927	980 969	55,871 62,081	-242 -343	26,136	2,666	1,668	1,335	346 511	12,812	295,940 337,530
June	131,569	2,056	116,015	945	65,140	-475	26,611	3,060	1,687	1,380	561	11,944	361,506
July	160,938	2,288	140,202	968 1.024	69,129 69.602	-587 -496	26,758	3,296	1,769 1,676	1,421 1,388	522 464	8,724	416,515
August September	152,743 125,767	2,072 1,864	131,828 108,206	1,024	69,602 64,511	-496 -401	23,146 17,562	3,311 3,143	1,676	1,388	464 462	8,287 8,680	396,108 334,735
October	121,587	1,861	92,141	820	59,743	-351	16,207	3,073	1,660	1,413	431	12,514	312,157
10-Month Total	1,253,981	19,364	1,066,899	9,595	644,035	-3,718	234,453	30,975	16,630	13,903	3,770	114,401	3,414,602
2011 10-Month Total 2010 10-Month Total	1,479,039 1,544,847	26,214 31,458	852,126 840,897	9,618 9,454	653,893 670,630	-4,968 -4,504	274,942 217,472	31,008 30,816	15,806 15,642	12,760 12,637	1,590 1,091	97,082 75,845	3,460,784 3,456,931

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

 ^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.
 ^b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
 ^c Natural gas, plus a small amount of supplemental gaseous fuels.
 ^d Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^e Pumped storage facility production minus energy used for pumping.
 ^f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."
 ^g Wood and wood-derived fuels.
 ^h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). tire-derived fuels).

ⁱ Solar thermal and photovoltaic (PV) energy. ^j Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). ^k Through 1988 all data except hydroplectric for for clottic utilities

(municipal solid waste from non-biogenic sources, and tire-derived fuels).
 ^k Through 1988, all data except hydroelectric are for electric utilities only; hydroelectric data through 1988 include industrial plants as well as electric utilities. Beginning in 1989, data are for electric utilities, independent power producers, commercial plants, and industrial plants.
 NA=Not available.
 Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973.
 Sources: See sources for Tables 7.2b and 7.2c.

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

	Fossil Fuels												
						Uberdana	Conven-	Bior	nass				
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	tional Hydro- electric Power ^f	Wood ^g	Wasteh	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total 1975 Total 1980 Total 1985 Total	847,651 852,786 1,161,562 1,402,128	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)	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 6	1,860,710 1,917,649 2,286,439 2,469,841
1990 Totalk 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2003 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total 2007 Total 2005 Total 2006 Total 2007 Total 2008 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 1,952,714 1,952,714 1,952,714 1,969,737 1,998,390	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	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	576,862 673,402 674,729 628,644 673,702 728,254 753,893 768,826 780,064 780,064 787,219 806,425 806,208	-3,508 -2,725 -3,088 -4,040 -4,467 -6,097 -5,539 -8,823 -8,743 -8,535 -8,482 -8,558 -6,558 -6,558 -6,896 -6,288	289,753 305,410 341,159 350,648 317,867 314,663 271,338 213,749 260,491 271,512 265,064 265,064 267,040 286,254 245,843 253,096	7,032 7,597 8,386 8,680 8,608 8,961 8,916 8,294 9,009 9,528 9,736 10,570 10,341 10,711 10,638	11,500 17,986 17,816 18,485 19,233 20,307 12,944 13,145 13,808 13,062 13,031 13,927 14,294 15,379	15,434 13,378 14,329 14,726 14,774 14,827 14,093 13,741 14,491 14,424 14,811 14,692 14,568 14,637 14,840	367 497 521 502 495 543 555 534 575 550 508 612 864	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	2,901,322 3,194,230 3,284,141 3,329,375 3,457,416 3,529,982 3,580,053 3,698,458 3,721,159 3,808,360 3,902,192 3,908,077 4,005,343 3,974,349
2009 Total 2010 January February March April May June July August September October November December Total	1,741,123 171,660 151,461 142,665 125,615 141,669 163,912 177,778 175,848 147,157 130,663 133,815 165,494 1,827,738	35,811 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	841,006 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	3,058 275 247 275 273 279 265 267 249 240 170 219 208 2,967	798,855 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	-4,627 -565 -351 -325 -335 -335 -335 -441 -472 -557 -600 -421 -438 -467 -530 -5,501	271,506 22,207 20,421 20,691 18,898 24,903 29,711 24,405 20,019 17,188 17,561 19,426 23,024 258,455	10,738 1,011 926 939 837 830 955 1,061 1,074 974 887 934 1,018 11,446	15,954 1,294 1,307 1,334 1,359 1,409 1,413 1,364 1,330 1,412 1,443 16,376	15,009 1,312 1,159 1,307 1,240 1,311 1,264 1,277 1,253 1,225 1,225 1,330 15,219	891 10 33 76 112 153 175 161 156 137 75 76 43 43 1,206	73,886 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	3,809,837 348,128 307,994 299,571 276,121 315,656 362,985 396,195 394,651 333,057 295,646 293,833 348,549 3,972,386
2011 January February April May June July September October December December December Decamber	169,390 137,082 133,584 123,272 135,820 156,716 175,129 169,798 139,648 125,442 120,323 131,686 1,717,891	3,229 2,255 2,526 2,257 2,218 2,438 3,006 2,449 2,272 1,894 1,632 2,025 28,202	66,932 59,380 59,362 63,257 68,175 83,426 111,502 111,540 84,300 71,962 68,262 78,193 926,290	243 207 252 244 259 262 264 252 240 252 240 247 247 2,939	72,743 64,789 65,662 54,547 57,013 65,270 72,345 71,339 66,849 63,337 64,474 71,837 790,204	-426 -247 -349 -466 -418 -567 -708 -663 -553 -553 -572 -441 -496 -5,905	25,386 23,970 30,945 31,008 32,386 31,999 31,173 25,666 21,254 19,666 20,533 23,552 317,531	981 886 897 705 760 936 1,048 1,038 916 807 800 959 10,733	1,247 1,180 1,299 1,251 1,296 1,365 1,413 1,407 1,319 1,354 1,403 1,455 15,989	1,351 1,219 1,342 1,243 1,223 1,218 1,273 1,279 1,229 1,285 1,275 1,329 15,364	37 81 116 155 181 210 181 218 177 151 103 117 1,727	8,547 10,448 10,540 12,417 10,981 7,486 7,471 6,865 10,519 12,431 10,649 120,121	350,234 301,798 306,808 290,519 311,401 354,929 404,802 392,471 325,143 296,704 291,657 322,237 3,948,701
2012 January February March June July August September October 10-Month Total	127,857 112,775 104,379 95,403 115,212 130,371 159,516 151,372 124,585 120,392 1,241,862	2,144 1,727 1,358 1,344 1,541 1,842 2,071 1,813 1,626 1,635 17,102	83,819 83,629 85,311 88,356 100,212 108,256 131,757 123,795 100,681 84,574 990,390	237 233 241 234 226 228 237 244 225 206 2,311	72,381 63,847 61,729 55,871 65,140 69,129 69,602 64,511 59,743 644,035	-330 -226 -268 -242 -343 -475 -587 -496 -401 -351 -351	23,181 20,201 25,580 25,973 26,476 26,646 23,045 17,467 16,097 233,022	952 879 830 642 802 869 989 1,016 892 829 8,701	1,349 1,264 1,394 1,426 1,414 1,467 1,379 1,348 1,360 13,796	1,415 1,339 1,413 1,335 1,422 1,380 1,421 1,388 1,377 1,413 13,903	83 132 240 334 493 544 506 451 447 417 3,646	13,798 11,157 13,888 12,804 12,565 11,936 8,719 8,282 8,675 12,507 114,330	327,525 297,543 296,736 284,075 324,644 348,626 402,532 382,523 322,061 299,443 3,285,708
2011 10-Month Total 2010 10-Month Total	1,465,882 1,528,429	24,545 29,497	779,835 769,209	2,465 2,541	653,893 670,630	-4,968 -4,504	273,446 216,005	8,974 9,494	13,131 13,521	12,760 12,637	1,508 1,086	97,040 75,833	3,334,808 3,330,004

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

^a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.
 ^b Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
 ^c Natural gas, plus a small amount of supplemental gaseous fuels.
 ^d Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^e Pumped storage facility production minus energy used for pumping.
 ^f Through 1989, hydroelectric pumped storage is included in "Conventional Hydroelectric Power."
 ^g Wood and wood-derived fuels.
 ^h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

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

for electric utilites and independent power producers. NA=Not available. Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See end of section.

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors

		Com	mercial Se	ector ^a	Industrial Sector ^b								
				Biomass						Hydro-	Biomass		
	Coalc	Petro- leum ^d	Natural Gas ^e	Waste ^f	Totalg	Coalc	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	electric Power ⁱ	Wood ^j	Waste ^f	Total ^k
1973 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,347	NA	NA	3,347
1975 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,106	NA	NA	3,106
1980 Total	NA	NA	NA	NA	NA	NA	NA	NA	NA	3,161	NA	NA	3,161
1985 Total	NA	NA	NA	NA	NA F 927	NA 21 107	NA 7 009	NA 60.007	NA	3,161	NA	NA 949	3,161
1990 Total 1995 Total	796 998	589 379	3,272 5,162	812 1,519	5,837 8,232	21,107 22,372	7,008 6,030	60,007 71,717	9,641 11,943	2,975 5,304	25,379 28,868	949 900	130,830 151,025
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	1,097	432	4,262	1,985	7,903	22,056	5,597	78,798	11,927	4,135	28,652	839	156,673
2001 Total	995 992	438 431	4,434 4.310	1,007 1.053	7,416 7.415	20,135 21.525	5,293 4.403	79,755 79.013	8,454 9,493	3,145 3.825	26,888 29.643	596 846	149,175 152.580
2002 Total 2003 Total	1.206	431	4,310	1,055	7,415	19,817	4,403	79,013	9,493	3,825	29,643	040 715	152,560
2003 Total	1,200	423	3,899	1,209	8,270	19,773	5,265	78,959	11.684	3,248	28,367	713	153,925
2005 Total	1,353	375	4,249	1,657	8,492	19,466	5,368	72,882	9,687	3,195	28,271	733	144,739
2006 Total	1,310	235	4,355	1,599	8,371	19,464	4,223	77,669	9,923	2,899	28,400	572	148,254
2007 Total	1,371	189	4,257	1,599	8,273	16,694	4,243	77,580	9,411	1,590	28,287	631	143,128
2008 Total	1,261	142	4,188	1,534	7,926	15,703	3,219	76,421	8,507	1,676	26,641	821	137,113
2009 Total	1,096	163	4,225	1,748	8,165	13,686	2,963	75,748	7,574	1,868	25,292	740	132,329
2010 January	116	13	367	137	709	1,544	225	6,959	634	169	2,114	72	12,120
February	102	11	339	111	623	1,481	197	6,303	578	162	1,967	64	11,118
March	91	8	351	134	661	1,649	163	6,588	735	188	2,149	67	11,936
April	80 84	9 12	326 326	144 149	645 666	1,258 1,519	169 181	6,194 6,477	669 738	187 164	2,094 2,061	80 69	11,034 11,614
May June	97	10	350	149	699	1,482	187	6,885	700	132	2,001	68	12.075
July	110	18	459	146	812	1,713	194	7,205	696	102	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
2011 January	108	21	421	186	817	1,304	207	6,901	687	143	2,307	82	12,054
February	104	11	367	169	725	1,125	168	6,177	600	160	2.048	78	10,770
March	100	7	373	188	753	1,161	160	6,212	693	187	2,181	78	11,149
April	77	4	357	179	706	1,139	163	6,416	674	184	2,090	73	11,175
May	82	5	471	202	867	1,199	156	6,597	633	198	2,033	66	11,359
June	90	3 7	463	200 205	860	1,249	152	6,802	753	150	2,292	67	11,938
July August	104 94	7	605 571	205 210	1,023 985	1,353 1,389	141 138	7,517 7,745	836 823	109 96	2,312 2,343	71 76	12,868 13,085
September	84	7	487	195	870	1,209	145	6.953	752	122	2,343	75	11.948
October	65	6	438	190	799	1,120	162	6,419	700	126	2,146	86	11,224
November	62	7	437	195	800	1,077	143	6,742	715	146	2,286	86	11,663
December	78	6	499	195	874	1,165	155	7,429	758	178	2,392	81	12,642
Total	1,049	89	5,487	2,315	10,080	14,490	1,891	81,911	8,624	1,799	26,691	917	141,875
2012 January	84	7	528	203	913	1,175	294	7,293	743	175	2,412	77	12,480
February	78 70	5 5	499 476	202 199	875 853	1,055 1,097	194 197	6,963 6,716	771 769	157 186	2,246 2,106	72 70	11,733 11,452
March April	70 64	56	476	202	853 843	998	214	6,716	769 745	186	2,106	70 72	11,452
May	70	6	400	202	880	1,063	180	7,235	743	182	2,022	77	12.006
June	68	10	493	202	880	1,130	204	7,266	717	131	2,188	71	12,000
July	78	12	553	219	980	1,344	205	7,892	731	109	2,304	82	13,003
August	71	10	498	220	917	1,299	249	7,535	779	97	2,293	77	12,669
September	58	8	480	211	869	1,124	231	7,045	668	92	2,249	69	11,805
October 10-Month Total	43 684	9 76	471 4,945	219 2,088	855 8,865	1,152 11,435	217 2,186	7,096 71,564	614 7,280	107 1,396	2,241 22,253	81 746	11,860 120,029
			,					,			,		,
2011 10-Month Total 2010 10-Month Total	909 954	76 108	4,551 3,849	1,925 1,402	8,406 7,115	12,248 15,464	1,593 1,853	67,740 67,840	7,151 6,911	1,475 1,404	22,012 21,306	750 719	117,570 119,812

(Subset of Table 7.2a; Million Kilowatthours)

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

plants. ^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. ^C Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

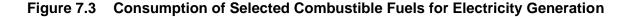
Anthracite, bituminous coal, subbituminous coal, lighte, waste coal, and coal synfuel.
 ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
 ^e Natural gas, plus a small amount of supplemental gaseous fuels.
 ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

¹⁰ Includes a small amount of conventional hydroelectric power, other gases, photovoltaic (PV) energy, wind, wood, and other, which are not separately displayed.

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

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

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



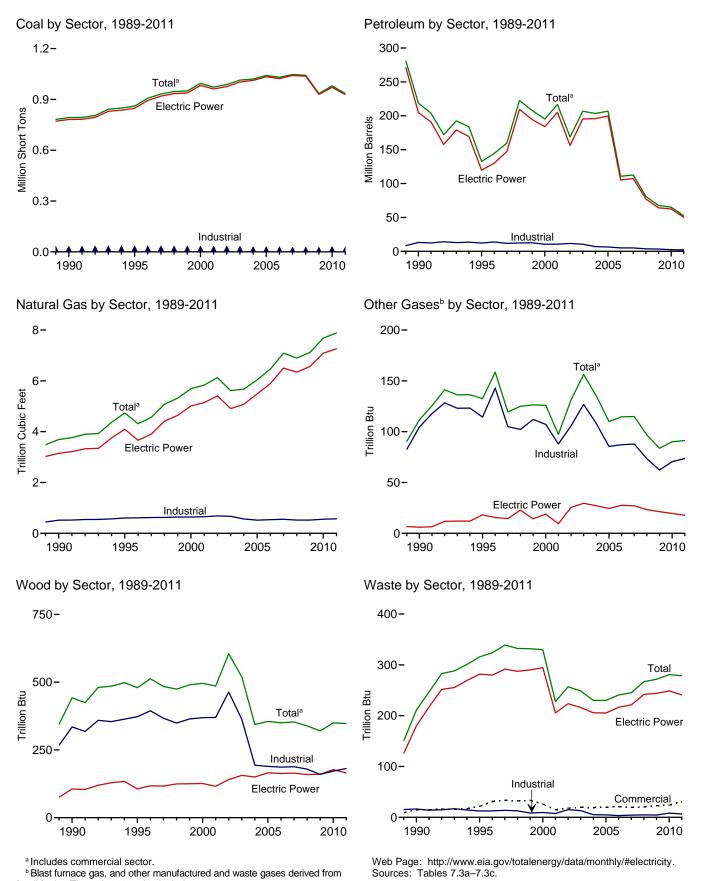


Table 7.3a Consumption of Combustible Fuels for Electricity Generation:

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	ls	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total	389,212 405,962 569,274	47,058 38,907 29.051	513,190 467,221 391,163	NA NA NA	507 70 179	562,781 506,479 421,110	3,660 3,158 3,682	NA NA NA	(s) 3	2 2 2	NA NA NA
1980 Total 1985 Total 1990 Total ^k	<u> </u>	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total ^k	792,457 860.594	18,143 19.615	190,652 95.507	437 680	1,914 3.355	218,800 132,578	3,692 4,738	112 133	442 480	211 316	36 42
1995 Total 1996 Total	907.209	20.252	106.055	1,712	3,355	144.626	4,730	159	513	324	37
1997 Total	931,949	20,309	118,741	237	4,086	159,715	4,565	119	484	339	36
1998 Total	946,295	25,062	172,728	549	4,860	222,640	5,081	125	475	332	36
1999 Total 2000 Total	949,802 994,933	25,951 31,675	158,187 143,381	974 1,450	4,552 3,744	207,871 195,228	5,322 5,691	126 126	490 496	332 330	41 46
2001 Total	972,691	31,150	165,312	855	3,871	216,672	5,832	97	486	228	160
2002 Total	987,583	23,286	109,235	1,894	6,836	168,597	6,126	131	605	257	191
2003 Total 2004 Total	1,014,058 1,020,523	29,672 20,163	142,518 142,088	2,947 2,856	6,303 7,677	206,653 203,494	5,616 5,675	156 135	519 344	249 230	193 183
2005 Total	1.041.448	20,103	142,000	2,050	8.330	203,494	6.036	110	344	230	173
2006 Total	1,030,556	13,174	58,473	2,174	7,363	110,634	6,462	115	350	241	172
2007 Total	1,046,795	15,683	63,833	2,917	6,036	112,615	7,089	115	353	245	168
2008 Total 2009 Total	1,042,335 934,683	12,832 12,658	38,191 28,576	2,822 2,328	5,417 4,821	80,932 67,668	6,896 7,121	97 84	339 320	267 272	172 170
		,		,		,					
2010 January	90,767	2,485	2,860	241	433	7,751	570	7	30	22	15
February March	80,209 76,544	869 785	1,075 1,245	212 147	404 438	4,174 4,370	502 479	6 8	28 29	20 24	13 15
April	67,037	726	1,160	126	382	3,923	494	8	27	23	15
May	76,061	1,050	1,997	121	415	5,244	582	8	27	24	15
June	87,395	1,244	3,087	154	493	6,950	731	8	29	24	16
July August	94,993 94,786	1,347 1.093	3,681 2,987	200 164	524 423	7,849 6.358	923 972	8 8	31 32	24 24	16 16
September	79,573	905	1,789	151	394	4,813	723	8	30	23	16
October	70,918	787	1,113	129	362	3,840	594	6	28	23	15
November December	72,756 88,645	876 1,883	982 2,021	143 266	317 408	3,588 6,210	519 591	7 8	29 31	24 24	15 16
Total	979,684	14,050	23,997	2,056	4,994	65,071	7,680	90	350	281	184
2011 January	90,208	1,347	1,723	255	552	6,086	564	7	31	22	16
February	73,614	913	1,020	144	431	4,230	505	6	28	21	15
March April	72,645 67.128	907 1.005	1,113 1,333	140 111	517 336	4,746 4,130	503 546	7 7	29 25	23 22	17 17
May	73,522	973	1,230	88	357	4,078	599	7	26	23	18
June	84,156	968	1,249	138	432	4,514	727	8	30	24	18
July	94,304	1,138	1,550	238	510	5,476	967	9 9	31	25 25	19
August September	92,297 76,790	831 736	1,313 942	146 156	464 454	4,610 4,105	951 712	9	32 30	25 23	18 17
October	69,605	753	938	143	338	3,522	600	7	27	24	17
November	67,059	768	917	147	257	3,115	568	8	28	24	17
December Total	73,610 934,938	892 11,231	922 14,251	138 1,844	365 5,012	3,775 52,387	642 7,884	8 91	31 348	25 279	18 205
	,		,	,							
2012 January	70,846	816	994	78	465	4,213	675	8	33	22	15
February March	62,906 57,442	689 599	760 875	118 128	354 234	3,340 2,771	673 702	8 8	31 28	21 23	14 15
April	51,893	789	799	141	202	2,741	742	8	26	23	14
May	62,978	907	839	166	245	3,138	844	8	29	24	16
June	71,750	899	1,299	177	265	3,698	911	8	30 32	23 25	15
July August	86,667 82,862	894 723	1,608 1,143	174 154	291 319	4,131 3.617	1,123 1.034	8 8	32	25	16 16
September	69,490	681	836	112	313	3,196	834	7	31	22	15
October	66,745	776	937	148	266	3,188	699	7	29	23	15
10-Month Total	683,579	7,773	10,090	1,396	2,955	34,032	8,239	78	303	228	150
2011 10-Month Total 2010 10-Month Total	794,269 818,283	9,571 11,291	12,412 20,994	1,560 1,646	4,391 4,268	45,496 55,273	6,674 6,570	76 75	288 289	230 233	170 153

Total (All Sectors) (Sum of Tables 7.3b and 7.3c)

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

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

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

propane.
 Petroleum coke is converted from short tons to barrels by multiplying by 5.
 f Natural gas, plus a small amount of supplemental gaseous fuels.
 9 Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 h Wood and wood-derived fuels.
 i Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes

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

plants.

plants.
 NA=Not available. (s)=Less than 0.5 trillion Btu.
 Notes: • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants.
 • Totals may not equal sum of components due to independent rounding.
 • Geographic coverage is the 50 States

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

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	ls	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total 1980 Total 1980 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2000 Total 2000 Total 2000 Total 2000 Total 2001 Total 2002 Total 2003 Total 2005 Total 2006 Total 2007 Total 2006 Total 2007 Total 2007 Total 2005 Total 2006 Total 2008 Total 2009 Total	389,212 405,962 569,274 693,841 781,301 847,854 894,400 913,4126 937,888 982,713 961,523 975,251 1,003,036 1,012,459 1,023,867 1,022,802 1,041,346 1,036,891 929,692	47,058 38,907 29,051 14,635 16,394 18,646 23,166 23,166 23,875 29,056 21,810 27,441 18,793 19,450 12,578 15,135 12,318 11,848	513,190 467,221 391,163 158,779 183,285 88,895 98,795 112,423 165,875 151,921 138,047 159,150 104,577 137,361 138,831 138,837 56,347 62,072 37,222 27,768	NA NA NA 25 441 567 1300 411 514 403 374 1,243 1,937 2,511 1,783 2,591 1,783 2,496 2,608 2,110	507 70 179 231 1,008 2,452 2,467 3,201 3,999 3,607 3,155 3,308 5,705 5,719 7,135 5,779 7,135 5,523 5,523 5,523 5,500 4,485	562,781 506,479 421,110 204,745 119,645 1130,168 147,202 209,447 194,345 183,946 205,119 156,154 195,336 195,809 199,760 105,235 107,316 777,149 64,151	$\begin{array}{c} 3,660\\ 3,158\\ 3,682\\ 3,044\\ \hline 3,147\\ 4,094\\ 3,660\\ 3,903\\ 4,416\\ 4,644\\ 5,014\\ 5,142\\ 5,408\\ 4,909\\ 5,075\\ 5,448\\ 5,091\\ 6,502\\ 6,342\\ 6,567\\ \end{array}$	NA NA NA 6 18 16 14 23 14 23 25 30 27 24 28 27 23 21	1 (s) 3 8 106 106 117 117 125 125 125 126 116 141 156 150 163 165 159 160	2 2 2 7 180 282 280 290 290 290 294 205 224 205 216 221 242 242 244	NA NA NA (s) 2 1 2 2 1 1 109 137 136 131 117 117 117 117 115
2010 January February March April 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 13,677	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 3,373 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 2 0	16 15 15 13 15 16 16 15 13 15 15 16 177	20 18 21 21 21 22 22 21 20 21 20 21 20 21 20 249	9 8 9 10 10 10 10 10 10 10 10 10 10
2011 January February March April July August September October November December Total	89,681 73,167 72,148 66,643 73,010 83,622 93,724 91,707 76,286 69,165 66,642 73,063 928,857	1,314 886 882 989 955 951 1,117 812 714 727 745 868 868 10,961	1,660 977 1,082 1,206 1,223 1,524 1,524 1,524 1,524 906 889 891 13,861	238 127 124 96 72 123 223 130 140 128 132 123 1,655	524 409 495 312 333 409 491 440 428 312 232 232 339 4,726	5,833 4,033 4,563 3,948 3,899 4,344 5,317 4,430 3,911 3,321 2,926 3,579 50,105	512 459 457 498 548 675 909 893 659 551 518 586 7,265	1 2 1 2 2 2 1 1 1 1 1 8	15 14 14 12 14 16 16 14 13 15 15	19 18 20 21 21 21 21 20 20 20 20 20 20 21 22 22 241	10 10 11 11 12 12 12 12 11 11 11 11 12 132
2012 January February April May June July August September October 10-Month Total	70,382 62,486 57,010 51,504 62,569 71,310 86,138 82,344 69,048 66,287 679,077	797 674 582 766 885 871 867 696 656 749 7,544	958 725 845 773 808 1,276 1,579 1,119 812 914 9,809	62 102 119 113 158 159 166 147 101 125 1,252	382 306 183 153 196 215 237 247 247 247 213 2,378	3,727 3,032 2,463 2,415 2,831 3,380 3,796 3,195 2,807 2,851 30,497	620 621 652 693 789 856 1,063 977 781 645 7,698	1 1 1 1 1 1 1 1 1 1 1 4	15 14 12 12 13 15 15 14 12 132	19 17 20 21 20 21 20 21 20 19 20 197	11 10 10 11 11 12 11 11 11 107
2011 10-Month Total 2010 10-Month Total	789,152 811,185	9,348 10,980	12,081 20,638	1,400 1,479	4,154 4,006	43,600 53,126	6,161 6,075	15 17	138 147	199 206	110 96

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

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

Antifractile, bituminious coal, debutanting of a second and a second and

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

Petroleum coke is converted from short tons to barrels by multiplying by 5.
 ⁴ Petroleum coke is converted from short tons to barrels by multiplying by 5.
 ⁵ Natural gas, plus a small amount of supplemental gaseous fuels.
 ⁹ Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^h Wood and wood-derived fuels.
 ⁱ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels). ^j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). ^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • Data are for fuels consumed to produce electricity. Data also include fuels consumed to produce useful thermal output at a small number of electric utility combined-heat-and-power (CHP) plants. • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973. Sources: See end of section.

		Commerc	ial Sector ^a				Indu	strial Sector	b		
				Biomass				0.1	Bion	nass	
	Coalc	Petroleum ^d	Natural Gas ^e	Waste ^f	Coalc	Petroleumd	Natural Gas ^e	Other Gases ^g	Wood ^h	Wastef	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillior	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	645 790	42	31 34	12,153	13,813	610	143	394	13	35
1997 Total 1998 Total	630 440	802	39 41	34 32	12,311 11,728	11,723 12,392	623 625	105 102	367 349	14 13	36 35
1999 Total	440	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	377 377	766 585	33 34	19 20	7,687 7.504	6,919 6,440	566 518	108 85	194 189	5 5	41 46
2005 Total 2006 Total	347	333	34 35	20	7,504	6,440 5.066	518	85 87	189	5 3	46 45
2007 Total	361	258	34	19	5.089	5.041	554	88	188	4	40
2008 Total	369	166	33	20	5,075	3,617	520	73	179	5	39
2009 Total	317	190	34	23	4,674	3,328	520	62	160	4	42
2010 January	32	18	3	2	654	252	48	5	14	1	4
February	28	16	3	2	643	212	43	5	13	1	4
March	26	12	3 3	2 2	746	182	44	6	14	1	4
April May	23 23	11 14	3	2	456 727	171 190	42 44	6 6	14 14	1	4
June	23	13	3	2	643	204	44	6	14	1	5
July	30	26	4	2	769	213	50	ĕ	15	1	5
August	29	15	4	2	835	207	53	7	15	1	5
September	26	13	3	2	666	171	48	6	15	1	5
October		11	3	2	690	195	44	5	14	1	5
November		7	3	2	529	208	43	6	14	1	4 5
December Total		15 172	4 39	2 24	765 8,125	217 2,422	48 555	6 70	15 172	1 8	55
2011 January	40	27	4	3	487	226	48	6	16	1	4
February	39	16	3	2	409	180	43	5	14	1	4
March	37	11	3	3	460	173	43	5	15	1	5
April	25	5	3	2	460	177	45	6	14	1	5
May	25 27	5 5	4	3	487	174	47	6	14	1	5
June July	32	5 14	4 5	3	507 548	165 145	48 53	7 7	16 16	1	5 5
August	29	12	5	3	562	145	54	7	16	1	5
September		13	4	3	479	181	49	6	15	1	4
October	21	10	4	3	419	191	45	6	15	1	5
November	21	11	4	3	397	179	47	6	16	1	5
December	26	9	4	3	521	187	51	_6	16	1	5
Total	347	137	47	31	5,735	2,145	572	74	182	7	57
2012 January	29	9	4	3	435	476	50	6	18	1	3
February	27	7 8	4 4	3	393	301	48	7	17	1	3
March April	25 22	8 10	4	3 2	407 366	300 316	46 45	7 6	15 16	1	3
May		9	4	2	385	298	45 51	6	17	1	3
June		15	4	2	413	303	51	ĕ	17	1	3
July	30	18	5	3	500	318	55	6	18	1	3
August	28	16	4	2	491	407	53	7	18	1	3
September		12	4	3	418	377	50	6	17	1	3
October 10-Month Total	20 256	13 116	4 41	3 26	438 4,246	324 3,419	50 500	5 64	17 171	1 5	3 30
					, i						
2011 10-Month Total 2010 10-Month Total	301 267	117 150	39 32	26 20	4,817 6,830	1,779 1,997	474 463	61 58	150 142	5 7	47 46

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

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

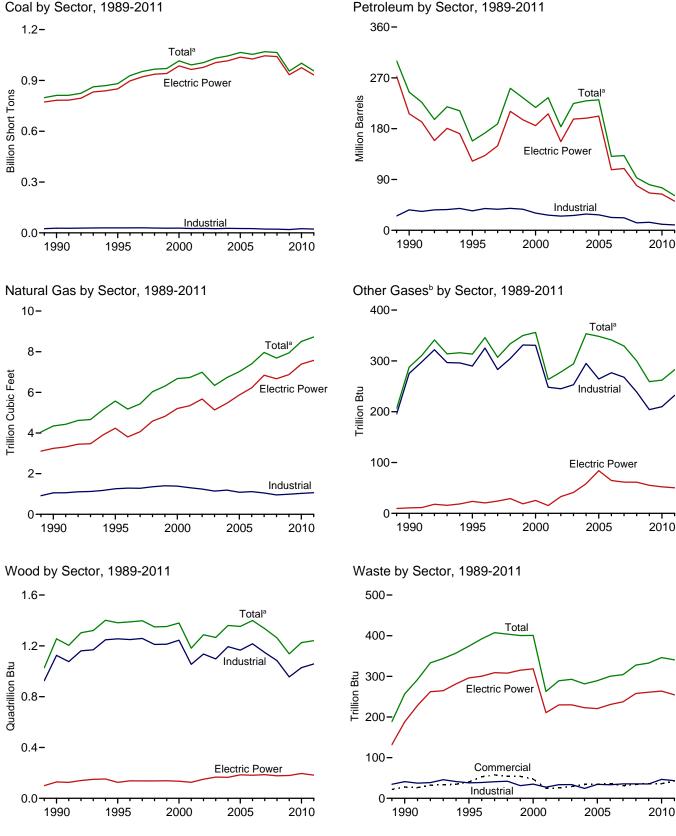
plants. ^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. ^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

^c Anthracite, bituminous coal, subbituminous coal, ngme, mase coal, and synfuel.
 ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
 ^e Natural gas, plus a small amount of supplemental gaseous fuels.
 ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
 ^g Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^h Wood and wood-derived fuels.

 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. 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 1989. Sources: • 1989-1997: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Nontility Power Producer Report." • 1998-2000: EIA, Form EIA-860B, "Annual Electric Generator Report." • 1998-2000: EIA, Form EIA-860B, "Annual Electric Generator Report." • 2001-2003: EIA, Form EIA-960, "Power Plant Report." • 2004-2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

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



^a Includes commercial sector.

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

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

				Petroleum					Bion	nass	
	Coal ^a	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	т	nousand Barre	ls	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion 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	693,841	14,635	158,779	NA	231	174,571	3,044	NA	8	7	NA
1990 Total *	811,538	20,194	209,081	1,332	2,832	244,765	4,346	288	1,256	257	86
1995 Total	881,012	21,697	112,168	1,322	4,590	158,140	5,572	313	1,382	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 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total	1,015,398 991,635 1,005,144 1,031,778 1,044,798 1,065,281	34,572 33,724 24,749 31,825 23,520 24,446	156,673 177,137 118,637 152,859 157,478 156,915	2,904 1,418 3,257 4,576 4,764 4,270	4,669 4,532 7,353 7,067 8,721 9,113	217,494 234,940 183,409 224,593 229,364 231,193	6,677 6,731 6,986 6,337 6,727 7,021	356 263 278 294 353 348	1,380 1,182 1,287 1,266 1,360 1,353	401 263 289 293 282 282 289	109 229 252 262 254 254
2006 Total	1,064,503	14,655	69,846	3,396	8,622	131,005	7,404	341	1,399	300	247
2007 Total		17,042	74,616	4,237	7,299	132,389	7,962	329	1,336	304	239
2008 Total		14,137	43,477	3,765	6,314	92,948	7,689	300	1,263	328	212
2009 Total		14,800	33,672	3,218	5,828	80,830	7,938	259	1,137	333	228
2010 January	92,738	2,643	3,212	338	525	8,819	643	21	103	29	18
February	82,029	978	1,397	286	497	5,143	566	19	96	26	17
March	78,383	866	1,439	207	522	5,124	547	23	103	30	19
April May June July August	69,179 77,725 89,063 96,783 96,593	837 1,111 1,295 1,455 1,185	1,355 2,221 3,291 3,921 3,190	176 176 204 244 206	458 500 586 613 510	4,656 6,005 7,721 8,684 7,132	556 647 796 997 1,047	22 23 23 22 23	98 98 101 105 106	29 29 29 29 29 29	19 20 21 21 21
September		961	2,006	191	475	5,534	791	22	103	27	20
October		871	1,370	186	453	4,693	662	20	101	29	20
November		1,017	1,212	204	414	4,503	586	21	102	30	20
December		2,029	2,332	361	499	7,218	665	23	109	30	21
Total		15,247	26,944	2,777	6,053	75,231	8,502	262	1,226	346	237
2011 January	92,292	1,411	2,123	329	645	7,087	636	23	111	28	20
February	75,447	986	1,247	213	521	5,052	570	22	99	26	19
March	74,514	965	1,327	201	603	5,506	570	24	104	28	22
April	68,841	1,034	1,537	166	428	4,876	610	22	96	26	21
May	75,298	1,016	1,416	146	452	4,838	666	23	95	27	22
June	85,881	1,001	1,450	191	521	5,246	794	24	104	28	23
July	96,128	1,169	1,738	292	599	6,194	1,045	25	107	29	24
August	94,103	855	1,515	204	545	5,298	1,030	25	107	29	23
September	78,479	770	1,136	207	545	4,837	782	24	104	28	21
October	71,317	797	1,147	201	429	4,289	666	24	100	30	22
November	68,748	805	1,118	201	345	3,848	636	23	103	30	22
December	75,422	926	1,123	189	460	4,537	718	24	111	31	23
Total	956,470	11,735	16,877	2,540	6,092	61,610	8,724	282	1,241	340	261
2012 January	72,795	847	1,188	131	561	4,970	755	26	109	28	18
February	64,604	710	892	168	449	4,015	746	25	101	26	16
March	59,142	626	994	198	360	3,617	775	27	96	29	17
April	53,407	814	920	219	317	3,538	814	25	91	27	17
May	64,678	938	991	206	355	3,909	917	26	100	29	18
June	73,344	943	1,458	234	365	4,458	987	25	100	28	18
July	88,319	937	1,767	205	385	4,836	1,203	25	105	29	18
August	84,597	754	1,303	180	412	4,297	1,113	26	103	28	18
September	71,050	705	973	146	406	3,854	908	23	101	27	17
October	68,476	803	1,087	214	379	3,999	774	22	98	29	17
10-Month Total	700,411	8,077	11,572	1,901	3,988	41,492	8,992	250	1,005	281	173
2011 10-Month Total	812,300	10,005	14,635	2,150	5,287	53,225	7,370	235	1,026	279	216
2010 10-Month Total	836,315	12,201	23,400	2,212	5,139	63,510	7,251	218	1,014	286	196

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

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

 Antinactie, bitchinitous coal, subbitchinitous coal, lightle, waste coal, and coal synfuel.
 ^b Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.
 ^c Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4.
 ^d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011, Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011,

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

f

⁶ Natural gas, plus a small amount of supplemental gaseous fuels.
 ⁹ Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^h Wood and wood-derived fuels.
 ⁱ 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).

tirre-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 nlants. plants. NA=Not available.

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

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

				Petroleum	1				Bion	nass		
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j	
	Thousand Short Tons	т	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu		
1973 Total 1975 Total 1980 Total 1985 Total	389,212 405,962 569,274 693,841	47,058 38,907 29,051 14,635	513,190 467,221 391,163 158,779	NA NA NA NA	507 70 179 231	562,781 506,479 421,110 174,571	3,660 3,158 3,682 3,044	NA NA NA NA	(s) 1 3 8	2 2 2 7	NA NA NA NA	
1990 Total k 1995 Total	782,567 850,230 896,921 921,364 936,619 940,922 985,821 964,433 977,507 1,005,116 1,016,268 1,037,485 1,026,636	16,567 18,553 18,780 23,300 24,058 30,016 29,274 21,876 27,632 19,107 19,675 12,646 15,327	184,915 90,023 99,951 113,669 166,528 152,493 138,513 138,513 159,504 104,773 139,816 139,409 57,345 63,086	26 499 653 152 431 544 454 377 2,026 2,713 2,685 1,870 2,594	1,008 2,674 2,642 3,372 3,735 3,275 3,427 5,816 5,799 7,372 8,083 7,101 5,685	206,550 122,447 132,593 149,668 210,769 195,769 185,358 206,291 156,992 198,498 202,184 107,365 109,431	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	11 24 20 24 29 19 25 15 33 41 58 84 65 61	129 125 138 137 137 138 134 126 150 167 165 185 185 182 186	188 296 300 309 308 315 318 211 230 223 221 221 231 237	(s) 2 2 2 1 1 1 1 1 3 143 140 138 123 125 124	
2008 Total 2009 Total	1,040,580 933,627 90.452	12,547 12,035 2.459	38,241 28,782 2.887	2,670 2,210	5,119 4,611 413	79,056 66,081 7.636	6,668 6,873	61 55 5	177 180 17	258 261 21	131 124 10	
2010 January February March April June July August September October November December Total	90,452 79,884 76,110 66,842 75,597 87,030 94,519 94,247 79,176 70,492 72,514 88,189 975,052	2,459 851 759 699 1,023 1,222 1,309 1,068 883 772 890 1,854 13,790	2,887 1,061 1,256 1,214 2,055 3,147 3,730 3,051 1,845 1,161 1,035 2,062 24,503	222 219 131 112 104 137 185 149 136 112 126 245 1,877	413 389 427 369 400 471 503 394 372 346 301 391 4,777	7,050 4,076 4,281 3,871 5,181 6,860 7,742 6,236 4,726 4,726 3,773 3,557 6,118 64,055	546 480 457 560 706 897 943 697 570 497 570 497 564 7,387	5 4 5 5 5 5 5 5 5 5 4 4 3 4 4 52	17 16 15 14 16 17 18 16 15 16 17 196	21 20 22 21 23 23 23 23 22 22 23 23 23 264	10 9 10 10 10 11 11 11 11 10 10 10 11 124	
2011 January February March April May June July August September October November December Total	90,021 73,474 72,458 66,930 73,338 83,908 94,037 92,012 76,569 69,458 66,919 73,359 932,484	1,322 911 885 991 957 954 1,120 816 716 730 748 870 11,021	1,745 1,024 1,153 1,384 1,286 1,303 1,609 1,375 1,002 990 968 965 14,803	239 127 124 96 72 123 223 130 140 128 134 123 1,658	529 417 506 321 344 419 501 451 439 319 241 350 4,837	5,953 4,148 4,692 4,078 4,074 4,074 4,474 5,458 4,575 4,052 3,445 3,052 3,707 51,667	540 484 482 521 572 699 939 921 684 575 543 614 7,574	4 4 5 4 4 4 4 4 4 5 0	17 16 15 12 13 16 17 17 15 14 14 16 182	21 19 21 20 21 22 22 21 22 22 23 25	11 10 12 12 12 13 13 13 12 12 12 12 12	
2012 January February March April June June July August September October 10-Month Total	70,720 62,755 57,300 51,751 62,868 71,595 86,429 82,643 69,321 66,565 681,948	800 676 585 769 890 874 871 699 659 753 7,575	1,050 787 895 836 889 1,362 1,656 1,199 889 997 10,557	63 102 119 113 158 159 166 147 101 125 1,253	393 317 194 162 207 221 246 256 257 222 2,472	3,877 3,149 2,568 2,526 2,971 3,497 3,922 3,324 2,933 2,982 31,747	648 648 677 720 817 885 1,093 1,007 807 671 7,973	4 4 4 4 4 4 4 4 4 4 4 7	16 15 14 11 13 15 16 16 15 14 14	21 19 20 22 21 22 21 20 21 20 21 209	12 10 11 12 12 12 12 12 11 11 11 115	
2011 10-Month Total 2010 10-Month Total	792,206 814,349	9,403 11,046	12,871 21,406	1,401 1,507	4,247 4,084	44,908 54,380	6,417 6,326	42 44	152 162	210 218	118 103	

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

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

^a Antinactic, bitchinitous coal, subbitchinitous coal, lightle, waste coal, and coal synfuel.
 ^b Fuel oil nos. 1, 2, and 4. Through 2000, electric utility data also include small amounts of kerosene and jet fuel.
 ^c Fuel oil nos. 5 and 6. Through 2000, electric utility data also include a small amount of fuel oil no. 4.
 ^d Jet fuel, kerosene, other petroleum liquids, waste oil, and, beginning in 2011,

propane.

propane.
 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, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.
 ^h Wood and wood-derived fuels.
 ⁱ Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels). ¹ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). ^k Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Pace: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all

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

The Sho 1989 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2005 Total 2005 Total 2007 Total 2008 Total 2009 Total 2010 January February March April May June July August September October Total 2011 January February March April May June July June	Coal ^c ousand ott Tons 1,125 1,191 1,419 1,660 1,738 1,443 1,490 1,547 1,448 1,405 1,817 1,922 1,886 1,927 2,021 1,798 1,927 2,021 1,798 1,927 1,93 167 149 117 118 135 142 152 133 121	Petroleum ^d Thousand Barrels 1,967 2,056 1,246 1,584 1,584 1,584 1,613 1,613 1,613 1,613 1,613 1,613 1,613 1,613 1,250 1,449 2,009 1,630 9,355 752 671 521 555 47 262 24 28 265 59 466 59 466 27	Natural Gas ^e Billion Cubic Feet 30 46 78 82 87 87 84 85 87 84 85 87 84 85 87 84 85 87 84 85 87 87 84 85 87 87 84 85 87 79 74 58 86 86 86 86 86 87 87 87 84 85 87 87 84 87 87 84 87 87 84 87 87 84 87 87 84 87 87 84 87 87 84 87 87 84 87 87 84 87 87 84 87 87 84 85 87 87 87 84 87 87 84 85 87 87 84 87 87 84 86 86 86 87 87 87 87 84 86 86 86 86 87 87 87 84 85 87 87 84 87 87 84 85 87 87 87 84 86 86 86 86 86 86 87 87 87 87 84 86 86 86 86 86 86 86 86 86 87 87 87 87 87 87 84 86 86 86 86 86 86 86 86 86 86 86 86 86	Biomass Waste ^f Trillion Btu 22 28 4 53 58 54 54 54 54 54 54 54 54 54 54 54 54 54	Coal ^c Thousand Short Tons 24,867 27,781 29,363 29,434 29,853 28,553 27,763 28,553 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,209 2,094 1,978 2,122 2,194 1,941 1,945	Petroleum ^d Thousand Barrels 25,444 36,159 34,448 38,661 37,265 38,910 37,312 30,520 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,021 817,761 796 835 883 849 780	Natural Gas ^e Billion Cubic Feet 1,055 1,258 1,289 1,282 1,385 1,401 1,386 1,310 1,240 1,144 1,191 1,084 1,115 1,050 995 990 80 80 84 79 92 84 84 95	Other Gases ⁹ 195 275 290 325 283 301 331 248 245 253 295 264 277 268 239 204 17 15 18 8 18 18 18 18	Biom Wood ^h 7rillion 926 1,125 1,259 1,259 1,259 1,259 1,251 1,213 1,244 1,054 1,136 1,148 1,054 1,148 1,084 955 866 79 866 833 838 838 838	Waste ^f	Other ⁱ 855 866 95 93 93 93 93 102 103 94 94 94 94 94 94 94 94 94 94
Tho 1989 Total 1990 Total 1995 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2009 Total 2009 Total 2010 January February March April May June July August September October November December Total 2011 January February March April May June June June	ousand prt Tons 1,125 1,191 1,419 1,660 1,738 1,443 1,443 1,4547 1,547 1,547 1,547 1,547 1,816 1,917 1,927 2,021 1,886 1,917 1,927 2,021 1,798 193 167 147 1,798 193 167 142 135 142 152 133	Thousand Barrels 1,967 2,056 1,245 1,245 1,245 1,245 1,245 1,245 1,250 1,613 1,615 1,832 1,250 1,449 2,009 1,630 935 752 671 521 55 47 26 55 47 26 24 28 26 679 46 27	Gas ^e Billion Cubic Feet 30 46 78 87 87 87 87 87 87 87 87 87 87 87 87	Trillion Btu 22 28 40 53 58 54 36 3 3 3 3 3 3 3 3 3 3 3 3 3 3 <td< th=""><th>Thousand Short Tons 24,867 27,781 29,434 29,833 28,553 28,553 28,031 25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941</th><th>Thousand Barrels 25,444 36,159 34,448 38,661 37,265 38,910 37,312 30,520 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,128 1,128 1,128 1,128 1,128 1,021 817 761 796 835 883 849</th><th>Gas^e Billion Cubic Feet 1,258 1,289 1,282 1,355 1,401 1,386 1,310 1,240 1,144 1,115 1,050 990 900 80 80 84 79 92 84 95</th><th>Gases⁹ 195 275 290 325 283 305 331 331 248 245 253 295 264 277 268 239 204 17 15 18 18 18 18 18 18 18 18 17 19</th><th>Trillion 926 1,125 1,255 1,249 1,259 1,211 1,213 1,244 1,054 1,136 1,1097 1,193 1,166 1,216 1,148 1,084 955 866 79 866 833 833 85 888 888</th><th>n Btu 355 41 38 399 41 42 31 355 277 34 34 34 34 34 33 36 355 35 35 35 35 35 35 35 35 35 35 35 35</th><th>85 86 95 89 102 93 99 108 101 92 103 94 102 98 60 82 6 7 7 7 7 7 8 8 8 8</th></td<>	Thousand Short Tons 24,867 27,781 29,434 29,833 28,553 28,553 28,031 25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941	Thousand Barrels 25,444 36,159 34,448 38,661 37,265 38,910 37,312 30,520 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,128 1,128 1,128 1,128 1,128 1,021 817 761 796 835 883 849	Gas ^e Billion Cubic Feet 1,258 1,289 1,282 1,355 1,401 1,386 1,310 1,240 1,144 1,115 1,050 990 900 80 80 84 79 92 84 95	Gases ⁹ 195 275 290 325 283 305 331 331 248 245 253 295 264 277 268 239 204 17 15 18 18 18 18 18 18 18 18 17 19	Trillion 926 1,125 1,255 1,249 1,259 1,211 1,213 1,244 1,054 1,136 1,1097 1,193 1,166 1,216 1,148 1,084 955 866 79 866 833 833 85 888 888	n Btu 355 41 38 399 41 42 31 355 277 34 34 34 34 34 33 36 355 35 35 35 35 35 35 35 35 35 35 35 35	85 86 95 89 102 93 99 108 101 92 103 94 102 98 60 82 6 7 7 7 7 7 8 8 8 8
Sho 1989 Total 1990 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 1998 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2001 January February March April May Dure December December Total 2011 January February March April March April <th>1,125 1,191 1,419 1,660 1,738 1,443 1,443 1,443 1,445 1,405 1,816 1,917 1,922 1,886 1,917 1,927 2,021 1,798 193 167 149 117 1185 142 133</th> <th>Barrels 1,967 2,056 1,245 1,246 1,584 1,584 1,807 1,613 1,615 1,832 1,250 1,449 2,009 1,630 935 752 671 521 55 477 26 24 28 26 59 46 27</th> <th>Cubic Feet 30 46 78 82 87 87 87 84 55 79 74 58 72 66 76 7 7 7 6 6 6 8 9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7</th> <th>Btu 22 28 40 53 58 54 47 25 26 26 29 34 34 36 31 34 36 31 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</th> <th>Short Tons 24,867 27,781 29,363 29,434 29,853 28,553 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941</th> <th>Barrels 25,444 36,159 34,448 38,661 37,265 38,910 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,021 817 761 796 835 883 883 849</th> <th>Cubic Feet 914 1,055 1,288 1,289 1,282 1,355 1,401 1,386 1,310 1,240 1,144 1,136 1,064 1,115 1,084 1,115 1,084 990 90 80 84 79 92 84 84 91 95</th> <th>275 290 325 283 305 331 331 248 253 264 277 268 239 204 17 15 15 18 18 18 18 18 18</th> <th>926 1,125 1,255 1,249 1,259 1,211 1,213 1,244 1,054 1,136 1,105 1,105 1,105 1,105 1,105 1,105 1,105 1,105 1,105 86 86 83 83 83 83 83 83 83 85 88 88</th> <th>35 41 38 39 41 42 31 35 527 34 34 34 34 33 36 35 35 35 35 35 35 35 35 35 35 35 35 35</th> <th>86 95 89 102 93 99 108 101 92 103 94 94 102 98 60 82 60 77 77 78 8 88 88</th>	1,125 1,191 1,419 1,660 1,738 1,443 1,443 1,443 1,445 1,405 1,816 1,917 1,922 1,886 1,917 1,927 2,021 1,798 193 167 149 117 1185 142 133	Barrels 1,967 2,056 1,245 1,246 1,584 1,584 1,807 1,613 1,615 1,832 1,250 1,449 2,009 1,630 935 752 671 521 55 477 26 24 28 26 59 46 27	Cubic Feet 30 46 78 82 87 87 87 84 55 79 74 58 72 66 76 7 7 7 6 6 6 8 9 9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Btu 22 28 40 53 58 54 47 25 26 26 29 34 34 36 31 34 36 31 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Short Tons 24,867 27,781 29,363 29,434 29,853 28,553 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941	Barrels 25,444 36,159 34,448 38,661 37,265 38,910 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,021 817 761 796 835 883 883 849	Cubic Feet 914 1,055 1,288 1,289 1,282 1,355 1,401 1,386 1,310 1,240 1,144 1,136 1,064 1,115 1,084 1,115 1,084 990 90 80 84 79 92 84 84 91 95	275 290 325 283 305 331 331 248 253 264 277 268 239 204 17 15 15 18 18 18 18 18 18	926 1,125 1,255 1,249 1,259 1,211 1,213 1,244 1,054 1,136 1,105 1,105 1,105 1,105 1,105 1,105 1,105 1,105 1,105 86 86 83 83 83 83 83 83 83 85 88 88	35 41 38 39 41 42 31 35 527 34 34 34 34 33 36 35 35 35 35 35 35 35 35 35 35 35 35 35	86 95 89 102 93 99 108 101 92 103 94 94 102 98 60 82 60 77 77 78 8 88 88
1990 Total 1995 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2003 Total 2004 Total 2005 Total 2007 Total 2008 Total 2009 Total 2001 January March April November December December December Navent March April May June <tr< th=""><th>1,191 1,419 1,660 1,738 1,443 1,405 1,547</th><th>2,056 1,245 1,246 1,584 1,587 1,613 1,613 1,613 1,613 1,613 1,832 1,250 1,449 2,009 1,630 935 752 671 521 557 477 26 24 28 26 59 46 27</th><th>46 78 82 87 87 87 84 85 79 74 58 68 68 68 70 66 76 77 7 7 7 66 66 66 66 76 7 7 7 7</th><th>28 40 53 58 54 47 26 29 34 36 31 34 36 33 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3</th><th>27,781 29,363 29,434 29,853 28,553 27,763 28,031 25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,014 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941</th><th>36,159 34,448 38,661 37,265 38,910 37,312 30,520 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,128 1,128 1,228 1,</th><th>1,055 1,258 1,289 1,282 1,355 1,401 1,386 1,386 1,310 1,240 1,144 1,191 1,084 1,115 1,050 990 90 80 80 84 79 990 80 84 91 95</th><th>275 290 325 283 305 331 331 248 253 264 277 268 239 204 17 15 15 18 18 18 18 18 18</th><th>1,125 1,259 1,259 1,213 1,213 1,244 1,213 1,244 1,213 1,214 1,136 1,148 1,054 1,166 1,148 1,084 955 866 83 888 888</th><th>41 38 39 411 422 31 355 277 34 34 34 34 33 36 355 35 35 35 35 33 33 33 33 33 33</th><th>86 955 89 102 93 99 108 101 92 103 94 94 102 98 60 82 60 82 88 88 88 88 88 80 80 80 82 80 80 82 80 80 82 80 80 82 80 80 80 80 80 80 80 80 80 80 80 80 80</th></tr<>	1,191 1,419 1,660 1,738 1,443 1,405 1,547	2,056 1,245 1,246 1,584 1,587 1,613 1,613 1,613 1,613 1,613 1,832 1,250 1,449 2,009 1,630 935 752 671 521 557 477 26 24 28 26 59 46 27	46 78 82 87 87 87 84 85 79 74 58 68 68 68 70 66 76 77 7 7 7 66 66 66 66 76 7 7 7 7	28 40 53 58 54 47 26 29 34 36 31 34 36 33 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3	27,781 29,363 29,434 29,853 28,553 27,763 28,031 25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,014 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941	36,159 34,448 38,661 37,265 38,910 37,312 30,520 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,128 1,128 1,228 1,	1,055 1,258 1,289 1,282 1,355 1,401 1,386 1,386 1,310 1,240 1,144 1,191 1,084 1,115 1,050 990 90 80 80 84 79 990 80 84 91 95	275 290 325 283 305 331 331 248 253 264 277 268 239 204 17 15 15 18 18 18 18 18 18	1,125 1,259 1,259 1,213 1,213 1,244 1,213 1,244 1,213 1,214 1,136 1,148 1,054 1,166 1,148 1,084 955 866 83 888 888	41 38 39 411 422 31 355 277 34 34 34 34 33 36 355 35 35 35 35 33 33 33 33 33 33	86 955 89 102 93 99 108 101 92 103 94 94 102 98 60 82 60 82 88 88 88 88 88 80 80 80 82 80 80 82 80 80 82 80 80 82 80 80 80 80 80 80 80 80 80 80 80 80 80
1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2006 Total 2009 Total 2001 January March April May December December December March April May June July August July August September	1,419 1,638 1,738 1,443 1,443 1,443 1,443 1,443 1,448 1,445 1,816 1,917 1,886 1,917 1,886 1,927 2,021 1,798 193 167 149 117 118 193 167 142 135	1,245 1,246 1,584 1,807 1,613 1,615 1,832 1,250 1,449 2,009 1,630 935 752 671 521 55 47 26 24 28 826 24 28 826 59 46 27	78 82 87 87 84 85 79 74 68 70 66 66 76 7 7 7 7 6 6 6 6 8 9 9 7	40 53 58 54 47 25 26 29 34 34 36 31 34 36 31 34 36 33 33 33 33 33 33 33 33 33 33 33 33	29,363 29,434 29,853 28,553 27,763 28,031 25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941	34,448 38,661 37,265 38,910 37,312 30,520 26,817 27,380 22,706 22,207 13,222 14,228 1,021 817 761 761 761 783 835 883 883	1,258 1,289 1,282 1,355 1,401 1,386 1,310 1,240 1,144 1,191 1,084 1,115 1,050 955 990 90 80 84 84 79 90 82 84 95	290 325 283 301 248 245 253 295 264 277 268 239 204 17 15 18 18 18 18 18 18 18	1,255 1,249 1,259 1,211 1,213 1,244 1,054 1,097 1,193 1,166 1,216 1,216 1,148 955 86 86 83 83 83 83 83 85 88 88	38 39 41 42 35 27 34 34 34 34 33 36 35 35 35 35 35 35 35 33 3 3 3 3 3	95 89 102 93 99 108 101 92 103 94 102 98 60 82 60 77 77 77 8 88 88
1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2001 January February March April May July August September October November December Total 2011 January March April May June July August	1,660 1,738 1,443 1,490 1,547 1,448 1,405 1,816 1,917 1,922 1,886 1,917 1,922 1,826 1,927 2,021 1,798 193 167 149 117 149 117 149 117 149 1135 142 133	1,246 1,584 1,807 1,613 1,615 1,832 1,250 1,439 2,009 1,630 935 752 671 521 555 47 26 24 28 26 59 466 59 466 27	82 87 87 84 85 79 74 58 72 68 68 68 68 70 66 66 76 7 7 7 7 7 7 7 7 7 7 7 7 7 7	53 58 54 54 47 25 26 29 34 36 31 34 36 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	29,434 29,853 28,553 27,763 28,031 25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941	38,661 37,265 38,910 37,312 30,520 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,128 1,128 1,021 817 761 796 835 883 883	1,289 1,282 1,355 1,401 1,386 1,310 1,240 1,144 1,191 1,084 1,115 1,050 995 90 80 80 84 79 90 80 84 84 91 95	325 283 305 331 248 245 253 295 264 267 268 239 204 17 15 15 18 18 18 18 18 18	1,249 1,259 1,211 1,213 1,244 1,054 1,136 1,193 1,166 1,148 1,084 955 866 863 863 833 833 858 888	39 41 42 31 35 37 34 34 34 34 36 35 35 35 35 35 35 35 35 35 35 35 35 35	89 102 93 99 108 101 92 103 94 102 98 60 88 60 82 67 77 77 88 88 88
1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2001 January March April November December Total 2011 January February March April May June June June June Jun	1,738 1,443 1,440 1,547 1,547 1,947 1,945 1,816 1,917 1,922 1,886 1,927 2,021 1,798 193 167 149 117 118 117 118 118 117 118 118 122 133	1,584 1,807 1,613 1,615 1,832 1,250 1,449 2,009 1,630 935 752 671 521 55 477 26 24 24 28 826 59 46 27	87 84 85 79 74 88 72 68 70 66 68 70 66 77 7 7 7 6 6 6 8 9 9 7	58 54 47 25 29 34 36 31 33 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3	29,853 28,553 27,763 28,031 25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941	37,265 38,910 37,312 30,520 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,128 1,021 817 761 796 835 883 883	1,282 1,355 1,401 1,386 1,310 1,240 1,144 1,191 1,084 1,115 1,055 990 90 80 80 84 79 90 80 84 84 91 95	305 331 331 248 245 253 295 264 277 268 239 204 17 15 18 18 18 18 18 18 18	1,259 1,211 1,213 1,244 1,054 1,136 1,097 1,193 1,166 1,148 1,084 955 866 863 863 833 833 855 888 888	42 31 35 27 34 34 34 33 36 35 35 35 35 35 35 33 3 3 3 3 3 3	102 93 99 108 101 92 103 94 94 98 60 60 82 82 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8
1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2010 January February March April July July September October November December Total 2011 January March April March April May July April May July April May July August September	1,490 1,547 1,448 1,405 1,816 1,917 1,922 1,886 1,927 2,021 1,928 1,927 2,021 1,798 193 167 149 117 149 117 149 117 149 115 142 133	1,613 1,615 1,832 1,250 1,449 2,009 1,630 935 752 671 521 555 47 26 24 28 26 59 46 59 46 27	84 85 79 74 58 72 68 68 68 76 76 7 7 7 7 7 7 7 7 7 7 7 7	54 477 226 299 34 36 31 34 36 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	27,763 28,031 25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941	37,312 30,520 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,128 1,128 1,021 817 761 796 835 883 883	1,401 1,386 1,310 1,240 1,144 1,191 1,084 1,115 1,050 995 990 80 80 84 79 90 80 84 84 91 95	331 331 248 245 253 295 264 268 239 204 17 15 15 18 18 18 18 18 18 19	1,213 1,244 1,054 1,136 1,097 1,193 1,166 1,148 1,084 955 866 79 866 83 83 83 83 85 88 88 88	31 35 27 34 34 34 34 36 35 35 35 35 35 35 35 35 35 35 35 33 33	999 108 1011 922 103 94 94 98 60 82 82 6 7 7 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8
2000 Total 2001 Total 2002 Total 2003 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2010 January February March April May June July August September October November December Total 2011 January February March April May June June <td>1,547 1,448 1,405 1,816 1,917 1,927 2,021 1,986 1,927 2,021 1,923 167 149 117 118 135 142 135 142 133</td> <td>1,615 1,832 1,250 1,449 2,009 2,009 9355 752 671 521 55 477 26 24 24 28 826 59 46 27</td> <td>85 79 74 58 72 68 68 70 66 76 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7</td> <td>47 25 29 34 36 31 34 36 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3</td> <td>28,031 25,755 26,232 24,846 26,613 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941</td> <td>30,520 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,021 817 761 796 835 883 883 849</td> <td>1,386 1,310 1,240 1,144 1,191 1,084 1,115 1,085 990 90 80 80 84 79 90 84 79 82 84 84 91 95</td> <td>331 248 245 253 295 264 277 268 239 204 17 15 18 18 18 18 18 18 18 18 19</td> <td>1,244 1,054 1,136 1,097 1,193 1,166 1,148 1,084 955 866 83 868 83 85 888 888</td> <td>35 27 34 34 34 33 36 35 35 4 4 4 4 5 3 3 3 3 3 3 3 3 3 3 3 3</td> <td>108 101 92 94 94 102 98 60 82 82 6 7 7 7 7 7 8 8 8 8 8 8 8 8</td>	1,547 1,448 1,405 1,816 1,917 1,927 2,021 1,986 1,927 2,021 1,923 167 149 117 118 135 142 135 142 133	1,615 1,832 1,250 1,449 2,009 2,009 9355 752 671 521 55 477 26 24 24 28 826 59 46 27	85 79 74 58 72 68 68 70 66 76 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	47 25 29 34 36 31 34 36 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	28,031 25,755 26,232 24,846 26,613 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941	30,520 26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,021 817 761 796 835 883 883 849	1,386 1,310 1,240 1,144 1,191 1,084 1,115 1,085 990 90 80 80 84 79 90 84 79 82 84 84 91 95	331 248 245 253 295 264 277 268 239 204 17 15 18 18 18 18 18 18 18 18 19	1,244 1,054 1,136 1,097 1,193 1,166 1,148 1,084 955 866 83 868 83 85 888 888	35 27 34 34 34 33 36 35 35 4 4 4 4 5 3 3 3 3 3 3 3 3 3 3 3 3	108 101 92 94 94 102 98 60 82 82 6 7 7 7 7 7 8 8 8 8 8 8 8 8
2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2010 January March April July July July September October November December Total 2011 January March April May June June <td< td=""><td>1,448 1,405 1,816 1,917 1,922 1,886 1,927 2,021 1,798 193 167 149 117 118 135 142 152 133</td><td>1,832 1,250 1,449 2,009 1,630 935 752 671 521 55 47 26 24 24 28 24 28 26 59 46 59 46 27</td><td>79 74 58 72 68 70 66 67 77 7 7 7 7 6 6 6 8 9 9 7</td><td>25 26 29 34 36 31 36 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3</td><td>25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,220 2,010 1,898 2,122 2,194 1,941</td><td>26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,128 1,128 1,021 817 761 761 835 883 883 849</td><td>1,310 1,240 1,144 1,191 1,084 1,115 1,050 955 990 80 80 84 79 90 80 84 91 95</td><td>248 245 253 295 264 277 268 239 204 17 15 18 18 18 18 18 18 18 19</td><td>1,054 1,136 1,097 1,193 1,166 1,216 1,148 1,084 955 86 86 83 88 83 83 85 88 88 88</td><td>27 34 34 33 33 36 35 35 35 35 35 35 35 35 35 35 35 35 33 3 3 3 3 3 3 3</td><td>101 92 103 94 102 98 60 82 6 7 7 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8</td></td<>	1,448 1,405 1,816 1,917 1,922 1,886 1,927 2,021 1,798 193 167 149 117 118 135 142 152 133	1,832 1,250 1,449 2,009 1,630 935 752 671 521 55 47 26 24 24 28 24 28 26 59 46 59 46 27	79 74 58 72 68 70 66 67 77 7 7 7 7 6 6 6 8 9 9 7	25 26 29 34 36 31 36 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3	25,755 26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,220 2,010 1,898 2,122 2,194 1,941	26,817 25,163 26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,128 1,128 1,021 817 761 761 835 883 883 849	1,310 1,240 1,144 1,191 1,084 1,115 1,050 955 990 80 80 84 79 90 80 84 91 95	248 245 253 295 264 277 268 239 204 17 15 18 18 18 18 18 18 18 19	1,054 1,136 1,097 1,193 1,166 1,216 1,148 1,084 955 86 86 83 88 83 83 85 88 88 88	27 34 34 33 33 36 35 35 35 35 35 35 35 35 35 35 35 35 33 3 3 3 3 3 3 3	101 92 103 94 102 98 60 82 6 7 7 7 7 7 7 7 7 7 7 7 8 8 8 8 8 8 8
2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2010 January February March April July July July September October Total 2011 January February March April March April March April March April May June July April May July July July July July July September	1,816 1,917 1,922 1,886 1,927 2,021 1,798 193 167 149 117 118 135 142 152 142 133	1,449 2,009 1,630 935 752 671 521 55 47 26 24 28 826 59 46 27	58 72 68 68 70 66 76 7 7 7 6 6 6 8 9 9 7	29 34 36 31 34 36 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	24,846 26,613 25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941	26,212 28,857 27,380 22,706 22,207 13,222 14,228 1,021 817 761 761 764 835 883 883 8849	1,144 1,191 1,084 1,115 1,050 950 990 80 84 79 82 84 91 95	253 295 264 277 268 239 204 17 15 18 18 18 18 18 18 18 19	1,097 1,193 1,166 1,216 1,148 1,148 955 86 83 83 83 83 83 85 88 88	34 24 33 36 35 35 4 4 4 5 3 3 3 3 3 3 3 3 3	103 94 94 102 98 60 82 6 7 7 7 7 7 7 8 8 8 8 8
2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2010 January February March April July July July September October November December Total 2011 January February March April May July July July July July July July July July September	1,917 1,922 1,886 1,927 2,021 1,798 193 167 149 117 118 135 142 152 152 133	2,009 1,630 935 752 671 521 55 47 26 24 28 26 59 46 59 46 27	72 68 68 68 70 66 76 7 7 7 6 6 6 6 8 9 9 7	34 34 36 31 33 33 3 3 3 3 3 3 3 3 3 3 3 3 3 3	26,613 25,875 25,262 22,537 21,902 19,766 9,094 1,978 2,124 2,200 2,010 1,898 2,122 2,194 1,941	28,857 27,380 22,706 22,207 13,222 14,228 1,128 1,128 1,128 1,021 817 761 761 835 883 883 849	1,191 1,084 1,115 1,050 955 990 90 80 84 79 82 84 91 95	295 264 277 268 239 204 17 15 18 18 18 18 18 18 18 18 19	1,193 1,166 1,216 1,148 1,084 955 86 86 83 83 83 83 83 83 83 85 88 88	24 33 33 36 35 35 35 35 35 35 35 3 3 3 3 3	94 94 102 98 60 82 6 7 7 7 7 7 8 8 8 8 8
2005 Total 2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2009 Total 2009 Total 2009 Total 2010 January February March April May June July August September October November December Total 2011 January February March April June September	1,922 1,886 1,927 2,021 1,798 193 167 149 117 118 135 142 152 133	1,630 935 752 671 521 55 47 26 24 28 26 59 46 59 46 27	68 68 70 66 76 7 7 7 7 7 6 6 6 8 9 9 7	34 36 31 34 36 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	25,875 25,262 22,537 21,902 19,766 2,094 1,978 2,124 2,220 2,010 1,898 2,122 2,194 1,941	27,380 22,706 22,207 13,222 14,228 1,021 817 761 796 835 883 883 849	1,084 1,115 1,050 955 990 90 80 84 79 82 84 91 95	264 277 268 239 204 17 15 18 18 18 18 18 18 19	1,166 1,216 1,148 1,084 955 86 79 86 83 83 83 83 85 88 88	34 33 36 35 35 35 4 4 4 3 3 3 3 3 3 3 3	94 102 98 60 82 6 7 7 7 7 8 8 8 8 8 8
2006 Total 2007 Total 2008 Total 2009 Total 2009 Total 2010 January March April June July July October October December Total 2011 January February March April August September October November December Total 2011 January March April May June July August September	1,927 2,021 1,798 193 167 149 117 118 135 142 152 133	752 671 521 55 47 26 24 28 26 59 946 27	70 66 76 7 7 7 7 7 6 6 6 8 9 9 7	31 34 36 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3 3	22,537 21,902 19,766 2,094 1,978 2,124 2,220 2,010 1,898 2,122 2,194 1,941	22,207 13,222 14,228 1,128 1,021 817 761 796 835 883 849	1,050 955 990 80 84 79 82 84 91 95	268 239 204 17 15 18 18 18 18 18 18 17 19	1,148 1,084 955 86 79 86 83 83 83 83 83 83 83 83 85 88 88	36 35 35 4 4 4 5 3 3 3 3 3 3 3 3	98 60 82 7 7 7 7 8 8 8 8 8
2008 Total 2009 Total 2010 January February March April May June July August September October November December Total 2011 January February March April May June July September December December June Juane June June June June June June June June June September	2,021 1,798 193 167 149 117 118 135 142 152 133	671 521 55 47 26 24 28 26 59 46 27	66 76 7 7 6 6 6 8 9 7	34 36 3 3 3 3 4 3 3 3 3 3 3 3 3 3 3 3	21,902 19,766 2,094 1,978 2,124 2,220 2,010 1,898 2,122 2,194 1,941	13,222 14,228 1,128 1,021 817 761 796 835 883 883 849	955 990 80 84 79 82 84 91 95	239 204 17 15 18 18 18 18 18 18 18 18 19	1,084 955 86 83 83 83 85 88 88	35 35 4 4 5 3 3 3 3 3 3 3 3	60 82 7 7 7 7 8 8 8 8
2009 Total 2010 January February March April June July September October October December Total 2011 January February March April May June June July August September Sep	1,798 193 167 149 117 118 135 142 152 133	55 47 26 24 28 26 59 46 27	76 7 7 6 6 6 8 9 7	36 3 3 3 3 4 3 3 3 3 3 3 3 3	19,766 2,094 1,978 2,124 2,220 2,010 1,898 2,122 2,194 1,941	14,228 1,128 1,021 817 761 796 835 883 883 849	90 90 80 84 79 82 84 91 91	204 17 15 18 18 18 18 17 19	955 86 79 86 83 83 83 85 85 88 88	35 4 4 5 3 3 3 3 3 3 3	82 6 7 7 7 7 8 8 8 8
February	167 149 117 118 135 142 152 133	47 26 24 28 26 59 46 27	7 7 6 6 8 9 7	3 3 4 3 3 3 3 3	1,978 2,124 2,220 2,010 1,898 2,122 2,194 1,941	1,021 817 761 796 835 883 849	80 84 79 82 84 91 95	15 18 18 18 18 17 17	79 86 83 83 85 88 88 88	4 5 3 3 3 3	7 7 7 8 8 8 8
March	149 117 118 135 142 152 133	26 24 28 26 59 46 27	7 6 6 8 9 7	3 3 4 3 3 3 3 3	2,124 2,220 2,010 1,898 2,122 2,194 1,941	817 761 796 835 883 849	84 79 82 84 91 95	18 18 18 18 17 19	86 83 83 85 88 88	4 5 3 3 3 3 3	7 7 8 8 8
April May June July August September October November December Total 2011 January February March April June July August September	117 118 135 142 152 133	24 28 26 59 46 27	6 6 8 9 7	3 4 3 3 3 3 3	2,220 2,010 1,898 2,122 2,194 1,941	761 796 835 883 849	79 82 84 91 95	18 18 18 17 19	83 83 85 88 88	5 3 3 3 3 3	7 7 8 8 8
May	118 135 142 152 133	28 26 59 46 27	6 6 8 9 7	4 3 3 3 3	2,010 1,898 2,122 2,194 1,941	796 835 883 849	82 84 91 95	18 18 17 19	83 85 88 88	3 3 3 3	7 8 8 8
July August August September Zotober Zotober Zotober Zotober Zotober Zotober Zotober Zotober Zotal Zotober Zot	142 152 133	59 46 27	8 9 7	3 3 3	2,122 2,194 1,941	883 849	91 95	17 19	88 88	3 3	8 8
August September October November Total 2011 January February March April May June July August September	152 133	46 27	9 7	3 3	2,194 1,941	849	95	19	88	3	8
September October November December Total 2011 January February March April May June July August September	133	27	7	3	1,941						
October November December Total Pebruary March April June July September	124		7		1 059	100	87	18	87	3	
December		21				899	84	17	86	5	8
Total	128 165	22 55	7 8	3	1,854 2,246	924 1,045	82 92	17 19	86 91	5 4	8 8
February March May June August September	1,720	437	86	36	2,240 24,638	10,740	92 1, 029	210	1, 029	47	91 91
March April May June July August September	189	103	7	3	2,082	1,031	90	18	94	4	7
April May June July August September	173	48	6	3	1,800	856	81	18	83	4	7
May June July August September	164 124	26 8	6 6	3	1,891	788 791	82 83	19 18	88 84	4 3	8 8
June July August September	124	12	7	4	1,836	791	87	19	82	3	8
August September	130	9	7	4	1,843	764	88	20	88	3	8
September	145	23	9	4	1,946	714	97	20	90	3	9
	129 122	20 23	9 8	4 4	1,962 1,788	703 762	99 91	20 20	90 88	3 3	8 7
October	110	14	7	4	1,748	830	85	20	86	4	8
November	117	28	7	4	1,712	767	86	19	90	5	8
December Total	139 1,668	19 333	8 87	4 43	1,923 22,319	812 9,610	96 1, 063	20 232	95 1, 057	4 43	8 94
2012 January	162	27	9	4	1,913	1,065	98	21	93	4	4
February	141	20	8	4	1,708	847	90	21	86	4	3
March	135 115	23 16	8 7	4	1,707	1,026 997	90 87	22 21	82 80	4 4	4
April May	115	16	7	3	1,542	997 921	87 93	21	80 87	4	3
June	114	29	8	3	1,634	932	94	21	85	3	4
July	118	38	8	4	1,773	876	101	21	89	4	4
August September	126 116	32 25	8 8	3	1,827 1,613	942 896	98 93	22 19	86 85	4	4
October	115	23	8	4	1,796	989	95	19	85	4	4
10-Month Total	110	254	79	36	17,200	9,491	940	209	858	36	37
2011 10-Month Total 2010 10-Month Total	1,263		72	35	18,683	8,031	881	193	873	34 37	77

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

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

plants. ^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. ^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

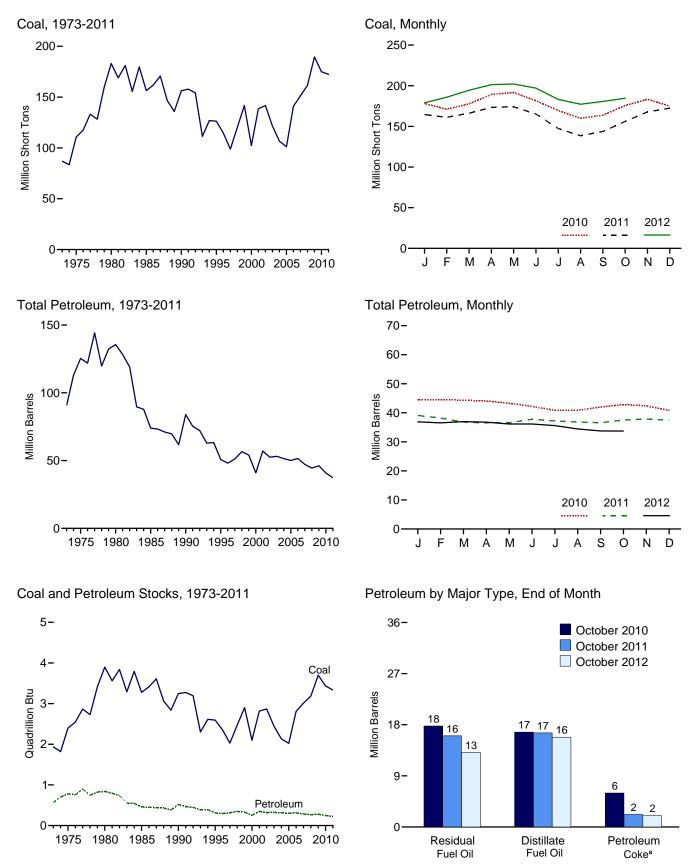
 Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal synfuel.
 ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.
 ^e Natural gas, plus a small amount of supplemental gaseous fuels.
 ^f Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and fired. tire-derived fuels).

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

^h Wood and wood-derived fuels.
 ⁱ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
 Notes: • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1989.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1989. Sources: • **1989-1997**: U.S. Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • **1998-2000**: EIA, Form EIA-860B, "Annual Electric Generator Report.— Nonutility." • **2001-2003**: EIA, Form EIA-906, "Power Plant Report." • **2004-2007**: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • **2008 forward:** EIA, Form EIA-923, "Power Plant Operations Report."

Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector



^a Converted from short tons to barrels by multiplying by 5. Web Page: http://www.eia.gov/totalenergy/data/monthly/#electricity.

				Petroleum		
	Coala	Distillate Fuel Oilb	Residual Fuel Oilc	Other Liquids ^d	Petroleum Coke ^e	Total ^e
	Thousand Short Tons		Thousand Barrels		Thousand Short Tons	Thousand Barrel
973 Year	86,967	10.095	79,121	NA	312	90,776
975 Year		16,432	108.825	NA	31	125.413
980 Year		30,023	105,351	NA	52	135,635
985 Year		16.386	57.304	NA	49	73.933
990 Year		16,471	67,030	NA	94	83,970
995 Year		15,392	35.102	NA	65	50.821
1996 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	559	56,591
		17,995		NA	372	
999 Year [†]	141,004		34,256	NA		54,109
000 Year	102,296	15,127	24,748		211 390	40,932
001 Year	138,496	20,486	34,594	NA		57,031
002 Year		17,413	25,723	800	1,711	52,490
003 Year	121,567	19,153	25,820	779	1,484	53,170
2004 Year		19,275	26,596	879	937	51,434
2005 Year		18,778	27,624	1,012	530	50,062
2006 Year	140,964	18,013	28,823	1,380	674	51,583
2007 Year	151,221	18,395	24,136	1,902	554	47,203
2008 Year	161,589	17,761	21,088	1,955	739	44,498
009 Year	189,467	17,886	19,068	2,257	1,394	46,181
010 January	178,091	17,193	18,035	2,198	1,406	44,454
February		17,409	18,532	2,222	1,280	44,562
March	177,742	17,353	18,679	2,105	1,240	44,337
April	189,260	17,295	18.353	2.228	1,243	44,090
May		17,185	17,935	2,235	1,188	43,294
June		17.040	17.411	2,172	1,117	42.209
July		16,917	16.441	2,268	1.046	40.856
August		16,737	16,288	2,292	1.112	40,878
September		16.608	17,269	2,330	1,158	41.996
October		16.698	17,209	2,330	1,156	41,990
				2,377	1,197	
November	183,389	17,024	17,492			42,414
December	174,917	16,758	16,629	2,319	1,019	40,800
011 January		16,613	16,012	2,492	799	39,111
February		16,565	15,552	2,545	707	38,198
March		16,367	15,405	2,546	495	36,794
April		16,153	15,181	2,561	526	36,525
May		15,997	15,209	2,539	563	36,558
June		16,379	16,359	2,601	496	37,820
July		16,170	16,111	2,622	463	37,218
August		16,162	15,843	2,631	437	36,822
September		16,311	15,726	2,628	385	36,593
October		16,567	16,044	2,681	440	37,495
November	167,754	16,729	15,964	2,744	494	37,906
December	172,387	16,649	15,491	2,707	508	37,387
012 January		16,712	15,232	2,735	443	36,893
February		16,532	15,121	2,778	420	36,532
March		16,423	15,244	2,815	500	36,984
April		16,325	15,082	2.856	507	36,795
May		16,232	14,747	2,872	459	36,147
June		16,152	14,500	2,900	519	36,145
July		16,581	13,728	2,900	474	35,617
		16.023	13,728	2,941	474 413	35,617
August						
September		15,920	13,317	2,748	358	33,773
October	184,661	15,813	13,148	2,774	398	33,725

Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector

^a Anthracite, bituminous coal, subbituminous coal, and lignite. ^b Fuel oil nos. 1, 2 and 4. For 1973-1979, data are for gas turbine and internal combustion plant stocks of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel. ^c Fuel oil nos. 5 and 6. For 1973-1979, data are for steam plant stocks of petroleum. For 1980-2000, electric utility data also include a small amount of fuel oil no. 4

oil no. 4. d Jet fuel and kerosene. Through 2003, data also include a small amount of waste oil.

⁶ 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. Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Stocks

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

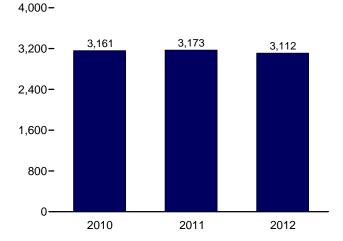
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#electricity for all available data beginning in 1973.

available data beginning in 1973. Sources: • 1973-September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • October 1977-1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • 1982-1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report," and Form EIA-867, "Annual Nonutility Power Producer Report." • 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-920, "Power Plant Operations Report." EIA-923, "Power Plant Operations Report."

Figure 7.6 Electricity End Use (Billion Kilowatthours)

Electricity End Use Overview, 1989-2011

5,000-4,000-Total 3,000-Retail Sales^a 2,000-1,000 -Direct Useb 0 -1995 2000 2005 2010 1990 Retail Sales^a by Sector, 1973-2011 1,500-Residential, Industrial 1,000-Commercial 500 Transportation⁶ 1975 1980 1985 1990 1995 2000 2005 2010

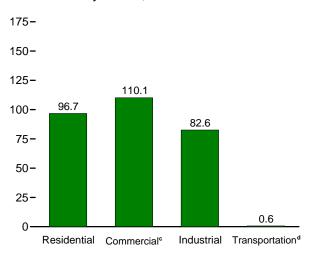


Retail Sales^a Total, January-October

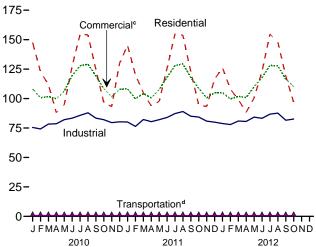
 ^a Electricity retail sales to ultimate customers reported by utilities and other energy service providers.
 ^b See "Direct Use" in Glossary.

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

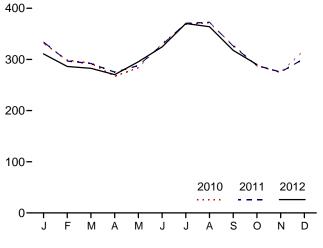
Retail Sales^a by Sector, October 2012



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.

Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Sales ^a					Discont Retail Sale	
	Residential	Commercial ^b	Industrial ^c	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use ^g	Commercial (Old) ^h	Other (Old) ⁱ
973 Total	579,231	^E 444,505	686,085	^E 3.087	1,712,909	NA	1,712,909	388,266	59,326
975 Total	588,140	E 468,296	687,680	^E 2,974	1,747,091	NA	1,747,091	403,049	68,222
980 Total	717,495	558,643	815,067	3,244	2,094,449	NA	2,094,449	488,155	73,732
985 Total	793,934	689,121	836,772	4,147	2,323,974	NA	2,323,974	605,989	87,279
990 Total	924,019	838,263	945,522	4,751	2,712,555	124,529	2,837,084	751,027	91,988
995 Total	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,407
996 Total	1,082,512	980,061	1,033,631	4,923	3,101,127	152,638	3,253,765	887,445	97,539
997 Total	1,075,880	1,026,626	1,038,197	4,907	3,145,610	156,239	3,301,849	928,633	102,901
998 Total	1,130,109	1,077,957	1,051,203	4,962	3,264,231	160,866	3,425,097	979,401	103,518
999 Total	1,144,923	1,103,821	1,058,217	5,126	3,312,087	171,629	3,483,716	1,001,996	106,952
000 Total	1,192,446	1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	109,496
001 Total	1,201,607	1,190,518	996,609	5,724	3,394,458	162,649	3,557,107	1,083,069	113,174
002 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,552
003 Total	1,275,824	1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029		
004 Total	1,291,982	1,230,425	1,017,850	7,224	3,547,479	168,470	3,715,949		
005 Total	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984		
006 Total	1,351,520	1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845		
007 Total	1,392,241	1,336,315	1,027,832	8,173	3,764,561	125,670	3,890,231		
008 Total	1,379,981	1,335,981	1,009,300	7,700	3,732,962	132,197	3,865,159		
009 Total	1,364,474	1,307,168	917,442	7,781	3,596,865	126,938	3,723,803		
10 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 Total	130,015 1,445,708	108,031 1,330,199	80,264 970,873	633 7,712	318,943 3,754,493	^E 11,725 131,910	330,668 3,886,403		
	145,054	108,243	80,077	710	334,084	E 11,245	345,329		
D11 January	120,121	99,789	76,332		296,879	E 10,042	306,922		
February March	104.921	99,789 104.263	82,196	637 664	296,879	E 10,398	302,442		
April	93,700	104,203	80.356	629	292,044	E 10,380	285,570		
May	97,688	100,505	82,095	619	288,026	E 10,681	298,707		
June	125,983	118,169	83,941	643	328,736	E 11,181	339,917		
July	154,729	128,063	87,245	650	370,686	E 12,136	382,822		
August	153,739	129,371	89.014	625	372,749	E 12,292	385,041		
September	122,720	117,951	84,959	634	326,263	E 11,199	337,462		
October	94,585	108,655	84,287	616	288,144	E 10,504	298,647		
November	93.220	100,552	80.858	590	275,220	E 10,888	286,108		
December	116.341	104.873	79.956	656	301.826	E 11.808	313.634		
Total	1,422,801	1,328,057	991,316	7,672	3,749,846	132,754	3,882,600		
012 January	126,208	105,118	78,821	666	310,813	E 11.702	322,515		
February	107,951	99,682	77,898	646	286,177	E 11,014	297,191		
March	99,153	101.930	80.911	619	282.613	E 10.750	293,363		
April	88,300	100,839	80,604	604	270,348	E 10,366	280,713		
May	100,478	110,062	84,273	606	295,420	E 11,258	306,678		
June	122,992	117,651	83,202	610	324,455	E 11,252	335,708		
July	154,649	128,157	86,762	642	370,210	E 12,216	382,426		
August	147.991	127,713	87,629	650	363,984	E 11,869	375,853		
September	119,201	116,483	81,560	628	317,873	E 11.073	328,945		
October	96,707	110,111	82,600	619	290,037	_ ^E 11,108	301,144		
10-Month Total	1,163,630	1,117,747	824,262	6,291	3,111,929	^E 112,607	3,224,536		
011 10-Month Total	1,213,240	1,122,633	830,501	6,427	3,172,800	^E 110,058	3,282,858		

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

^a Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers.
 ^b Commercial sector, including public street and highway lighting, interdepartmental sales, and other sales to public authorities.
 ^c Industrial sector. Through 2002, excludes agriculture and irrigation; beginning in 2003, includes agriculture and irrigation.
 ^d Transportation sector, including yales to railroads and railways.
 ^e The sum of "Residential," "Commercial," "Industrial," and "Transportation."
 ^f Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.
 ^g The sum of "Total Retail Sales" and "Direct Use."

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

¹ "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.doc.

Table 7.1 Sources

Net Generation, Electric Power Sector Table 7.2b.

Net Generation, Commercial and Industrial Sectors Table 7.2c.

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

1973–September 1977: Unpublished Federal Power Commission data.

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

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

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

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

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

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

Imports and Exports, Electricity Trade with Canada, 1990 Forward

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

Imports and Exports, Electricity Trade with Mexico, 1990 Forward

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

T&D Losses and Unaccounted for

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

End Use

Table 7.6.

Table 7.2b Sources

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

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

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

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

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

2001–2003: EIA, Form EIA-906, "Power Plant Report."

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

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

Table 7.2c Sources

Industrial Sector, Hydroelectric Power, 1973–1988 1973–September 1977: Federal Power Commission (FPC), Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and FPC, Form FPC-12C, "Industrial Electric Generating Capacity," for all other plants.

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

1979: FERC, Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and U.S. Energy Information Administration (EIA) estimates for all other plants. 1980–1988: Estimated by EIA as the average generation over the 6-year period of 1974–1979.

All Data, 1989 Forward

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

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

2001–2003: EIA, Form EIA-906, "Power Plant Report."

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

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

Table 7.3b Sources

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

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

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

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

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

2001-2003: EIA, Form EIA-906, "Power Plant Report."

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

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

Table 7.4b Sources

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

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

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

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

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

2001–2003: EIA, Form EIA-906, "Power Plant Report."

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

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

Table 7.6 Sources

Retail Sales, Residential and Industrial

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

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

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

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

1998 forward: EIA, *Electric Power Monthly*, December 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/state/seds/sep_use/notes/use_elec.pdf.

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

Direct Use, Annual

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

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

2011: EIA, Form EIA-923, "Power Plant Operations Report."

Direct Use, Monthly

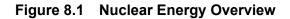
Annual shares are calculated as annual direct use divided by annual commercial and industrial net generation (on Table 7.1). Then monthly direct use estimates are calculated as the annual share multiplied by the monthly commercial and industrial net generation values. For 2012, the 2011 annual share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

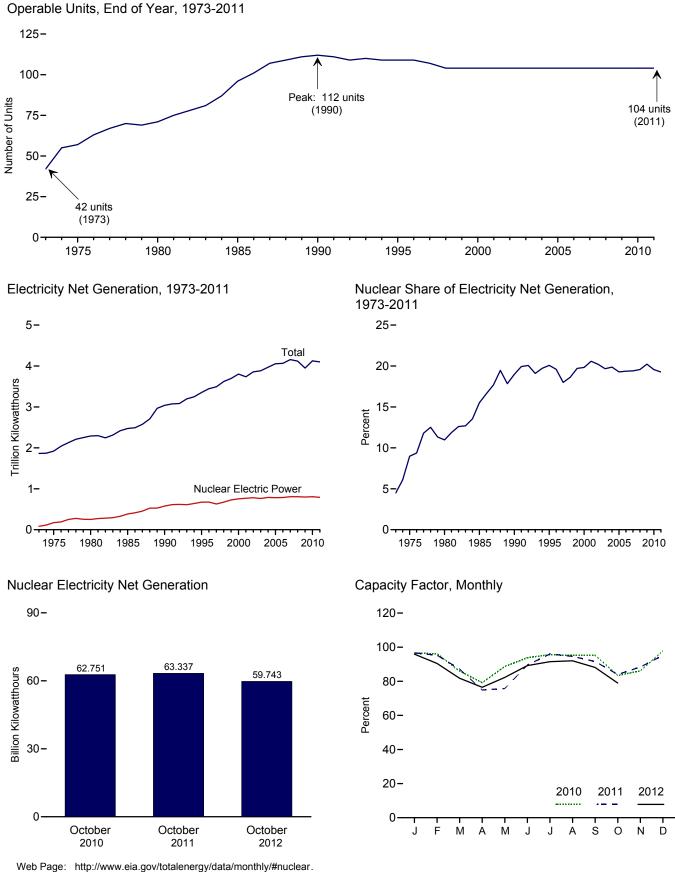
Discontinued Retail Sales Series Commercial (Old) and Other (Old)

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

THIS PAGE INTENTIONALLY LEFT BLANK

8. Nuclear Energy





Sources: Tables 7.2a and 8.1.

	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		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
90 Total	112	99.624	576,862	19.0	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
999 Total	104	97.411	728,254	19.7	85.3
00 Total	104	97.860	753,893	19.8	88.1
01 Total	104	98.159	768,826	20.6	89.4
02 Total	104	98.657	780,064	20.2	90.3
03 Total	104	99.209	763,733	19.7	87.9
04 Total	104	99.628	788,528	19.9	90.1
05 Total	104	99.988	781,986	19.3	89.3
06 Total	104	100.334	787,219	19.4	89.6
007 Total	104	100.266	806.425	19.4	91.8
008 Total	104	100.755	806.208	19.6	91.1
009 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
Mav	104	E 101.063	66.658	20.3	E 88.7
					E 93.8
June	104	E 101.094	68,301	18.2	
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
011 January	104	^E 101.167	72,743	20.0	E 96.6
February	104	^E 101.167	64,789	20.7	E 95.3
March	104	E 101.167	65,662	20.6	E 87.2
April	104	E 101.167	54,547	18.0	E 74.9
May	104	E 101.167	57.013	17.6	E 75.7
June	104	E 101.281	65.270	17.7	E 89.5
	104	E 101.281	72,345	17.3	E 96.0
July	104	^E 101.351			E 94.6
August		^E 101.351	71,339	17.5	^E 94.6
September	104		66,849	19.8	
October	104	E 101.351	63,337	20.5	E 84.0
November	104	E 101.351	64,474	21.2	E 88.4
December	104	101.419	71,837	21.4	95.2
Total	104	101.419	790,204	19.3	89.1
12 January	104	E 101.419	72,381	21.2	^E 95.9
February	104	E 101.419	63,847	20.6	E 90.5
March	104	E 101.419	61,729	20.0	^E 81.8
April	104	^E 101.419	55,871	18.9	^E 76.5
May	104	E 101.442	62,081	18.4	E 82.3
June	104	E 101.442	65,140	18.0	E 89.2
July	104	E 101.564	69.129	16.6	E 91.5
August	104	E 101.673	69.602	17.6	E 92.0
	104	E 101.673	64,511	19.3	E 88.1
September					
October 10-Month Total	104 104	^E 101.673 ^E 101.673	59,743 644,035	19.1 18.9	^E 79.0 ^E 86.7
11 10-Month Total	104 104	[⊑] 101.351 [⊑] 101.104	653,893	18.9	^E 88.5 ^E 91.0

^a Total of nuclear generating units holding full-power licenses, or equivalent permission to operate, at end of period. See Note 1, "Operable Nuclear Reactors," at end of section. For additional information on nuclear generating units, see *Annual Energy Review 2011*, September 2012, Table 9.1, http://www.eia.gov/totalenergy/data/annual/#nuclear.
 ^b At end of period.
 ^c Ferst the definition of "Not Summar Canacity." see Note 2. "Nuclear Canacity."

^c For the definition of "Net Summer Capacity," see Note 2, "Nuclear Capacity," at end of section. $^{\rm d}$ For an explanation of the method of calculating the capacity factor, see Note

2, "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

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.

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.

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.

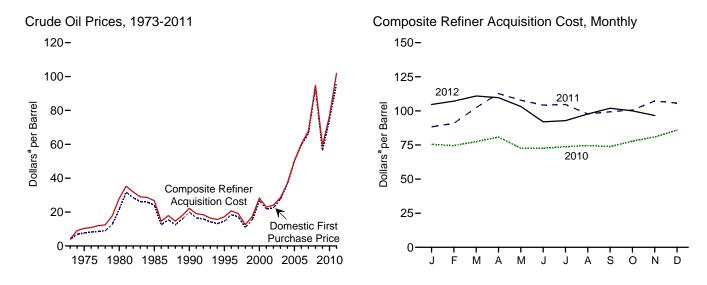
Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation

See Table 7.2a.

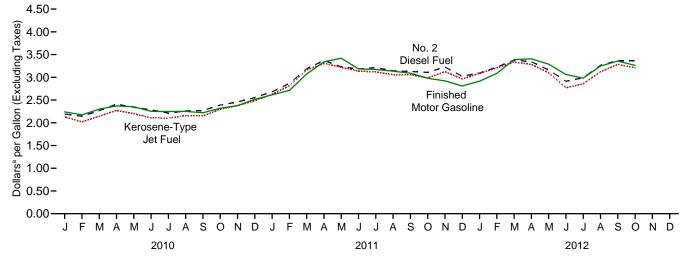
Capacity Factor

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

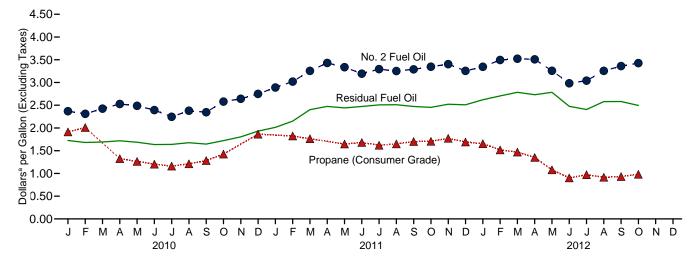
9. Energy Prices



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



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



^aPrices are not adjusted for inflation. See "Nominal Dollars" in Glossary. Web Page: http://www.eia.gov/totalenergy/data/monthly/#prices. Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Dollars^a per Barrel)

	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
975 Average	21.59	32.37	33.67	24.23	33.89	28.07
980 Average						
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
						22.95
001 Average	21.84	20.46	21.82	24.33	22.00	
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
009 Average	50.55	57.76	00.23	59.49	59.17	59.29
010 January	72.89	72.96	74.78	76.04	75.07	75.48
February	72.74	71.50	75.01	75.91	73.73	74.58
March	75.77	75.41	77.65	78.52	76.77	77.43
April	78.80	78.27	79.34	82.12	80.03	80.83
May	70.90	69.21	72.00	75.23	71.15	72.66
June	70.77	70.17	72.62	73.93	71.91	72.66
	71.37	71.01	73.43	74.54	73.25	73.73
July						
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
	85.66	86.80	89.61	88.73	87.99	88.28
D11 January				89.50		90.85
February	86.69	92.07	94.25		91.72	
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
Мау	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	101.92	102.55	106.69	107.67	107.28
December	98.71	103.09	105.62	104.51	106.52	105.69
Average	95.73	101.68	102.99	100.74	102.70	101.93
012 January	98.99	103.96	105.27	103.97	105.25	104.70
February	102.05	108.56	109.24	105.93	108.08	107.18
March	105.42	110.72	110.68	110.80	111.00	110.92
April	103.62	107.17	107.58	111.26	108.53	109.70
May	95.57	100.79	101.56	103.17	103.26	103.23
June	83.59	87.89	91.90	91.66	92.18	91.96
July	86.10	92.50	93.66	92.64	92.98	92.83
August	92.53	^R 99.63	^R 98.70	98.58	97.07	97.71
September	95.98	^R 100.79	^R 100.83	102.17	101.82	101.97
October	^R 92.26	^R 98.86	^R 99.65	^R 99.07	^R 100.92	R 100.02
November	NA	NA	NA	E 95.82	E 97.17	E 96.63

^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 F.O.B. Costs," at end of section.
 ^d See Note 3, "Crude Oil Landed Costs," at end of section. b

f

Based on October, November, and December data only.

R=Revised. NA=Not available. E=Estimate. Notes: • Values for Domestic First Purchase Price and Refiner Acquisition Cost for the current two months and for F.O.B. and Landed Costs of Imports for the

current three months are preliminary. . F.O.B. and landed costs through 1980 chief the period of reporting; prices since then reflect the period of loading.
Annual averages are the averages of the monthly prices, weighted by volume.
Geographic coverage is the 50 States, the District of Columbia, Puerto Rico, the Virgin Islands, and all U.S. Territories and Possessions.

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

Sources: See end of section.

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

(Dollars^a per Barrel)

			Se	elected Counti	ries	1		Persian		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC
973 Average ^d	w	w	_	7.81	3.25	_	5.39	3.68	5.43	4.80
975 Average	10.97	-	11.44	11.82	10.87	-	11.04	10.88	11.34	10.62
980 Average	33.45	w	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
985 Average	26.30	-	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
990 Average	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
995 Average	16.58	16.73	15.64	17.40	w	16.94	13.86	w	15.36	16.02
996 Average	20.71	21.33	19.14	21.27	19.28	19.43	17.73	19.22	18.94	19.65
997 Average	18.81	18.85	16.72	19.43	15.16	18.59	15.33	15.24	16.26	17.51
998 Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
999 Average	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
000 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
001 Average	23.25	24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
002 Average	24.09	24.64	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
003 Average	28.22	28.89	24.83	29.40	25.03	28.76	23.81	25.17	25.36	26.21
004 Average	37.26	37.73	31.55	38.71	34.08	37.30	31.78	33.08	33.95	33.58
005 Average	52.48	51.89	43.00	55.95	47.96	54.48	46.39	47.21	49.60	45.79
006 Average	62.23 67.80	59.77 67.93	52.91 61.35	65.69 76.64	56.09 W	66.03 69.96	55.80 64.10	56.02 69.93	59.18 69.58	55.35 62.69
007 Average 008 Average	95.66	91.17	84.61	102.06	93.03	96.33	88.06	91.44	93.15	87.15
009 Average	57.07	57.90	56.47	64.61	57.87	65.63	55.58	59.53	58.53	57.16
tos Average	57.07	57.50	50.47	04.01	57.07	05.05	55.50	33.33	30.33	57.10
010 January	74.62	70.08	72.96	75.91	W	_	70.86	W	73.42	72.49
February	W	68.70	69.16	76.07	W	-	68.83	71.89	71.77	71.14
March	78.11	73.90	72.76	81.27	W	-	70.88	76.10	75.83	74.91
April	84.40	74.85	75.57	85.94	W	W	72.59	80.01	78.88	77.73
May	71.86	64.32	68.30	74.28	W	-	66.37	73.60	70.45	68.24
June	72.90	67.19	67.64	75.61	W	-	66.19	72.49	71.39	69.20
July	74.77	70.00	68.53	79.63	W	-	67.25	71.76	72.16	69.87
August	77.11	69.88	69.53	75.70	W	W	68.27	72.79	72.38	70.35
September	W	69.71	69.90	80.93	74.06	-	67.59	73.34	73.24	70.24
October	W	76.06	73.93	84.59	W	-	72.10	78.28	77.55	73.80
November	85.99	78.92	77.14	86.61	W	-	75.03	80.99	80.95	78.49
December Average	W 78.18	81.62 72.56	81.75 72.46	93.68 80.83	W 76.44	w	77.78 70.30	W 75.65	85.72 75.23	82.40 73.24
011 January	95.97	83.36	84.36	99.86	W	-	81.25	W	89.74	83.92
February	W	87.23	88.77	109.07	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	115.13 114.80	102.78 100.30	103.43 104.84	119.13 119.68	W	_	100.59 100.62	106.39 109.06	108.22 110.09	100.42 100.90
July	114.60 W	95.01	98.21	115.61	Ŵ	_	97.17	109.06	104.19	93.57
August September	vv 112.49	95.01 97.45	98.21	115.61	109.99	_	97.17 95.72	106.98	104.19	93.57 97.08
October	109.74	102.37	100.28	114.46	109.99 W	_	96.93	105.62	105.82	97.08
November	112.49	106.97	107.94	115.35	Ŵ	_	105.44	106.51	108.16	104.17
December	111.26	103.10	105.96	W	Ŵ	_	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
40	111 10	400.00	407 70	44440	14/		405.00	407.54	407.54	404.40
12 January	111.10 121.45	106.69 114.47	107.79 110.14	114.12 124.31	W	_	105.08 110.37	107.51 111.12	107.51 113.85	101.40 103.42
February	121.45 W	114.47	114.81	124.31	W	_	112.76	118.06	113.65	103.42
March April	118.84	114.06	110.54	128.10 W	Ŵ	_	109.33	115.02	113.85	104.75
May	110.79	101.27	103.12	110.79	Ŵ	_	109.33	105.16	105.28	96.74
June	95.65	91.81	90.60	98.96	91.90	_	87.64	90.55	90.63	85.28
July	93.03 W	96.83	95.03	103.86	W 81.50	_	93.81	95.47	96.30	88.45
August	ŵ	106.16	101.12	114.62	Ŵ	_	99.94	104.87	104.18	^R 95.13
September	ŵ	^R 108.59	^R 102.49	112.11	107.16	_	^R 101.00	^R 105.59	^R 104.41	^R 97.73
October	ŵ	105.46	99.10	W	W	_	98.07	W	101.26	96.98

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. ^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia). ^c See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973–2008, also includes Indonesia; for 1973–1992 and again beginning in 2008, also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974–1995, also includes Gabon (although Gabon was a member of OPEC for only 1975–1994); and beginning in 2007, also includes Angola. Data for all countries not included in and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC." ^d Based on October, November, and December data only. R=Revised. – =No data reported. W=Value withheld to avoid disclosure of individuel personandary.

individual company data.

Notes: • The Free on Board (F.O.B.) cost at the country of origin excludes all costs related to insurance and transportation. See "F.O.B." in Glossary, and Note 3, "Crude Oil F.O.B. Costs," at end of section. • Values for the current two months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements where the actual ourspace not published. whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported. • U.S. geographic coverage is the 50 States and the District of Columbia.

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

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollars^a per Barrel)

				Selected	Countries						
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC ^c
1973 Average ^d	w	5.33	w	_	9.08	5.37	_	5.99	5.91	6.85	5.64
1975 Average	11.81	12.84	-	12.61	12.70	12.50	-	12.36	12.64	12.70	12.70
1980 Average	34.76	30.11	w	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
1985 Average	27.39	25.71	-	25.63	28.96	24.72	28.36	24.43	25.50	26.86	26.53
1990 Average	21.51	20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
1995 Average	17.66	16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
1996 Average	21.86	19.94	22.02	19.64	21.95	20.49	20.88	18.59	20.45	20.14	20.47
1997 Average	20.24	17.63	19.71	17.30	20.64	17.52	20.64	16.35	17.44	17.73	18.45
1998 Average	13.37	11.62	13.26	11.04	14.14	11.16	13.55	10.16	11.18	11.46	12.22
1999 Average	18.37 29.57	17.54 26.69	18.09 29.68	16.12 26.03	17.63 30.04	17.48 26.58	18.26 29.26	15.58 26.05	17.37 26.77	16.94 27.29	17.51 27.80
2000 Average 2001 Average	25.13	20.09	25.88	19.37	26.55	20.58	25.32	19.81	20.77	21.52	22.17
2001 Average	25.43	22.98	25.28	22.09	26.45	24.77	26.35	21.93	24.13	23.83	23.97
2003 Average	30.14	26.76	30.55	25.48	31.07	27.50	30.62	25.70	27.54	27.70	27.68
2003 Average	39.62	34.51	39.03	32.25	40.95	37.11	39.28	33.79	36.53	36.84	35.29
2005 Average	54.31	44.73	53.42	43.47	57.55	50.31	55.28	47.87	49.68	51.36	47.31
2006 Average	64.85	53.90	62.13	53.76	68.26	59.19	67.44	57.37	58.92	61.21	57.14
2007 Average	71.27	60.38	70.91	62.31	78.01	70.78	72.47	66.13	69.83	71.14	63.96
2008 Average	98.18	90.00	93.43	85.97	104.83	94.75	96.95	90.76	93.59	95.49	90.59
2009 Average	61.32	57.60	58.50	57.35	68.01	62.14	63.87	57.78	62.15	61.90	58.58
2010 January	77.32	72.59	74.26	73.23	78.58	76.63	77.97	72.63	76.34	75.91	73.59
February	79.06	73.37	73.11	69.48	79.25	77.29	77.84	70.91	77.27	76.24	73.33
March	80.93	76.82	76.08	73.07	83.68	77.57	79.07	72.92	77.55	78.40	76.84
April	82.26	78.36	76.33	75.03	86.80	79.53	80.25	75.21	79.15	80.07	78.61
May	74.80	69.16	66.52	68.71	76.90	77.52	W	68.53	76.20	73.95	70.20
June	76.54	69.14	69.64	68.02	78.14	76.01	77.67	68.30	75.14	74.55	70.92
July	77.20	70.25	71.61	69.31	81.07	75.46	76.60	69.59	74.75	74.81	72.03
August	78.40	70.10	71.49	69.95	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 Average	91.77 80.63	80.76 72.80	82.76 74.25	82.37 72.86	95.44 83.15	90.45 79.25	92.50 80.12	80.79 72.43	89.99 78.58	89.25 78.27	83.97 74.67
-	00.50	04.40	05.00	05.00	404.04	00 50	14/	04.70	00 57	04.00	05.00
2011 January	99.58 110.07	81.43 80.65	85.88 90.14	85.00	101.24 108.94	96.59 103.20	W	84.70 89.88	96.57 101.81	94.03 99.96	85.02 89.03
February March	114.40	89.32	105.74	89.08 103.03	106.94	110.12	118.42	101.22	109.56	99.96 109.23	101.20
April	124.01	99.26	112.47	110.55	126.47	116.12	124.67	107.95	115.18	116.64	101.20
May	116.76	98.29	109.70	105.62	119.95	112.19	W	107.95	111.48	111.90	105.06
June	116.73	92.36	104.31	103.71	120.81	110.00	Ŵ	102.32	108.97	109.87	100.83
July	117.98	91.76	101.35	105.38	121.80	111.06	Ŵ	103.04	110.19	111.58	100.38
August	113.36	84.05	95.08	98.78	115.83	109.38	Ŵ	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	115.65	95.74	106.64	106.31	117.10	108.27	W	108.02	107.53	109.63	102.52
Average	114.05	90.03	102.53	101.22	116.40	108.81	118.35	100.14	108.06	107.85	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	121.40	92.14	115.19	111.24	126.42	114.73	W	111.72	114.22	115.76	103.02
March	128.35	88.73	119.93	115.20	130.46	117.55		114.29	117.14	118.26	103.98
April	120.60	85.55	113.78	111.55	124.06	115.65	W	110.58	115.98	116.21	99.94
May	114.94	82.78	105.04	103.79	113.89	108.39	W	103.02	108.52	108.26	95.20
	103.10	78.11	93.85	90.89	103.24	99.38		89.41	99.24	97.29	87.15
July	106.95	75.62 ^R 80.68	97.70	95.24	106.95	99.00 ^R 104.74	W	94.91 ^R 101.38	99.02 ^R 104.40	99.48 ^R 105.29	88.10 ^R 92.29
August	113.27 ^R 116.36	^R 80.68	105.94 ^R 109.19	101.98 ^R 103.16	114.51 ^R 115.81	^R 104.74 ^R 107.63	_	^R 101.38 ^R 102.97	^R 104.40 ^R 106.95	^R 105.29 ^R 107.10	^R 92.29
September October	114.70	88.44	106.58	99.51	118.84	107.63	w	99.26	106.95	105.19	95.49
	114.70	00.44	100.00	33.51	110.04	100.72	vv	33.20	100.45	105.13	30.01

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 ^c See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary.
 On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973–2008, also includes Indonesia; for 1973–1992 and again beginning in 2008, also includes Ecuador (although Ecuador reinined OPEC) also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974–1995, also includes Gabon (although Gabon was a member of OPEC for conly 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. Notes: • See "Landed Costs" in Glossary, and Note 4, "Crude Oil Landed

Costs," at end of section. • Values for the current two months are preliminary. • Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices buve here determined and reported. • LIS constrained prices using the formation of the time the crude oil is acquired for the formation of the time the crude oil is acquired for the formation of the time the crude oil is acquired for the formation of the time the crude oil is acquired for the formation of the time the crude oil is acquired for the formation of the time the crude oil is acquired for the time the formation of the time the crude oil is acquired for the time the crude oil is acquired for the time the crude oil is acquired for the crude oil to the time the time the crude oil to the time the crude oil to the time the time the crude oil to the time the time the crude oil to the time the crude oil to the time the crude oil to the time the time the crude oil to th

into the United States, are not included in the published data until the actual prices have been determined and reported.
 U.S. geographic coverage is the 50 States and the District of Columbia.
 Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973.
 Sources: • October 1973-September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." • October 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, January 2013, Table 22.

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

(Dollars^a per Gallon, Including Taxes)

	Leaded Regular	Unleaded Regular	Unleaded Premium ^b	All Types ^c
22 4	0.000	NA		NA
73 Average	0.388	NA	NA	NA
75 Average	0.567	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
	NA	1.059	1.250	1.115
98 Average				
99 Average	NA	1.165	1.357	1.221
00 Average	NA	1.510	1.693	1.563
01 Average	NA	1.461	1.657	1.531
02 Average	NA	1.358	1.556	1.441
03 Average	NA	1.591	1.777	1.638
04 Average	NA	1.880	2.068	1.923
	NA	2.295	2.000	2.338
05 Average				
06 Average	NA	2.589	2.805	2.635
07 Average	NA	2.801	3.033	2.849
008 Average	NA	3.266	3.519	3.317
09 Average	NA	2.350	2.607	2.401
10 January	NA	2.731	2.987	2.779
February	NA	2.659	2.922	2.709
March	NA	2.780	3.035	2.829
April	NA	2.858	3.113	2.906
Мау	NA	2.869	3.124	2.915
June	NA	2.736	3.000	2.783
July	NA	2.736	2.997	2.783
August	NA	2.745	3.015	2.795
September	NA	2.704	2.968	2.754
October	NA	2.795	3.055	2.843
November	NA	2.852	3.109	2.899
December	NA	2.985	3.234	3.031
Average	NA	2.788	3.047	2.836
11 January	NA	3.091	3.345	3.139
February	NA	3.167	3.424	3.215
March	NA	3.546	3.807	3.594
April	NA	3.816	4.074	3.863
May	NA	3.933	4.192	3.982
June	NA	3.702	3.972	3.753
July	NA	3.654	3.915	3.703
August	NA	3.630	3.893	3.680
September	NA	3.612	3.887	3.664
	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
March	NA	3.868	4.138	3.918
April	NA	3.927	4.194	3.976
•				
May	NA	3.792	4.062	3.839
June	NA	3.552	3.825	3.602
July	NA	3.451	3.726	3.502
August	NA	3.707	3.991	3.759
September	NA	3.856	4.140	3.908
October	NA	3.786	4.079	3.839
November	NA	3.488	3.782	3.542
December	NA	3.331	3.626	3.386
Average	NA	3.644	3.922	3.695

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

^b The 1981 average (available in Web file) is based on September through

December data only. ^c Also includes types of motor gasoline not shown separately. NA=Not available.

Notes: • See Note 5, "Motor Gasoline Prices," at end of section. • In September 1981, the Bureau of Labor Statistics changed the weights used in the calculation of average motor gasoline prices. From September 1981 forward, gasohol is included in the average for all types, and unleaded premium is weighted

more heavily. • Geographic coverage for 1973-1977 is 56 urban areas. Geographic coverage for 1978 forward is 85 urban areas.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1973. Sources: • Monthly Data: U.S. Department of Labor, Bureau of Labor

Statistics, Consumer Prices: Energy. • Annual Data: 1973—Plat's Oil Price Handbook and Oilmanac, 1974, 51st Edition. 1974 forward—calculated by the U.S. Energy Information Administration as the simple averages of monthly data.

Table 9.5 Refiner Prices of Residual Fuel Oil

(Dollars^a per Gallon, Excluding Taxes)

	Residual Fuel Oil Sulfur Content Less Than or Equal to 1 Percent		Sulfur	Il 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	
	0.472	0.505	0.372	0.400	0.413	0.444	
990 Average							
995 Average	0.383	0.436	0.338	0.377	0.363	0.392	
996 Average	0.456	0.526	0.389	0.433	0.420	0.455	
997 Average	0.415	0.488	0.366	0.403	0.387	0.423	
998 Average	0.299	0.354	0.269	0.287	0.280	0.305	
999 Average	0.382	0.405	0.329	0.362	0.354	0.374	
000 Average	0.627	0.708	0.512	0.566	0.566	0.602	
001 Average	0.523	0.642	0.428	0.492	0.476	0.531	
002 Average	0.546	0.640	0.508	0.544	0.530	0.569	
003 Average	0.728	0.804	0.588	0.651	0.661	0.698	
004 Average	0.764	0.835	0.601	0.692	0.681	0.739	
	1.115	1.168	0.842	0.974	0.971	1.048	
2005 Average							
006 Average	1.202	1.342	1.085	1.173	1.136	1.218	
007 Average	1.406	1.436	1.314	1.350	1.350	1.374	
008 Average	1.918	2.144	1.843	1.889	1.866	1.964	
009 Average	1.337	1.413	1.344	1.306	1.342	1.341	
010 January	1.767	1.852	1.705	1.660	1.721	1.725	
February	1.725	1.862	1.650	1.574	1.666	1.681	
March	1.739	1.862	1.700	1.609	1.711	1.692	
April	1.827	1.887	1.725	1.655	1.748	1.718	
May	1.675	1.898	1.675	1.601	1.675	1.686	
	1.629	1.874	1.604	1.555	1.612	1.636	
June							
July	1.686	1.858	1.604	1.536	1.629	1.639	
August	1.705	1.895	1.625	1.571	1.642	1.676	
September	1.716	1.883	1.612	1.558	1.632	1.645	
October	1.793	1.913	1.688	1.637	1.712	1.721	
November	1.865	2.025	1.741	1.701	1.768	1.804	
December	2.036	2.215	1.814	1.784	1.865	1.931	
Average	1.756	1.920	1.679	1.619	1.697	1.713	
011 January	NA	2.302	1.896	1.870	1.918	2.013	
February	2.100	2.451	2.079	2.019	2.086	2.150	
March	2.344	2.654	2.307	2.245	2.321	2.403	
April	2.555	2.741	2.427	2.370	2.448	2.475	
	2.555	2.741	2.374	2.370	2.392	2.475	
May							
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	
012 January	2.591	2.965	2.480	2.452	2.512	2.620	
February	2.739	3.070	2.632	2.556	2.654	2.705	
March	2.921	3.159	2.717	2.601	2.772	2.784	
April	2.805	3.201	2.624	2.596	2.670	2.731	
May	2.589	3.170	2.501	2.652	2.527	2.784	
June	2.275	3.083	2.186	2.179	2.211	2.476	
July	2.271	2.926	2.224	2.221	2.234	2.406	
August	2.586	3.041	2.457	2.442	2.483	2.579	
September	2.558	2.970	2.491	2.473	2.501	2.582	
October	2.464	2.969	2.393	2.382	2.409	2.496	

 $^{\rm a}\,$ 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, "Historical Petroleum Prices," at end of section. $\bullet\,$ Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978. Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 16.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 16. • 2010 forward: EIA, Petroleum Marketing Monthly, January 2013, Table 16.

Table 9.6 Refiner Prices of Petroleum Products for Resale

(Dollars^a per Gallon, Excluding Taxes)

	Finished Motor	Finished Aviation	Kerosene- Type	Karazzzz	No. 2 Fuel	No. 2 Diesel	Propane (Consume
	Gasoline ^b	Gasoline	Jet Fuel	Kerosene	Oil	Fuel	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
	0.835	1.130	0.794	0.874	0.776	0.772	0.398
985 Average							
990 Average	0.786	1.063	0.773	0.839	0.697	0.694	0.386
995 Average	0.626	0.975	0.539	0.580	0.511	0.538	0.344
996 Average	0.713	1.055	0.646	0.714	0.639	0.659	0.461
997 Average	0.700	1.065	0.613	0.653	0.590	0.606	0.416
998 Average	0.526	0.912	0.450	0.465	0.422	0.444	0.288
999 Average	0.645	1.007	0.533	0.550	0.493	0.546	0.342
000 Average	0.963	1.330	0.880	0.969	0.886	0.898	0.595
001 Average	0.886	1.256	0.763	0.821	0.756	0.784	0.540
002 Average	0.828	1.146	0.716	0.752	0.694	0.724	0.431
003 Average	1.002	1.288	0.871	0.955	0.881	0.883	0.607
004 Average	1.288	1.627	1.208	1.271	1.125	1.187	0.751
005 Average	1.670	2.076	1.723	1.757	1.623	1.737	0.933
	1.969	2.490	1.961	2.007	1.834	2.012	1.031
006 Average							
007 Average	2.182	2.758	2.171	2.249	2.072	2.203	1.194
008 Average	2.586	3.342	3.020	2.851	2.745	2.994	1.437
009 Average	1.767	2.480	1.719	1.844	1.657	1.713	0.921
010 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
	2.113		2.100	2.046	2.001	2.098	
July		2.891					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
011 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
3	2.970	3.847	3.101	3.054	2.956	3.079	1.503
June							
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
012 January	2.747	3.576	3.059	3.197	3.027	3.018	1.341
February	2.936	3.788	3.186	3.293	3.166	3.163	1.282
March	3.203	4.052	3.296	3.306	3.211	3.308	1.202
		4.052	3.255	3.243	3.153	3.252	1.163
April	3.189						
May	3.016	4.004	3.076	3.008	2.976	3.039	0.950
June	2.757	3.883	2.747	2.697	2.635	2.741	0.762
July	2.806	3.877	2.850	2.936	2.774	2.907	0.809
August	3.087	4.124	3.129	3.195	2.988	3.206	0.875
September	3.163	4.269	3.245	3.236	3.128	^R 3.278	0.910
October	2.941	4.002	3.182	3.250	3.151	3.265	0.979

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

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to reduce the three much more parents of the number and directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

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

available data beginning in 1978.
Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 4.
• 2010 forward: EIA, Petroleum Marketing Monthly, January 2013, Table 4.

Table 9.7 Refiner Prices of Petroleum Products to End Users

(Dollars^a per Gallon, Excluding Taxes)

	Finished Motor Gasoline ^b	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume Grade)
	Cucomic				•		0.440)
978 Average	0.484	0.516	0.387	0.421	0.400	0.377	0.335
980 Average	1.035	1.084	0.868	0.902	0.788	0.818	0.482
	0.912	1.201	0.796	1.030	0.849	0.789	0.717
985 Average							
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
	2.128	2.682	1.998	2.244	1.982	2.096	1.358
006 Average	2.128	2.849		2.244	2.241		
007 Average			2.165			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	2.272	3.040	2.527	2.410	1.326
May	2.353	3.129	2.199	2.938	2.487	2.343	1.264
June	2.251	2.981	2.105	2.965	2.393	2.284	1.204
July	2.247	3.028	2.103	NA	2.246	2.212	1.162
August	2.250	2.967	2.158	2.772	2.379	2.260	1.211
	2.230	2.893	2.138	2.898	2.346	2.269	1.283
September							
October	2.319	3.000	2.298	3.058	2.580	2.389	1.425
November	2.378	3.095	2.374	3.130	2.641	2.457	NA
December	2.514	3.218	2.484	3.276	2.749	2.554	1.863
Average	2.301	3.028	2.201	3.063	2.462	2.314	1.481
011 January	2.615	3.323	2.623	3.358	2.889	2.681	NA
February	2.712	3.374	2.818	3.506	3.020	2.867	1.823
March	3.072	3.767	3.161	3.697	3.255	3.189	1.763
April	3.340	4.132	3.306	3.796	3.430	3.370	NA
May	3.419	4.091	3.220	3.894	3.337	3.231	1.648
June	3.184	3.913	3.138	3.802	3.193	3.183	1.681
July	3.172	4.027	3.118	3.812	3.294	3.214	1.620
August	3.134	3.920	3.057	3.851	3.251	3.143	1.650
	3.090	3.920	3.059	3.873	3.288	3.143	1.702
September							
October	2.980	3.697	2.987	3.823	3.346	3.108	1.706
November	2.922	3.620	3.124	3.892	3.403	3.225	1.773
December	2.808	W	2.963	3.824	3.255	3.024	1.691
Average	3.050	3.803	3.054	3.616	3.193	3.117	1.709
12 January	2.914	3.732	3.087	3.848	3.345	3.093	1.655
February	3.087	W	3.206	3.874	3.495	3.224	1.518
March	3.389	4.133	3.337	3.919	3.522	3.378	1.470
April	3.405	4.313	3.283	3.916	3.509	3.342	1.352
May	3.289	W	3.100	3.741	3.258	3.163	1.080
June	3.061	Ŵ	2.768	3.753	2.982	2.912	0.902
July	2.981	Ŵ	2.856	3.612	3.041	2.989	0.902
August	3.248	4.091	3.123 B 2.292	3.575	3.256	3.265	0.916
September	3.357	4.262	^R 3.283	3.771	3.361	3.367	0.932
October	3.260	4.064	3.211	3.864	3.426	3.364	0.980

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

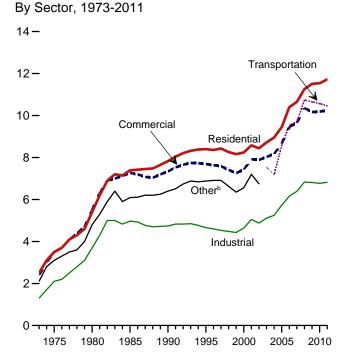
Notes: • Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. Sales for resale are shown in Table 9.6; they are sales made to purchasers other than ultimate consumers.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

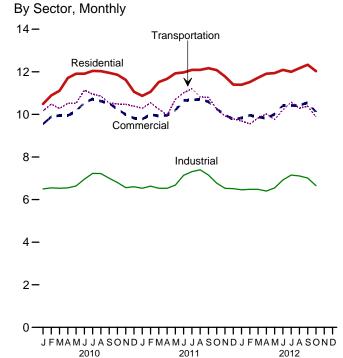
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all

available data beginning in 1978.
Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 2.
2010 forward: EIA, Petroleum Marketing Monthly, January 2013, Table 2.

Figure 9.2 Average Retail Prices of Electricity

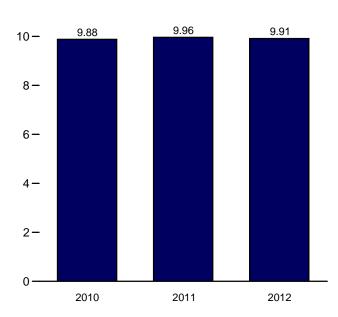
(Cents^a per Kilowatthour)





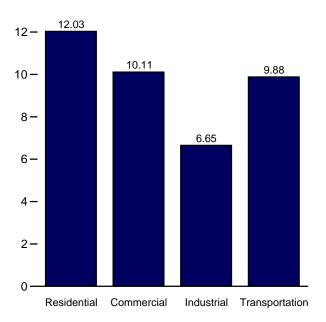
Total, January-October

12-



By Sector, October 2012

14 —



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

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

Table 9.8 Average Retail Prices of Electricity

(Cents^a per Kilowatthour, Including Taxes)

973 Average	2.50	2.40	1.30	NA	2.10	2.00
975 Average	3.50	3.50	2.10	NA	3.10	2.90
980 Average	5.40	5.50	3.70	NA	4.80	4.70
85 Average	7.39	7.27	4.97	NA	6.09	6.44
00 Average	7.83	7.34	4.74	NA		6.57
90 Average					6.40	
95 Average	8.40	7.69	4.66	NA	6.88	6.89
96 Average	8.36	7.64	4.60	NA	6.91	6.86
97 Average	8.43	7.59	4.53	NA	6.91	6.85
98 Average	8.26	7.41	4.48	NA	6.63	6.74
99 Average	8.16	7.26	4.43	NA	6.35	6.64
00 Average	8.24	7.43	4.64	NA	6.56	6.81
01 Average	8.58	7.92	5.05	NA	7.20	7.29
02 Average	8.44	7.89	4.88	NA	6.75	7.20
03 Average	8.72	8.03	5.11	7.54		7.44
004 Average	8.95	8.17	5.25	7.18		7.61
	9.45		5.73	8.57		8.14
05 Average		8.67				
06 Average	10.40	9.46	6.16	9.54		8.90
07 Average	10.65	9.65	6.39	9.70		9.13
08 Average	11.26	10.36	6.83	10.74		9.74
09 Average	11.51	10.17	6.81	10.65		9.82
10 January	10.49	9.55	6.50	10.17		9.28
February	10.89	9.89	6.55	10.48		9.47
March	11.11	9.95	6.53	10.28		9.48
April	11.71	9.95	6.55	10.52		9.53
May	11.91	10.15	6.64	10.52		9.72
June	11.91	10.56	6.96	11.14		10.18
	12.04	10.72	7.23	10.95		10.46
July						
August	12.03	10.62	7.22	10.86		10.40
September	11.95	10.52	7.00	10.53		10.17
October	11.86	10.25	6.80	10.49		9.81
November	11.62	9.99	6.56	10.47		9.55
December	11.06	9.82	6.60	10.39		9.52
Average	11.54	10.19	6.77	10.57		9.83
11 January	10.87	9.78	6.53	10.29		9.48
February	11.06	9.99	6.63	10.55		9.56
March	11.52	9.93	6.53	10.24		9.55
April	11.67	9.96	6.53	9.97		9.54
May	11.93	10.19	6.68	10.70		9.78
June	11.97	10.66	7.14	11.01		10.26
July	12.09	10.67	7.31	11.21		10.47
August	12.09	10.72	7.40	10.82		10.49
September	12.17	10.59	7.15	10.80		10.29
October	12.08	10.25	6.77	10.25		9.83
November	11.78	9.98	6.53	9.93		9.58
December	11.40	9.77	6.51	9.79		9.53
Average	11.72	10.23	6.82	10.46		9.90
12 January	11.39	9.83	6.46	9.69		9.61
February	11.52	9.96	6.48	9.55		9.60
March	11.72	9.88	6.48	9.83		9.56
April	11.91	9.83	6.40	10.02		9.49
May	11.94	10.01	6.55	9.76		9.68
June	12.09	10.42	6.92	10.22		10.15
July	12.00	10.42	7.15	10.57		10.31
August	12.17	10.43	7.11	10.29		10.34
September	12.33	10.55	7.01	10.39		10.31
October	12.03	10.00	6.65	9.88		9.76
10-Month Average	11.92	10.16	6.73	10.02		9.91
011 10-Month Average	11.74	10.30	6.88	10.58		9.96
10 10-Month Average	11.58	10.30	6.81	10.59		9.88

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

 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

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. 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." • October 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*, December 2012, Table 5.3.

2012, Table 5.3.

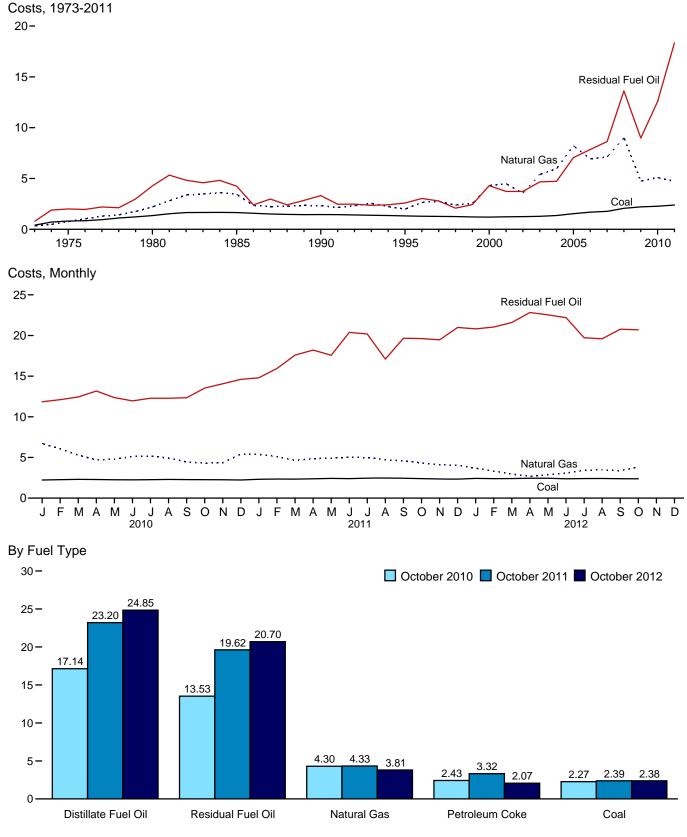


Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants

(Dollars^a per Million Btu, Including Taxes)

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

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

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

(Dollars^a per Million Btu, Including Taxes)

			Petrole				
	Coal	Residual Fuel Oilb	Distillate Fuel Oilc	Petroleum Coke	Totald	Natural Gase	All Fossil Fuels
1973 Average	0.41	0.79	NA	NA	0.80	0.34	0.48
1975 Average	.81	2.01	NA	NA	2.02	.75	1.04
1090 Average	1.35	4.27	NA	NA	4.35	2.20	1.93
1980 Average	1.65	4.24	NA	NA		3.44	
1985 Average					4.32		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
	2.28	12.34	16.53	2.67	9.35	4.45	3.10
September	2.20			2.43		4.45	2.94
October		13.53	17.14		9.13		
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	2.32	14.80	19.59	3.13	11.83	5.39	3.37
February	2.35	15.94	20.93	2.84	11.60	5.09	3.27
March	2.34	17.59	22.59	3.09	12.98	4.64	3.12
April	2.38	18.21	24.06	3.20	13.04	4.86	3.29
May	2.43	17.57	23.04	3.31	13.21	4.89	3.39
June	2.40	20.38	23.13	2.78	14.29	5.04	3.52
July	2.45	20.18	22.95	3.30	12.13	4.98	3.62
August	2.47	17.09	22.51	3.08	10.52	4.73	3.44
September	2.44	19.66	22.73	2.93	11.51	4.56	3.26
October	2.39	19.62	23.20	3.32	13.20	4.33	3.14
November	2.37	19.47	23.38	2.58	13.03	4.10	3.04
December	2.34	20.99	22.45	2.74	12.11	4.04	3.02
Average	2.39	18.35	22.46	3.03	12.48	4.72	3.30
2012 January	2.43	20.81	22.87	2.71	12.76	3.67	2.98
February	2.40	21.04	23.73	2.57	12.61	3.32	2.83
March	2.41	21.60	24.80	2.43	12.31	2.96	2.73
April	2.44	22.83	24.30	2.64	13.17	2.68	2.65
May	2.44	22.54	23.23	2.68	13.88	2.90	2.75
June	2.38	22.19	21.66	2.73	13.41	3.08	2.81
July	2.41	19.72	21.80	2.93	13.95	3.41	2.98
August	2.42	19.59	23.15	2.51	13.24	3.48	2.97
September	2.42	20.77	24.30	2.43	10.33	3.38	2.87
October	2.39	20.70	24.30	2.43	12.24	3.81	3.00
October 10-Month Average	2.38 2.41	20.70 21.07	24.85 23.34	2.07 2.56	12.24 12.78	3.81 3.27	3.00 2.86
2011 10-Month Average	2.40	18.08	22.36	3.11	12.47	4.84	3.35
2010 10-Month Average	2.27	12.33	16.24	2.26	9.27	5.12	3.28
is institutionage		12.00	10.47	2.20	0.21	0.14	0.20

^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary. ^b For 1973–2001, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and

small amounts of fuel oil no. 4).

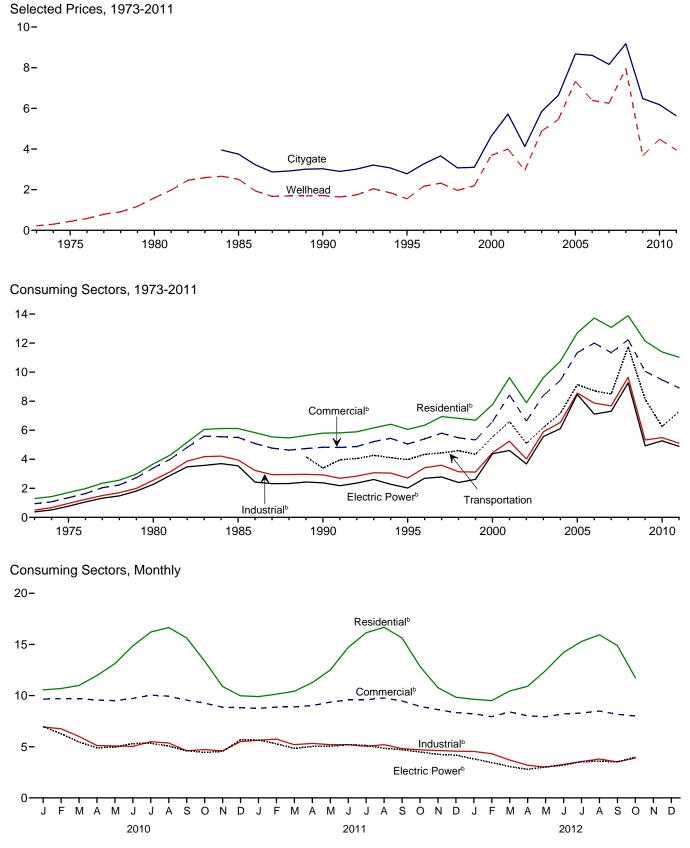
Small amounts of tuel oil no. 4).
 ^c For 1973–2001, electric utility data are for light oil (fuel oil nos. 1 and 2).
 ^d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil. For 1973–1982, data do not include refined motor oil, bunker oil, and liquefied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

 ^e Natural gas, plus a small amount of supplemental gaseous fuels. For 1973-2000, data also include a small amount of blast furnace gas and other gases drived from fossil fuels.
 f Weighted average of costs shown under "Coal," "Petroleum," and "Natural

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

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

Sources: See end of section.



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

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

Table 9.10 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)

						Co	onsuming	Sectorsb			
		City-	Res	idential	Com	mercialc	Ind	ustrial ^d	Transportation	Electi	ric Power ^e
	Wellhead Price	gate Price	Price ^f	Percentage of Sector ^g	Price ^f	Percentage of Sector ^g	Price ^f	Percentage of Sector ^g	Vehicle Fuel ^h Price ^f	Price ^f	Percentage of Sector ^{g,i}
1973 Average 1975 Average 1980 Average 1980 Average 1990 Average 1990 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 2006 Average 2007 Average 2008 Average 2008 Average 2008 Average	.44 1.59 2.51 1.71 1.55 2.17 2.32 1.96 2.19 3.68 4.00 2.95 4.88 5.46 7.33 6.39 6.25 7.97	NA NA 3.787 3.03 2.787 3.666 3.070 4.62 5.72 5.855 6.657 8.616 8.616 8.18 8.18 8.648	1.29 1.71 3.68 6.12 5.80 6.06 6.34 6.82 6.69 7.76 9.63 7.89 9.63 7.89 9.63 10.75 12.70 13.73 13.08 13.89 12.14	NA NA 99.2 99.0 99.0 97.7 95.2 92.6 92.6 97.5 97.5 97.5 97.5 97.5 97.5 97.5 97.5	0.94 1.35 3.39 5.50 5.40 5.80 5.80 5.80 5.80 5.80 5.80 5.80 5.8	NA NA NA 86.6 77.6 66.7 77.8 66.0 77.4 78.0 86.0 77.4 78.2 78.0 82.1 80.8 80.4 80.4 R 77.8	0.50 .96 3.95 2.93 2.71 3.42 3.59 3.14 4.45 5.24 4.02 5.89 6.53 8.56 7.87 7.68 9.65 5.33	NA NA 68.8 35.2 24.5 19.4 16.1 16.1 18.8 19.8 20.8 22.7 22.1 23.6 23.4 22.4 22.2 R 20.4 18.8	NA NA NA 3.39 4.34 4.59 4.34 4.59 4.34 5.54 6.60 5.10 6.19 7.16 9.14 8.72 8.50 11.75 8.13	0.38 .77 2.27 3.55 2.38 2.02 2.62 4.38 4.61 *3.68 *5.57 6.11 *3.47 7.11 7.31 9.26 4.93	92.1 96.9 94.0 76.8 71.4 68.4 68.0 63.7 58.3 50.5 40.2 83.9 91.2 89.8 91.3 93.4 92.2 101.1 101.1
2010 January February March April May June July August September October November December Average	5.30 4.70 4.24 4.27 4.44 4.38 3.83 4.05 4.12 4.68	6.84 6.64 6.50 5.88 5.81 6.22 5.72 5.72 5.74 5.74 6.18	10.56 10.69 R 10.99 11.97 13.12 14.86 16.21 16.65 R 15.63 R 15.63 R 10.89 R 9.98 11.39	97.4 97.8 97.6 96.2 97.1 96.9 96.8 96.4 96.4 96.4 96.8 97.4 8 97.4 8 97.7 8 97.3	9.65 9.71 9.70 R 9.57 R 9.50 R 9.72 R 10.04 R 9.94 R 9.56 R 9.27 8.86 R 8.82 9.47	81.2 R 81.7 75.7 75.7 73.0 71.9 70.6 69.8 68.5 71.8 77.7 80.2 77.5	6.93 6.76 6.01 5.12 ^R 5.08 ^R 5.04 5.49 5.37 4.61 ^R 4.73 4.60 ^R 5.50 5.49	R 18.3 R 17.8 R 17.6 R 17.0 R 17.1 R 17.3 R 17.5 R 17.5 R 16.7 R 16.9 R 16.9 R 17.1 18.0	NA NA NA NA NA NA NA NA NA NA 6.25	6.98 6.27 5.47 4.96 5.31 5.34 5.06 4.61 4.45 5.68 5.27	101.0 100.5 101.0 100.9 100.6 100.6 100.6 100.7 101.3 101.0 101.3 100.8
2011 January February April May June July August September October November December Average	4.34 3.95 4.05 4.12 4.20 4.27 4.20 3.82 3.62 3.35 3.14	R 5.69 5.75 R 5.73 R 5.80 R 6.12 R 6.16 6.19 R 5.94 R 5.94 R 5.94 R 5.29 5.03 R 5.63	R 9.90 R 10.14 R 10.43 R 11.27 R 14.70 R 14.70 R 16.14 16.67 R 15.63 R 12.85 R 10.78 9.84 R 11.03	96.5 ^R 96.2 96.0 96.2 96.3 96.3 95.7 8 95.5 95.7 95.2 96.4 96.4	R 8.75 R 8.88 R 9.03 R 9.36 R 9.58 9.59 R 9.77 R 9.47 R 9.47 8.63 8.33 R 8.92	R 72.8 R 72.0 R 69.6 R 66.4 R 63.9 R 61.7 R 60.1 R 57.8 R 61.4 R 69.1 R 69.1 R 69.1 R 67.3	R 5.64 5.75 R 5.20 5.33 R 5.20 R 5.20 R 5.20 R 5.20 R 4.82 R 4.70 4.63 4.57 5.11	R 17.1 R 16.9 R 16.3 R 16.7 R 16.7 R 16.2 R 16.2 R 16.2 R 16.2 R 16.2 R 16.2 R 16.5 R 17.0 R 16.6	NA NA NA NA NA NA NA NA NA NA R ^R 7.29	5.66 5.29 4.84 5.03 5.04 5.20 5.13 4.85 4.71 4.49 4.26 4.18 4.89	101.7 101.8 101.0 101.6 101.3 101.1 100.5 101.0 101.4 101.5 101.1 101.4 101.2
2012 January February April May June July August September October 10-Month Average	E 2.46 E 2.25 E 1.89 E 1.94 E 2.54 E 2.59 E 2.86 E 2.71	4.86 4.74 4.84 4.20 R 4.32 R 4.66 R 4.90 5.17 R 4.77 4.67 4.67	9.64 9.51 10.45 R 10.91 R 12.44 R 14.22 R 15.29 15.94 R 14.89 11.74 10.97	96.2 ^R 96.1 96.2 ^R 95.5 ^R 95.6 95.6 95.6 95.1 95.1 95.2 95.9	8.22 7.94 8.40 R 8.02 7.93 R 8.21 R 8.30 R 8.49 8.17 8.00 8.15	70.4 ^R 69.1 ^R 67.1 ^R 63.6 ^R 60.8 60.4 ^R 59.1 ^R 57.1 ^R 57.6 60.7 64.7	R 4.54 R 4.32 R 3.70 R 3.19 R 3.01 R 3.28 R 3.55 R 3.80 3.52 3.90 3.71	R 16.5 R 16.6 R 16.5 R 15.8 R 16.1 R 16.1 R 16.4 R 17.2 17.1 17.0 16.5	NA NA NA NA NA NA NA NA NA	3.81 3.45 3.07 2.79 3.03 3.20 3.53 3.59 3.52 3.98 3.40	100.8 100.4 100.3 101.1 100.8 100.7 100.7 100.5 101.3 101.4 100.8
2011 10-Month Average 2010 10-Month Average	4.09 4.50	5.78 6.36	11.27 11.78	96.3 97.3	9.04 9.66	67.2 76.9	5.22 5.58	16.6 17.3	NA NA	5.01 5.29	101.2 100.8

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

^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.
 ^d Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 ^e The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 2001, data are for electricity and heat, to the public. Through 2001, data are for electric plants," at end of section for plant coverage.
 ^f Includes taxes.
 ^g The percentage of the sector's consumption in Table 4.3 for which price

⁹ 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 9.10 Sources at end of section.

^h Much of the natural gas delivered for vehicle fuel represents deliveries to fueling stations that are used primarily or exclusively by fleet vehicles. Thus, the prices are often those associated with the cost of gas in the operation of fleet

vehicles. ¹ 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 steamelectric units and combined-cycle units together totaled 50 megawatts or greater. Data for 2002 forward cover the aforementioned regulated generating plants plus unregulated generating plants (independent power producers, as well as combined-heat-and-power generating plants and electricity-only plants in the commercial and industrial sector) whose total facility fossil-fueled nameplate generating capacity is 50 or more megawatts, regardless of unit type.

Note 9. Natural Gas Prices. Natural gas prices are intended to include all taxes. Instructions on the data collection forms specifically direct that all Federal, State, and local taxes, surcharges, and/or adjustments billed to consumers are to be included. However, sales and other taxes itemized on more than 3,000 consumers' bills are sometimes excluded by the reporting utilities. Deliveredto-consumers prices for 1987 forward represent natural gas delivered and sold to residential, commercial, industrial, vehicle fuel, and electric power consumers. They do not include the price of natural gas delivered on behalf of third parties to residential, commercial, industrial, and vehicle fuel customers except for certain States in the residential and commercial sectors for 2002 forward. Volumes of natural gas delivered on behalf of third parties are included in the consumption data shown in Table 4.3. Additional information is available in the EIA Natural Gas Monthly, Appendix C.

Table 9.1 Sources

Domestic First Purchase Price

1973–1976: U.S. Department of the Interior (DOI), Bureau of Mines (BOM), *Minerals Yearbook*, "Crude Petroleum and Petroleum Products" chapter.

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

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

F.O.B. and Landed Cost of Imports

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

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

1978–2009: EIA, *Petroleum Marketing Annual 2009*, Table 1.

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

Table 9.2 Sources

October 1973–September 1977: Federal Energy Administration, Form FEA-F701-M-0, "Transfer Pricing Report." October 1977–December 1977: U.S. Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report."

1978–2009: EIA, *Petroleum Marketing Annual 2009*, Table 21.

2010 forward: EIA, *Petroleum Marketing Monthly*, January 2013, Table 21.

Table 9.9 Sources

1973–September 1977: Federal Power Commission, Form FPC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

October 1977–December 1977: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1978 and 1979: U.S. Energy Information Administration (EIA), Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants."

1980-1989: EIA, Electric Power Monthly, May issues.

1990–2000: EIA, *Electric Power Monthly*, March 2003, Table 26.

2001–2007: EIA, *Electric Power Monthly*, October 2008, Table 4.1; Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report of Cost and Quality of Fuels for Electric Utility Plants"; and EIA, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report."

2008 forward: EIA, *Electric Power Monthly*, December 2012, Table 4.1; and Form EIA-923, "Power Plant Operations Report."

Table 9.10 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)*, December 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

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

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

Percentage of Commercial Sector

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

2007 forward: EIA, NGM, December 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, December 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 (MER)*, Table 7.3b; for 1989–2001, see MER, Table 7.4b).

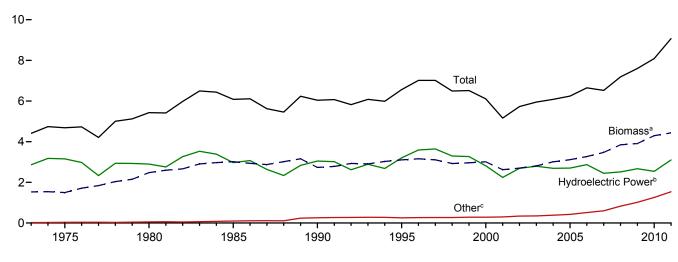
2002–2007: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report,"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

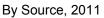
2008 forward: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form EIA-923, "Power Plant Operations Report," divided by the quantity of natural gas consumed by the electric power sector (see MER, Table 7.4b).

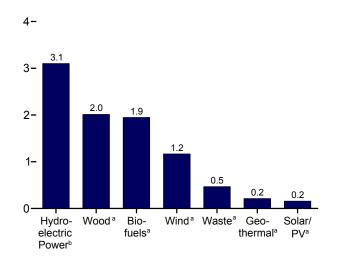
10. Renewable Energy

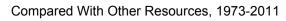
Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

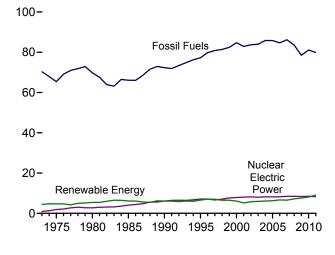
Total and Major Sources, 1973-2011



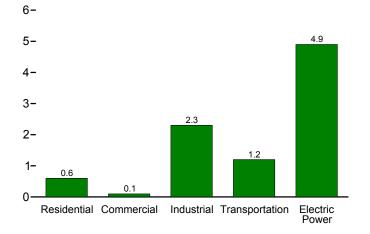




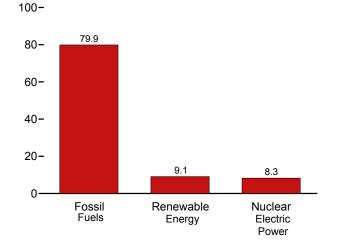




By Sector, 2011



Compared With Other Resources, 2011



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

Sources: Tables 1.3 and 10.1-10.2c.

^a See Table 10.1 for definition.

^b Conventional hydroelectric power.

^c Geothermal, solar/PV, and wind.

Table 10.1 Renewable Energy Production and Consumption by Source

(Trillion Btu)

		Production	a		•			Consumpti	on			
	Bior	nass	Total						Bior	nass		Total
	Bio- fuels ^b	Total ^c	Renew- able Energy ^d	Hydro- electric Power ^e	Geo- thermal ^f	Solar/ PV ^g	Wind ^h	Wood ⁱ	Waste ^j	Bio- fuels ^k	Total	Renew- able Energy
1973 Total	NA	1,529	4,411	2,861	20	NA	NA	1,527	2	NA	1,529	4,411
1975 Total	NA	1,499	4,687	3,155	34	NA	NA	1,497	2	NA	1,499	4,687
1980 Total	NA	2,475	5,428	2,900	53	NA	NA	2,474	2	NA	2,475	5,428
1985 Total	93	3,016	6,084	2,970	97	(s)	(s)	2,687	236	93	3,016	6,084
1990 Total	111	2,735	6,041	3,046	171	59	29	2,216	408	111	2,735	6,041
1995 Total	198	3,099	6,558	3,205	152	69	33	2,370	531	200	3,101	6,560
1996 Total	141	3,155 3.108	7,012	3,590 3.640	163 167	70 70	33 34	2,437 2.371	577 551	143 184	3,157	7,014
1997 Total 1998 Total	186 202	2.929	7,018 6,494	3,640	167	69	34 31	2,371	542	201	3,105 2,927	7,016 6.493
1999 Total	202	2,929	6,517	3,268	171	68	46	2,104	542	201	2,927	6,516
2000 Total	233	3,006	6,104	2,811	164	66	57	2,262	511	236	3,008	6,106
2001 Total	254	2,624	5,164	2,242	164	64	70	2,006	364	253	2,622	5,163
2002 Total	308	2,705	5,734	2,689	171	63	105	1,995	402	303	2,701	5,729
2003 Total	402	2,805	5,947	2,793	173	62	113	2,002	401	404	2,807	5,948
2004 Total	487	2,998	6,069	2,688	178	63	142	2,121	389	499	3,010	6,081
2005 Total	564	3,104	6,229	2,703	181	63	178	2,137	403	577	3,117	6,242
2006 Total	720	3,216	6,599	2,869	181	68 76	264	2,099	397	771	3,267	6,649
2007 Total 2008 Total	978 1.387	3,461 3.864	6,509 7.202	2,446 2.511	186 192	76 89	341 546	2,070 2.040	413 436	991 1.372	3,474 3.849	6,523 7.186
2009 Total	1,584	3,928	7,616	2,669	200	98	721	1,891	430	1,568	3,849	7,600
				,						,		
2010 January	152	359	672	218	18	10	67	168	39	142	349	662
February	142	332	610	201	16	9	53	154	35	136	326	605
March	158	366 351	682	204	18	10	84 95	168	40 39	149 149	357	673
April May	152 157	358	661 717	186 245	17 18	10 11	95 85	160 162	39	149	348 356	657 715
June	152	355	753	245	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	169	385	747	248	19	12	83	177	39	153	369	731
February	151	346	710	234	17	12	102	158	36	145	339	703
March	171 163	380 359	816 813	303 303	18 17	13 13	102 121	170 160	39 36	160 154	369 349	805 804
April May	170	369	832	303	18	13	114	161	38	164	363	826
June	168	375	824	312	17	14	107	168	39	168	374	824
July	171	384	792	304	18	14	73	172	40	162	374	782
August	174	387	742	250	18	14	73	173	40	174	386	741
September	166	372	677	208	17	13	67	167	38	160	365	670
October	176	382	708	192	18	13	102	166	40	167	373	699
November	178	386	738	201	18	13	121	167	41	167	375	727
December	186	405	770	231	18	13	104	177	42	176	395	760
Total	2,044	4,527	9,169	3,103	213	158	1,168	2,014	469	1,948	4,432	9,073
2012 January	177	390	785	227	19	15	134	174	39	154	367	763
February	164	362	701	198	18	15	108	162	36	152	351	690
March	172	373	795	250	19	17	135	162	40	163	365	786
April	164 173	356 378	770 816	254 277	18 19	17 19	124 122	155	38 40	160 172	353 378	767 816
May June	173	378	780	277	19	19	122	166 164	40 39	164	378	779
July	157	368	760	259	19	19	85	104	39 40	158	369	753
August	163	370	713	200	19	19	81	169	39	168	375	719
September	152	353	645	171	19	18	84	164	38	150	352	644
October	156	359	676	157	19	19	122	164	40	161	364	681
10-Month Total	1,641	3,679	7,434	2,278	188	178	1,112	1,650	388	1,603	3,641	7,396
2011 10-Month Total	1,680	3,737	7,661	2,671	177	132	943	1,671	386	1,605	3,662	7,586
2010 10-Month Total	1,551	3,588	6,728	2,122	173	106	740	1,649	388	1,517	3,554	6,694

^a Production equals consumption for all renewable energy sources except

^a Production equals concernent
 ^b Total biomass inputs to the production of fuel ethanol and biodiesel.
 ^c Wood and wood-derived fuels, biomass waste, and total biomass inputs to the production of fuel ethanol and biodiesel.
 ^d Hydroelectric power, geothermal, solar thermal/photovoltaic, wind, and

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

^j Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).
 ^k Fuel ethanol (minus denaturant) and biodiesel consumption, plus losses and co-products from the production of fuel ethanol and biodiesel. 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					Cc	ommercial	Sectora			
			Biomass							Bio	omass		
	Geo- thermal ^b	Solar/ PV ^c	Wood ^d	Total	Hydro- electric Power ^e	Geo- thermal ^b	Solar/ PV ^f	Wind ^g	Wood ^d	Wasteh	Fuel Ethanol ⁱ	Total	Total
1973 Total	NA	NA	354	354	NA	NA	NA	NA	7	NA	NA	7	7
1975 Total	NA	NA	425	425	NA	NA	NA	NA	8	NA	NA	8	8
1980 Total	NA	NA	850	850	NA	NA	NA	NA	21	NA	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 53	(s)	113	118
1996 Total 1997 Total	8	65 64	540 430	612 502	1	5 6	-	_	76 73	53 58	(s) (s)	129 131	135 138
1998 Total	8	64	380	452		7	_	_	64	54	(s) (s)	118	127
1999 Total	ů,	63	390	461		7	_	_	67	54	(s)	121	129
2000 Total	9	61	420	489	i	8	_	-	71	47	(s)	119	128
2001 Total	9	59	370	438	1	8	-	-	67	25	(s)	92	101
2002 Total	10	57	380	448	(s)	9	-	-	69	26	(s)	95	104
2003 Total	13	57	400	470	1	11	-	-	71	29	1	101	113
2004 Total	14	57	410	481	1	12	-	-	70	34	1	105	118
2005 Total	16	58	430	504	1	14	-	-	70	34	1	105	120
2006 Total		63	380	462	1	14	-	-	65	36	1	103	118
2007 Total 2008 Total		70 80	410 450	502 557		14 15	_ (s)	_	70 73	31 34	2 2	103 109	118 125
2009 Total		89	430	552	i	17	(s)	(s)	72	36	3	112	129
							.,						
2010 January	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
February		9	32	44	(s)	1	(s)	(s)	5	3	(s)	8	10
March		10 9	36 35	48 47	(s)	2	(s)	(s)	6	3	(s)	9 9	11 11
April May		9 10	35	47 48	(s) (s)	2 2	(s) (s)	(s) (s)	6 6	3 4	(s) (s)	10	12
June	3	9	35	40	(s)	2	(s)	(s)	6	3	(s)	9	11
July	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	9	11
August	3	10	36	48	(s)	2	(s)	(s)	6	3	(s)	10	11
September	3	9	35	47	(s)	2	(s)	(s)	6	3	(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) 3	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)	10	11
February	3	11	33	47	(s)	2	(s)	(s)	5	3	(s)	9	10
March	3	12	37	52	(s)	2 2	(s)	(s)	6	3	(s)	10	11
April May	3 3	12 12	35 37	50 52	(s) (s)	2	(s) (s)	(s) (s)	6 6	3 4	(s) (s)	9 10	11 12
June	3	12	35	50	(S)	2	(s) (s)	(s)	6	4	(s)	10	12
July	3	12	37	52	(s)	2	(s)	(s)	6	4	(s)	10	12
August	3	12	37	52	(s)	2	(s)	(s)	6	4	(s)	10	12
September	3	12	35	50	(s)	2	(s)	(s)	õ	4	(s)	10	11
October		12	37	52	(s)	2	(s)	(s)	6	4	(s)	10	12
November	3	12	35	50	(s)	2	(s)	(s)	6	4	(s)	10	12
December		12	37	52	(s)	2	(s)	(s)	_6	4	(s)	10	12
Total	40	140	430	610	(s)	20	1	(s)	71	43	3	117	138
2012 January	3	14	36	54	(s)	2	(s)	(s)	6	4	(s)	10	12
February	3	13	34	51	(s)	2	(s)	(s)	6	4	(s)	10	11
March	3	14	36	54	(s)	2	(s)	(s)	6	4	(s)	10	12
April		14	35	52	(s)	2	(s)	(s)	6	3	(s)	10	11
May		14	36	54	(s)	2	(s)	(s)	6	4	(s)	10	12
June		14	35	52	(s)	2	(s)	(s)	6	3	(s)	9	11
July		14	36	54	(s)	2	(s)	(s)	6	4	(s)	10	12
August	3 3	14 14	36 35	54 52	(s)	2 2	(s)	(s)	6 6	3 3	(s)	10 10	12 11
September October	3	14	35 36	52 54	(s) (s)	2	(s) (s)	(s) (s)	6	3	(s) (s)	10	11
10-Month Total	33	141	358	533	(S) (S)	16	(5)	(s) (s)	59	36	(S) 3	98	116
2011 10-Month Total	33	117	358	508	(s)	16	1	(s)	59	35	3	97	115
2010 10-Month Total	33	95	358	475	(5)	15	(s)	(s) (s)	59 60	35 31	3	97	109

 ^a Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
 ^b Geothermal heat pump and direct use energy.
 ^c Solar thermal direct use energy, and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6). Includes distributed solar thermal and PV energy used in the commercial, industrial, and electric power sectors. and electric power sectors. ^d Wood and wood-derived fuels.

^d Wood and wood-derived fuels. ^e Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6). ^f Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at commercial plants with capacity of 1

megawatt or greater. ${}^g\ {\rm Wind}\ {\rm electricity}\ {\rm net}\ {\rm generation}\ ({\rm converted}\ to\ {\rm Btu}\ {\rm using}\ {\rm the}\ {\rm fossil-fuels}\ {\rm heat}$

rate—see Table A6). ^h Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels). ⁱ The fuel ethanol (minus denaturant) portion of motor fuels, such as E10, consumed by the commercial sector.

NA=Not available. – =No data reported. (s)=Less than 0.5 trillion Btu. Notes: • Data are estimates, except for commercial sector solar/PV, hydroelectric power, wind, and waste. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the

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

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

				Trans	portation S	Sector							
							Biomass					Biomass	
	Hydro- electric Power ^b	Geo- thermal ^c	Solar/ PV ^d	Wind ^e	Wood ^f	Wasteg	Fuel Ethanol ^h	Losses and Co- products ⁱ	Total	Total	Fuel Ethanol ^j	Bio- diesel	Total
1973 Total 1975 Total 1985 Total 1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1997 Total 1997 Total 1997 Total 1997 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	35 32 33 31 55 61 58 55 49 42 33 39 43 32 29 6 17 18	NAAA 2333344553444554	NA NA NA - - - - - - - - - - - - - - - -	NA NA - - - - - - - - - - - - - - - - -	1,165 1,063 1,600 1,642 1,652 1,663 1,731 1,603 1,620 1,636 1,452 1,396 1,452 1,472 1,472 1,472 1,472 1,340 1,208	NA NA 230 192 224 184 180 171 145 129 146 142 132 148 130 144 134 144	NA NA NA 1 2 1 1 1 1 3 3 4 6 7 00 10 12 13	NA NA 42 49 86 61 80 99 108 130 169 203 230 285 377 532 617	1,165 1,063 1,600 1,918 1,684 1,934 1,996 1,872 1,882 1,881 1,676 1,679 1,817 1,837 1,837 1,837 1,837 1,837 1,837	$\begin{array}{c} 1,200\\ 1,096\\ 1,633\\ 1,951\\ 1,717\\ 1,992\\ 2,057\\ 1,929\\ 1,934\\ 1,928\\ 1,719\\ 1,720\\ 1,725\\ 1,873\\ 1,873\\ 1,930\\ 1,930\\ 1,930\\ 1,930\\ 1,930\\ 1,930\\ 1,930\\ 1,930\\ 1,949\\ 2,016 \end{array}$	NA NA 50 60 112 113 118 135 141 168 228 327 442 557 786 894	NA NA NA NA NA NA NA 12 23 312 33 40 40	NA NA 50 112 113 118 135 142 230 230 230 230 239 475 602 826 935
2010 January February April June July August September October November December Total	2 2 2 2 2 1 1 1 1 1 1 1 1 6	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)		109 100 110 105 106 107 111 111 110 108 114 1,301	15 13 15 14 13 14 14 15 15 15 169	1 1 1 2 2 2 1 2 1 2 1 2 1 7	60 56 62 60 62 63 61 64 65 67 742	185 170 188 181 183 182 188 190 185 190 190 190 198 2,230	187 172 190 183 185 183 190 191 187 192 191 199 2,250	81 76 83 84 89 90 91 91 86 91 88 92 1,040	(s) 3 2 4 3 2 3 3 4 3 3 3 4 3 3 34 34	81 79 85 92 93 94 94 90 94 91 94 1,074
2011 January February March April June July August September October December December Total	2 2 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	117 104 112 106 105 111 113 113 111 109 112 118 1,332	15 14 15 13 14 14 14 15 15 15 171	1 1 2 2 1 2 1 1 1 2 7	66 59 62 64 63 64 65 62 65 66 69 771	200 178 193 183 185 189 192 193 188 191 195 204 2,291	202 180 196 185 187 191 194 195 189 193 197 206 2,313	82 80 87 90 92 86 95 83 89 86 91 1,044	3 4 6 8 10 12 13 11 13 14 113	86 84 93 90 98 102 96 107 96 100 99 105 1,157
2012 January February March June July September October October 10-Month Total 2011 10-Month Total	2 2 2 2 1 1 1 1 1 1 4 14	(s) (s) (s) (s) (s) (s) (s) (s) (s) 4 3 3	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	116 108 106 103 110 108 112 110 108 108 108 1,087 1,102 1,078	15 14 14 14 14 15 15 14 15 143 141	1 1 1 2 2 1 2 1 2 1 5 15 14	67 61 64 61 58 60 56 58 611 636 611	199 184 185 179 190 185 186 186 179 183 1,856 1,893 1,843	201 186 187 181 192 186 188 187 181 184 1,873 1,911 1,860	81 82 87 86 93 90 88 95 83 93 878 867 861	5 8 10 11 14 11 10 11 9 8 97 85 28	86 89 98 107 101 98 106 92 101 975 952 889

^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).

rate—see Table A6). ^f Wood and wood-derived fuels.

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

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

¹ Losses and co-products from the production of fuel ethanol and biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol and biodiesel—these are included in the industrial sector ^j The fuel ethanol (minus denaturant) portion of motor fuels, such as E10 and

¹ The fuel ethanol (minus denaturant) portion or motor rules, such as E to 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

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

Table 10.2c Renewable Energy Consumption: Electric Power Sector

(Trillion Btu)

	Hydro- electric	Geo-				Biomass	1	
	Powera	thermalb	Solar/PV ^c	Windd	Wood ^e	Wastef	Total	Total
973 Total	2.827	20	NA	NA	1	2	3	2.851
975 Total	3,122	34	NA	NA	(s)	2	2	3,158
80 Total	2,867	53	NA	NA	3	2	4	2,925
85 Total	2.937	97	(s)	(s)	8	7	14	3.049
90 Total ^g	3,014	161	4	29	129	188	317	3,524
95 Total	3,149	138	5	33	125	296	422	3,747
96 Total	3,528	148	5	33	138	300	438	4,153
97 Total	3,581	150	5	34	137	309	446	4,216
98 Total	3,241	151	5	31	137	308	444	3,872
999 Total	3,218	152	5	46	138	315	453	3,874
00 Total	2,768	144	5	57	134	318	453	3,427
01 Total	2,209	142	6	70	126	211	337	2,763
02 Total	2,650	147	6	105	150	230	380	3,288
03 Total	2,749	146	5	113	167	230	397	3,411
04 Total	2,655	148	6	142	165	223	388	3,339
05 Total	2,670	147	6	178	185	221	406	3,406
06 Total	2,839	145	5	264	182	231	412	3,665
07 Total	2,430	145	6	341	186	237	423	3,345
08 Total	2,494	146	9	546	177	258	435	3,630
09 Total	2,650	146	9	721	180	261	441	3,967
10 January	217	13	(s)	67	17	21	39	335
February	199	11	(s)	53	16	20	36	300
March	202	13	1	84	16	22	39	338
April	184	12	1	95	15	21	36	329
May	243	13	1	85	14	22	36	378
June	290	12	2	79	16	23	39	421
July	238	12	2	66	17	23	40	358
August	195	13	2	65	18	23	41	315
September	168	12	1	69	16	22	38	288
October	171	12	1	77	15	22	37	298
November	190	12	1	95	16	23	39	337
December	225	13	(s)	88	17	23	41	367
Total	2,521	148	12	923	196	264	459	4,064
11 January	247 233	13 12	(s) 1	83 102	17 16	21 19	37 35	381 382
February								
March	301 301	13 12	1 2	102 121	15 12	21 20	36 32	453 467
April	301	12	2	121	12	20	32 34	467
May			2					
June	311 303	12 12	2	107	16 17	22 22	37 39	469 429
July	303 249		2	73 73		22	39	
August	249 207	12 12	2	73 67	17	22	39 37	376 323
September	207	12 12	2	67 102	15 14	21 22		
October	191 199	12 12	1	102	14 14	22	36 36	343 369
November	199 229	12	1	121 103	14 16	22		369
December Total	3,085	149	17	1,167	182	23 255	39 437	4,855
12 January	225	14	1	134	16	21	37	410
February	196	13	1	108	15	19	34	353
March	249	14	2	135	14	21	35	435
April	252	13	3	124	11	20	31	424
May	276	14	5	122	13	22	35	451
June	257	13	5	116	15	21	36	428
July	259	14	5	85	16	22	38	401
August	224	13	4	80	16	21	38	360
September	170	13	4	84	15	20	36	307
October	156	14	4	122	14	21	35	330
10-Month Total	2,264	135	35	1,111	145	209	354	3,900
11 10-Month Total	2,657	124	15	943	152	210	362	4,100
10 10-Month Total	2.107	123	11	740	162	218	380	3,361

^a Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 ^b Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 ^c Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 ^d Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

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

tire-derived fuels). ^g Through 1988, data are for electric utilities only. Beginning in 1989, data are

⁹ Through 1988, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes: • The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 1973. Sources: • Biomass: Table 7.4b. • All Other Data: Tables 7.2b and A6.

stocka TBtu 1985 Total 93 1990 Total 111 1995 Total 93 1990 Total 111 1995 Total 186 1996 Total 141 1997 Total 186 1998 Total 202 1999 Total 211 1990 Total 211 1997 Total 186 1998 Total 201 1999 Total 211 2001 Total 253 2002 Total 307 2003 Total 484 2005 Total 552 2006 Total 484 2005 Total 914 2006 Total 914 2007 Total 914 2008 Total 1,517 2010 January 149 February 138 March 154 August 157 September 152 October 160 November 161	TBtu 3 6 3 42 1 49 8 86 1 61 6 80 2 86 1 90 3 108 7 130 0 169 4 203 2 230 0 531 7 616 9 60 8 56 4 62 7 59 2 61	Mbbl 4 40 5 40 5 294 3 356 6 447 4 64 6 613 6 669 6 698 8 773 6 841 1,019 1,335 5 1,621 1,859 2,326 5 3,105 5 3,105 5 4,433 5 5688 9 541 6 496 5 537 5 522 5 54 5 543	Mbbl 1,978 14,693 17,802 32,325 23,178 30,674 33,453 34,881 38,627 42,028 50,956 66,772 81,058 92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632 26,584 26,58	roduction ^d MMgal 83 617 748 1,358 973 1,288 1,405 1,465 1,465 1,462 1,765 2,140 2,804 3,404 3,904 4,884 4,884 4,884 4,521 9,309 10,938 1,076 1,070 1,112 1,077 1,1132	TBtu 7 52 63 115 83 109 124 138 150 182 238 2389 331 414 4553 790 928 91 855 959 91 95 95 96	Imports ^e Mbbl NA NA 387 313 855 66 87 116 315 306 292 3,544 3,553 3,542 3,54	Stocks ^{d,f} Mbbl NA NA 2,186 2,065 2,925 3,406 4,024 3,400 4,298 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 4,208 6,200 2,555 14,226 16,555 14,226 16,555 14,226 16,555 14,226 16,555 14,226 16,555 14,226 16,556 16,556 17,555 18,556 18,556 18,556 19,555 18,556 19,556 10,5	Change ^{d,g} Mbbbl NA NA NA -207 -121 860 481 618 -624 898 1,902 -222 -222 -222 -224 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	Mbbl 1,978 14,693 17,802 32,919 23,612 29,899 33,038 34,350 39,367 41,445 49,360 67,286 84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,577	MMgal 83 617 748 1,383 992 1,256 1,383 1,443 1,653 1,741 2,073 2,826 3,552 4,059 5,481 6,886 9,683 1,037 997 9936 1,025 1,035 1,015	TBtu 7 52 63 117 118 122 140 148 176 240 301 344 465 584 821 936 85 79 87 88 893 93	Denaturant TBtu 7 51 62 114 82 104 115 119 137 144 233 293 335 569 910 82 77 85 90 92 93
1985 Total 93 1990 Total 111 1995 Total 198 1996 Total 111 1997 Total 186 1996 Total 201 1997 Total 186 1998 Total 201 1999 Total 211 2000 Total 233 2001 Total 253 2002 Total 307 2003 Total 400 2004 Total 484 2005 Total 688 2007 Total 914 2008 Total 1,517 2010 January 149 February 138 March 154 April 147 June 149 July 154 August 157 September 152 October 161 December 162 February 146 March 163 April 154 August 162 September 162 September	3 42 1 49 8 86 1 61 6 80 2 86 1 90 3 99 3 108 7 130 4 203 2 230 0 531 7 616 9 60 8 285 4 62 7 59 2 61	294 356 647 464 613 669 688 773 689 773 73 73 73 73 73 73 73 73 73 73 73 73	14,693 17,802 32,325 23,178 30,674 33,453 34,881 38,627 42,028 50,956 66,772 81,058 92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,584	617 748 1,358 973 1,288 1,405 1,662 1,765 2,140 2,804 3,404 4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,002 1,077 1,117	52 63 115 124 138 124 138 289 331 414 553 790 928 91 85 94 90 93 91 95	NA NA 387 313 85 666 87 116 315 306 292 3,542 3,542 3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	NA NA 2,186 2,065 2,925 3,406 4,024 3,400 4,298 6,200 5,978 6,200 5,978 6,200 5,563 8,760 10,535 14,226 16,594 18,251 19,251 20,222 20,042 19,855	NA NA -207 -121 860 481 618 -624 898 1,902 -222 24 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 925 -180 -191 -1,286	14,693 32,919 23,612 29,899 33,038 34,350 39,367 41,445 49,360 67,286 84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	83 83 992 1,256 1,388 1,443 1,653 1,741 2,073 2,826 3,552 4,059 5,481 6,886 9,683 11,037 997 9,36 1,027 1,035 1,005 1,015	52 63 117 184 122 140 148 176 240 301 344 465 584 821 936 85 79 85 789 85 939 87 88	51 62 114 82 104 115 119 137 144 171 233 335 569 800 910 82 77 85 85 85 85 90 92
1985 Total 93 1990 Total 111 1995 Total 198 1996 Total 111 1997 Total 186 1996 Total 201 1997 Total 186 1998 Total 201 1999 Total 211 2000 Total 233 2001 Total 253 2002 Total 307 2003 Total 400 2004 Total 484 2005 Total 688 2007 Total 914 2008 Total 1,517 2010 January 149 February 138 March 154 April 147 June 149 July 154 August 157 September 152 October 161 December 162 February 146 March 163 April 154 August 162 September 162 September	3 42 1 49 8 86 1 61 6 80 2 86 1 90 3 99 3 108 7 130 4 203 2 230 0 531 7 616 9 60 8 285 4 62 7 59 2 61	294 356 647 464 613 669 688 773 689 773 73 73 73 73 73 73 73 73 73 73 73 73	14,693 17,802 32,325 23,178 30,674 33,453 34,881 38,627 42,028 50,956 66,772 81,058 92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,584	617 748 1,358 973 1,288 1,405 1,662 1,765 2,140 2,804 3,404 4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,002 1,077 1,117	52 63 115 124 138 150 124 138 289 331 414 553 790 928 91 85 94 90 93 91 95	NA NA 387 313 85 666 87 116 315 306 292 3,542 3,542 3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	NA NA 2,186 2,065 2,925 3,406 4,024 3,400 4,298 6,200 5,978 6,200 5,978 6,200 5,563 8,760 10,535 14,226 16,594 18,251 19,251 20,222 20,042 19,855	NA NA -207 -121 860 481 618 -624 898 1,902 -222 24 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 925 -180 -191 -1,286	14,693 32,919 23,612 29,899 33,038 34,350 39,367 41,445 49,360 67,286 84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	617 748 1,383 992 1,256 1,388 1,443 1,653 1,741 2,073 2,826 3,552 4,059 5,481 6,886 9,683 11,037 997 996 6,1,027 1,035 1,095	52 63 117 184 122 140 148 176 240 301 344 465 584 821 936 85 79 85 789 85 939 87 88	51 62 114 82 104 115 119 137 144 171 233 335 569 800 910 82 77 85 85 85 85 90 92
1990 Total 111 1995 Total 198 1996 Total 141 1997 Total 186 1998 Total 202 1999 Total 201 1999 Total 211 2001 Total 233 2002 Total 307 2003 Total 400 2004 Total 484 2005 Total 400 2006 Total 688 2007 Total 914 2008 Total 1,517 20109 January 149 June 143 June 143 June 162 November 165 Total 1,839 2011 January 165 Total 1,839 2011 January 165	1 49 8 86 1 61 6 80 2 86 1 90 3 98 7 130 0 169 4 203 2 230 8 285 4 376 0 531 7 616 9 60 8 56 4 62 7 59 2 61	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17,802 32,325 23,178 30,674 33,453 34,881 38,627 42,028 50,956 66,772 81,058 92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,584	748 1,358 973 1,288 1,405 1,465 1,622 1,765 2,140 2,804 3,404 3,404 3,904 4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	63 83 109 119 124 138 150 182 238 289 331 414 553 790 928 91 85 94 90 93 91 95	NA 387 313 85 66 87 116 315 306 292 3,542 3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	NA 2,186 2,065 2,925 3,406 4,024 3,400 4,298 6,002 5,563 8,760 10,535 14,226 16,594 18,251 19,297 20,222 20,042 19,851	NA -207 -121 860 481 618 -624 898 1,902 -222 24 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	17,802 32,919 23,612 29,899 33,038 34,350 39,367 41,445 49,360 67,286 84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	748 1,383 992 1,256 1,388 1,443 1,653 1,741 2,073 2,826 3,552 5,481 6,886 9,683 11,037 936 1,027 1,035 1,005 1,015	63 117 84 107 118 122 140 148 176 240 301 344 465 584 821 936 87 79 87 88 85 79 87 88 893 93	62 114 82 104 115 119 137 144 171 233 293 335 453 569 800 910 822 77 75 85 85 85 90 92
1995 Total 198 1996 Total 141 1997 Total 186 1998 Total 202 1999 Total 211 2000 Total 233 2001 Total 307 2003 Total 400 2004 Total 484 2005 Total 464 2006 Total 552 2006 Total 552 2006 Total 688 2007 Total 914 2008 Total 1,300 2009 Total 1,517 2010 January 149 February 138 March 154 April 147 May 152 October 160 November 161 December 163 April 154 March 154 August 157 September 162 October 160 November 163 April 154 March 163 April	1 61 6 80 2 86 1 90 3 99 3 108 7 130 0 169 4 203 2 230 8 285 4 376 0 5316 7 616 9 60 8 566 4 62 7 59 2 61	464 613 6699 6698 773 841 1,019 1,335 1,621 1,621 1,859 62,326 63,105 63,105 643 643 643 6537 5537 5522 534 522 534 522 533	32,325 23,178 30,674 33,453 34,881 38,627 42,028 50,956 66,772 81,058 92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632	973 1,288 1,405 1,465 2,140 2,804 3,404 3,904 4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,002 1,077 1,117	83 109 119 124 138 150 182 288 289 331 414 553 790 928 91 85 94 90 93 91 91 91 91	313 85 66 87 116 315 306 292 3,542 3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	2,065 2,925 3,406 4,024 3,400 4,298 6,200 5,978 6,002 5,563 8,760 10,535 14,226 16,594 18,251 19,297 20,222 20,042 19,851 18,565	-121 860 481 618 -624 898 1,902 -222 24 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	23,612 29,899 33,038 34,350 39,367 41,445 49,360 67,286 84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	992 1,256 1,388 1,443 1,653 1,741 2,073 2,826 3,552 4,059 5,481 6,886 9,683 11,037 997 936 1,027 1,035 1,095	84 107 118 122 140 148 176 240 301 344 465 584 821 936 85 79 87 88 85 936	82 104 115 119 137 144 171 233 293 3355 453 355 453 800 910 82 77 85 85 85 85 85 90 92
1996 Total 141 1997 Total 186 1998 Total 202 1999 Total 211 2000 Total 233 2011 Total 253 2002 Total 307 2003 Total 400 2004 Total 453 2005 Total 452 2006 Total 688 2007 Total 914 2008 Total 1,300 2009 Total 1,300 2009 Total 1,517 2010 January 149 February 138 March 152 June 147 July 154 August 157 September 152 October 160 November 161 December 162 April 146 May 162 September 152 October 163 April 154 May 165 June 158 July 158<	6 80 2 86 1 90 3 108 7 130 0 169 4 203 2 230 8 285 4 376 0 531 7 616 9 60 8 56 4 62 7 59 2 61	$\begin{array}{c} 613\\ 669\\ 698\\ 773\\ 841\\ 1,019\\ 1,019\\ 1,335\\ 1,621\\ 1,859\\ 2,326\\ 3,105\\ 4,433\\ 5,688$	30,674 33,453 34,881 38,627 42,028 50,956 66,772 81,058 92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632	1,288 1,405 1,465 1,622 1,765 2,140 2,804 3,404 3,404 4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	109 119 124 138 150 182 238 289 331 414 4553 790 928 91 85 94 90 93 941 95	85 66 87 116 315 306 292 3,542 3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	2,925 3,406 4,024 3,400 5,978 6,002 5,563 8,760 10,535 14,226 16,594 18,251 19,297 20,222 20,042 19,851 18,565	860 481 618 -624 898 1,902 -222 24 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	29,899 33,038 34,350 39,367 41,445 49,360 67,286 84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	1,256 1,388 1,443 1,653 1,741 2,073 2,826 3,552 4,059 5,481 6,886 9,683 11,037 997 936 1,027 1,035 1,005 1,016	107 118 122 140 148 176 240 301 344 465 584 821 936 85 799 87 88 85 787 88 893 935	104 115 119 137 144 171 233 293 335 453 569 800 910 822 77 75 85 85 85 85 90 92
1997 Total 186 1998 Total 202 1999 Total 211 2001 Total 233 2001 Total 233 2002 Total 307 2003 Total 400 2004 Total 484 2005 Total 400 2006 Total 688 2007 Total 914 2008 Total 914 2008 Total 688 2007 Total 914 2008 Total 1,517 2010 January 149 February 138 April 147 May 152 June 149 July 154 August 157 September 165 Total 1,839 2011 January 165 February 146 March 163 April 158 July 158 July 158 July 158	2 86 1 90 3 99 3 108 7 130 0 169 4 203 2 230 8 285 4 376 0 531 7 616 9 60 8 56 4 62 7 59 2 61	6 669 6 688 773 8 841 1 1,019 1,335 6 1,621 1,859 6 2,326 6 3,105 6 3,105 6 4,433 6 5,688 9 541 6 496 537 7 522 534 522 534	33,453 34,881 38,627 42,028 50,956 66,772 81,058 92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632 26,584	1,405 1,465 1,622 1,765 2,140 2,804 3,404 4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	119 124 138 150 182 2389 331 414 553 790 928 91 85 94 90 93 91 91 91 91	667 87 116 315 306 292 3,542 3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -827 -368 -341 -578	3,406 4,024 3,400 4,298 6,200 5,978 6,002 5,563 8,760 10,535 14,226 16,594 18,251 19,297 20,222 20,042 19,851 18,565	481 618 -624 898 1,902 -222 24 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	33,038 34,350 39,367 41,445 49,360 67,286 84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	1,388 1,443 1,653 1,741 2,826 4,059 5,481 6,886 9,683 11,037 936 1,027 1,035 1,025 1,015	118 122 140 148 176 240 301 344 465 584 821 936 85 79 87 88 85 788 83 936	115 119 137 144 171 233 293 335 453 569 800 910 82 77 85 85 85 85 90 92
1999 Total 211 2000 Total 233 2001 Total 233 2002 Total 307 2003 Total 400 2004 Total 484 2005 Total 484 2006 Total 688 2007 Total 914 2008 Total 1,300 2009 Total 1,300 2009 Total 1,417 2009 Total 1,517 2010 January 149 February 138 March 152 June 152 June 152 June 152 October 165 December 165 Total 1,839 2011 January 165 February 146 May 162 September 152 October 162 September 162 September 162 September 162 September	1 90 3 99 3 108 7 130 0 169 4 203 2 230 8 285 4 376 0 531 7 616 9 60 8 56 4 62 7 59 2 61	698 773 841 1,019 1,335 1,621 1,859 2,326 3,105 4,433 5,688 5,795	34,881 38,627 42,028 50,956 66,772 81,058 92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632 26,584	1,465 1,622 1,765 2,140 2,804 3,904 4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	124 138 1500 1822 238 238 3311 414 553 790 928 91 85 94 90 90 93 91 91 91 95	87 116 315 306 292 3,542 3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	4,024 3,400 4,298 6,200 5,978 6,002 5,563 8,760 10,535 14,226 16,594 18,251 18,251 18,257 20,222 20,042 19,851 18,565	618 -624 898 1,902 -222 24 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	34,350 39,367 41,445 49,360 67,286 84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	1,443 1,653 1,741 2,073 2,826 3,552 4,059 5,481 6,886 9,683 11,037 936 1,027 1,035 1,095 1,116	122 140 148 176 240 301 344 465 584 82 936 85 79 936 85 79 87 88 893 935	119 137 144 171 233 335 453 335 453 800 910 82 77 85 85 85 85 90 92
2000 Total 233 2001 Total 253 2002 Total 307 2003 Total 400 2004 Total 484 2005 Total 552 2006 Total 688 2007 Total 914 2008 Total 1,300 2009 Total 1,517 2010 January 149 February 138 March 154 April 147 May 152 June 149 July 154 August 157 September 162 October 166 November 161 December 166 March 163 April 154 May 162 September 162 June 158 July 159 August 162 September 162 September 162	3 99 3 108 7 130 0 169 4 203 2 230 8 285 4 376 0 531 7 616 9 60 8 56 4 62 7 59 2 61	$\begin{array}{c} 773\\841\\91,019\\91,335\\1,621\\91,335\\1,621\\91,335\\2,326\\3,105\\4,433\\6,5,688\\9,5,6$	38,627 42,028 50,956 66,772 81,058 92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632 26,584	1,622 1,765 2,140 2,804 3,404 3,904 4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	138 150 182238 289 331 414 553 790 928 91 85 94 90 93 91 91 91 91	116 315 306 292 3,542 3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	3,400 4,298 6,200 5,978 6,002 5,563 8,760 10,535 14,226 16,594 18,251 19,297 20,222 20,042 19,851 18,565	-624 898 1,902 -222 24 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	39,367 41,445 49,360 67,286 84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	1,653 1,741 2,073 2,826 3,552 4,059 5,481 6,886 9,683 11,037 997 936 1,027 1,035 1,095 1,116	140 148 176 240 301 344 465 584 821 936 85 79 87 88 85 79 87 88 893 95	137 144 171 233 293 335 453 569 800 910 822 77 85 85 85 85 90 92
2001 Total 253 2002 Total 307 2003 Total 400 2004 Total 452 2005 Total 552 2006 Total 552 2006 Total 914 2007 Total 914 2008 Total 1,300 2009 Total 1,517 2010 January 149 February 138 March 154 April 147 June 149 July 154 August 157 September 152 October 160 November 161 December 162 June 148 June 146 March 163 April 154 May 162 September 162 June 158 July 159 August 162 September 164	3 108 7 130 0 169 4 203 2 230 8 285 4 376 50 531 7 616 9 60 8 56 4 62 7 59 2 61	841 1,019 1,335 1,621 1,859 2,326 3,105 4,433 5,688 5,341 5,34 522 5,34 522 5,43	42,028 50,956 66,772 81,058 92,961 116,294 155,263 221,637 260,424 25,625 26,486 25,384 26,244 25,632 26,584	1,765 2,140 2,804 3,404 4,884 4,884 4,6521 9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	150 182 238 289 331 414 553 790 928 91 855 94 90 93 91 91 95	315 306 292 3,542 3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	4,298 6,200 5,978 6,002 5,563 8,760 10,535 14,226 16,594 18,251 19,297 20,222 20,042 19,851 18,565	898 1,902 -222 24 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	41,445 49,360 67,286 84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	1,741 2,073 2,826 3,552 4,059 5,481 6,886 9,683 11,037 997 936 1,027 1,035 1,016	148 176 240 301 344 465 584 821 936 85 79 87 88 893 93	144 171 233 293 335 453 569 800 910 82 77 85 85 85 85 90 92
2002 Total 307 2003 Total 400 2004 Total 484 2005 Total 688 2007 Total 914 2008 Total 1,300 2009 Total 1,517 2010 January 149 February 138 March 154 April 147 May 152 June 149 July 154 August 157 September 152 October 166 November 161 December 165 Total 1,839 2011 January 165 February 146 May 160 June 163 April 154 March 163 April 154 May 160 June 162 September 152 July 158 Jul	7 130 0 169 4 203 2 230 8 285 4 376 0 531 7 616 9 60 8 56 4 62 7 59 2 61	$\begin{array}{c} 1,019\\ 1,335\\ 1,621\\ 1,859\\ 2,326\\ 3,105\\ 4,433\\ 5,688\\ 0 \\ 541\\ 5 \\ 496\\ 537\\ 522\\ 534\\ 0 \\ 522\\ 534\\ 542\\ 534\\ 542\\ 542\\ 542\\ 542\\ 542\\ 542\\ 542\\ 54$	50,956 66,772 81,058 92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632 26,584	2,140 2,804 3,404 3,904 4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	182 238 289 331 414 553 790 928 91 85 94 90 93 91 91 95	306 292 3,542 3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	6,200 5,978 6,002 5,563 8,760 10,535 14,226 16,594 18,251 19,297 20,222 20,042 19,851 18,565	1,902 -222 24 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	49,360 67,286 84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	2,073 2,826 3,552 4,059 5,481 6,886 9,683 11,037 997 936 1,027 1,035 1,016	176 240 301 344 465 584 821 936 85 79 87 88 87 88 93 93	171 233 293 335 569 800 910 82 77 75 85 85 85 85 90 92
2003 Total 400 2004 Total 484 2005 Total 552 2006 Total 688 2007 Total 914 2008 Total 1,300 2009 Total 1,517 2010 January 149 February 138 March 154 April 147 May 152 June 149 July 154 August 157 September 165 October 160 November 161 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 May 160 June 158 July 159 August 162 September 164 October 162 September 164	4 203 2 230 8 285 4 376 0 531 7 616 9 60 8 56 4 62 7 59 2 61	; 1,621 1,859 2,326 3,105 4,433 5,688 5,688 541 541 541 541 541 541 541 541	81,058 92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632 26,584	3,404 3,904 4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	289 331 414 553 790 928 91 85 94 90 93 93 91 95	3,542 3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	6,002 5,563 8,760 10,535 14,226 16,594 18,251 19,297 20,222 20,042 19,851 18,565	24 -439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	84,576 96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	2,826 3,552 4,059 5,481 6,886 9,683 11,037 997 936 1,027 1,035 1,095 1,116	301 344 465 584 821 936 85 79 87 87 88 93 93 93	293 335 453 569 800 910 82 77 85 85 85 85 90 92
2004 Total 484 2005 Total 552 2006 Total 688 2007 Total 914 2008 Total 1,300 2009 Total 1,517 2010 January 149 February 138 March 154 April 147 June 149 July 154 August 157 September 152 October 160 November 161 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 May 162 September 154 May 162 September 162 June 158 July 152 September 162 November 164 December 162	2 230 8 285 4 376 0 531 7 616 9 60 8 56 4 62 7 59 61 61	1,859 2,326 3,105 4,433 5,688 5,6988 5,698 5,698 5,6985 5,6985 5,6985 5,6985 5,6985 5,6985 5,6985 5,69	92,961 116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632 26,584	3,904 4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	331 414 553 790 928 91 85 94 90 93 93 91 95	3,234 17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	5,563 8,760 10,535 14,226 16,594 18,251 19,297 20,222 20,042 19,851 18,565	-439 3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	96,634 130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	4,059 5,481 6,886 9,683 11,037 997 936 1,027 1,035 1,095 1,116	344 465 584 821 936 85 79 87 87 87 88 88 93 95	335 453 569 800 910 82 77 85 85 85 90 92
2006 Total 688 2007 Total 914 2008 Total 1,300 2009 Total 1,517 2010 January 149 February 138 March 154 April 147 March 154 June 149 July 154 August 157 September 152 October 160 November 161 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 May 160 June 158 July 159 August 162 September 162 November 162 November 162 November 164 December 162 November 164 <	8 285 4 376 0 531 7 616 9 60 8 56 4 62 7 59 2 61	2,326 3,105 4,433 5,688 541 496 537 522 534 522 534 522 534	116,294 155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632 26,584	4,884 6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	414 553 790 928 91 85 94 90 93 93 91 95	17,408 10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	8,760 10,535 14,226 16,594 18,251 19,297 20,222 20,042 19,851 18,565	3,197 1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	130,505 163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	5,481 6,886 9,683 11,037 997 936 1,027 1,035 1,095 1,116	465 584 821 936 85 79 87 87 87 88 93 95	453 569 800 910 82 77 85 85 85 90 90
2007 Total 914 2008 Total 1,300 2009 Total 1,517 2010 January 149 February 138 March 154 April 147 May 152 June 149 July 154 August 157 September 152 October 166 Total 1,839 2011 January 165 February 146 March 163 April 148 July 154 November 165 Total 1,839 2011 January 165 February 146 May 160 June 158 July 158 July 152 September 164 December 164 December 164 December 164 Dece	4 376 0 531 7 616 9 60 8 56 4 62 7 59 2 61	3,105 4,433 5,688 541 496 537 522 534 522 534 522 543	155,263 221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632 26,584	6,521 9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	553 790 928 91 85 94 90 93 91 95	10,457 12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	10,535 14,226 16,594 18,251 19,297 20,222 20,042 19,851 18,565	1,775 3,691 2,368 1,657 1,046 925 -180 -191 -1,286	163,945 230,556 262,776 23,734 22,274 24,457 24,637 26,067	6,886 9,683 11,037 997 936 1,027 1,035 1,095 1,116	584 821 936 85 79 87 88 93 93	569 800 910 82 77 85 85 85 90 92
2008 Total 1,300 2009 Total 1,517 2010 January 149 February 138 March 154 April 147 May 152 June 149 July 154 August 157 September 152 October 166 November 161 December 165 Total 1,839 2011 January 165 Total 1,54 May 165 September 161 December 165 Total 1,839 2011 January 165 July 159 August 162 July 159 August 162 September 164 December 162 November 164 December 162 November 164 <	0 531 7 616 9 60 8 56 4 62 7 59 2 61	4,433 5,688 5,688 541 496 537 522 534 522 534 522 543	221,637 260,424 25,625 23,802 26,486 25,384 26,244 25,632 26,584	9,309 10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	790 928 91 85 94 90 93 91 95	12,610 4,720 -234 -482 -1,104 -927 -368 -341 -578	14,226 16,594 18,251 19,297 20,222 20,042 19,851 18,565	3,691 2,368 1,657 1,046 925 -180 -191 -1,286	230,556 262,776 23,734 22,274 24,457 24,637 26,067	9,683 11,037 997 936 1,027 1,035 1,095 1,116	821 936 85 79 87 88 93 95	800 910 82 77 85 85 85 90 92
2009 Total 1,517 2010 January 149 February 138 March 154 April 114 June 149 July 152 July 154 August 157 September 152 October 160 November 161 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 May 160 June 158 July 159 August 162 September 164 October 162 November 164 December 162 November 162 November 164 December 172 Total 1,919 2012 January 167	7 616 9 60 8 56 4 62 7 59 2 61	5,688 541 496 537 522 534 522 534 522 534	260,424 25,625 23,802 26,486 25,384 26,244 25,632 26,584	10,938 1,076 1,000 1,112 1,066 1,102 1,077 1,117	928 91 85 94 90 93 91 95	4,720 -234 -482 -1,104 -927 -368 -341 -578	16,594 18,251 19,297 20,222 20,042 19,851 18,565	2,368 1,657 1,046 925 -180 -191 -1,286	262,776 23,734 22,274 24,457 24,637 26,067	11,037 997 936 1,027 1,035 1,095 1,116	936 85 79 87 88 93 95	910 82 77 85 85 90 92
February 138 March 154 April 147 May 152 June 149 July 154 August 157 September 152 October 160 December 165 Total 1,839 2011 January 165 February 146 May 163 April 154 May 165 February 146 May 163 April 154 May 165 June 158 July 159 August 162 September 164 December 164 December 172 Total 1,919 2012 January 167	8 56 4 62 7 59 2 61	496 537 522 534 522 543	23,802 26,486 25,384 26,244 25,632 26,584	1,000 1,112 1,066 1,102 1,077 1,117	85 94 90 93 91 95	-482 -1,104 -927 -368 -341 -578	19,297 20,222 20,042 19,851 18,565	1,046 925 -180 -191 -1,286	22,274 24,457 24,637 26,067	936 1,027 1,035 1,095 1,116	79 87 88 93 95	77 85 85 90 92
February 138 March 154 April 147 May 152 June 149 July 154 August 157 September 152 October 160 November 161 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 June 158 July 159 August 162 September 164 October 162 September 154 October 162 November 164 December 164 December 172 Total 1,919 2012 January 167	4 62 7 59 2 61	537 522 534 522 522 543	26,486 25,384 26,244 25,632 26,584	1,112 1,066 1,102 1,077 1,117	94 90 93 91 95	-1,104 -927 -368 -341 -578	20,222 20,042 19,851 18,565	925 -180 -191 -1,286	24,457 24,637 26,067	1,027 1,035 1,095 1,116	87 88 93 95	85 85 90 92
April 147 May 152 June 149 July 154 August 157 September 152 October 160 November 161 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 May 160 June 158 July 159 August 162 September 162 September 164 December 162 September 164 December 162 November 164 December 162 November 164 December 172 Total 1,919 2012 January 167	7 59 2 61	522 534 522 543	25,384 26,244 25,632 26,584	1,066 1,102 1,077 1,117	90 93 91 95	-927 -368 -341 -578	20,042 19,851 18,565	-180 -191 -1,286	24,637 26,067	1,035 1,095 1,116	88 93 95	85 90 92
May 152 June 149 July 154 August 157 September 152 October 160 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 July 159 July 159 July 162 September 164 October 162 September 164 October 162 September 164 December 162 November 164 December 172 Total 1,919 2012 January 167	2 61	534 522 543	26,244 25,632 26,584	1,102 1,077 1,117	93 91 95	-368 -341 -578	19,851 18,565	-191 -1,286	26,067	1,095 1,116	93 95	90 92
June 149 July 154 August 157 September 152 October 160 November 161 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 July 159 August 162 September 162 September 164 October 162 September 154 October 162 September 164 December 164 December 164 December 172 Total 1,919 2012 January 167		522 543	25,632 26,584	1,077 1,117	91 95	-341 -578	18,565	-1,286		1,116	95	92
July 154 August 157 September 152 October 160 November 161 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 July 159 August 162 September 164 October 162 September 154 October 162 September 154 October 162 November 164 December 162 November 164 December 172 Total 1,919 2012 January 167	9 60	543	26,584	1,117	95	-578			20,577			
August 157 September 152 October 160 November 161 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 July 158 July 158 July 158 July 152 September 164 December 164 October 162 November 164 December 172 Total 1,919 2012 January 167								-756	26,762	1.124	95	
September 152 October 160 November 161 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 July 158 July 158 July 158 October 162 September 154 October 162 September 164 December 162 November 164 December 172 Total 1,919 2012 January 167							17,380	-429	26.698	1.121	95	93
October 160 November 161 December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 July 159 August 162 September 164 October 162 September 164 December 162 September 164 December 162 November 164 December 172 Total 1,919 2012 January 167			26,221	1,101	93	-924	17,437	57	25,240	1,060	90	88
December 165 Total 1,839 2011 January 165 February 146 March 163 April 154 May 160 June 158 July 159 August 162 September 154 October 162 November 164 December 162 November 164 December 172 Total 1,919 2012 January 167			27,471	1,154	98	-830	17,278	-159	26,800	1,126	95	93
Total 1,839 2011 January 165 February 146 March 163 April 154 May 160 June 158 July 159 August 162 September 164 October 162 November 164 December 172 Total 1,919 2012 January 167			27,747	1,165	99	-923	18,150	872	25,952	1,090	92	90
2011 January 165 February 146 March 163 April 154 May 160 June 158 July 159 August 162 September 154 October 162 November 164 December 172 Total 1,919 2012 January 167			28,457 316,617	1,195 13,298	101 1,127	-1,711 -9,115	17,941 17,941	-209 1,347	26,955 306,155	1,132 12,858	96 1,090	93 1,061
February 146 March 163 April 154 May 160 June 158 July 159 August 162 September 164 October 162 November 164 December 172 Total 1,919 2012 January 167	5 66	581	28.467	1,196	101	-1,359	20.826	2,885	24.223	1.017	86	84
March 163 April 154 May 160 June 158 July 159 August 162 September 154 October 162 November 164 December 172 Total 1,919 2012 January 167			25,300	1,063	90	-1.425	21,016	190	23.685	995	84	82
April 154 May 160 June 158 July 159 August 162 September 154 October 162 November 164 December 172 Total 1,919 2012 January 167			28,178	1,183	100	-2,003	21,593	577	25,598	1,075	91	89
June 158 July 159 August 162 September 154 October 162 November 164 December 172 Total 1,919 2012 January 167			26,538	1,115	94	-2,865	21,065	-528	24,201	1,016	86	84
July 159 August 162 September 154 October 162 November 164 December 172 Total 1,919 2012 January 167			27,720	1,164	99	-1,743	20,609	-456	26,433	1,110	94	92
August 162 September 154 October 162 November 164 December 172 Total 1,919 2012 January 167			27,224	1,143	97	-1,533	19,217	-1,392	27,083	1,137	96	94
September 154 October 162 November 164 December 172 Total 1,919 2012 January 167			27,541 27,976	1,157 1.175	98 100	-2,731 -665	18,788 18,123	-429 -665	25,239 27,976	1,060 1,175	90 100	88 97
October 162 November 164 December 172 Total 1,919 2012 January 167			26,588	1,175	95	-1.745	18,465	-005 342	24,976	1,175	87	85
November 164 December 172 Total 1,919 2012 January 167			28,013	1,177	100	-2,388	18,038	-427	26,052	1,023	93	90
December 172 Total 1,919 2012 January 167			28,383	1,192	101	-2,911	18,308	270	25,202	1,058	90	87
Total 1,919 2012 January 167			29,718	1,248	106	-2,997	18,238	-70	26,791	1,125	95	93
2012 January 167	9 769	6,649	331,646	13,929	1,181	-24,365	18,238	297	306,984	12,893	1,093	1,065
			29,063 26,653	1,221 1,119	103 95	-1,789 -1,785	21,753 22,572	ⁱ 3,492 819	23,782 24,049	999 1,010	85 86	82 83
February 154 March 160			20,053	1,119	95	-1,765	22,572	380	24,049	1,010	00 91	89
April 152			26,368	1,104	94	-1.549	22,352	-582	25,401	1.067	90	88
May 160	/ 61		27,718	1,164	99	-1,013	21,851	-519	27,224	1,143	97	95
June 154			26,611	1,118	95	-613	21,456	-395	26,393	1,109	94	92
July 146	0 64 4 61		25,329	1,064	90	-502	20,373	-1,083	25,910	1,088	92	90
August 151	0 64 4 61 6 58		26,194	1,100	93	654	19,369	-1,004	27,852	1,170	99	97
September 141	0 64 4 61 6 58 1 60		24,511	1,029	87	694	20,044	675	24,530	1,030	87	85
October 146 10-Month Total 1,531	0 64 4 61 6 58 1 60 1 56		25,352 265,505	1,065 11,151	90 945	609 -6,920	18,762 18,762	-1,282 501	27,243 258,084	1,144 10,840	97 919	94 895
2011 10-Month Total 1,583 2010 10-Month Total 1,513	0 64 4 61 6 58 1 60 1 56 6 58	5,205	273,545	11,489	974	-18,457 -6,481	18,038	97	254,991 253,248	10,710 10,636	908 902	884 878

Table 10.3 Fuel Ethanol Overview

^a Total corn and other biomass inputs to the production of undenatured ethanol used for fuel ethanol. ^b Losses and co-products from the production of fuel ethanol. Does not include

natural gas, electricity, and other non-biomass energy used in the production of fuel ethanol-these are included in the industrial sector consumption statistics for the c The amount of denaturant in fuel ethanol produced.

d

^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 2011 stocks value (18,261 thousand barrels), not the final 2011 value (18,238 thousand barrels) that is shown under "Stocks." NA=Not available. Notes: • Mbbl = thousand barrels. MMgal = million U.S. gallons. TBtu = trillion Btu. • Fuel ethanol data in thousand barrels are converted to million gallons by multiplying by 0.042, and are converted to Btu by multiplying by the approximate heat content of fuel ethanol—see Table A3. • Through 1980, data are not available. For 1981-1992, data are estimates. For 1993-2008, only data for feedstock, losses and co-products, and denaturant are estimates. Beginning in 2009, only data for feedstock, and losses and co-products, and benaturant, "Ethanol," "ruel Ethanol," and "Fuel Ethanol Minus Denaturant," in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Columbia.

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

							Trade							
	Feed- stock ^a	Losses and Co- products ^b	Р	roduction		Imports	Exports	Net Imports ^c	Stocksd	Stock Change ^e	Bal- ancing Item ^f	Co	nsumptio	n
	TBtu	TBtu	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu
2001 Total	1	(s)	204	9	1	78	39	39	NA	NA	NA	243	10	1
2002 Total	1	(s)	250	10	1	191	56	135	NA	NA	NA	385	16	2
2003 Total	2	(s)	338	14	2	94	110	-16	NA	NA	NA	322	14	2
2004 Total	4	(s)	666	28	4	97	124	-26	NA	NA	NA	640	27	3
2005 Total	12	(s)	2,162	91	12	207	206	1	NA	NA	NA	2,163	91	12
2006 Total	32	(s)	5,963	250	32	1,069	828	242	NA	NA	NA	6,204	261	33
2007 Total	63	1	11,662	490	62	3,342	6,477	-3,135	NA	NA	NA	8,528	358	46
2008 Total	88	1	16,145	678	87	7,502	16,128	-8,626	NA	NA	NA	7,519	316	40
2009 Total	67	1	12,281	516	66	1,844	6,332	-4,489	711	711	669	7,750	326	42
2010 January	3	(s)	633	27	3	41	296	-256	1,049	338	0	40	2	(s) 3
February	4	(s)	696	29	4	31	139	-108	1,039	-10	0	599	25	3
March	4	(s)	804	34	4	60	433	-374	1,057	18	0	412	17	2
April	4	(s)	814	34	4	45	227	-182	1,009	-48	0	680	29	4
May	4	(s)	760	32	4	80	251	-171	1,016	7	0	582 443	24	3
June	4	(s)	644 657	27	3	54 32	304 199	-249	968	-48	0	443 628	19 26	2 3
July	4	(s)	653	28 27	4 3	32 52	225	-167 -173	830 771	-138 -59	0	628 539	26 23	3
August	4	(s) (s)	723	30	3 4	52 69	131	-173	682	-59 -89	0	539 749	23 31	3 4
September October	4	(S) (S)	676	28	4	18	131	-62 -114	650	-69 -32		749 594	25	4
November	3	(S) (S)	528	20	4	30	57	-114	676	-32	0	475	20	3
December	3	(s)	588	25	3	34	109	-75	672	-4	0 0	517	20	3
Total	44	(5)	8,177	343	44	546	2,503	-1, 958	672	-39	o o	6,258	263	34
2011 January	5	(s)	842	35	5	49	217	-169	1,016	^g 39	0	634	27	3
February	5	(s)	961	40	5	37	88	-51	1,010	201	ŏ	709	30	4
March	8	(s)	1,419	60	8	53	197	-144	1,381	164	ŏ	1.111	47	6
April	9	(s)	1,692	71	9	52	222	-169	1,408	27	Ő	1.495	63	8
May	10	(s)	1.838	77	10	48	192	-144	1.576	168	Ő	1.526	64	8
June	11	(s)	1,938	81	10	48	117	-69	1,524	-53	Ō	1.922	81	10
July	12	(s)	2,183	92	12	62	142	-80	1.748	224	Ō	1,879	79	10
August	12	(s)	2,273	95	12	65	71	-7	1,834	86	Ō	2,181	92	12
September	12	(s)	2,284	96	12	65	193	-127	1,617	-216	0	2,373	100	13
October	14	(s)	2,508	105	13	82	132	-49	1,965	347	0	2,111	89	11
November	14	(s)	2,494	105	13	66	131	-65	1,877	-88	0	2,517	106	13
December	14	(s)	2,604	109	14	234	39	195	2,012	135	0	2,664	112	14
Total	125	2	23,035	967	123	861	1,740	-879	2,012	^g 1,035	0	21,122	887	113
2012 January	9	(s)	1,700	71	9	44	248	-204	2,527	^h 625	0	872	37	5
February	10	(s)	1,837	77	10	58	119	-62	2,869	342	0	1,433	60	8
March	12	(s)	2,193	92	12	55	149	-93	3,053	184	0	1,915	80	10
April	12	(s)	2,180	92	12	49	221	-171	2,932	-121	0	2,130	89	11
May	13	(s)	2,373	100	13	94	306	-212	2,514	-418	0	2,579	108	14
June	12	(s)	2,162	91	12	102	375	-273	2,363	-151	0	2,039	86	11
July	11	(s)	2,065	87	11	160	408	-248	2,253	-110	0	1,927	81	10
August	12	(s)	2,140	90	11	43	386	-342	2,003	-250	0	2,048	86	11
September	11	(s)	1,935	81	10	81	282	-202	2,060	57	0	1,676	70	9
October	10	(s)	1,781	75	10	33	200	-167	2,183	123	0	1,491	63	8
10-Month Total	111	2	20,366	855	109	720	2,695	-1,974	2,183	281	0	18,110	761	97
2011 10-Month Total 2010 10-Month Total	97 38	1	17,938 7,061	753 297	96 38	561 482	1,570 2,338	-1,009 -1,856	1,965 650	988 -61	0	15,941 5,266	670 221	85 28

Table 10.4 **Biodiesel Overview**

Total vegetable oil and other biomass inputs to the production of biodiesel.

^b Losses and co-products from the production of biodiesel. Does not include natural gas, electricity, and other non-biomass energy used in the production of biodiesel-these are included in the industrial sector consumption statistics for the

biodiesel—these are included in the industrial sector consumption statistics for the appropriate energy source. ^c Net imports equal imports minus exports. ^d Stocks are at end of period. Through 2010, includes stocks at bulk terminals only. Beginning in 2011, includes stocks at bulk terminals and biodiesel production

Plants. ^e A negative value indicates a decrease in stocks and a positive value indicates

A frequency value indicates a provide the second se

only (672 thousand barrels) that is shown under "Stocks." ⁿ Derived from the preliminary 2011 stocks value (1,902 thousand barrels), not the final 2011 value (2,012 thousand barrels) that is shown under "Stocks."

the final 2011 value (2,012 thousand barrels) that is shown 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. So 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.

Renewable Energy

Note. Renewable Energy Production and Consumption. 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-heatand-power (CHP) plants are calculated as total wood consumption at electricity-only and CHP plants (MER, Table 7.4a) minus wood consumption in the electric power sector (MER, Table 7.4b) and at industrial CHP plants (MER, Table 7.4c). Annual estimates for wood consumption at other commercial plants are based on Form EIA-871 (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Commercial Sector, Biomass Waste

EIA, MER, Table 7.4c.

Commercial Sector, Fuel Ethanol (Minus Denaturant) EIA, MER, Tables 3.5, 3.7a, and 10.3. Calculated as commercial sector motor gasoline consumption (Table 3.7a) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Table 10.2b Sources

Industrial Sector, Hydroelectric Power

Industrial sector conventional hydroelectricity net generation data from Table 7.2c are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Geothermal

Oregon Institute of Technology, Geo-Heat Center. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Industrial Sector, Solar/PV

2010 forward: Industrial sector solar thermal and photovoltaic (PV) electricity net generation data from the U.S. Energy Information Administration (EIA), Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Wind

2011 forward: Industrial sector wind electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Industrial Sector, Wood

1973–1979: EIA, *Estimates of U.S. Wood Energy Consumption from 1949 to 1981*, Table A2.

1980–1983: EIA, Estimates of U.S. Wood Energy Consumption 1980-1983, Table ES1.

1984: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 1.

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of Biofuels Consumption in the United States During 1987*, Table 2.

1988: Value interpolated.

1989 forward: EIA, *Monthly Energy Review (MER)*, Table 7.4c; and EIA estimates based on Form EIA-846, "Manufacturing Energy Consumption Survey." Data for wood consumption at industrial combined-heat-and-power (CHP) plants are from MER, Table 7.4c. Annual estimates for wood consumption at other industrial plants are based on Form EIA-846 (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Biomass Waste

1981: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1982 and 1983: EIA estimates for total waste consumption based on *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1984: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8; and EIA, MER, Table 10.2c. Estimates are calculated as total waste consumption minus electric power sector waste consumption.

1988: Value interpolated.

1989 forward: EIA, MER, Table 7.4c; and EIA estimates based on information presented in Government Advisory Associates, *Resource Recovery Yearbook* and *Methane Recovery Yearbook*, and information provided by the U.S. Environmental Protection Agency, Landfill Methane Outreach Program. Data for waste consumption at industrial CHP plants are from MER, Table 7.4c. Annual estimates for waste consumption at other industrial plants are based on the non-EIA sources listed above (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Industrial Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7b, and 10.3. Calculated as industrial sector motor gasoline consumption (Table 3.7b) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Industrial Sector, Losses and Co-products

Calculated as fuel ethanol losses and co-products (Table 10.3) plus biodiesel losses and co-products (Table 10.4).

Transportation Sector, Fuel Ethanol (Minus Denaturant)

EIA, MER, Tables 3.5, 3.7c, and 10.3. Calculated as transportation sector motor gasoline consumption (Table 3.7c) divided by total motor gasoline product supplied (Table 3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Transportation Sector, Biodiesel

EIA, MER, Table 10.4. Transportation sector biodiesel consumption is assumed to equal total biodiesel consumption.

Table 10.3 Sources

Feedstock

Calculated as fuel ethanol production (in thousand barrels) minus denaturant, and then multiplied by the fuel ethanol feedstock factor—see Table A3.

Losses and Co-products

Calculated as fuel ethanol feedstock plus denaturant minus fuel ethanol production.

Denaturant

1981–2008: Data in thousand barrels for petroleum denaturant in fuel ethanol produced are estimated as 2 percent of fuel ethanol production; these data are converted to Btu by multiplying by 4.645 million Btu per barrel (the estimated quantity-weighted factor of pentanes plus and conventional motor gasoline used as denaturant).

2009–2011: U.S. Energy Information Administration (EIA), *Petroleum Supply Annual (PSA)*, annual reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

2012: EIA, *Petroleum Supply Monthly (PSM)*, monthly reports, Table 1. Data in thousand barrels for net production of pentanes plus at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 4.620 million Btu per barrel (the approximate

heat content of pentanes plus). Data in thousand barrels for net production of conventional motor gasoline and motor gasoline blending components at renewable fuels and oxygenate plants are multiplied by -1; these data are converted to Btu by multiplying by 5.253 million Btu per barrel (the approximate heat content of conventional motor gasoline). Total denaturant is the sum of the values for pentanes plus, conventional motor gasoline, and motor gasoline blending components.

Production

1981–1992: Fuel ethanol production is assumed to equal fuel ethanol consumption—see sources for "Consumption."

1993–2004: Calculated as fuel ethanol consumption plus fuel ethanol stock change minus fuel ethanol net imports. These data differ slightly from the original production data from EIA, Form EIA-819, "Monthly Oxygenate Report," and predecessor form, which were not reconciled and updated to be consistent with the final balance.

2005–2008: EIA, Form EIA-819, "Monthly Oxygenate Report."

2009–2011: EIA, PSA, annual reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

2012: EIA, PSM, monthly reports, Table 1, data for net production of fuel ethanol at renewable fuels and oxygenate plants.

Trade, Stocks, and Stock Change

1992-2011: EIA, PSA, annual reports, Table 1.

2012: EIA, PSM, monthly reports, Table 1.

Consumption

1981–1989: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 10; and interpolated values for 1982, 1983, 1985, 1986, and 1988.

1990–1992: EIA, *Estimates of U.S. Biomass Energy Consumption 1992*, Table D2; and interpolated value for 1991.

1993–2004: EIA, PSA, annual reports, Tables 2 and 16. Calculated as 10 percent of oxygenated finished motor gasoline field production (Table 2), plus fuel ethanol refinery input (Table 16).

2005–2008: EIA, PSA, annual reports, Tables 1 and 15. Calculated as motor gasoline blending components adjustments (Table 1), plus finished motor gasoline adjustments (Table 1), plus fuel ethanol refinery and blender net inputs (Table 15). 2009–2011: EIA, PSA, annual reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

2012: EIA, PSM, monthly reports, Table 1. Calculated as fuel ethanol refinery and blender net inputs minus fuel ethanol adjustments.

Consumption Minus Denaturant

Calculated as fuel ethanol consumption minus the amount of denaturant in fuel ethanol consumed. Denaturant in fuel ethanol consumed is estimated by multiplying denaturant in fuel ethanol produced by the fuel ethanol consumption-to-production ratio.

Table 10.4 Sources

Feedstock

Calculated as biodiesel production in thousand barrels multiplied by 5.433 million Btu per barrel (the biodiesel feedstock factor—see Table A3).

Losses and Co-products

Calculated as biodiesel feedstock minus biodiesel production.

Production

2001–2005: U.S. Department of Agriculture, Commodity Credit Corporation, Bioenergy Program records. Annual data are derived from quarterly data. Monthly data are estimated by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month.

2006: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for soybean oil consumed in methyl esters (biodiesel). In addition, the U.S. Energy Information Administration (EIA) estimates that 14.4 million gallons of yellow grease were consumed in methyl esters (biodiesel).

2007: U.S. Department of Commerce, Bureau of the Census, "M311K—Fats and Oils: Production, Consumption, and Stocks," data for all fats and oils consumed in methyl esters (biodiesel).

2008: EIA, *Monthly Biodiesel Production Report*, December 2009 (release date October 2010), Table 11. Monthly data for 2008 are estimated based on U.S. Department of

Commerce, Bureau of the Census, M311K data, multiplied by the EIA 2008 annual value's share of the M311K 2008 annual value.

2009 forward: EIA, *Monthly Biodiesel Production Report*, monthly reports, Table 1.

Trade

For imports, U.S. Department of Agriculture, data for the Harmonized Tariff following Schedule codes: 3824.90.40.20, "Fatty Esters Animal/Vegetable Mixture" (data through June 2010); 3824.90.40.30, "Biodiesel/Mixes" (data for July 2010-2011); 3826.00.00.00, "Biodiesel B30-99" (data for 2012); and 3826.00.10.00, "Biodiesel B100" (data for 2012). For exports, U.S. Department of Agriculture, data for the following Schedule B codes: 3824.90.40.00, "Fatty Substances Animal/ Vegetable/Mixture" (data through 2010); 3824.90.40.30, "Biodiesel <70%" (data for 2011); and 3826.00.00.00, "Biodiesel B=>30" (data for 2012). Although these categories include products other than biodiesel (such as biodiesel coprocessed with petroleum feedstocks; and products destined for soaps, cosmetics, and other items), biodiesel is the largest component. In the absence of other reliable data for biodiesel trade, EIA sees these data as good substitutes.

Stocks and Stock Change

2009–2011: EIA, *Petroleum Supply Annual (PSA)*, annual reports, Table 1, data for renewable fuels except fuel ethanol.

2012: EIA, *Petroleum Supply Monthly*, monthly reports, Table 1, data for renewable fuels except fuel ethanol.

Balancing Item

Calculated as biodiesel consumption and biodiesel stock change minus biodiesel production and biodiesel net imports.

Consumption

2001–2008: Calculated as biodiesel production plus biodiesel net imports.

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

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

11. International Petroleum

Figure 11.1a World Crude Oil Production Overview

(Million Barrels per Day)

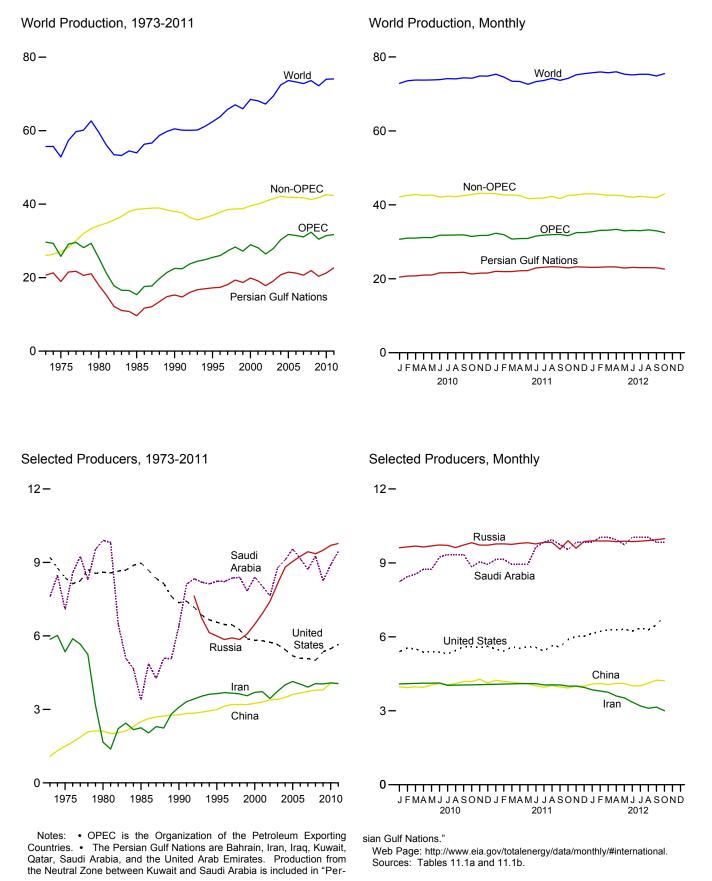
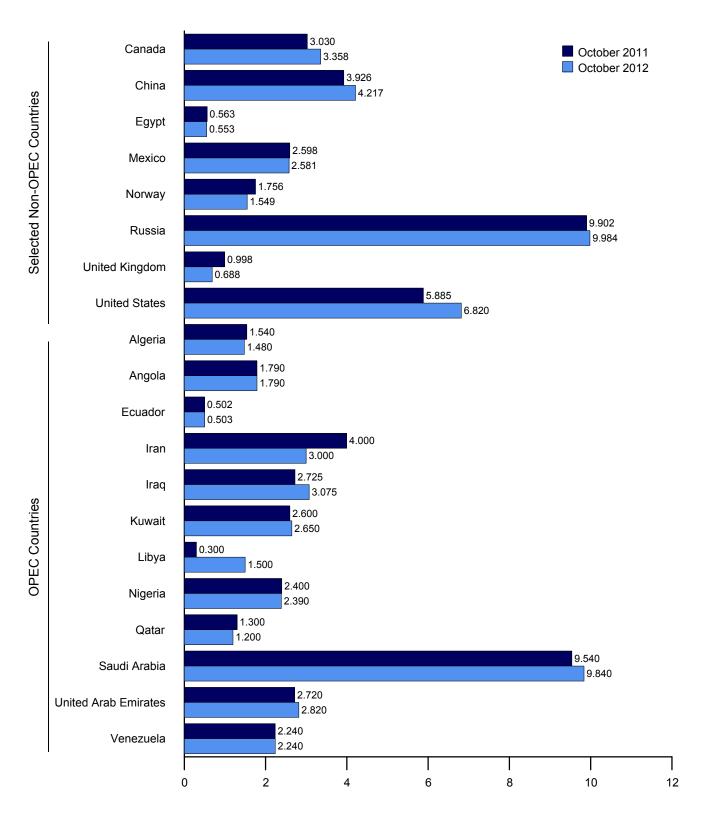


Figure 11.1b World Crude Oil Production by Selected Country (Million Barrels per Day)



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)

	Algoria	Angolo	Foundar	Iran	Iroa	Kuwaita	Libya	Nigoria	Qatar	Saudi Arabia ^a	United Arab	Vene-	Total OPEC ^b
	Algeria	Angola	Ecuador	Iran	Iraq	Kuwaita	Libya	Nigeria	Qatar	Arabia	Emirates	zuela	OPEC
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 1,162	475 646	285 392	3,088 3,643	2,040 560	1,175 2,057	1,375 1,390	1,810 1,993	406 442	6,410 8,231	2,117 2,233	2,137 2,750	22,498 25,500
1995 Average 1996 Average	1,162	646 709	392	3,643 3,686	560	2,057	1,390	2,001	442 510	8,218	2,233	2,750	25,500 26,003
1997 Average	1,259	714	388	3,664	1.155	2,002	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 1,250	528 532	4,001	2,011	2,376	1,515	2,329	783 835	9,101	2,478	2,557	30,313
2005 Average	1,692 1,699	1,250	532	4,139 4,028	1,878 1,996	2,529 2,535	1,633 1,681	2,627 2,440	850	9,550 9,152	2,535 2,636	2,565 2,511	31,766 31,476
2007 Average	1,708	1,744	511	3,912	2,086	2,333	1,702	2,350	851	8,722	2,603	2,433	31,470
2008 Average	1,705	1,981	505	4,050	2,375	2,586	1,736	2,165	924	9,261	2,681	2,394	32,363
2009 Average	1,585	1,907	486	4,037	2,391	2,350	1,650	2,208	927	8,250	2,413	2,239	30,442
2010 January	1,540	2,040	464	4,088	2,475	2,250	1,650	2,480	969	8,240	2,414	2,090	30,699
February	1,540	2,060	470	4,100	2,475	2,250	1,650	2,420	1,036	8,440	2,414	2,140	30,995
March	1,540	2,070	478	4,112	2,375	2,250	1,650	2,430	1,055	8,540	2,414	2,090	31,004
April May	1,540 1,540	2,070 2,030	480 478	4,120 4,120	2,375 2,375	2,250 2,250	1,650 1,650	2,360 2,310	1,072 1,091	8,740 8,740	2,414 2,415	2,110 2,140	31,181 31,138
June	1,540	1,980	491	4,120	2,375	2,250	1,650	2,310	1,113	9,240	2,415	2,140	31,780
July	1,540	1,970	492	4,033	2,325	2,250	1,650	2,410	1,136	9,340	2,415	2,140	31,801
August	1,540	1,890	485	4,040	2,325	2,350	1,650	2,510	1,164	9,340	2,415	2,140	31,849
September	1,540	1,790	490	4,047	2,375	2,350	1,650	2,550	1,193	9,340	2,415	2,140	31,880
October	1,540	1,790	497	4,053	2,375	2,350	1,650	2,580	1,216	8,840	2,415	2,140	31,446
November	1,540	1,790	508	4,060	2,375	2,350	1,650	2,510	1,235	9,040	2,415	2,240	31,713
December	1,540	1,790	499	4,068	2,525	2,350	1,650	2,490	1,235	8,940	2,415	2,240	31,742
Average	1,540	1,939	486	4,080	2,399	2,300	1,650	2,455	1,127	8,900	2,415	2,146	31,437
2011 January	1,540	1,790	500	4,076	2,625	2,350	1,650	^R 2,616	1,280	9,140	2,520	2,240	^R 32,327
February	1,540	1,790	509	4,084	2,525	2,350	1,340	^R 2,604	1,280	9,140	2,520	2,240	^R 31,922
March	1,540	1,790	501	4,092	2,525	2,450	300	^R 2,460	1,290	8,940	2,620	2,240	R 30,748
April	1,540	1,740	504	4,100	2,525	2,550	200	^R 2,520	1,300	8,940	2,720	2,240	^R 30,879
May	1,540 1,540	1,640 1,690	497 495	4,100 4,100	2,575 2,575	2,550 2,550	200 100	^R 2,604 ^R 2,604	1,300 1,300	8,940 9,640	2,720 2,720	2,240 2,240	^R 30,906 ^R 31,554
June July	1,540	1,740	493	4,100	2,575	2,550	100	^R 2,604	1,300	9,840 9,840	2,720	2,240	^R 31,801
August	1,540	1,790	495	4,050	2,625	2,600	0	^R 2,640	1,300	9,940	2,720	2,240	^R 31,940
September	1,540	1,840	496	4,050	2,725	2,600	100	^R 2,640	1,300	9,740	2,720	2,240	R 31,991
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	^R 2,520	1,300	9,840	2,720	2,240	^R 32,479
December	1,540	1,890	501	3,950	2,725	2,600	800	2,400	1,300	9,840	2,720	2,240	32,506
Average	1,540	1,786	500	4,054	2,626	2,530	465	^R 2,550	1,296	9,458	2,679	2,240	^R 31,724
2012 January	1,550	1,890	504	3,850	2,675	2,650	1,000	2,520	1,300	9,840	2,720	2,240	32,739
February	1,550	1,940	503	3,800	2,575	2,650	1,200	2,580	1,300	10,040	2,720	2,240	33,098
March	1,550 1,550	1,790 1,890	499 500	3,750 3,600	2,725 2,965	2,650 2,650	1,350 1,400	2,520 2.640	1,200 1,190	10,040 9,940	2,820 2,820	2,240 2,240	33,134 33,385
April May	1,550	1,890	500 498	3,600 3,525	2,965 2,925	2,650	1,400	2,640 2,580	1,190	9,940 9,740	2,820 2,820	2,240 2,240	33,385 32,968
June	1,550	1,840	498 502	3,350	2,925	2,650	1,400	2,580	1,200	10,040	2,820	2,240	32,908
July	1,550	1,740	508	3,200	3,075	2,650	1,400	2,580	1,200	10,040	2,820	2,240	33,003
August	1,550	1,840	512	3,100	3,175	2,650	1,450	2,640	1,200	10,040	2,820	2,240	33,217
September	1,550	1,740	506	3,150	3,275	2,650	1,500	2,490	1,200	9,840	2,820	2,240	32,961
October	1,480	1,790	503	3,000	3,075	2,650	1,500	2,390	1,200	9,840	2,820	2,240	32,488
10-Month Average	1,543	1,824	504	3,431	2,945	2,650	1,360	2,552	1,219	9,939	2,800	2,240	33,007
2011 10-Month Average	1,540	1,760	499	4,070	2,606	2,516	423	2,569	1,295	9,382	2,671	2,240	31,570
2010 10-Month Average	1,540	1,968	483	4,084	2,389	2,290	1,650	2,446	1,105	8,882	2,415	2,127	31,379

^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. Kuwaito Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. In October 2012, Neutral Zone

August 2, 1990, bdt was resulted in Johne 1991. In October 2012, Neduta Zohe production by both Kuwait and Saudi Arabia totaled about 600 thousand barrels per day. Data for Saudi Arabia include approximately 150 thousand barrels per day from the Abu Safah field produced on behalf of Bahrain. ^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For expende residence OPEC in 2002, and in their isoluted of "Total OPEC" 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.

R=Revised. Notes: • Data are for crude oil and lease condensate; they exclude natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available.

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

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

					Selected	d Non-OPE	C ^a Produce	s				
	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		1,553	2,774	873 920	2,553	1,630	10,975	NA E 00E	1,820	7,355	37,999	60,497
1995 Average 1996 Average		1,805 1,837	2,990 3,131	920	2,711 2,944	2,766 3,091		5,995 5,850	2,489 2,568	6,560 6,465	36,934 37,815	62,434 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	5,744	40,825	67,260
2003 Average	19,063	2,306	3,409	713	3,459	3,042		8,132	2,093	5,644	41,478	69,363
2004 Average		2,398	3,485	673	3,476	2,954		8,805	1,845	5,435	42,149	72,462
2005 Average		2,369 2,525	3,609 3,673	623 535	3,423 3,345	2,698 2,491		9,043 9,247	1,649 1,490	5,186 5,089	41,878 41,793	73,644 73,269
2006 Average	20,672	2,525 2,628	3,673	535	3,345 3,143	2,491		9,247 9,437	1,490	5,089	41,793	72,815
2008 Average	21,913	2,020	3,790	566	2,839	2,270		9,357	1,391	5,000	41,265	73,628
2009 Average	20,402	2,579	3,796	587	2,646	2,067		9,495	1,328	5,353	^R 41,780	R 72,222
2010 January	20,471	2,499	3,971	579	2,660	2,060		9,615	1,379	5,399	^R 42,164	^R 72,863
February		2,714	3,940	578	2,655	2,038		9,648	1,274	5,546	^R 42,565	^R 73,559
March		2,621	3,973	577	2,641	1,983		9,683	1,429	5,513	^R 42,763	^R 73,767
April		2,693	3,953	576	2,639	1,967		9,646	1,378	5,377	^R 42,559	^R 73,740
May		2,742	4,049	576	2,639	1,921		9,691	1,297	5,398	^R 42,631	R 73,769
June		2,770 2,762	4,105 4,060	575 575	2,592 2,618	1,611 1,864		9,727 9,710	1,076 1,055	5,384 5,313	^R 42,095 ^R 42,341	^R 73,875 ^R 74,142
July August		2,702	4,000	575	2,604	1,648		9,623	1,055	5,445	^R 42,341	^R 74,142
September		2,646	4,187	574	2,615	1,637		9,725	1,194	5,608	R 42,491	^R 74,371
October		2,688	4,186	573	2,615	1,952		9,816	1,195	5,596	^R 42,795	^R 74,242
November		2,937	4,281	573	2,556	1,868		9,723	1,248	5,558	^R 43,137	^R 74,850
December		2,929	4,126	572	2,620	1,886		9,719	1,207	5,614	^R 43,083	^R 74,826
Average		2,732	4,078	575	2,621	1,869		9,694	1,233	5,479	^R 42,570	^R 74,007
2011 January		2,869	4,238	572	2,632	1,905		9,769	1,316	^R 5,505	43,012	^R 75,339
February		2,906	4,188	571	2,602	1,861		9,773	1,085	^R 5,419	42,628	^R 74,550
March		2,854	4,160	570	2,620	1,808		9,753	1,073	^R 5,589	42,691 B 40,405	^R 73,439
April		2,848	4,127	569	2,621	1,874		9,795	1,164	^R 5,538 ^R 5,598	^R 42,495	^R 73,373 ^R 72,603
May June		2,564 2,664	4,106 4,017	568 567	2,603 2,592	1,607 1,660		9,818 9,770	1,017 1,018	5,598	^R 41,697 ^R 41,775	^R 72,603
July		2,004	3,956	566	2,592	1,000		9,770	946	^R 5,422	^R 41,856	^R 73,656
August	23,120	3,067	4,027	565	2,598	1,714		9,832	767	^R 5,642	^R 42,268	^R 74,208
September	23,170	2,987	3,964	564	2,534	1,636		9,557	890	^R 5,595	^R 41,678	^R 73,668
October	22,920	3,030	3,926	563	2,598	1,756		9,902	998	^R 5,885	^R 42,552	^R 74,208
November	23,220	3,021	4,006	562	2,573	1,764		9,595	1,039	^R 6,019	^R 42,679	^R 75,158
December	23,170	3,121	3,998	561	2,601	1,713		9,869	1,010	^R 6,026	^R 42,975	^R 75,481
Average	22,678	2,904	4,059	566	2,596	1,752		9,774	1,026	^R 5,652	^R 42,359	^R 74,083
2012 January		3,105	4,089	560	2,562	1,761		9,894	999	^{RE} 6,144	^R 42,982	^R 75,721
February		3,237	4,109	560	2,588	1,745		9,889	1,016	^{RE} 6,219 ^{RE} 6,280	R 42,843	^R 75,941
March		3,042 3,145	4,066 4,111	560 560	2,596 2,586	1,715 1,720		9,891 9,861	968 981	RE 6,280 RE 6,279	^R 42,587 ^R 42,607	^R 75,722 ^R 75,993
April May		^R 3,029	4,111	560	2,586	1,720		9,861	893	RE 6,304	^R 42,607	^R 75,342
June		^R 2,994	4,105	556	2,587	1,583		9,862 9,861	949	RE 6,234	^R 42,044	^R 75,141
July	,	R 3,097	4,010	554	2,568	1,553		9,882	954	RE 6,357	^R 42,318	^R 75,321
August		^R 3,056	4,128	554	2,596	1,570		9,907	742	^{RE} 6,283	R 42,098	^R 75,315
September		^R 3,000	4,242	^R 553	2,593	1,309		^R 9,941	609	^{RE} 6,484	^R 41,907	^R 74,868
October 10-Month Average		3,358 3,106	4,217 4,109	553 557	2,581 2,584	1,549 1,620		9,984 9,899	688 879	^E 6,820 ^E 6,341	43,011 42,478	75,498 75,485
_												
2011 10-Month Average		2,871 2,691	4,070 4,054	567 576	2,598 2,628	1,755 1,868		9,781 9,689	1,027 1,234	5,578 5,457	42,264 42,462	73,834 73,841
2010 10-Month Average	21,200	2,091	4,054	5/6	2,020	1,000		9,009	1,234	5,457	42,402	13,041

^a See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC" for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years.

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

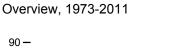
R=Revised. NA=Not available. --=Not applicable. E=Estimate.

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

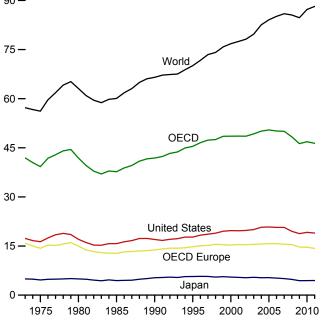
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973.

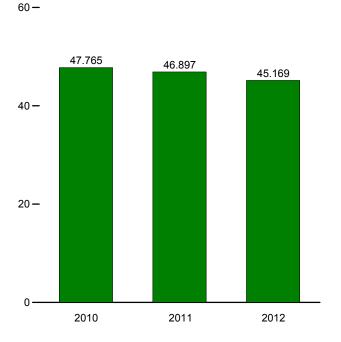
Sources: See end of section.

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

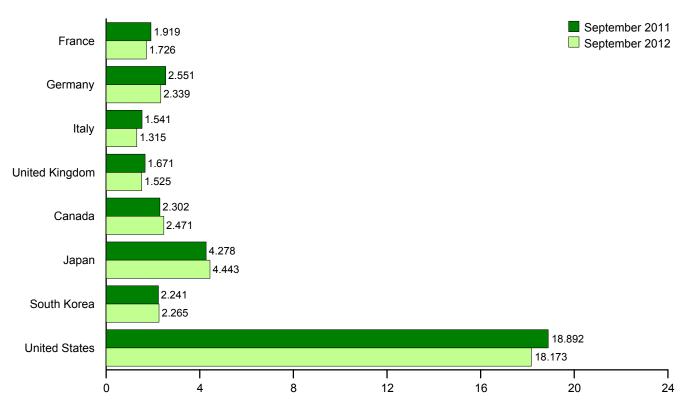


OECD Total, September





By Selected OECD Country



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

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

		1		United	OECD			South	United	Other		
	France	Germany ^a	Italy	Kingdom	Europeb	Canada	Japan	Korea	States	OECDC	OECDd	World
072 Average	2 604	2 2 2 4	2.069	0.944	45.970	4 700	4 0 4 0	294	47 209	4 769	44.042	E7 007
973 Average	2,601	3,324	2,068	2,341	15,879	1,729	4,949	281	17,308	1,768	41,913	57,237
975 Average	2,252 2.256	2,957 3,082	1,855 1,934	1,911 1,725	14,314 14,995	1,779 1,873	4,621 4.960	311 537	16,322 17,056	1,885 2,449	39,232 41.870	56,198 63,113
980 Average 985 Average	1,753	2,651	1,705	1,617	12,772	1,514	4,900	552	15,726	2,449	37,699	60,083
990 Average	1,826	2,682	1,868	1,776	13,762	1,722	5,315	1,048	16,988	3,040	41,875	66,533
995 Average	1.920	2,882	1,942	1.816	14.762	1,799	5,693	2.008	17,725	3,452	45.439	70,099
996 Average	1,949	2,922	1,920	1,852	15,055	1,853	5,739	2,101	18,309	3,509	46,566	71,714
997 Average	1.969	2.917	1.934	1.810	15,195	1,940	5.702	2.255	18,620	3.629	47.342	73,464
998 Average	2.043	2,923	1,943	1,792	15,500	1,931	5,507	1,917	18,917	3,757	47,529	74,117
999 Average	2,031	2,836	1,891	1,811	15,409	2,016	5,642	2,084	19,519	3,844	48,514	75,833
000 Average	2,000	2,767	1,854	1,765	15,276	2,014	5,515	2,135	19,701	3,902	48,543	76,788
001 Average	2,054	2,807	1,832	1,747	15,447	2,043	5,412	2,132	19,649	3,892	48,575	77,481
002 Average	1,985	2,710	1,870	1,739	15,386	2,065	5,319	2,149	19,761	3,873	48,553	78,175
003 Average	2,001	2,662	1,860	1,759	15,494	2,191	5,428	2,175	20,034	3,918	49,241	79,720
2004 Average	2,009	2,649	1,829	1,785	15,598	2,282	5,319	2,155	20,731	4,015	50,100	82,583
005 Average	1,991	2,621	1,781	1,820	15,716	2,315	5,328	2,191	20,802	4,093	50,445	84,089
006 Average	1,991	2,639	1,777	1,806	15,723	2,229	5,197	2,180	20,687	4,128	50,144	85,156
007 Average	1,979	2,416	1,729	1,753	15,546	2,283	5,037	2,241	20,680	4,250	50,037	85,944
2008 Average	1,945	2,542	1,667	1,727	្ត 15,457	2,225	4,795	2,142	19,498	4,237	្ត 48,355	85,554
2009 Average	1,868	2,453	1,544	1,641	^R 14,667	2,153	4,406	2,188	18,771	4,095	^R 46,280	^R 84,741
010 January	1,756	2,161	1,369	1,586	^R 13,543	2,128	4,779	2,361	18,652	3,840	^R 45,302	NA
February	1,955	2,454	1,535	1,688	^R 14,798	2,256	5,002	2,383	18,850	4,217	^R 47,506	NA
March	1,913	2,505	1,563	1,683	^R 14,874	2,149	4,738	2,253	19,099	4,030	^R 47,144	NA
April	1,845	2,260	1,520	1,646	^R 14,274	2,180	4,327	2,249	19,044	4,120	^R 46,193	NA
May	1,693	2,354	1,451	1,615	^R 13,921	2,202	3,841	2,170	18,866	4,047	^R 45,047	NA
June	1,836	2,510	1,578	1,599	^R 14,757	2,346	3,967	2,177	19,537	4,200	^R 46,984	NA
July	1,829	2,571	1,658	1,631	^R 14,934	2,205	4,170	2,111	19,319	4,128	^R 46,866	NA
August	1,741	2,547	1,506	1,643	R 14,535	2,378	4,388	2,221	19,662	4,007	^R 47,191	NA
September	1,945	2,747	1,624	1,640	^R 15,339	2,325	4,441	2,192	19,438	4,030	R 47,765	NA
October	1,753	2,622	1,532	1,667	^R 14,942	2,249	4,035	2,225	18,974	4,007	^R 46,432	NA
November	1,788 1,939	2,585 2,324	1,567 1,630	1,647 1,526	^R 15,030 ^R 14,621	2,317 2,360	4,595 5,005	2,392 2,495	18,977	4,110 4,204	^R 47,420 ^R 48,407	NA NA
December Average	1,831	2,324 2,470	1,544	1,630	R 14,621	2,300 2,258	4,437	2,495 2,268	19,722 19,180	4,204 4,077	^R 46,847	^R 87,251
011 January	1,773	2,230	1,352	1,600	^R 13,646	2,255	4,899	2,429	18,993	3,821	^R 46,043	NA
February	1,916	2,433	1,554	1,652	^R 14,806	2,235	5,067	2,349	18,873	4,261	^R 47,671	NA
March	1,789	2,393	1,445	1,635	^R 14,352	2,390	4,551	2,295	19,329	4,270	^R 47,187	NA
April	1,747	2,258	1,461	1,621	^R 13,940	2,144	3,994	2,011	18,650	4,079	^R 44,818	NA
May	1,734	2,403	1,425	1,555	^R 14,014	2,184	3,787	2,022	18,479	4,092	^R 44,578	NA
June	1,786	2,270	1,510	1,687	^R 14,440	2,340	3,943	2,112	19,253	4,218	^R 46,306	NA
July	1,799	2,409	1,477	1,562	^R 14,391	2,321	4,226	2,188	18,778	4,166	^R 46,070	NA
August	1,804	2,638	1,400	1,617	^R 14,655	2,456	4,425	2,212	19,415	4,230	^R 47,393	NA
September	1,919	2,551	1,541	1,671	^R 14,969	2,302	4,278	2,241	18,892	4,216	^R 46,897	NA
October	1,777	2,508	1,465	1,578	^R 14,345	2,190	4,394	2,216	18,844	4,016	^R 46,005	NA
November	1,730	2,447	1,405	1,595	^R 14,165	2,276	4,602	2,252	19,080	^R 4,282	^R 46,657	NA
December	1,737	2,262	1,423	1,531	^R 13,753	2,298	5,429	2,436	18,803	^R 4,317	^R 47,035	NA
Average	1,792	2,400	1,454	1,608	^R 14,284	2,289	4,464	2,230	18,949	4,163	^R 46,380	^R 88,170
012 January	1,745	2,133	1,263	1,440	^R 13,079	^R 2,167	5,161	2,366	18,280	4,110	^R 45,162	NA
February	1,950	2,483	1,306	1,565	^R 14,442	^R 2,163	5,550	2,410	18,760	4,287	^R 47,611	NA
March	1,725	2,219	1,316	1,614	^R 13,686	^R 2,384	5,156	2,153	18,213	4,342	^R 45,934	NA
April	1,686	2,231	1,293	1,600	^R 13,546	^R 2,299	4,390	2,099	18,330	^R 4,133	^R 44,796	NA
May	1,671	2,305	1,304	1,517	^R 13,603	^R 2,364	4,367	2,181	18,707	^R 4,207	^R 45,430	NA
June	1,780	2,466	1,367	1,526	^R 14,097	^R 2,301	4,129	2,304	18,915	4,188	^R 45,934	NA
July	1,800	2,425	1,380	1,507	^R 13,976	^R 2,404	4,372	2,196	18,601	4,181	^R 45,730	NA
August	1,663	2,285	1,328	^R 1,475	^R 13,638	^R 2,530	4,629	2,235	19,226	^R 4,332	^R 46,592	NA
September	1,726	2,339	1,315	1,525	13,762	2,471	4,443	2,265	18,173	4,056	45,169	NA
9-Month Average	1,748	2,319	1,319	1,530	13,753	2,344	4,686	2,244	18,578	4,204	45,810	NA
011 9-Month Average 010 9-Month Average	1,806 1,833	2,398 2,456	1,461 1,533	1,621 1,636	14,351 14,548	2,301 2,240	4,347 4,401	2,206 2,234	18,964	4,149	46,318	NA

^a Data are for unified Germany, i.e., the former East Germany and West

Germany. ^b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Norway, Belgium, Denmark, Finland, Sorway, Belgium, B Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom; for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia; and, for 2000 forward, Slovenia. ^c "Other OECD" consists of Australia, New Zealand, and the U.S. Territories;

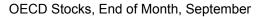
of 1984 forward, Mexico; and, for 2000 forward, Chile, Estonia, and Israel.
 ^d The Organization for Economic Cooperation and Development (OECD) consists of "OECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD."
 R=Revised. NA=Not available. Notes: • Totals may not equal sum of components due to independent

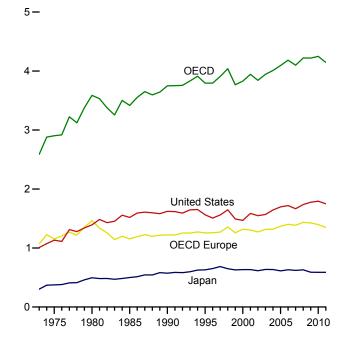
rounding. • U.S. geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for

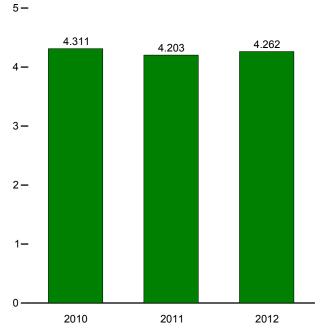
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973. Sources: • United States: Table 3.1. • Chile, East Germany, Former Czechoslovakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, U.S. Territories, and World: 1973-1979—U.S. Energy Information Administration (EIA), International Energy Database. • Countries Other Than United States: 1980-2008—EIA, International Energy Statistics (IES). • OECD Countries, and U.S. Territories: 2009 forward—EIA, IES. • World: 2009 forward—EIA, Short Term Energy Outlook, January 2013, Table 3a. • All Other Data:—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues. Balances in OECD Countries, various issues.

Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)

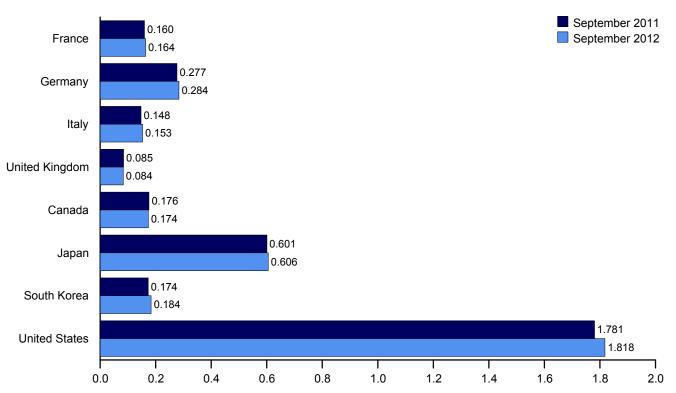
Overview, End of Year, 1973-2011







By Selected OECD Country, End of Month



Note: OECD is the Organization for Economic Cooperation and Development. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Source: Table 11.3.

Table 11.3 Petroleum Stocks in OECD Countries

(Million Barrels)

	France	Germanya	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD
072 Year	201	181	450	156	4 070	140	303	NA	1.008	67	2,588
973 Year	201	187	152 143	156	1,070 1.154		303	NA	1,008	67	2,500
975 Year					, -	174					,
980 Year	243	319	170	168	1,464	164	495	NA	1,392	72	3,587
85 Year	139	277	156	131	1,154	112	500	13	1,519	119	3,417
990 Year	143	280	171	103	1,222	143	572	64	1,621	126	3,749
995 Year	155	302	162	101	1,256	132	631	92	1,563	122	3,795
996 Year	154	303	152	103	1,259	127	651	123	1,507	127	3,794
997 Year	161	299	147	100	1,271	144	685	124	1,560	123	3,907
998 Year	169	323	153	104	1,355	139	649	129	1,647	120	4,039
999 Year	160	290	148	101	1,258	141	629	132	1,493	114	3,766
000 Year	170	272	157	100	1,318	143	634	140	1,468	126	3,829
001 Year	165	273	151	113	1,306	154	634	143	1,586	120	3,944
002 Year	170	253	155	104	1,272	155	615	140	1,548	112	3,842
003 Year	179	273	153	100	1,316	165	636	155	1,568	105	3,945
004 Year	177	267	153	101	1,318	154	635	149	1,645	108	4,009
005 Year	185	283	149	95	1,369	168	612	135	1,698	112	4,094
006 Year	182	283	151	103	1,401	169	631	152	1,720	113	4,185
007 Year	180	275	150	90	1,386	163	621	143	1,665	121	4,099
008 Year	179	279	145	99	1,435	162	630	135	1,737	124	4,221
009 Year	175	284	143	94	1,426	157	589	155	1,776	117	4,220
010 January	182	295	144	95	1,466	160	593	162	1,786	122	4,289
February	175	290	151	99	1,451	161	587	163	1,785	128	4,275
March	172	289	147	93	1,432	167	581	164	1,787	127	4,258
April	172	284	152	95	1,441	168	590	166	1,810	123	4,298
May	173	286	149	99	1,449	164	599	166	1,830	120	4,329
June	170	280	150	96	1,432	166	597	167	1,842	131	4,334
July	168	282	144	96	1,417	173	598	170	1.855	127	4,339
August	171	289	151	93	1,432	182	597	169	1,862	127	4.369
September	163	286	144	95	1,392	180	582	174	1,861	127	4,303
	161	285	144	94	1,402	183	599	174	1,847	125	4,311
October	170		147			184	604				
November December	170 168	287 287	143	92 89	1,394 1,398	184	588	171 165	1,827 1,794	121 119	4,302 4,248
044	470	004	450	07	4 400	474	500	400	4.000	447	4 00 4
011 January	173	291	158	97	1,439	174	596	168	1,809	117	4,304
February	170	288	149	95	1,410	169	591	162	1,780	121	4,234
March	167	286	149	93	1,398	172	575	170	1,776	116	4,207
April	163	291	149	93	1,384	179	601	173	1,779	123	4,238
May	168	288	147	91	1,387	177	599	170	1,807	122	4,262
June	167	286	147	85	1,379	177	593	175	1,809	120	4,253
July	164	290	148	87	1,370	177	599	173	1,816	122	4,256
August	162	283	149	89	1,374	176	598	171	1,796	123	4,237
September	160	277	148	85	1,353	176	601	174	1,781	119	4,203
October	165	278	147	86	1,341	178	599	174	1,769	118	4,180
November	164	277	148	93	1,357	179	603	170	1,770	116	4,195
December	165	279	146	88	1,347	178	589	167	1,750	116	^R 4,147
012 January	166	284	150	90	1,369	178	594	164	1,772	119	^R 4,196
February	165	283	149	90	^R 1,367	^R 180	583	171	1,765	110	^R 4,177
March	165	281	148	89	1,375	^R 175	580	164	1,778	113	^R 4,184
April	163	280	148	91	1,368	^R 176	592	174	1,777	115	^R 4,202
May	162	281	148	88	1,351	^R 172	597	183	1,794	117	4,212
June	164	280	145	89	1,354	^R 171	601	177	1,808	112	R 4,223
July	163	286	143	88	1,365	^R 174	608	181	1,809	117	R 4,254
August	168	285	148	89	^R 1,383	^R 178	603	179	1,801	115	^R 4,259
September	164	284	153	84	1,365	178	606	184	1,818	116	4,203

^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.

Germany only. Beginning with January 1964, the data to Germany are to the unified Germany, i.e., the former East Germany and West Germany. ^b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom; for 1984 forward, Czech Republic, Hungary, Poland, and Slovakia; and, for 2000 forward, Slovenia.

^c "Other OECD" consists of Australia, New Zealand, and the U.S. Territories; for 1984 forward, Mexico; and, for 2000 forward, Chile, Estonia, and Israel.

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

"Other OECD." R=Revised. NA=Not available.

Notes: • Stocks are at end of period. • Petroleum stocks include crude oil

(including strategic reserves), unfinished oils, natural gas plant liquids, and refined products. • In the United States in January 1975, 1981, and 1983, numerous respondents were added to bulk terminal and pipeline surveys, thereby affecting subsequent stocks reported. New-basis end-of-year U.S. stocks, in million barrels, would have been 1,121 in 1974, 1,425 in 1980, and 1,461 in 1982. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973. Sources: • United States: Table 3.4. • U.S. Territories: 1983

Sources: • United States: Table 3.4. • U.S. Territories: 1983 forward—U.S. Energy Information Administration, International Energy Database. • All Other Data: 1973-1982—International Energy Agency (IEA), *Quarterly Oil Statistics and Energy Balances*, various issues. 1983—IEA, Monthly Oil and Gas Statistics Database. 1984 forward—IEA, Monthly Oil Data Service, December 12, 2012.

International Petroleum

Tables 11.1a and 11.1b Sources

United States Table 3.1.

All Other Countries and World, Annual Data

1973–1979: U.S. Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8. 1980 forward: EIA, International Energy Database, January 2013.

All Other Countries and World, Monthly Data

1973–1980: *Petroleum Intelligence Weekly (PIW)*, *Oil & Gas Journal (OGJ)*, and EIA adjustments. 1981–1993: *PIW*, *OGJ*, and other industry sources. 1994 forward: EIA, International Energy Database, January 2013.

12. Environment

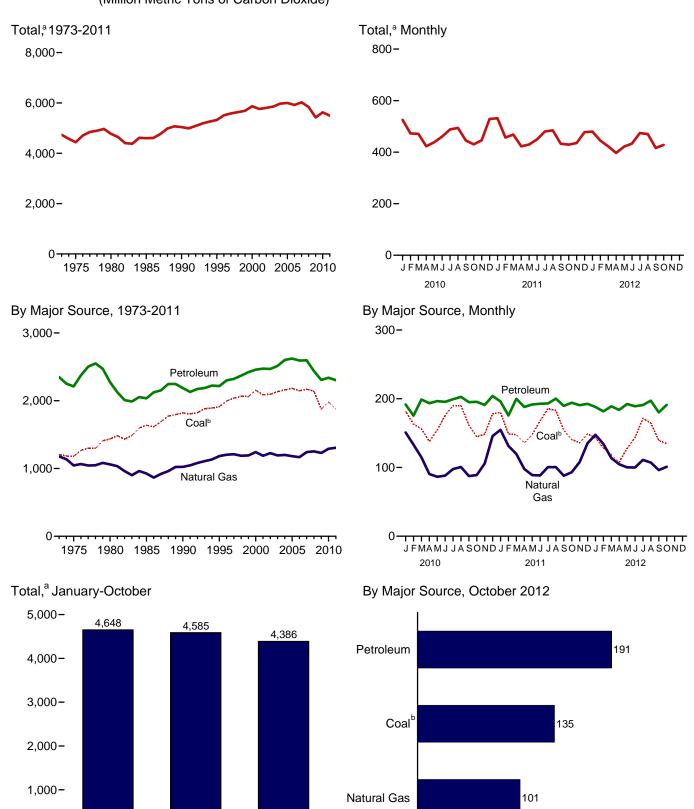


Figure 12.1 Carbon Dioxide Emissions From Energy Consumption by Source (Million Metric Tons of Carbon Dioxide)

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

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

Table 12.1 Carbon Dioxide Emissions From Energy Consumption by Source

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

								Petrole	um					
	Coalb	Natural Gas ^c	Aviation Gasoline	Distillate Fuel Oil ^d	Jet Fuel	Kero- sene	LPG ^e	Lubri- cants	Motor Gasoline ^f	Petroleum Coke	Residual Fuel Oil	Other ^g	Total	Total ^{h,i}
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1995 Total 1995 Total 1995 Total 1995 Total 1997 Total 1998 Total 1999 Total 2000 Total 2000 Total 2001 Total 2003 Total 2004 Total 2005 Total 2006 Total 2008 Total 2008 Total 2009 Total	1,207 1,181 1,436 1,638 1,821 1,913 1,995 2,064 2,062 2,155 2,088 2,095 2,136 2,136 2,147 2,172 2,139 1,876	1,178 1,046 1,061 926 1,024 1,183 1,204 1,189 1,193 1,188 1,227 1,193 1,200 1,188 1,220 1,183 1,200 1,183 1,203	6 5 4 3 3 3 3 3 2 3 3 2 2 2 2 2 2 2 2 2 2 2	480 443 446 445 525 534 538 555 580 598 587 610 632 640 648 652 615 564	155 146 156 178 223 232 232 238 245 254 243 237 231 240 246 240 238 226 204	32 24 24 177 6 8 9 10 12 11 11 10 8 8 0 10 8 5 2 3	92 82 87 87 87 80 86 86 82 90 90 97 88 91 87 87 87 87 87 87 87 87 87 87 87 87 87	13 11 13 12 13 13 12 13 13 14 14 14 14 14 13 12 12 11 12 11 10	911 900 930 988 1,044 1,063 1,075 1,107 1,127 1,135 1,151 1,183 1,214 1,214 1,224 1,227 1,166 1,157	54 51 49 54 70 79 80 93 96 89 96 89 96 107 106 100 93 87	508 443 453 216 220 152 152 158 148 165 158 158 158 158 155 165 122 129 111 91	100 97 142 93 127 121 139 145 128 133 118 135 130 142 144 143 152 150 132 112	2,350 2,212 2,275 2,036 2,216 2,300 2,323 2,372 2,422 2,422 2,474 2,470 2,514 2,603 2,623 2,593 2,593 2,593 2,593 2,593	4,735 4,439 4,771 4,600 5,033 5,510 5,580 5,688 5,868 5,868 5,868 5,868 5,864 5,875 5,975 5,975 5,999 5,920 6,023 5,841 5,425
2010 January February March July August September October November December Total	182 163 156 138 155 176 190 161 145 148 178 1,982	R 151 R 133 R 115 R 86 R 88 R 98 R 101 R 88 R 89 R 106 R 146 R 1,290	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	49 46 51 48 48 47 50 50 50 49 55 590	17 15 18 19 19 19 18 18 18 17 17 210	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 8 7 5 5 5 6 6 6 7 7 9 79	1 1 1 1 1 1 1 1 1 1 1 1	92 84 95 96 99 97 101 100 96 97 92 96 1,146	5 6 7 6 7 8 8 6 7 7 81	9 7 8 9 7 9 7 8 7 8 7 8 8 96	9 9 11 11 10 10 11 10 9 10 10 122	192 175 199 194 197 196 199 203 195 196 191 204 2,339	R 525 R 473 R 471 R 423 R 438 R 461 R 488 R 494 R 445 R 430 R 446 R 529 R 5,623
2011 January February March April June July August September October November December Total	180 149 148 136 148 168 183 154 141 136 149 1,876	R 155 131 R 120 R 98 89 R 101 R 101 88 93 R 108 135 R 1,306	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	52 47 53 48 49 50 47 53 50 53 52 51 603	17 15 17 18 19 18 19 17 17 17 209	(s) 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	10 8 6 6 6 7 6 7 8 9 8 7	1 1 1 1 1 1 1 1 1 1 1 1 0	91 84 95 95 95 98 96 92 93 89 94 1,113	7 5 6 8 7 7 8 6 7 7 4 78	9 8 7 7 7 5 5 7 6 6 8 8 8 2	10 8 11 10 8 9 11 10 10 10 11 11 10 118	196 176 200 188 192 193 200 190 194 191 193 2,304	R 532 R 457 468 R 423 R 430 R 450 R 481 R 485 R 485 R 433 429 435 R 478 R 5,498
2012 January February March April June July August September October 10-Month Total 2011 10-Month Total	143 128 119 108 128 143 171 ^R 164 139 135 1,378 1,592	R 148 R 134 R 114 R 105 R 100 R 100 R 111 R 107 96 101 1,116 1,063	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	50 49 47 47 47 47 47 49 47 50 484 501	16 17 16 18 19 18 18 17 17 172 172	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	8 7 6 7 7 7 7 8 72 71	1 1 1 1 1 1 1 8 9	89 87 92 97 94 95 99 90 94 930 931	7 5 6 7 7 6 7 6 6 6 3 6 7	6 6 4 5 6 5 4 4 5 6 5 4 5 6 8	11 10 9 9 10 10 11 8 11 99 97	188 182 189 184 192 189 191 197 180 191 1,883 1,921	R 480 R 445 R 422 R 397 R 421 R 433 R 474 R 470 416 428 4,386 4,585

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

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

d

е

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

^g Aviation gasoline blending components, crude oil, motor gasoline blending Availor gasonine plus, performents, clube on, micho gasonine benchng components, pentanes plus, performencial feedstocks, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products.
 ^h Includes electric power sector use of geothermal energy and non-biomass waste. See Table 12.6.
 ⁱ Excludes emissions from biomass energy consumption. See Table 12.7.

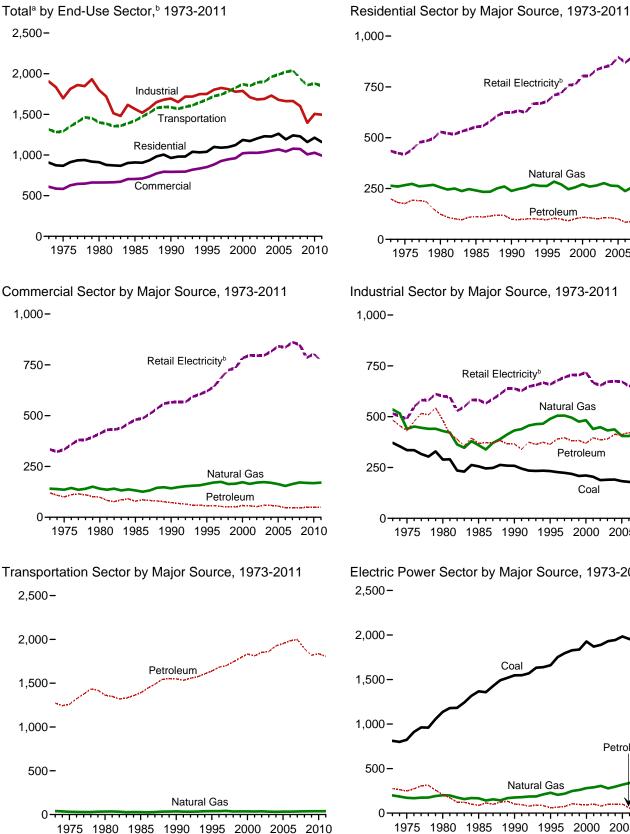
R=Revised. (s)=Less than 0.5 million metric tons.

R=Revised. (s)=Less than 0.5 million metric tons.
Notes: Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.
See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. and the District of Columbia.

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

Sources: See end of section.

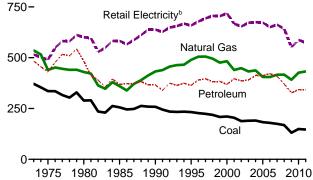




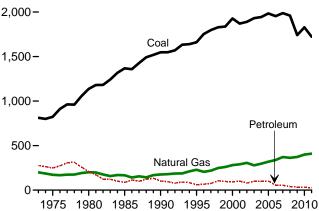
Retail Electricity Natural Gas Petroleum

1975 1980 1985 1990 1995 2000 2005 2010

Industrial Sector by Major Source, 1973-2011



Electric Power Sector by Major Source, 1973-2011



^a Excludes emissions from biomass energy consumption.

^b Emissions from energy consumption in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail Sales.

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

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

				Petrole	eum		Retail		
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	Kerosene LPG ^d		Elec- tricity ^e	Total ^f	
973 Total 975 Total 980 Total 985 Total 995 Total 995 Total 996 Total 997 Total 997 Total 998 Total 998 Total 000 Total 000 Total 001 Total 002 Total 003 Total 003 Total 004 Total 005 Total 006 Total 007 Total	9 6 3 4 3 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	264 256 241 238 263 284 270 247 257 271 259 265 264 264 262 237 257 266 259	147 132 96 80 72 66 68 64 56 61 66 66 63 66 66 63 66 68 62 52 53 49 44	16 12 81 15 56 78 87 74 56 65 32 2	36 32 20 22 25 30 29 27 33 35 33 34 34 32 32 32 31 35 35	199 176 124 111 98 96 104 99 91 102 108 106 101 106 101 85 87 85 81	435 419 529 553 624 678 710 719 762 805 805 805 805 805 835 835 847 856 887 869 897 878 819	907 867 911 909 963 1,039 1,099 1,090 1,097 1,122 1,185 1,172 1,203 1,228 1,261 1,192 1,241 1,192 1,241 1,229 1,159	
010 January February March April May June July August September October November December Total	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	51 43 31 17 11 7 6 6 6 11 24 46 259	6 6 4 2 3 3 2 2 2 3 3 6 43	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	3 3 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	10 9 7 5 5 6 5 5 5 6 7 10 78	91 74 65 51 59 79 97 96 72 56 56 56 81 875	151 126 103 73 75 92 108 107 83 73 87 137 1,212	
January February March April May June July August September October November December Total	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	^R 52 42 33 19 11 7 6 6 6 7 12 23 37 8 255	5 5 4 3 2 3 2 3 2 3 4 4 6 44	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	4 3 3 3 3 3 3 3 3 3 3 3 3 3 5	9 8 7 5 4 5 5 6 6 7 7 9 80	87 67 59 53 57 75 92 68 53 53 53 66 66 823	148 117 ^R 98 77 73 88 106 104 81 72 83 113 ^R 1,159	
112 January February March May June July August October October 10-Month Total	(5) (5) (5) (5) (5) (5) (5) (5) (5)	43 36 22 15 9 7 6 6 6 13 13 164	6 5 3 3 3 4 3 3 4 3 3 7	(S) (S) (S) (S) (S) (S) (S) (S) (S)	3 3 3 3 3 3 3 3 3 3 3 29	9 8 7 6 6 6 7 6 6 66	69 58 51 45 55 69 93 85 65 54 643	121 102 80 66 70 82 104 98 ^R 77 73 873	
011 10-Month Total 010 10-Month Total	(s) 1	195 189	34 33	1 1	29 27	63 62	706 738	965 990	

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 ^b Natural gas, excluding supplemental gaseous fuels.
 ^c Distillate fuel oil, excluding biodiesel.

d

^c Distillate fuel oil, excluding biodiesel.
 ^d Liquefied petroleum gases.
 ^e Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.
 ^f Excludes emissions from biomass energy consumption. See Table 12.7. R=Revised. (s)=Less than 0.5 million metric tons.

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#environment for all available data beginning in 1973. Sources: See end of section.

Table 12.3 Carbon Dioxide Emissions From Energy Consumption: Commercial Sector (Million Metric Tons of Carbon Dioxidea)

				Petroleum							
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1997 Total 1998 Total 1997 Total 1998 Total 2000 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	15 14 11 12 12 12 12 9 9 9 9 8 10 9 6 7 7 6	141 136 141 132 142 164 164 165 173 164 170 173 163 154 163 154 164 171 169	47 43 38 46 35 35 32 31 32 36 37 32 35 34 33 29 28 27 30	5 4 3 2 1 2 2 2 2 2 2 2 1 1 1 2 1 1 (S) (S)	9 8 6 6 6 7 8 8 7 9 9 9 9 9 9 10 10 8 8 8 10 9	6 6 8 7 8 1 2 3 3 2 3 3 3 4 3 3 3 4 3 4 3 4	NA NA NA NA S S S S S S S S S S S S S S	52 39 44 18 11 9 7 6 7 6 9 10 9 6 6 6 6 6 6 6	120 100 98 79 73 56 57 54 51 58 57 52 59 58 55 48 47 46 49	334 333 412 480 566 620 643 686 724 735 783 797 795 796 816 842 836 861 850 785	609 583 662 704 793 851 883 926 947 960 1,022 1,027 1,026 1,036 1,054 1,069 1,043 1,078 1,078
2010 January February March April June July August September October November December Total	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	27 24 18 12 9 7 7 7 7 10 16 25 168	4 4 2 2 2 2 2 2 1 2 2 2 4 30	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1 9	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 (s) (s) (s) (s) (s) (s) (s) (s) 1 6	6 4 3 3 4 3 3 4 4 6 49	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 April May June July August September October November December Total	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	29 23 20 13 9 7 7 7 8 8 8 11 15 8 21 171	4 3 2 1 2 2 2 3 3 4 31	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1 9	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	(5) (5) (6) 0 0 0 0 0 0 (5) (5) (5)	1 (s) (s) (s) (s) (s) (s) (s) (s) 1 5	6 5 4 3 2 3 3 4 4 5 6 49	65 55 57 63 70 79 77 66 61 57 60 769	100 85 83 73 75 81 89 89 77 77 77 77 887 994
2012 January February April June July August September October 10-Month Total	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	24 21 14 11 8 7 7 7 8 11 120	4 3 2 2 2 2 3 2 2 2 26	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	1 1 1 1 1 1 1 1 8	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 (s) (s) (s) (s) (s) (s) (s) (s) 5	6 5 3 4 4 4 3 3 41	57 53 52 51 61 66 77 74 64 61 616	88 80 71 66 73 77 87 87 87 85 75 76 780
2011 10-Month Total 2010 10-Month Total	4 5	134 127	24 24	(s) (s)	8 7	3 3	(s) (s)	4 5	39 39	652 675	829 846

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 ^b Natural gas, excluding supplemental gaseous fuels.
 ^c Distillate fuel oil, excluding biodiesel.
 ^d Liquefied petroleum gases.

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

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic councerses is the 50 States and the District of Columbia

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

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

		Coal			Petroleum									
	Coal	Coke Net Imports	Natural Gas ^b	Distillate Fuel Oil ^c	Kero- sene	LPG ^d	Lubri- cants	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Other ^f	Total	Retail Elec- tricity ^g	Total ^h
1973 Total 1975 Total	371 336 289	-1 2	536 440 429	106 97 96	11 9	44 39	7 6 7	18 16	52 51	144 117	100 97 142	483 431 483	515 490 601	1,904 1,697
1980 Total 1985 Total	289 256 258	-4 -2 1	429 360 432	90 81 84	13 3 1	61 59 37	6 7	11 15 13	48 54 67	105 57 31	93 127	483 369 366	583 638	1,798 1,566 1.695
1990 Total 1995 Total 1996 Total	238 233 227	7	432 489 505	82 87	1	47 48	7 6	13 14 14	67 71	25 24	127 121 139	364 391	659 678	1,751 1,803
1997 Total 1998 Total	224 219	58	505 505 495	88 88	1	40 50 47	777	14 15 14	70 80	24 21 16	145 128	396 382	694 706	1,824
1999 Total 2000 Total	208 211	7 7 7	475	86 87	1	47 52	777	11 11	85 76	14 17	133 118	383 369	704	1,778
2001 Total 2002 Total	204 188	3 7	440	95 88	2 1	45 47	6 6	21 22	79 79	14 13	135 130	396 386	667 654	1,711 1,683
2003 Total 2004 Total	190 191	6 16	432 437	83 88	2	42 44	6	23 26	78 84	16 18	142 144	390 413	672 675	1,690 1,731
2005 Total 2006 Total	183 179	5	405 405	92 92	3	42 43	6	25 26	81 84	20 16	143 152	412	673 650	1,678
2007 Total 2008 Total	175 168	3 5	416 417	92 93	1 (s)	43 32	6 6	20 21 17	82 77	13 14	150 132	409 371	662 642	1,665 1,602
2009 Total	131	-3	391	80	(s)	33	5	17	72	7	112	327	551	1,397
2010 January February	12 12	(s) (s)	^R 39 ^R 36	6 6	(s) (s)	4 4	(s) (s)	2 1	4 4	1 1	9 9	27 26	46 44	^R 124 ^R 119
March April	13 12	(s) (s)	^R 37 ^R 34	9 8	(s) (s)	3 2	(s) (s)	2 2	6 6	1 1	11 11	32 30	46 45	^R 128 ^R 121
May June	12 12	(s) (s)	^R 34 ^R 33	6 5	(s) (s)	2 2	(s) 1	2 2	5 6	1 1	11 10	27 27	51 52	^R 124 ^R 124
July August	12 13	(s) (s)	^R 34 ^R 34	47	(s) (s)	2 2	1 (s)	2 2	6 7	1 1	10 11	25 30	54 55	^R 125 ^R 132
September October	13 12	(s) (s)	^R 34 ^R 35	9 7	(s) (s)	2 3	(s) (s)	2 2	7 5	1 1	10 9	31 27	48 47	^R 125 ^R 121
November December	13 13	-1 -1	R 36 R 40	8 9	(s) (s)	3 4	(s) (s)	2 2	6 6	1 1	10 10	30 32	48 50	^R 126 ^R 134
Total	149	-1	R 426	86	1	35	6	19	67	8	122	343	587	R 1,504
2011 January February	13 12	(s) (s)	^R 40 36	97	(s) (s)	5 4	(s) (s)	1	5 4	1	10 8	32 25	48 42	^R 133 116
March April	13 12	(s) (s)	R 38 35	10 7 7	(s) (s)	4	1 (s)	2 2 2	5 5	1	11 10	33 28	46 45	^R 130 ^R 120
May June	12 12	(s) (s)	35 33	7	(s) (s)	3	(s) (s)	2	7 5	1	8 9	27 27	48 50	^R 123 122 ^R 125
July August	12 12 12	(s) (s)	34 ^R 35 34	4 7 7	(s) (s)	3 3 3	(s) (s)	2 2 2	5 7 5	(s) (s)	11 10 10	25 30 28	54 53 47	130 121
September October November	12 12 12	(s) (s) (s)	R 36 R 37	8	(s) (s) (s)	3 4	(s) (s) (s)	2 2 1	5 6 6	1 1	10 10 11	20 29 32	47 47 46	^R 125 126
December Total	13 147	(s) (s)	^R 40 ^R 432	6 89	(s) (s) (s)	4 4 41	(s) (s) 5	2 18	3 63	1 7	10 118	26 341	40 45 574	^R 124 ^R 1,496
2012 January	12	(s)	^R 41	7	(s)	4	(s)	1	5	1	11	30	43	^R 125
February March	12 12	(s) (s)	^R 38 37	9 7	(s) (s)	4 3	(s) (s)	1	4 5	(s) 1	10 9	30 27	42 41	^R 121 118
April May	11 11	(s)	R 36 R 36	6	(s) (s)	3	(s) (s)	2 2	5	1 (s)	9 9	26 27	41 46	^R 114 ^R 121
June July	11 11	(s) (s)	R 35 R 36	53	(s) (s)	3 3	(s) (s)	2 2	6 5	(s) 1	10 10	26 25	47 52	^R 118 123
August September	^R 11 11	(s) (s)	36 ^R 36	4 6	(s) (s)	3 3	(s) (s)	2 1	7 6	(s) (s)	11 8	27 25	50 45	125 116
October 10-Month Total	12 114	(s) 1	37 368	8 60	(s) (s)	4 34	(s) 4	2 15	5 55	(s) 5	11 99	30 272	46 453	125 1,208
2011 10-Month Total 2010 10-Month Total	122 123	1 1	356 350	74 69	(s) (s)	33 28	4 5	15 16	54 55	6 7	97 102	284 281	481 488	1,245 1,243

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 ^b Natural gas, excluding supplemental gaseous fuels.
 ^c Distillate fuel oil, excluding biodiesel.
 ^d Liquiding the ordinary of the supplemental gaseous fuels.

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

^g Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6. ^h Excludes emissions from biomass energy consumption. See Table 12.7.

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

metric tons.
Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.
• See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. and the District of Columbia.

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

Sources: See end of section.

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

				Petroleum								
	Coal	Natural Gas ^b	Aviation Gasoline	Distillate Fuel Oil ^c	Jet Fuel	LPG ^d	Lubri- cants	Motor Gasoline ^e	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1995 Total 1995 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total 2000 Total 2000 Total 2001 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	() () () () () () () () () () () () () (39 32 34 28 36 38 39 41 35 36 35 37 33 33 33 33 33 35 37 38	6 5 4 3 3 3 3 3 2 3 3 2 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	152 145 155 178 223 232 234 238 245 254 243 237 231 240 246 240 246 240 238 226 204	3 3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1 3 2 1 3 2	6666766667777666665555	886 889 881 908 967 1,029 1,047 1,057 1,090 1,115 1,121 1,127 1,158 1,161 1,185 1,186 1,194 1,201 1,146 1,137	57 56 110 62 80 72 67 55 55 52 70 46 53 45 58 66 71 78 72 64	1,273 1,258 1,363 1,391 1,548 1,639 1,643 1,643 1,743 1,743 1,743 1,743 1,743 1,843 1,841 1,953 1,984 1,999 1,895 1,818	2 2 2 3 3 3 3 3 3 4 4 4 5 5 5 5 5 5 5 5 5 5 5	1,315 1,292 1,400 1,421 1,588 1,681 1,725 1,744 1,782 1,828 1,872 1,852 1,852 1,899 1,962 1,991 2,022 2,040 1,937 1,860
2010 January February March April June July August September October November December Total	(((((((((((((((((((4 4 3 3 3 3 3 3 3 3 3 4 3 8	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	31 30 35 35 37 36 38 39 37 37 37 35 35 35 425	17 15 18 17 18 19 19 19 18 18 17 17 210	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	91 82 94 94 97 95 99 98 94 95 90 94 1,124	6 5 6 7 6 5 6 6 6 5 6 6 5 6 7 6 5 6 6 5 6 7 6 5 6 6 5 6 7 6 5 6 5 6 7 6 5 6 5 6 7 6 5 6 5	145 133 154 159 156 162 161 155 157 149 153 1,836	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	150 137 157 161 165 165 165 157 160 152 158 158 1,879
2011 January February March April June July August September October December December Total	(((((((((((((((((((5 4 3 3 3 3 3 3 3 3 3 3 4 39	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	33 31 36 38 38 40 37 38 36 34 435	17 15 17 18 19 18 19 17 17 17 17 209	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	89 82 93 90 93 96 94 90 92 87 92 87 92 1,091	6 6 5 5 6 5 5 6 6 5 5 6 6 6 6 6 6 6 5 5 6 5 5 6 5 7 6 5 5 6 5 7 6 5 5 6 5 7 6 5 7 6 5 7 6 5 7 6 6 5 7 6 6 5 7 6 6 5 7 6 6 5 7 6 6 5 7 6 6 5 7 6 6 5 7 6 6 5 7 6 6 5 7 6 6 7 6 7	146 135 153 155 156 157 158 150 152 145 150 1,807	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	151 139 157 153 158 159 160 161 153 155 149 154 1,850
2012 January February March June July August September October 10-Month Total	(4 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)	32 31 35 37 37 38 38 38 38 38 358	16 16 17 16 18 19 18 18 17 17 172	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	87 85 91 90 93 93 97 88 92 912	5 4 5 5 3 4 5 4 3 3 40	141 137 149 154 153 155 158 144 150 1,488	(5) (5) (5) (5) (5) (5) (5) (5) (5) (5)	145 142 152 151 157 156 159 161 148 153 1,525
2011 10-Month Total 2010 10-Month Total	{ ^h { ^h }	32 31	2 2	365 355	175 176	2 2	4 4	912 939	51 57	1,512 1,535	4 4	1,547 1,569

^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.

^a 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.
 ^d Evaluate emissions from biomass energy consumption. See Table 12.7.

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

reported as industrial sector consumption.

(s)=Less than 0.5 million metric tons. Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.
• See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

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

				Petro		Non-	ĺ			
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Petroleum Coke	Residual Fuel Oil	Total	Geo- thermal	Biomass Waste ^d	Total ^e	
73 Total	812	199	20	2	254	276	NA	NA	1,286	
75 Total	824	172	17	(s)	234	248	NA	NA	1,244	
90 Total	1.137	200	12	(3)	194	240	NA	NA	1,544	
80 Total				1					1,544	
85 Total	1,367	166	6		79	86	NA	NA	1,619	
90 Total	1,548	176	7	3	92	102	(s)	6	1,831	
95 Total	1,661	228	8	8	45	61	(s)	10	1,960	
96 Total	1,752	205	8	8	50	66	(s)	10	2,033	
97 Total	1,797	219	8	10	56	75	(s)	10	2,101	
98 Total	1,828	248	10	13	82	105	(s)	10	2,192	
99 Total	1,836	260	10	11	76	97	(s)	10	2,204	
00 Total	1,927	281	13	10	69	91	(s)	10	2,310	
01 Total	1,870	290	12	11	79	102	(s)	11	2,273	
02 Total	1.890	306	9	18	52	79	(s)	13	2.288	
	1,030	278	12	18	69	98		11	2,200	
03 Total			8	23			(s)	11		
04 Total	1,943	297			69	100	(s)		2,352	
05 Total	1,984	319	8	25	69	102	(s)	11	2,417	
06 Total	1,954	338	5	22	28	56	(s)	12	2,359	
07 Total	1,987	372	7	17	31	55	(s)	11	2,426	
08 Total	1,959	362	5	16	19	40	(s)	12	2,374	
09 Total	1,741	373	5	14	14	34	(s)	11	2,159	
I 0 January	170	30	1	1	1	4	(s)	1	204	
February	150	26	(s)	1	1	2	(s)	1	179	
	143	25		1	1	2		1	171	
March			(s)	•			(s)			
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	2	4	(s)	1	206	
July	177	48	1	2	2	4	(s)	1	231	
August	177	51	(s)	1	2	3	(s)	1	232	
September	148	38	(s)	1	1	2	(s)	1	189	
October	132	31	(s)	1	1	2	(s)	1	166	
November	136	27	(S)	1	1	2	(s)	1	166	
	165	31	(3)	1	1	3		1	200	
December Total	1,828	399	6	15	12	33	(s) (s)	11	2,271	
4 1	400	00		0		2	(-)		200	
11 January	166	29	1	2	1	3	(s)	1		
February	136	26	(s)	1	1	2	(s)	1	165	
March	134	26	(s)	2	1	3	(s)	1	163	
April	124	28	(s)	1	1	2	(s)	1	155	
May	135	31	(S)	1	1	2	(s)	1	169	
June	155	38	(s)	1	1	2	(s)	1	196	
July	174	51	(s)	2	1	3	(s)	1	228	
August	170	50	(S)	1	1	2	(s)	1	223	
September	141	37	(S)	1	(s)	2	(3) (s)	1	181	
October	128	31	(S) (S)	1	(S) (S)	2	(s)	1	162	
						2				
November	124	29	(s)	1	(s)		(s)	1	155	
December	136	33	(s)	1	(s) 7	2	(s)	1	172	
Total	1,723	409	5	15	7	27	(s)	11	2,170	
2 January	131	35	(s)	1	1	2	(s)	1	169	
February	116	35	(s)	1	(s)	2	(s)	1	153	
March	106	37	(S)	1	(S)	1	(s)	1	14	
April	96	39	(S)	(s)	(S) (S)	1	(s)	1	137	
	116	44		(5)		1		1	163	
May			(s)		(s)		(s)			
June	132	48	(s)	1	1	2	(s)	1	183	
July	160	59	(s)	1	1	2	(s)	1	222	
August	153	54	(s)	1	1	2	(s)	1	210	
September	128	44	(s)	1	(s)	2	(s)	1	174	
October	123	36	(s)	1	(s)	1	(s)	1	162	
10-Month Total	1,260	431	3	8	5	16	(s)	9	1,716	
11 10-Month Total	1.464	347	4	13	6	23	(s)	9	1,843	
· ····································	1,404	347	5	13	0	23	(3)	9	1,043	

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

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

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

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

Sources: See end of section

Table 12.7 Carbon Dioxide Emissions From Biomass Energy Consumption

			By Source			By Sector					
	Wood ^b	Biomass Waste ^c	Fuel Ethanol ^d	Bio- diesel	Total	Resi- dential	Com- mercial ^e	Indus- trial ^f	Trans- portation	Electric Power ^g	Total
1973 Total 1975 Total 1985 Total 1985 Total 1990 Total 1995 Total 1995 Total 1997 Total 1997 Total 1998 Total 1997 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	143 140 232 252 208 229 229 222 205 208 212 188 187 188 199 200 197 194 191	(s) (s) 14 30 32 30 30 29 27 33 36 35 37 36 37 36 37 40 41	NA NA 3 4 8 6 7 8 9 10 12 16 20 31 39 55 55 62	NA A A A A A A A A A A A A A A A A A A	143 141 232 270 237 260 259 242 245 248 231 235 240 255 261 266 274 289 284	33 40 80 95 54 49 51 36 37 39 35 36 38 38 38 38 38 38 40 36 38 40 42 40	1 1 2 8 9 10 9 9 9 9 9 9 9 9 9 9 10 10 9 9 10	109 100 150 168 147 166 170 172 160 161 161 147 144 141 150 151 146 140 128	NA NA 3 4 8 6 7 8 9 10 12 16 20 23 33 41 57 64	(s) (s) 1 23 28 30 30 30 30 30 29 31 35 37 36 37 38 39 40 41	143 141 232 270 237 260 259 242 245 248 231 235 240 255 261 266 274 289 284
2010 January February April May July August September October November December December Total	16 14 15 15 15 16 16 15 16 186	4 3 4 4 4 4 4 3 4 4 4 4 3 4 4 3	6 5 6 6 6 6 6 6 6 7 3	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	25 23 25 25 25 26 26 25 26 25 26 25 27 304	3 3 3 3 3 3 3 3 3 3 3 3 3 3 9	1 1 1 1 1 1 1 1 1 1 1 1 0	12 11 12 11 11 12 12 12 12 12 12 12 12 1	6 5 6 6 6 6 6 6 6 6 7 4	4 3 4 3 4 4 4 3 3 4 4 4 4 2	25 23 25 25 25 26 26 25 26 25 26 25 27 304
2011 January February March April May June July August September October November December December Total	17 15 16 15 16 16 16 16 16 16 17 189	4 3 4 3 4 4 4 3 4 4 4 4 4 3	6 6 6 6 6 6 6 6 6 6 6 7 3	(s) (s) 1 1 1 1 1 1 8	26 24 25 25 26 27 27 26 26 26 28 313	3 3 3 3 3 3 3 3 3 3 3 3 3 3 40	1 1 1 1 1 1 1 1 1 1 1 1 1	12 11 12 11 12 12 12 12 12 12 13 142	6 6 7 7 7 7 7 7 7 80	3 3 3 3 3 4 4 3 3 4 4 3 3 4 4 0	26 24 25 25 26 27 27 26 26 28 313
2012 January February April May June July August September October 10-Month Total	16 15 14 16 15 16 16 15 15 155	4 3 4 3 4 3 4 4 3 4 35	6 6 6 6 7 6 6 61	(s) 1 1 1 1 1 1 1 7	26 25 26 25 27 26 27 27 27 25 26 258	3 3 3 3 3 3 3 3 3 3 34	1 1 1 1 1 1 1 9	12 11 11 12 11 12 12 12 11 12 116	6 7 7 7 7 7 6 7 6 7	3 3 3 3 3 4 3 3 3 3 33	26 25 26 27 26 27 27 27 27 25 26 258
2011 10-Month Total 2010 10-Month Total	157 155	35 35	61 60	6 2	259 252	34 33	9 9	117 115	66 61	33 35	259 252

(Million Metric Tons of Carbon Dioxidea)

^a Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 ^b Wood and wood-derived fuels.
 ^c Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass.
 ^d Fuel ethanol minus denaturant.

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

industrial electricity-only plants. ^g The electric power

⁹ The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

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

NA=Not available. (s)=Less than 0.5 million metric tons.
Notes: • Carbon dioxide emissions from biomass energy consumption are excluded from the energy-related carbon dioxide emissions reported in Tables 12.1–12.6. See Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Data are estimates. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.
• See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#environment for all available data beginning in 1973. Sources: See end of section.

Environment

Note 1. Emissions of Carbon Dioxide and Other Greenhouse Gases. Greenhouse gases are those gases—such as water vapor, carbon dioxide (CO₂), methane, nitrous oxide, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride—that are transparent to solar (short-wave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Energy-related carbon dioxide emissions account for about 98 percent of U.S. CO_2 emissions. The vast majority of CO_2 emissions come from fossil fuel combustion, with smaller amounts from the nonfuel use of fossil fuels, as well as from electricity generation using geothermal energy and nonbiomass waste. Other sources of CO_2 emissions include industrial processes, such as cement and limestone production. Data in the U.S. Energy Information Administration's (EIA) *Monthly Energy Review (MER)* Tables 12.1–12.6 are estimates for U.S. CO_2 emissions from energy consumption, including the nonfuel use of fossil fuels (excluded are estimates for CO_2 emissions from biomass energy consumption, which appear in Table 12.7).

For annual U.S. estimates for emissions of CO₂ from all sources, as well as for emissions of other greenhouse gases, see EIA's *Emissions of Greenhouse Gases Report* at http://www.eia.gov/environment/emissions/ghg_report/.

Note 2. Accounting for Carbon Dioxide Emissions From **Biomass Energy Combustion.** Carbon dioxide (CO₂) emissions from the combustion of biomass to produce energy are excluded from the energy-related CO₂ emissions reported in MER Tables 12.1-12.6, but appear in Table 12.7. According to current international convention (see the Intergovernmental Panel on Climate Change's "2006 IPCC Guidelines for National Greenhouse Gas Inventories"), carbon released through biomass combustion is excluded from reported energy-related emissions. The release of carbon from biomass combustion is assumed to be balanced by the uptake of carbon when the feedstock is grown, resulting in zero net emissions over some period of time. (This is not to say that biomass energy is carbon-neutral. Energy inputs are required in order to grow, fertilize, and harvest the feedstock and to produce and process the biomass into fuels.)

However, analysts have debated whether increased use of biomass energy may result in a decline in terrestrial carbon stocks, leading to a net positive release of carbon rather than the zero net release assumed by its exclusion from reported energy-related emissions. For example, the clearing of forests for biofuel crops could result in an initial release of carbon that is not fully recaptured in subsequent use of the land for agriculture.

To reflect the potential net emissions, the international convention for greenhouse gas inventories is to report

biomass emissions in the category "agriculture, forestry, and other land use," usually based on estimates of net changes in carbon stocks over time.

This indirect accounting of CO_2 emissions from biomass can potentially lead to confusion in accounting for and understanding the flow of CO_2 emissions within energy and nonenergy systems. In recognition of this issue, reporting of CO_2 emissions from biomass combustion alongside other energy-related CO_2 emissions offers an alternative accounting treatment. It is important, however, to avoid misinterpreting emissions from fossil energy and biomass energy sources as necessarily additive. Instead, the combined total of direct CO_2 emissions from biomass and energy-related CO_2 emissions implicitly assumes that none of the carbon emitted was previously or subsequently reabsorbed in terrestrial sinks or that other emissions sources offset any such sequestration.

Section 12 Methodology and Sources

To estimate carbon dioxide emissions from energy consumption for the *Monthly Energy Review (MER)*, Tables 12.1–12.7, the U.S. Energy Information Administration (EIA) uses the following methodology and sources:

Step 1. Determine Fuel Consumption

Coal—Coal sectoral (residential, commercial, coke plants, other industrial, transportation, electric power) consumption data in thousand short tons are from MER Table 6.2. Coal sectoral consumption data are converted to trillion Btu by multiplying by the coal heat content factors in MER Table A5.

Coal Coke Net Imports—Coal coke net imports data in trillion Btu are derived from coal coke imports and exports data in MER Tables 1.4a and 1.4b.

Natural Gas (excluding supplemental gaseous fuels)—Natural gas sectoral consumption data in trillion Btu are from MER Tables 2.2–2.6.

Petroleum—Total and sectoral consumption (product supplied) data in thousand barrels per day for asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, liquefied petroleum gases (LPG), lubricants, motor gasoline, petroleum coke, and residual fuel oil are from MER Tables 3.5 and 3.7a-3.7c. For the component products of LPG (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene) and "other petroleum" (aviation gasoline blending components, crude oil, motor gasoline blending components, naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products), consumption (product supplied) data in thousand barrels per day are from EIA's Petroleum Supply Annual (PSA), Petroleum Supply Monthly (PSM), and earlier

publications (see sources for MER Table 3.5). Petroleum consumption data by product are converted to trillion Btu by multiplying by the petroleum heat content factors in MER Table A1 (Table A3 for motor gasoline).

Biomass—Sectoral consumption data in trillion Btu for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are from MER Tables 10.2a–10.2c.

Step 2. Remove Biofuels From Petroleum

Distillate Fuel Oil—Beginning in 2009, the distillate fuel oil data (for total and transportation sector) in Step 1 include biodiesel, a non-fossil renewable fuel. To remove the biodiesel portion from distillate fuel oil, data in thousand barrels per day for refinery and blender net inputs of renewable diesel fuel (from the PSA/PSM) are converted to trillion Btu by multiplying by the biodiesel heat content factor in MER Table A3, and then subtracted from the distillate fuel oil consumption values.

Motor Gasoline-Beginning in 1993, the motor gasoline data (for total, commercial sector, industrial sector, and transportation sector) in Step 1 include fuel ethanol, a nonfossil renewable fuel. To remove the fuel ethanol portion from motor gasoline, data in trillion Btu for fuel ethanol consumption (from MER Tables 10.2a, 10.2b, and 10.3) are subtracted from the motor gasoline consumption values. (Note that about 2 percent of fuel ethanol is fossilbased petroleum denaturant, to make the fuel ethanol For 1993-2008, petroleum denaturant is undrinkable. double counted in the PSA product supplied statistics, in both the original product category-e.g., pentanes plus-and also in the finished motor gasoline category; for this time period for MER Section 12, petroleum denaturant is removed along with the fuel ethanol from motor gasoline, but left in the original product. Beginning in 2009, petroleum denaturant is counted only in the PSA/PSM product supplied statistics for motor gasoline; for this time period for MER Section 12, petroleum denaturant is left in motor gasoline.)

Step 3. Remove Carbon Sequestered by Nonfuel Use

The following fuels have industrial nonfuel uses as chemical feedstocks and other products: coal, natural gas, asphalt and road oil, distillate fuel oil, liquefied petroleum gases (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene), lubricants (which have industrial and transportation nonfuel uses), naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, petroleum coke, residual fuel oil, special naphthas, still gas, waxes, and miscellaneous petroleum products. In the nonfuel use of these fuels, some of the carbon is sequestered, and is thus subtracted from the fuel consumption values in Steps 1 and 2.

Estimates of annual nonfuel use and associated carbon sequestration are developed by EIA using the methodology

detailed in "Documentation for *Emissions of Greenhouse Gases in the United States 2008*" at http://www.eia.gov/oiaf/1605/ggrpt/documentation/pdf/0638(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— CO_2 emissions for coal are calculated for each sector (residential, commercial, coke plants, other industrial, transportation, electric power). Total coal emissions are the sum of the sectoral coal emissions.

Coal Coke Net Imports—CO₂ emissions for coal coke net imports are calculated.

Natural Gas— CO_2 emissions for natural gas are calculated for each sector (residential, commercial, industrial, transportation, electric power). Total natural gas emissions are the sum of the sectoral natural gas emissions.

Petroleum— CO_2 emissions are calculated for each petroleum product. Total petroleum emissions are the sum of the product emissions. Total LPG emissions are the sum of the emissions for the component products (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene); residential, commercial, and transportation sector LPG emissions are estimated by multiplying consumption values in trillion Btu from MER Tables 3.8a and 3.8c by the propane emissions factor; industrial sector LPG emissions are estimated as total LPG emissions minus emissions by the other sectors.

Geothermal and Non-Biomass Waste—Annual CO_2 emissions data for geothermal and non-biomass waste are EIA estimates based on Form EIA-923, "Power Plant Operations Report" (and predecessor forms). Monthly estimates are created by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month. (Annual estimates for the current year are set equal to those of the previous year.)

Biomass— CO_2 emissions for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are calculated for each sector. Total emissions for each biomass fuel are the sum of the sectoral emissions. The following factors, in million metric tons CO_2 per quadrillion Btu, are used: wood —93.80; biomass waste—90.70; fuel ethanol—68.44; and biodiesel—73.84. For 1973–1988, the biomass portion of waste in MER Tables 10.2a–10.2c is estimated as 67 percent; for 1989–2000, the biomass portion of waste is estimated as 67 percent in 1989 to 58 percent in 2000, based on the biogenic shares of total municipal solid waste shown in EIA's "Methodolology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy," Table 1 at http://www.eia.gov/cneaf/solar.renewables/page/mswaste/msw.pdf.

THIS PAGE INTENTIONALLY LEFT BLANK

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 butanepropane mixture, the thermal conversion factor for butane is weighted 1.5 times the thermal conversion factor for propane.

In general, the annual thermal conversion factors presented in Tables A2 through A6 are computed from final annual data or from the best available data and labeled "preliminary." Often, the previous year's factor is used as a preliminary value until data become available to calculate the factor appropriate to the year. The source of each factor is described in the section entitled "Thermal Conversion Factor Source Documentation," which follows Table A6 in this appendix.

Table A1. Approximate Heat Content of Petroleum Products (Million Btu per Barrel)

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	6.636	Pentanes Plus	4.620
Aviation Gasoline	5.048	Petrochemical Feedstocks	
Butane	4.326	Naptha Less Than 401°F	5.248
Butane-Propane Mixture ^a	4.130	Other Oils Equal to or Greater Than 401°F	5.825
Distillate Fuel Oil ^b	5.825	Still Gas	6.000
Ethane	3.082	Petroleum Coke	6.024
Ethane-Propane Mixture ^c	3.308	Plant Condensate	5.418
Isobutane	3.974	Propane	3.836
Jet Fuel, Kerosene Type	5.670	Residual Fuel Oil	6.287
Jet Fuel, Naphtha Type	5.355	Road Oil	6.636
Kerosene	5.670	Special Naphthas	5.248
Lubricants	6.065	Still Gas	6.000
Motor Gasoline ^d		Unfinished Oils	5.825
Conventional	5.253	Unfractionated Stream	5.418
Reformulated	5.150	Waxes	5.537
Oxygenated	5.150	Miscellaneous	5.796
Natural Gasoline and Isopentane	4.620		

^a 60 percent butane and 40 percent propane.

^b Does not include biodiesel. See Table A3 for biodiesel heat contents.

° 70 percent ethane and 30 percent propane.

^d See Table A3 for motor gasoline weighted heat contents beginning in 1994, and for fuel ethanol heat contents.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

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

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

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

	Production			Imports			Exports		
-	Crude Oil ^a	Natural Gas Plant Liquids	Crude Oil ^a	Petroleum Products	Total	Crude Oil ^a	Petroleum Products	Total	
973	5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752	
974	5.800	4.011	5.827	5.959	5.884	5.800	5.773	5.774	
975	5.800	3.984	5.821	5.935	5.858	5.800	5.747	5.748	
976	5.800	3.964	5.808	5.980	5.856	5.800	5.743	5.745	
977	5.800	3.941	5.810	5.908	5.834	5.800	5.796	5.797	
978	5.800	3.925	5.802	5.955	5.839	5.800	5.814	5.808	
979	5.800	3.955	5.810	5.811	5.810	5.800	5.864	5.832	
980	5.800	3.914	5.812	5.748	5.796	5.800	5.841	5.820	
980	5.800	3.930	5.818	5.659	5.775	5.800	5.837	5.820	
981	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	5.820	
984	5.800	3.812	5.823	5.613	5.745	5.800	5.867	5.800	
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	5.830	
989	5.800	3.826	5.906	5.641	5.833	5.800	5.869	5.857	
999	5.800	3.822	5.934	5.614	5.849	5.800	5.838	5.833	
990	5.800	3.807	5.934	5.636	5.873	5.800	5.827	5.823	
997	5.800	3.804	5.953	5.623	5.877	5.800	5.774	5.777	
992	5.800	3.804	5.953	5.620	5.883	5.800	5.774	5.779	
	5.800	3.794	5.954	5.534	5.861	5.800	5.777	5.779	
994 995	5.800	3.794	5.938	5.483	5.855	5.800	5.740	5.746	
							5.728	5.746	
996	5.800 5.800	3.777 3.762	5.947 5.954	5.468 5.469	5.847 5.862	5.800 5.800	5.726	5.736	
997	5.800								
998 999	5.800	3.769 3.744	5.953 5.942	5.462 5.421	5.861 5.840	5.800 5.800	5.710 5.684	5.720 5.699	
	5.800	3.733	5.959				5.651	5.658	
000				5.432	5.849	5.800			
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	
06	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	
	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	
010	5.800	3.674	5.989	5.557	5.894	5.800	5.670	5.672	
011	5.800	3.672	6.008	5.507	5.896	5.800	5.596	5.599	
012 ^E	5.800	3.672	6.008	5.507	5.896	5.800	5.596	5.599	

^a Includes lease condensate.
 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 Pe	troleum ^a C	onsumption b	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 ⁱ	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
1979	5.305	5.751	5.366	5.441	6.254		3.674	5.253	3.563			NA
			5.299		6.254	5.479		5.253	3.563	6.586	NA	NA NA
1981	5.283	5.693		5.433		5.448	3.643			6.562	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
2004	4.935	5.364	5.178	5.427	6.188	5.365	3.620	5.215	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
2008	4.850	5.298	5.100	5.431	6.143	5.355	3.605	5.210	3.563	6.009	5.359	5.433 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 4.676	E 5.243	E 4.952	E 5.424	6.058	5.286	3.541	5.218	3.560	5.905	5.359	5.433
2012	^E 4.676	^E 5.243	^E 4.952	^E 5.424	^E 6.058	^E 5.286	^E 3.541	^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.

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

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

ⁱ Corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol), used as the factor to estimate total biomass inputs to the production of undenatured ethanol. Observed ethanol yields (gallons undenatured ethanol per bushel of corn) are 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; yields in other years are estimated. Corn is assumed to have a gross heat content of 0.392 million Btu per bushel. Undenatured ethanol is assumed to have a gross heat content of 3.539 million Btu per barrel.

¹ Soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel), used as the factor to estimate total biomass inputs to the production of biodiesel. It is assumed that 7.65 pounds of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. Soybean oil is assumed to have a gross heat content of 16,909 Bu per pound, or 5.483 million Btu per barrel. Biodiesel is assumed to have a gross heat content of 17,253 Btu per pound, or 5.359 million Btu per barrel.

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/month//#appendices. Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Produ	Production		Consumption ^a			
	Marketed	Dry	End-Use Sectors ^b	Electric Power Sector ^c	Total	Imports	Exports
973	1,093	1,021	1,020	1,024	1,021	1,026	1,023
973	1.097	1.024	1,020	1,022	1,021	1.027	1,023
975	1,095	1,024	1,024	1,022	1,024	1,026	1,010
976	1,093	1,020	1,019	1,023	1,020	1,025	1,014
977	1,093	1,020	1,019	1,029	1,020	1,025	1,013
978	1,088	1,019	1,016	1,034	1,019	1,030	1,013
079	1.092	1.021	1.018	1.035	1.021	1,030	1,013
980	1,098	1,026	1.024	1,035	1.026	1,022	1,013
981	1,103	1,020	1,024	1,035	1,020	1,014	1,013
982	1,107	1,027	1,025	1,035	1,027	1,014	1,011
983	1,115	1.031	1.031	1.030	1.031	1,010	1,011
984	1,109	1,031	1,030	1,035	1,031	1,005	1,010
985	1,112	1,032	1,031	1,038	1,032	1,002	1,010
986	1,110	1,030	1,029	1,034	1,032	997	1,008
987	1,112	1,031	1,031	1,032	1,030	999	1,000
988	1,109	1,029	1,029	1,028	1,029	1,002	1,011
989	1,107	1,031	1,031	^c 1,028	1,023	1,002	1,019
990	1,105	1,029	1,030	1,027	1,029	1,012	1,018
991	1,103	1,029	1,031	1,025	1,029	1,012	1,018
992	1,110	1.030	1.031	1,025	1,030	1,014	1,022
993	1,106	1.027	1.028	1,025	1,030	1.020	1,018
993	1,105	1,027	1,028	1,025	1,027	1,020	1,010
994	1,105	1,026	1,029	1,025	1,028	1,022	1,011
996	1,109	1,026	1,027	1,020	1,026	1,022	1,011
990	1,107	1,026	1,027	1,020	1,026	1,022	1,011
997	1,107	1,020	1,033	1,020	1,020	1,023	1,011
999	1,107	1,027	1,033	1,022	1,027	1,023	1,006
000	1,107	1,027	1,028	1,022	1,027	1,022	1,006
	1,107	1,025	1,026	1,021	1,025	1,023	1,006
001	1,105	1,028	1,029	1,026	1,028	1,023	1,010
02			1,025		1,024	1,022	1,008
003	1,103 1,104	1,028 1,026	1,029	1,025 1,027	1,028	1,025	1,009
004 005		1,026	1,026	,	1,026	1,025	
	1,104 1,103	1,028	1,028	1,028 1,028	1,028	1,025	1,009 1,009
06							
07	1,102	1,027	1,027	1,027	1,027	1,025	1,009
	1,100	1,027	1,027	1,027	1,027	1,025	1,009
009	1,101 ^R 1,098	1,025	1,025	1,025	1,025	1,025	1,009
010	^R 1,098	1,023	1,023 ^R 1,022	1,022	1,023	1,025	1,009
011		1,022 F 1,022		1,021	1,022 F 1,022	1,025	1,009
012	^{RE} 1,094	^E 1,022	^{RE} 1,022	^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.
 R=Revised. E=Estimate.
 Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.
 Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.
 Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A5. Approximate Heat Content of Coal and Coal Coke

(Million Btu per Short Ton)

Pr 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1984 1985 1986 1986 1986 1986 1987 1980 19	23.376 23.072 22.897 22.855 22.597 22.248 22.454 22.454 22.415 22.308 22.239 22.262	Waste Coal Supplied ^b NA NA NA NA NA NA NA	Residential and Commercial Sectors 22.831 22.479 22.261 22.774 22.919	Coke Plants 26.780 26.778 26.782	Consumption I Sector Other ^c 22.586 22.419	Electric Power Sector ^{d,e} 22.246	Total	Imports	Exports	Imports and Exports
1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993	23.376 23.072 22.897 22.855 22.597 22.248 22.454 22.415 22.308 22.239	Coal Supplied ^b NA NA NA NA NA NA	and Commercial Sectors 22.831 22.479 22.261 22.774	Coke Plants 26.780 26.778	Other ^c 22.586	Power Sector ^{d,e}		Imports	Exports	and
1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1989 1990 1992 1993	23.376 23.072 22.897 22.855 22.597 22.248 22.454 22.415 22.308 22.239	Supplied ^b NA NA NA NA NA NA	22.831 22.479 22.261 22.774	26.780 26.778	22.586	Sector ^{d,e}		Imports	Exports	
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993	23.072 22.897 22.855 22.597 22.248 22.454 22.454 22.415 22.308 22.239	NA NA NA NA NA	22.479 22.261 22.774	26.778		22 246				
1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993	23.072 22.897 22.855 22.597 22.248 22.454 22.454 22.415 22.308 22.239	NA NA NA NA NA	22.479 22.261 22.774	26.778			23.057	25.000	26.596	24.800
975	22.897 22.855 22.597 22.248 22.454 22.415 22.308 22.239	NA NA NA NA	22.261 22.774			21.781	22.677	25.000	26.700	24.800
976	22.855 22.597 22.248 22.454 22.415 22.308 22.239	NA NA NA NA	22.774	20.702	22.436	21.642	22.506	25.000	26.562	24.800
977	22.597 22.248 22.454 22.415 22.308 22.239	NA NA NA		26.781	22.530	21.679	22.498	25.000	26.601	24.800
978	22.248 22.454 22.415 22.308 22.239	NA NA			22.330				26.548	
979 980 981 982 983 984 985 986 987 988 988 989 990 991 992 993	22.454 22.415 22.308 22.239	NA		26.787		21.508	22.265	25.000		24.800
1980 1981 1982 1983 1984 1985 1985 1986 1987 1988 1989 1990 1991 1992 1993	22.415 22.308 22.239		22.466	26.789	22.207	21.275	22.017	25.000	26.478	24.800
981	22.308 22.239		22.242	26.788	22.452	21.364	22.100	25.000	26.548	24.800
1982 1983 1984 1984 1985 1986 1987 1988 1989 1989 1990 1991 1992 1993	22.239	NA	22.543	26.790	22.690	21.295	21.947	25.000	26.384	24.800
983		NA	22.474	26.794	22.585	21.085	21.713	25.000	26.160	24.800
984 985 986 987 988 989 990 991 992 993		NA	22.695	26.797	22.712	21.194	21.674	25.000	26.223	24.800
985	22.052	NA	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800
986	22.010	NA	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800
987 988 990 991 992 993	21.870	NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
988 989 990 991 992 993	21.913	NA	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800
989 990 991 992 993	21.922	NA	23.404	26.799	22.381	21.136	21.517	25.000	26.291	24.800
989 990 991 992 993	21.823	NA	23.571	26.799	22.360	20.900	21.328	25.000	26.299	24.800
990 991 992 993	21.765	^b 10.391	23,650	26.800	22.347	^d 20.898	21.307	25.000	26,160	24.800
991 992 993	21.822	9.303	23,137	26,799	22,457	20.779	21,197	25.000	26,202	24.800
992 993	21.681	10.758	23.114	26.799	22.460	20.730	21.120	25.000	26.188	24.800
993	21.682	10.396	23.105	26.799	22.250	20.709	21.068	25.000	26.161	24.800
	21.418	10.638	22.994	26.800	22.123	20.677	21.000	25.000	26.335	24.800
	21.394	11.097	23.112	26.800	22.068	20.589	20.929	25.000	26.329	24.800
	21.394	11.722	23.112	26.800	21.950	20.589	20.829	25.000	26.180	24.800
995										
996	21.322	12.147	23.011	26.800	22.105	20.547	20.870	25.000	26.174	24.800
997	21.296	12.158	22.494	26.800	22.172	20.518	20.830	25.000	26.251	24.800
998	21.418	12.639	21.620	27.426	23.164	20.516	20.881	25.000	26.800	24.800
999	21.070	12.552	23.880	27.426	22.489	20.490	20.818	25.000	26.081	24.800
	21.072	12.360	25.020	27.426	22.433	20.511	20.828	25.000	26.117	24.800
	^a 20.772	12.169	24.909	27.426	22.622	20.337	20.671	25.000	25.998	24.800
002	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
	20.424	12.266	22.324	27.426	22.473	19.980	20.290	25.000	26.108	24.800
	20.348	12.093	22.342	26.279	22.178	19.988	20.246	25.000	25.494	24.800
006	20.310	12.080	22.066	26.271	22.050	19.931	20.181	25.000	25.453	24.800
	20.340	12.090	22.069	26.329	22.371	19.909	20.168	25.000	25.466	24.800
2008	20.208	12.121	21.887	26.281	22.348	19.713	19.977	25.000	25.399	24.800
2009	19.963	12.076	22.059	26.334	21.893	19.521	19.742	25.000	25.633	24.800
2010	20.173	11.960	21.826	26.296	21.005	19.623	19.829	25.000	25.713	24.800
2011	20.173	11.604	21.179	26.300	21.738	19.341	19.605	25.000	25.645	24.800
	E 20.142	^E 11.604	E 21.179	E 26.300	E 21.738	^E 19.341	E 19.605	E 25.000	E 25.645	E 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

materials). ^b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and ^b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and ^b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and ^b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and ^b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and ^b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and ^b Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and ^c Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and ^c Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and ^c Waste coal (including fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste) consumed by the electric power and ^c 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 the slurry dam and the slurry dam anthracite culm, bituminous gob, and the slurry dam anthracite culm, bituminous gob, and the slur ^b Waste coal (including tine coal, coal obtained from a refuse bank or slurry dam, anthractic culm, bituminous gob, and lightle waste) consumed by the electric power i 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 only; beginning in 1989, data are for anthractic, bituminous coal, subbituminous coal, lignite, waste coal, and, beginning in 1998, coal synfuel.
 ^EEstimate. NA=Not available.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/totalenergy/data/month/#/#appendices. Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A6. Approximate Heat Rates for Electricity, and Heat Content of Electricity (Btu per Kilowatthour)

		Approx	imate Heat Rates	a for Electricity Net Ge	neration		
		Fossil	Fuels ^b			Noncombustible	
	Coalc	Petroleum ^d	Natural Gas ^e	Total Fossil Fuels ^{f,g}	Nuclear ^h	Renewable Energy ^{g,i}	Heat Content ^j o Electricity ^k
973	NIA	NIA	NIA	10.280	10.002	10.390	2 44 2
	NA	NA NA	NA NA	10,389 10,442	10,903	10,389 10.442	3,412
974	NA				11,161		3,412
975	NA	NA	NA	10,406	11,013	10,406	3,412
976	NA	NA	NA	10,373	11,047	10,373	3,412
977	NA	NA	NA	10,435	10,769	10,435	3,412
978	NA	NA	NA	10,361	10,941	10,361	3,412
979	NA	NA	NA	10,353	10,879	10,353	3,412
980	NA	NA	NA	10,388	10,908	10,388	3,412
981	NA	NA	NA	10,453	11,030	10,453	3,412
982	NA	NA	NA	10,454	11,073	10,454	3,412
983	NA	NA	NA	10,520	10,905	10,520	3,412
984	NA	NA	NA	10,440	10,843	10,440	3,412
985	NA	NA	NA	10,447	10,622	10,447	3,412
986	NA	NA	NA	10,446	10,579	10,446	3,412
987	NA	NA	NA	10,419	10.442	10,419	3.412
988	NA	NA	NA	10.324	10.602	10.324	3.412
989	NA	NA	NA	10,432	10,583	10,432	3,412
990	NA	NA	NA	10.402	10,582	10,402	3.412
991	NA	NA	NA	10,436	10,484	10,436	3,412
992	NA	NA	NA	10,342	10,471	10,342	3,412
993	NA	NA	NA	10,309	10,504	10,309	3,412
994	NA	NA	NA	10,316	10,452	10,316	3,412
	NA	NA	NA	10,310	10,452	10,312	3,412
995							
996	NA	NA	NA	10,340	10,503	10,340	3,412
997	NA	NA	NA	10,213	10,494	10,213	3,412
998	NA	NA	NA	10,197	10,491	10,197	3,412
999	NA	NA	NA	10,226	10,450	10,226	3,412
	NA	NA	NA	10,201	10,429	10,201	3,412
001	10,378	10,742	10,051	^b 10,333	10,443	10,333	3,412
002	10,314	10,641	9,533	10,173	10,442	10,173	3,412
003	10,297	10,610	9,207	10,125	10,421	10,125	3,412
004	10,331	10,571	8,647	10,016	10,427	10,016	3,412
005	10,373	10,631	8,551	9,999	10,436	9,999	3,412
	10,351	10,809	8,471	9,919	10,436	9,919	3,412
	10,375	10,794	8,403	9,884	10,485	9,884	3,412
008	10,378	11,015	8,305	9,854	10,453	9,854	3,412
009	10,414	10,923	8,160	9,760	10,460	9,760	3,412
010	10,415	10,984	8,185	9,756	10,452	9,756	3,412
011	10,444	10,829	8,152	9,716	10,464	9,716	3,412
012	E 10,444	E 10,829	E 8,152	E 9.716	E 10,464	E 9.716	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 antimatile, bitantinuda coal, substantinuda coal, inginar, and, asguming and and a substantinuda coal, substantinuda coal, inginar, and, asguming and a lincludes 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.

^j See "Heat Content" in Glossary. ^k The value of 3,412 Btu per kilowatthour is a constant. It is used as the thermal conversion factor for electricity retail sales, and electricity imports and exports. E=Estimate. NA=Not available.

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

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

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The U.S. Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

Aviation Gasoline. EIA adopted the thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics.

Butane. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane-Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See **Butane** and **Propane**.

Crude Oil Exports. Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See **Crude Oil Production**.

Crude Oil Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil imported weighted by the quantities imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude oil imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content by using National Bureau of Standards, Miscellaneous Publication No. 97, *Thermal Properties of Petroleum Products*, 1933.

Crude Oil Production. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Distillate Fuel Oil. EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Ethane. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Ethane-Propane Mixture. EIA calculation of 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See **Ethane** and **Propane**.

Isobutane. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics.

Kerosene. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Liquefied Petroleum Gases Consumption. Calculated annually by EIA as the average of the thermal conversion factors for all liquefied petroleum gases consumed (see Table A1) weighted by the quantities consumed. The component products of liquefied petroleum gases are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. For 1973–1980, quantities consumed are from EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1. For 1981 forward, quantities consumed are from EIA, *Petroleum Supply Annual*, Table 2.

Lubricants. EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual,* 1956.

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956*.

Motor Gasoline Consumption. 1973–1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics. 1994 forward: EIA calculated national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (see Table A3). The factor for conventional motor gasoline is 5.253 million Btu per barrel, as used for

previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, "Fuel Economy Impact Analysis of Reformulated Gasoline." See Fuel Ethanol (Denatured).

Natural Gas Plant Liquids Production. Calculated annually by EIA as the average of the thermal conversion factors for each natural gas plant liquid produced weighted by the quantities produced.

Natural Gasoline. EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement, Annual, 1956.*

Pentanes Plus. EIA assumed the thermal conversion factor to be 4.620 million Btu or equal to that for natural gasoline. See **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha less than 401° F. Assumed by EIA to be 5.248 million Btu per barrel, equal to the thermal conversion factor for special naphthas. See **Special Naphthas**.

Petrochemical Feedstocks, Other Oils equal to or greater than 401° F. Assumed by EIA to be 5.825 million Btu per barrel, equal to the thermal conversion factor for distillate fuel oil. See **Distillate Fuel Oil**.

Petrochemical Feedstocks, Still Gas. Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See **Still Gas**.

Petroleum Coke. EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950." The Bureau of Mines calculated this factor by dividing 30.120 million Btu per short ton, as given in the referenced Bureau of Mines internal memorandum, by 5.0 barrels per short ton, as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Petroleum Consumption, Commercial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the commercial sector weighted by the estimated quantities consumed by the commercial sector. The quantities of petroleum products consumed by the commercial sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/state/seds/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Electric Power Sector. Calculated annually by EIA as the average of the thermal

conversion factors for all petroleum products consumed by the electric power sector weighted by the quantities consumed by the electric power sector. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Petroleum Consumption, Industrial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the industrial sector weighted by the estimated quantities consumed by the industrial sector. The quantities of petroleum products consumed by the industrial sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/state/seds/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Residential Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential sector weighted by the estimated quantities consumed by the residential sector. The quantities of petroleum products consumed by the residential sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/state/seds/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Total. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed weighted by the quantities consumed.

Petroleum Consumption, Transportation Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the transportation sector weighted by the estimated quantities consumed by the transportation sector. The quantities of petroleum products consumed by the transportation sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/state/seds/sep_use/notes/use_petrol.pdf.

Petroleum Products Exports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported weighted by the quantities exported.

Petroleum Products Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantities imported.

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the

Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of asphalt (see **Asphalt**) and was first published by the Bureau of Mines in the *Petroleum Statement, Annual, 1970.*

Special Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, which was assumed to be equal to that of the total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement, Annual, 1970.*

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel, first published in the *Petroleum Statement, Annual, 1970*.

Total Petroleum Exports. Calculated annually by EIA as the average of the thermal conversion factors for crude oil and each petroleum product exported weighted by the quantities exported. See **Crude Oil Exports** and **Petro***leum Products Exports*.

Total Petroleum Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil and petroleum product imported weighted by the quantities imported. See **Crude Oil Imports** and **Petroleum Products Imports**.

Unfinished Oils. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see **Distillate Fuel Oil**) and first published it in EIA's *Annual Report to Congress, Volume 3, 1977.*

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for plant condensate (see **Plant Condensate**) and first published it in EIA's *Annual Report to Congress, Volume 2, 1981*.

Waxes. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Approximate Heat Content of Biofuels

Biodiesel. EIA estimated the thermal conversion factor for biodiesel to be 5.359 million Btu per barrel, or 17,253 Btu per pound.

Biodiesel Feedstock. EIA used soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel) as the factor to estimate total biomass inputs to the production of biodiesel. EIA assumed that 7.65 pounds

of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. EIA also assumed that soybean oil has a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel.

Ethanol (Undenatured). EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Fuel Ethanol (Denatured). 1981-2008: EIA used the 2009 factor. 2009 forward: Calculated by EIA as the annual quantity-weighted average of the thermal conversion factors for undenatured ethanol (3.539 million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as denaturant (5.253 million Btu per barrel). The quantity of ethanol consumed is from EIA's Petroleum Supply Annual (PSA) and Petroleum Supply Monthly (PSM), Table 1, data for renewable fuels and oxygenate plant net production of fuel ethanol. The quantity of pentanes plus used as denaturant is from PSA/PSM, Table 1, data for renewable fuels and oxygenate plant net production of pentanes plus, multiplied by -1. The quantity of conventional motor gasoline and motor gasoline blending components used as denaturant is from PSA/PSM, Table 1, data for renewable fuels and oxygenate plant net production of conventional motor gasoline and motor gasoline blending components, multiplied by -1.

Fuel Ethanol Feedstock. EIA used corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol) as the annual factor to estimate total biomass inputs to the production of undenatured ethanol. U.S. Department of Agriculture observed ethanol yields (gallons undenatured ethanol per bushel of corn) were 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; EIA estimated the ethanol yields in other years. EIA also assumed that corn has a gross heat content of 0.392 million Btu per bushel.

Approximate Heat Content of Natural Gas

Natural Gas Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of natural gas consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Natural Gas Consumption, End-Use Sectors. Calculated annually by EIA by dividing the heat content of natural gas consumed by the end-use sectors (residential, commercial,

industrial, and transportation) by the quantity consumed. Data are from Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Natural Gas Consumption, Total. 1973–1979: EIA adopted the thermal conversion factor calculated annually by the American Gas Association (AGA) and published in *Gas Facts*, an AGA annual publication. 1980 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed by the total quantity consumed.

Natural Gas Exports. Calculated annually by EIA by dividing the heat content of natural gas exported by the quantity exported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Imports. Calculated annually by EIA by dividing the heat content of natural gas imported by the quantity imported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Production, Dry. Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed. See **Natural Gas Consumption, Total**.

Natural Gas Production, Marketed. Calculated annually by EIA by dividing the heat content of dry natural gas produced (see **Natural Gas Production, Dry**) and natural gas plant liquids produced (see **Natural Gas Plant Liquids Production**) by the total quantity of marketed natural gas produced.

Approximate Heat Content of Coal and Coal Coke

Coal Coke Imports and Exports. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Coal Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of coal consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Industrial Sector, Coke Plants. Calculated annually by EIA by dividing the heat content of coal consumed by coke plants by the quantity consumed. Data are from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants."

Coal Consumption, Industrial Sector, Other. Calculated annually by EIA by dividing the heat content of coal consumed by manufacturing plants by the quantity consumed. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

Coal Consumption, Residential and Commercial Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the residential and commercial sectors by the quantity consumed. Through 1999, data are from Form EIA-6, "Coal Distribution Report." Beginning in 2000, data are for commercial combined-heat-and-power (CHP) plants from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Total. Calculated annually by EIA by dividing the total heat content of coal consumed by all sectors by the total quantity consumed.

Coal Exports. Calculated annually by EIA by dividing the heat content of steam coal and metallurgical coal exported by the quantity exported. Data are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545."

Coal Imports. Assumed by EIA to be 25.000 million Btu per short ton.

Coal Production. Calculated annually by EIA to balance the heat content of coal supply (production and imports) and the heat content of coal disposition (exports, stock change, and consumption).

Waste Coal Supplied. Calculated annually by EIA by dividing the total heat content of waste coal supplied by the quantity supplied. For 1989–1997, data are from Form EIA-867, "Annual Nonutility Power Producer Report." For 1998–2000, data are from Form EIA-860B, "Annual Electric Generator Report—Nonutility." For 2001 forward, data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants"; Form EIA-923, "Power Plant Operations Report"; and predecessor forms.

Approximate Heat Rates for Electricity

Electricity Net Generation, Coal. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using anthracite, bituminous coal, subbituminous coal, lignite, and beginning in 2002, waste coal and coal synfuel.

Electricity Net Generation, Natural Gas. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using natural gas and supplemental gaseous fuels. **Electricity Net Generation, Noncombustible Renewable Energy.** There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydro, geothermal, solar thermal, photovoltaic, and wind energy sources. Therefore, EIA calculates a rate factor that is equal to the annual average heat rate factor for fossil-fueled power plants in the United States (see "Electricity Net Generation, Total Fossil Fuels"). By using that factor it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption, such as droughts.

Electricity Net Generation, Nuclear. 1973–1984: Calculated annually by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation were reported on Form FERC-1. "Annual Report of Major Electric Utilities, Licensees, and Others"; Form EIA-412, "Annual Report of Public Electric Utilities"; and predecessor forms. For 1982, the factors were published in EIA, Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215. For 1983 and 1984, the factors were published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 13. 1985 forward: Calculated annually by EIA by using the heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms).

Electricity Net Generation, Petroleum. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.

Electricity Net Generation, Total Fossil Fuels. 1973-1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 9. 1989–2000: Calculated annually by EIA by using the heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using coal, petroleum, natural gas, and other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels).

THIS PAGE INTENTIONALLY LEFT BLANK

Appendix B

Metric Conversion Factors, Metric Prefixes, and Other Physical Conversion Factors

Data presented in the *Monthly Energy Review* and in other U.S. Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. Customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

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

^aExact conversion.

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

^eThe Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. ^eTo convert degrees Fahrenheit (^eF) to degrees Celsius (^eC) exactly, subtract 32, then multiply by 5/9.

Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, see http://physics.nist.gov/cuu/Units/index.html.

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

Sources: • General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 1993), pp. 9-11, 13, and 16. • U.S. Department of Commerce, National Institute of Standards and Technology, Special Publications 330, 811, and 814. • American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268-1992, pp. 28 and 29.

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10 ¹	deka	da	10 ⁻¹	deci	d
10 ²	hecto	h	10-2	centi	с
10 ³	kilo	k	10 ⁻³	milli	m
10 ⁶	mega	Μ	10 ⁻⁶	micro	μ
10 ⁹	giga	G	10 ⁻⁹	nano	n
10 ¹²	tera	Т	10 ⁻¹²	pico	р
10 ¹⁵	peta	Р	10 ⁻¹⁵	femto	f
10 ¹⁸	exa	E	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	Z
10 ²⁴	yotta	Y	10 ⁻²⁴	yocto	у

Table B2. Metric Prefixes

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices. Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p.10.

Table B3. Other Physical Conversion Factors

Energy Source	Original Unit		Equivalent in Final Units			
Petroleum	1 barrel (bbl)	=	42ª	U.S. gallons (gal)		
Coal	1 short ton	=	2,000ª	pounds (lb)		
	1 long ton	=	2,240 ^a	pounds (lb)		
	1 metric ton (t)	=	1,000ª	kilograms (kg)		
Wood	1 cord (cd)	=	1.25 ^b	shorts tons		
	1 cord (cd)	=	128ª	cubic feet (ft ³)		

^aExact conversion.

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

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

Source: U.S. Department of Commerce, National Institute of Standards and Technology, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17 and C-21.

THIS PAGE INTENTIONALLY LEFT BLANK

Glossary

Alcohol: The family name of a group of organic chemical compounds composed of carbon, hydrogen, and oxygen. The series of molecules vary in chain length and are composed of a **hydrocarbon** plus a hydroxyl group; CH(3)-(CH(2))_n-OH (e.g., **methanol**, **ethanol**, and tertiary butyl alcohol). See **Fuel Ethanol**.

Alternative Fuel: Alternative fuels, for transportation applications, include the following: methanol; denatured ethanol, and other alcohols; fuel mixtures containing 85 percent or more by volume of methanol, denatured ethanol, and other alcohols with motor gasoline or other fuels; natural gas; liquefied petroleum gas (propane); hydrogen; coal-derived liquid fuels; fuels (other than alcohol) derived from biological materials (biofuels such as soy diesel fuel); electricity (including electricity from solar energy); and "... any other fuel the Secretary determines, by rule, is substantially not petroleum and would yield substantial energy security benefits and substantial environmental benefits." The term "alternative fuel" does not include alcohol or other blended portions of primarily petroleum-based fuels used as oxygenates or extenders, i.e., MTBE, ETBE, other ethers, and the 10-percent ethanol portion of gasohol.

Alternative-Fuel Vehicle (AFV): A vehicle designed to operate on an alternative fuel (e.g., compressed natural gas, methane blend, or electricity). The vehicle could be either a dedicated vehicle designed to operate exclusively on alternative fuel or a nondedicated vehicle designed to operate on alternative fuel and/or a traditional fuel.

Anthracite: The highest rank of coal; used primarily for residential and commercial space heating. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million **Btu** per short ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). *Note:* Since the 1980's, anthracite refuse or mine waste has been used for steam-electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Anthropogenic: Made or generated by a human or caused by human activity. The term is used in the context of global climate change to refer to gaseous emissions that are the result of human activities, as well as other potentially climate-altering activities, such as deforestation. **Asphalt:** A dark-brown-to-black cement-like material containing bitumens as the predominant constituents obtained by petroleum processing. The definition includes crude asphalt as well as the following finished products: cements, fluxes, the asphalt content of emulsions (exclusive of water), and petroleum distillates blended with asphalt to make cutback asphalts.

ASTM: The American Society for Testing and Materials.

Aviation Gasoline Blending Components: Naphthas that will be used for blending or compounding into finished aviation gasoline (e.g., straight run gasoline, alkylate, reformate, benzene, toluene, and xylene). Excludes oxygenates (alcohols, ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in aviation reciprocating engines. Fuel specifications are provided in ASTM Specification D 910 and Military Specification MIL-G-5572. *Note:* Data on blending components are not counted in data on finished aviation gasoline.

Barrel (Petroleum): A unit of volume equal to 42 U.S. Gallons.

Base Gas: The volume of gas needed as a permanent inventory to maintain adequate underground storage reservoir pressures and deliverability rates throughout the withdrawal season. All native gas is included in the base gas volume.

Biodiesel: A fuel typically made from soybean, canola, or other vegetable oils; animal fats; and recycled grease. It can serve as a substitute for **petroleum**-derived **diesel fuel** or **distillate fuel oil**. For U.S. Energy Information Administration reporting, it is a fuel composed of mono-alkyl esters of long chain fatty acids derived from vegetable oils or animal fats, designated B100, and meeting the requirements of ASTM (American Society for Testing & Materials) D 6751.

Biofuels: Liquid fuels and blending components produced from **biomass** (plant) feedstocks, used primarily for transportation. See **Biodiesel** and **Fuel Ethanol**.

Biogenic: Produced by biological processes of living organisms. Note: EIA uses the term "biogenic" to refer only to organic nonfossil material of biological origin.

Biomass: Organic non-fossil material of biological origin constituting a renewable energy source. See Biodiesel,

Biofuels, Biomass Waste, Fuel Ethanol, and Wood and Wood-Derived Fuels.

Biomass Waste: Organic non-fossil material of biological origin that is a byproduct or a discarded product. "Biomass waste" includes municipal solid waste from **biogenic** sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other **biomass** solids, liquids, and gases; but excludes **wood and wood-derived fuels** (including **black liquor**), **biofuels** feedstock, **biodiesel**, and **fuel ethanol**. **Note:** EIA "biomass waste" data also include energy crops grown specifically for energy production, which would not normally constitute waste.

Bituminous Coal: A dense **coal**, usually black, sometimes dark brown, often with well-defined bands of bright and dull material, used primarily as fuel in steamelectric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make **coke**. Bituminous coal is the most abundant coal in active U.S. mining regions. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Black Liquor: A byproduct of the paper production process, alkaline spent liquor, that can be used as a source of energy. Alkaline spent liquor is removed from the digesters in the process of chemically pulping wood. After evaporation, the residual "black" liquor is burned as a fuel in a recovery furnace that permits the recovery of certain basic chemicals.

British Thermal Unit (Btu): The quantity of heat required to raise the temperature of 1 pound of liquid water by 1 degree Fahrenheit at the temperature at which water has its greatest density (approximately 39 degrees Fahrenheit). See **Heat Content**.

Btu: See British Thermal Unit.

Btu Conversion Factor: A factor for converting energy data between one unit of measurement and British thermal units (Btu). Btu conversion factors are generally used to convert energy data from physical units of measure (such as barrels, cubic feet, or short tons) into the energy-equivalent measure of Btu. (See http://www.eia.gov/totalenergy/data/monthly/#appendices for further information on Btu conversion factors.)

Butane: A normally gaseous straight-chain or branchedchain hydrocarbon (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane. *Isobutane*: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams.

Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C_4H_8) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

Carbon Dioxide (CO₂): A colorless, odorless, nonpoisonous gas that is a normal part of Earth's atmosphere. Carbon dioxide is a product of **fossil-fuel** combustion as well as other processes. It is considered a **greenhouse gas** as it traps heat (infrared energy) radiated by the Earth into the atmosphere and thereby contributes to the potential for **global warming**. The **global warming potential** (GWP) of other greenhouse gases is measured in relation to that of carbon dioxide, which by international scientific convention is assigned a value of one (1).

Chained Dollars: A measure used to express **real prices**. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Prior to 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period and is therefore subject to less distortion over time.

CIF: See Cost, Insurance, Freight.

Citygate: A point or measuring station at which a distribution gas utility receives gas from a natural gas pipeline company or transmission system.

Climate Change: A term used to refer to all forms of climatic inconsistency, but especially to significant change from one prevailing climatic condition to another. In some cases, "climate change" has been used synonymously with the term **"global warming"**; scientists, however, tend to use the term in a wider sense inclusive of natural changes in climate, including climatic cooling.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. See **Anthracite**, **Bituminous Coal**, **Lignite**, **Subbituminous Coal**, **Waste Coal**, and **Coal Synfuel**.

Coal Coke: See Coke, Coal.

Coal Stocks: Coal quantities that are held in storage for future use and disposition. Note: When coal data are collected for a particular reporting period (month, quarter, or year), coal stocks are commonly measured as of the last day of the period.

Coal Synfuel: Coal-based solid fuel that has been processed by a **coal synfuel plant**; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coal Synfuel Plant: A plant engaged in the chemical transformation of **coal** into **coal synfuel**.

Coke, Coal: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000° F so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke (coal) has a heating value of 24.8 million Btu per ton.

Coke, Petroleum: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (42 U.S. gallons each) per short ton. Coke (petroleum) has a heating value of 6.024 million Btu per barrel.

Coking Coal: Bituminous coal suitable for making coke. See **Coke**, **Coal**.

Combined-Heat-and-Power (CHP) Plant: A plant designed to produce both heat and electricity from a single heat source. Note: This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious,

social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the abovementioned commercial establishments. Various EIA programs differ in sectoral coverage-for more information see http://www.eia.gov/neic/datadefinitions/Guideforwebcom.htm. See End-Use Sectors and Energy-Use Sectors.

Completion: The installation of permanent equipment for the production of oil or gas. If a well is equipped to produce only oil or gas from one zone or reservoir, the definition of a well (classified as an oil well or gas well) and the definition of a completion are identical. However, if a well is equipped to produce oil and/or gas separately from more than one reservoir, a well is not synonymous with a completion.

Conventional Gasoline: Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. *Note*: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Conventional Hydroelectric Power: Hydroelectric power generated from flowing water that is not created by hydroelectric pumped storage.

Conversion Factor: A factor for converting data between one unit of measurement and another (such as between **short tons** and **British thermal units**, or between **barrels** and gallons). (See http://www.eia.gov/totalenergy/data/monthly/#appendices for further information on conversion factors.) See **Btu Conversion Factor** and **Thermal Conversion Factor**.

Cost, Insurance, Freight (CIF): A sales transaction in which the seller pays for the transportation and insurance of the goods to the port of destination specified by the buyer.

Crude Oil: A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include: 1) small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2) small amounts of nonhydrocarbons produced with the oil, such as sulfur and various metals; and 3) drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude Oil F.O.B. Price: The crude oil price actually charged at the oil-producing country's port of loading. Includes deductions for any rebates and discounts or additions of premiums, where applicable. It is the actual price paid with no adjustment for credit terms.

Crude Oil (Including Lease Condensate): A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Where identifiable, liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded.

Crude Oil Landed Cost: The price of crude oil at the port of discharge, including charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. The cost does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

Crude Oil Refinery Input: The total crude oil put into processing units at refineries.

Crude Oil Stocks: Stocks of crude oil and lease condensate held at refineries, in pipelines, at pipeline terminals, and on leases.

Crude Oil Used Directly: Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

Crude Oil Well: A well completed for the production of crude oil from one or more oil zones or reservoirs. Wells producing both crude oil and natural gas are classified as oil wells.

Cubic Foot (Natural Gas): A unit of volume equal to 1 cubic foot at a pressure base of 14.73 pounds standard per square inch absolute and a temperature base of 60° F.

Degree-Day Normals: Simple arithmetic averages of monthly or annual degree-days over a long period of time (usually the 30-year period 1961-1990). The averages may be simple degree-day normals or population-weighted degree-day normals.

Degree-Days, Cooling (CDD): A measure of how warm a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the base temperature (65 degrees) from the average of the day's high and low temperatures, with negative values set equal to zero. Each day's cooling degree-days are summed to create a cooling degree-day measure for a specified reference period. Cooling degree-days are used in energy analysis as an indicator of air conditioning energy requirements or use.

Degree-Days, Heating (HDD): A measure of how cold a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the average of the day's high and low temperatures from the base temperature (65 degrees), with negative values set equal to zero. Each day's heating degree-days are summed to create a heating degree-day measure for a specified reference period. Heating degree-days are used in energy analysis as an indicator of space heating energy requirements or use.

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degreeday readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

Denaturant: Petroleum, typically pentanes plus or conventional motor gasoline, added to fuel ethanol to make it unfit for human consumption. Fuel ethanol is denatured, usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent denaturant. See **Fuel Ethanol** and **Fuel Ethanol Minus Denaturant**.

Design Electrical Rating, Net: The nominal net electrical output of a nuclear unit as specified by the electric utility for the purpose of plant design.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Diesel Fuel: A fuel composed of **distillate fuel oils** obtained in petroleum refining operation or blends of such distillate fuel oils with **residual fuel oil** used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

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

Distillate Fuel Oil: A general classification for one of the **petroleum** fractions produced in conventional distillation operations. It includes **diesel fuels** and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and **electricity generation**.

Dry Hole: An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Dry Natural Gas Production: See Natural Gas (Dry) Production.

E85: A fuel containing a mixture of 85 percent **ethanol** and 15 percent **motor gasoline**.

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-i.e., North American Industry Classification System 22 plants. See also Combined-Heat-and-Power (CHP) Plant, Electricity-Only Plant, Electric Utility, and Independent Power Producer.

Electric Utility: Any entity that generates, transmits, or distributes **electricity** and recovers the cost of its generation, transmission or distribution assets and operations, either directly or indirectly, through cost-based rates set by a separate regulatory authority (e.g., State Public Service Commission), or is owned by a governmental unit or the consumers that the entity serves. Examples of these entities include: investor-owned entities, public power districts, public utility districts, municipalities, rural electric cooperatives, and State and Federal agencies. Electric utilities may have Federal Energy Regulatory Commission approval for interconnection agreements and wholesale trade tariffs covering either cost-of-service and/or market-based rates

under the authority of the Federal Power Act. See Electric Power Sector.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity Generation: The process of producing electric energy, or the amount of electric energy produced by transforming other forms of energy, commonly expressed in **kilowatthours** (kWh) or megawatthours (Mwh).

Electricity Generation, Gross: The total amount of electric energy produced by generating units and measured at the generating terminal in **kilowatthours** (kWh) or megawatthours (MWh).

Electricity Generation, Net: The amount of **gross electricity generation** less **station use** (the **electric energy** consumed at the generating station(s) for station service or auxiliaries). *Note:* Electricity required for pumping at **hydroelectric pumped-storage** plants is regarded as electricity for station service and is deducted from gross generation.

Electricity-Only Plant: A plant designed to produce electricity only. See also Combined-Heat-and-Power (CHP) Plant.

Electricity Retail Sales: The amount of electricity sold to customers purchasing electricity for their own use and not for resale.

End-Use Sectors: The **residential**, **commercial**, **industrial**, and **transportation** sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in Kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power or as an input in the manufacturing process.

Energy Service Provider: An energy entity that provides service to a retail or end-use customer.

Energy-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and

analyze energy use. The sectors most commonly referred to in EIA are: residential, commercial, industrial, transportation, and electric power.

Ethane: A normally gaseous straight-chain hydrocarbon (C_2H_6) . It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethanol (C_2H_5OH): A clear, colorless, flammable alcohol. Ethanol is typically produced biologically from biomass feedstocks such as agricultural crops and cellulosic residues from agricultural crops or wood. Ethanol can also be produced chemically from ethylene. See Biomass, Fuel Ethanol, and Fuel Ethanol Minus Denaturant.

Ethylene: An olefinic hydrocarbon (C2H4) recovered from refinery processes or petrochemical processes.

Exploratory Well: A well drilled to find and produce oil or gas in an area previously considered an unproductive area, to find a new reservoir in a known field (i.e., one previously found to be producing oil or gas in another reservoir), or to extend the limit of a known oil or gas reservoir.

Exports: Shipments of goods from within the 50 States and the District of Columbia to U.S. possessions and territories or to foreign countries.

Extraction Loss: The reduction in volume of natural gas due to the removal of natural gas liquid constituents, such as ethane, propane, and butane, at natural gas processing plants.

Federal Energy Administration (FEA): A predecessor of the U.S. Energy Information Administration.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the U.S. Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the U.S. Department of Energy was created. Its functions were divided between the U.S. Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

First Purchase Price: The price for domestic crude oil reported by the company that owns the crude oil the first time it is removed from the lease boundary.

Flared Natural Gas: Natural gas burned in flares on the base site or at gas processing plants.

F.O.B. (Free on Board): A sales transaction in which the seller makes the product available for pick up at a specified port or terminal at a specified price and the buyer pays for the subsequent transportation and insurance.

Footage Drilled: Total footage for wells in various categories, as reported for any specified period, includes (1) the deepest total depth (length of well bores) of all wells drilled from the surface, (2) the total of all bypassed footage drilled in connection with reported wells, and (3) all new footage drilled for directional sidetrack wells. Footage reported for directional sidetrack wells does not include footage in the common bore, which is reported as footage for the original well. In the case of old wells drilled deeper, the reported footage is that which was drilled below the total depth of the old well.

Former U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Fossil Fuel: An energy source formed in the Earth's crust from decayed organic material, such as **petroleum**, **coal**, and **natural gas**.

Fossil-Fueled Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Fuel Ethanol: Ethanol intended for fuel use. Fuel ethanol in the United States must be anhydrous (less than 1 percent water). Fuel ethanol is denatured (made unfit for human consumption), usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent petroleum, typically **pentanes plus** or **conventional motor gasoline**. Fuel ethanol is used principally for blending in low concentrations with **motor gasoline** as an **oxygenate** or octane enhancer. In high concentrations, it is used to fuel **alternative-fuel vehicles** specially designed for its use. See **Alternative-Fuel Vehicle**, **Denaturant**, **E85**, **Ethanol**, **Fuel Ethanol Minus Denaturant**, and **Oxygenates**.

Fuel Ethanol Minus Denaturant: An unobserved quantity of anhydrous, biomass-derived, undenatured ethanol for fuel use. The quantity is obtained by subtracting the estimated denaturant volume from fuel ethanol volume. Fuel ethanol minus denaturant is counted as renewable energy, while denaturant is counted as nonrenewable fuel. See Denaturant, Ethanol, Fuel Ethanol, Nonrenewable Fuels, Oxygenates, and Renewable Energy.

Full-Power Operation: Operation of a nuclear generating unit at 100 percent of its design capacity. Full-power operation precedes commercial operation.

Gasohol: A blend of finished motor gasoline containing alcohol (generally **ethanol** but sometimes methanol) at a concentration between 5.7 percent and 10 percent by volume. See **Motor Gasoline, Oxygenated**.

Gas Well: A well completed for the production of natural gas from one or more gas zones or reservoirs. (Wells producing both crude oil and natural gas are classified as oil wells.)

Geothermal Energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust and used for geothermal heat pumps, water heating, or electricity generation.

Global Warming: An increase in the near-surface temperature of the Earth. Global warming has occurred in the distant past as the result of natural influences, but the term is today most often used to refer to the warming some scientists predict will occur as a result of increased **anthropogenic** emissions of **greenhouse gases**. See **Climate Change**.

Global Warming Potential (GWP): An index used to compare the relative radiative forcing of different gases without directly calculating the changes in atmospheric concentrations. GWPs are calculated as the ratio of the radiative forcing that would result from the emission of one kilogram of a **greenhouse gas** to that from the emission of one kilogram of **carbon dioxide** over a fixed period of time, such as 100 years.

Greenhouse Gases: Those gases, such as water vapor, **carbon dioxide**, nitrous oxide, **methane**, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulfur hexafluoride, that are transparent to solar (short-wave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Gross Domestic Product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

GT/IC: Gas turbine and internal combustion plants.

Heat Content: The amount of heat energy available to be released by the transformation or use of a specified physical unit of an energy form (e.g., a ton of coal, a barrel of oil, a kilowatthour of electricity, a cubic foot of natural gas, or a pound of steam). The amount of heat energy is commonly expressed in **British thermal units (Btu)**. *Note*: Heat content of combustible energy forms can be expressed in terms of either gross heat content (higher or upper heating value) or net heat content (lower heating value), depending upon whether or not the available heat energy includes or

excludes the energy used to vaporize water (contained in the original energy form or created during the combustion process). The U.S. Energy Information Administration typically uses gross heat content values.

Heat Rate: A measure of generating station thermal efficiency commonly stated as **Btu** per **kilowatthour**. *Note:* Heat rates can be expressed as either gross or net heat rates, depending whether the electricity output is gross or net generation. Heat rates are typically expressed as net heat rates.

Hydrocarbon: An organic chemical compound of hydrogen and carbon in the gaseous, liquid, or solid phase. The molecular structure of hydrocarbon compounds varies from the simplest (methane, the primary constituent of natural gas) to the very heavy and very complex.

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

Hydroelectric Pumped Storage: Hydroelectricity that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen (H): The lightest of all gases, hydrogen occurs chiefly in combination with oxygen in water. It also exists in acids, bases, **alcohols**, **petroleum**, and other **hydrocarbons**.

Imports: Receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an **electric utility**.

Industrial Sector: An **energy**-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (**NAICS** codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. *Note:* This sector includes **generators** that produce **electricity** and/or **useful thermal output** primarily to support the

above-mentioned industrial activities. Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebind.htm. See End-Use Sectors and Energy-Use Sectors.

Injections (Natural Gas): Natural gas injected into storage reservoirs.

Isobutane: A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams. See **Butane**.

Isobutylene: An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isopentane: A saturated branched-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Jet Fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Jet Fuel, Kerosene-Type: A kerosene-based product with a maximum distillation temperature of 400° F at the 10-percent recovery point and a final maximum boiling point of 572° F. Fuel specifications are provided in ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It issued primarily for commercial turbojet and turboprop aircraft engines.

Jet Fuel, Naphtha-Type: A fuel in the heavy naphtha boiling range, with an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290° to 470° F and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used by the military for turbojet and turboprop engines.

Kerosene: A petroleum distillate having a maximum distillation temperature of 401° F at the 10-percent recovery point, a final boiling point of 572° F, and a minimum flash point of 100° F. Included are the two grades designated in ASTM D3699 (No. 1-K and No. 2-K) and all grades of kerosene called range or stove oil. Kerosene is used in space heaters, cook stoves, and water heaters; it is suitable for use as an illuminant when burned in wick lamps.

Kilowatt: A unit of electrical power equal to 1,000 watts.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 kilowatt (1,000 watts) of power expended for 1 hour. One kilowatthour is equivalent to 3,412 Btu. See Watthour.

Landed Costs: The dollar-per-barrel price of crude oil at the port of discharge. Included are the charges associated

with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Not included are charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage charges).

Lease and Plant Fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and used as fuel in natural gas processing plants.

Lease Condensate: A mixture consisting primarily of pentanes and heavier hydrocarbons, which is recovered as a liquid from natural gas in lease or field separation facilities. Note: This category excludes natural gas liquids, such as butane and propane, which are recovered at natural gas processing plants or facilities.

Lignite: The lowest rank of **coal**, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Liquefied Natural Gas (LNG): Natural gas (primarily methane) that has been liquefied by reducing its temperature to -260° F at atmospheric pressure.

Liquefied Petroleum Gases (LPG): Ethane, ethylene, propane, propylene, normal butane, butylene, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate new natural gas plant liquids.

Low-Power Testing: The period of time between a nuclear generating unit's initial fuel loading date and the issuance of its operating (full-power) license. The maximum level of operation during that period is 5 percent of the unit's design thermal rating.

Lubricants: Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacturing of other products or as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Excluded are byproducts of lubricating oil refining, such as aromatic extracts derived from solvent extraction or tars derived from deasphalting. Included are all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. Lubricant categories are paraffinic and naphthenic.

Marketed Production (Natural Gas): Gross withdrawals less gas used for repressuring, quantities vented and

flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

Methane: A colorless, flammable, odorless, hydrocarbon gas (CH₄) that is the principal constituent of natural gas. It is also an important source of hydrogen in various industrial processes.

Methyl Tertiary Butyl Ether (MTBE): An ether, $(CH_3)_3COCH_3$, intended for motor gasoline blending. See **Oxygenates**.

Methanol: A light, volatile alcohol (CH₃OH) eligible for motor gasoline blending. See **Oxygenates**.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere-for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline Blending: Mechanical mixing of motor gasoline blending components and oxygenates as required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components: Naphtha (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. *Note:* oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Motor Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in sparkignition. Motor gasoline, as defined in ASTM Specification D-4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122°F to 158°F at the 10-percent recovery point to 365°F to 374°F at the 90-percent recovery point. "Motor gasoline" includes conventional gasoline, all types of oxygenated gasoline including gasohol, and reformulated gasoline, but excludes aviation gasoline. Note: Volumetric data on blending components, as well as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

Motor Gasoline Grades: The classification of gasoline by octane ratings. Each type of gasoline (conventional, oxygenated, and reformulated) is classified by three

grades: regular, midgrade, and premium. *Note*: Gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades may be 2 or more octane points lower.

Regular Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 85 and less than 88. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Midgrade Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 88 and less than or equal to 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Premium Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Motor Gasoline, Oxygenated: Finished motor gasoline, other than reformulated gasoline, having an oxygen content of 2.7 percent or higher by weight and required by the U.S. Environmental Protection Agency (EPA) to be sold in areas designated by EPA as carbon monoxide (CO) nonattainment areas. Note: Oxygenated gasoline excludes oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB). Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside CO nonattainment areas are included in data on oxygenated gasoline. Other data on gasohol are included in data on conventional gasoline.

Motor Gasoline, Reformulated: Finished motor gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Note: This category includes oxygenated fuels program reformulated gasoline (OPRG) but excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Motor Gasoline Retail Prices: Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). Those prices are collected in 85 urban areas selected to represent all urban consumers-about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and selfservice.

Motor Gasoline (Total): For stock level data, a sum including finished motor gasoline stocks plus stocks of

motor gasoline blending components but excluding stocks of oxygenates.

MTBE: See Methyl Tertiary Butyl Ether.

NAICS (North American Industry Classification System): A coding system developed jointly by the United States, Canada, and Mexico to classify businesses and industries according to the type of economic activity in which they are engaged. NAICS replaces the Standard Industrial Classification (SIC) codes. For additional information on NAICS, go to

http://www.census.gov/eos/www/naics/.

Naphtha: A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400° F.

Natural Gas: A gaseous mixture of hydrocarbon compounds, primarily methane, used as a fuel for electricity generation and in a variety of ways in buildings, and as raw material input and fuel for industrial processes.

Natural Gas, Dry: Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. *Note:* Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Natural Gas (Dry) Production: The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at the production site include 1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and 2) gas vented and flared. Processing losses include 1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and 2) gas converted to liquid form, such as lease condensate and plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals marketed production less extraction loss.

Natural Gas Marketed Production: Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring; nonhydrocarbon gases removed in treating and processing operations; and quantities vented and flared.

Natural Gas Plant Liquids (NGPL): Natural gas liquids recovered from natural gas in processing plants and, in some situations, from natural gas field facilities, as well as those extracted by fractionators. Natural gas plant liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Material as follows: ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e., products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gas Wellhead Price: The wellhead price of natural gas is calculated by dividing the total reported value at the wellhead by the total quantity produced as reported by the appropriate agencies of individual producing States and the U.S. Minerals Management Service. The price includes all costs prior to shipment from the lease, including gathering and compression costs, in addition to State production, severance, and similar charges.

Natural Gasoline: A mixture of hydrocarbons (mostly pentanes and heavier) extracted from natural gas that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane, which is a saturated branch-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Summer Capacity: The maximum output, commonly expressed in **kilowatts** (kW) or megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of June 1 through September 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Neutral Zone: A 6,200 square-mile area shared equally between Kuwait and Saudi Arabia under a 1992 agreement. The Neutral Zone contains an estimated 5 billion barrels of oil and 8 trillion cubic feet of natural gas.

Nominal Dollars: A measure used to express nominal price.

Nominal Price: The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

Non-Biomass Waste: Material of non-biological origin that is a byproduct or a discarded product. "Non-biomass waste" includes municipal solid waste from non-biogenic sources, such as plastics, and tire-derived fuels.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

Nonrenewable Fuels: Fuels that cannot be easily made or "renewed," such as **crude oil**, **natural gas**, and **coal**.

Nuclear Electric Power (Nuclear Power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

Nuclear Electric Power Plant: A single-unit or multiunit facility in which heat produced in one or more reactors by the fissioning of nuclear fuel is used to drive one or more steam turbines.

Nuclear Reactor: An apparatus in which a nuclear fission chain reaction can be initiated, controlled, and sustained at a specific rate. A reactor includes fuel (fissionable material), moderating material to control the rate of fission, a heavywalled pressure vessel to house reactor components, shielding to protect personnel, a system to conduct heat away from the reactor, and instrumentation for monitoring and controlling the reactor's systems.

OECD: See Organization for Economic Cooperation and Development.

Offshore: That geographic area that lies seaward of the coastline. In general, the coastline is the line of ordinary low water along with that portion of the coast that is in direct contact with the open sea or the line marking the seaward limit of inland water.

Oil: See Crude Oil.

OPEC: See Organization of the Petroleum Exporting Countries.

Operable Unit (Nuclear): In the United States, a nuclear generating unit that has completed low-power testing and been issued a full-power operating license by the Nuclear Regulatory Commission, or equivalent permission to operate.

Organization for Economic Cooperation and Development (OECD): An international organization helping governments tackle the economic, social and governance challenges of a globalized economy. Its membership comprises about 30 member countries. With active relationships with some 70 other countries, non-governmental organizations (NGOs) and civil society, it has a global reach. For details about the organization, see http://www.oecd.org.

Organization of the Petroleum Exporting Countries (**OPEC**): An intergovernmental organization whose stated objective is to "coordinate and unify the petroleum policies of member countries." It was created at the Baghdad Conference on September 10–14, 1960. Current members (with years of membership) include Algeria (1969–present), Angola (2007–present), Ecuador (1973–1992 and 2007–present), Iran (1960–present), Iraq (1960–present), Kuwait (1960–present), Libya (1962–present), Nigeria (1971–present), Qatar (1961–present), Saudi Arabia (1960–present), United Arab Emirates (1967–present), and Venezuela (1960–present). Countries no longer members of OPEC include Gabon (1975–1994) and Indonesia (1962–2008).

Oxygenates: Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. **Ethanol, Methyl Tertiary Butyl Ether (MTBE),** Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum Coke: See Coke, Petroleum.

Petroleum Consumption: See Products Supplied (Petroleum).

Petroleum Imports: Imports of petroleum into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. territories and possessions. Included are imports for the Strategic Petroleum Reserve and withdrawals from bonded warehouses for onshore consumption, offshore bunker use, and military use. Excluded are receipts of foreign petroleum into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas, lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Stocks, Primary: For individual products, quantities that are held at refineries, in pipelines, and at bulk terminals that have a capacity of 50,000 barrels or more, or that are in transit thereto. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but are included in other oils estimates and total.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquid at gas inlet separators or scrubbers in processing plants.

Primary Energy: Energy in the form that it is first accounted for in a statistical energy balance, before any transformation to secondary or tertiary forms of energy. For example, **coal** can be converted to synthetic gas, which can be converted to **electricity**; in this example, coal is primary energy, synthetic gas is secondary energy, and electricity is tertiary energy. See **Primary Energy Production** and **Primary Energy Consumption**.

Primary Energy Consumption: Consumption of primary energy. (Energy sources that are produced from other energy sources-e.g., coal coke from coal-are included in primary energy consumption only if their energy content has not already been included as part of the original energy source. Thus, U.S. primary energy consumption does include net imports of coal coke, but not the coal coke produced from domestic coal.) The U.S. Energy Information Administration includes the following in U.S. primary energy consumption: coal consumption; coal coke net imports; petroleum consumption (petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel); dry natural gas-excluding supplemental gaseous fuels—consumption; nuclear electricity net generation (converted to **Btu** using the nuclear plants heat rate); hydroelectricity conventional net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using

the fossil-fueled plants heat rate); wood and woodderived fuels consumption; biomass waste consumption; fuel ethanol and biodiesel consumption; losses and co-products from the production of fuel ethanol and biodiesel; and electricity net imports (converted to Btu using the electricity heat content of 3,412 Btu per kilowatthour). See Total Energy Consumption.

Primary Energy Production: Production of primary The U.S. Energy Information Administration energy. includes the following in U.S. primary energy production: coal production, waste coal supplied, and coal refuse recovery; crude oil and lease condensate production; natural gas plant liquids production; dry natural gas-excluding supplemental gaseous fuels-production; nuclear electricity net generation (converted to Btu using the nuclear plants heat rate); conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste consumption; and biofuels feedstock.

Prime Mover: The engine, turbine, water wheel, or similar machine that drives an electric generator; or, for reporting purposes, a device that converts energy to electricity directly.

Products Supplied (Petroleum): Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

Propane: A normally gaseous straight-chain hydrocarbon (C_3H_8). It is a colorless paraffinic gas that boils at a temperature of -43.67° F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene: An olefinic hydrocarbon (C_3H_6) recovered from refinery or petrochemical processes.

Real Dollars: These are dollars that have been adjusted for inflation. See **Real Price**.

Real Price: A price that has been adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices, which are expressed in constant dollars, usually reflect buying power relative to a base year.

Refiner Acquisition Cost of Crude Oil: The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Refinery and Blender Net Inputs: Raw materials, unfinished oils, and blending components processed at refineries, or blended at refineries or petroleum storage terminals to produce finished petroleum products. Included are gross inputs of crude oil, natural gas plant liquids, other hydrocarbon raw materials, hydrogen, oxygenates (excluding fuel ethanol), and renewable fuels (including fuel ethanol). Also included are net inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components. Net inputs are calculated as gross inputs minus gross production. Negative net inputs indicate gross inputs are less than gross production. Examples of negative net inputs include reformulated gasoline blendstock for oxygenate blending (RBOB) produced at refineries for shipment to blending terminals, and unfinished oils produced and added to inventory in advance of scheduled maintenance of a refinery crude oil distillation unit.

Refinery and Blender Net Production: Liquefied refinery gases, and finished **petroleum products** produced at a **refinery** or petroleum storage terminal blending facility. Net production equals gross production minus gross inputs. Negative net production indicates gross production is less than gross inputs for a finished petroleum product. Examples of negative net production include reclassification of one finished product to another finished product, or reclassification of a finished product to **unfinished oils** or blending components.

Refinery (Petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Refuse Mine: A surface site where **coal** is recovered from previously mined coal. It may also be known as a silt bank, culm bank, refuse bank, slurry dam, or dredge operation.

Refuse Recovery: The recapture of **coal** from a **refuse mine** or the coal recaptured by that process. The resulting product has been cleaned to reduce the concentration of noncombustible materials.

Renewable Energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, the **fossil fuels**, of which there is a finite supply). Renewable sources of energy include **conventional hydrolectric power**, **biomass**, **geothermal**, **solar**, and **wind**. **Repressuring:** The injection of a pressurized fluid (such as air, gas, or water) into oil and gas reservoir formations to effect greater ultimate recovery.

Residential Sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. *Note:* Various EIA programs differ in sectoral coverage for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebres.htm. See **End-Use Sectors** and **Energy-Use Sectors**.

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC (Standard Industrial Classification): A set of codes developed by the U.S. Office of Management and Budget which categorizes industries into groups with similar economic activities. Replaced by **NAICS (North American Industry Classification System)**.

Solar Energy: See Solar Thermal Energy and Photovoltaic Energy.

Solar Thermal Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or **electricity**.

Special Naphthas: All finished products within the naphtha boiling ranges that are used as paint thinner, cleaners or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Station Use: Energy that is used to operate an **electric power plant**. It includes energy consumed for plant lighting, power, and auxiliary facilities, regardless of whether the energy is produced at the plant or comes from another source.

Steam Coal: All nonmetallurgical coal.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas (Refinery Gas): Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and, petrochemical feedstock.

Stocks: See Coal Stocks, Crude Oil Stocks, or Petroleum Stocks, Primary.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Subbituminous Coal: A **coal** whose properties range from those of **lignite** to those of **bituminous coal** and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Supplemental Gaseous Fuels: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): (Also referred to as substitute natural gas) A manufactured product, chemically similar in most respects to **natural gas**, resulting from the conversion or reforming of **hydrocarbons** that may easily be substituted for or interchanged with pipeline-quality natural gas.

Thermal Conversion Factor: A factor for converting data between physical units of measure (such as **barrels**, **cubic feet**, or **short tons**) and thermal units of measure (such as **British thermal units**, calories, or joules); or for converting data between different thermal units of measure. See **Btu Conversion Factor**. Total Energy Consumption: Primary energy consumption in the end-use sectors, plus electricity retail sales and electrical system energy losses.

Transportation Sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. Note: Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebtrans.htm See End-Use Sectors and Energy-Use Sectors.

Underground Storage: The storage of natural gas in underground reservoirs at a different location from which it was produced.

Unfinished Oils: All oils requiring further refinery processing except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Stream: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

Union of Soviet Socialist Republics (U.S.S.R.): A political entity that consisted of 15 constituent republics: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. The U.S.S.R. ceased to exist as of December 31, 1991.

United States: The 50 States and the District of Columbia. Note: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 States and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term "United States."

Useful Thermal Output: The thermal energy made available in a combined-heat-and-power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Vented Natural Gas: Gas released into the air on the production site or at processing plants.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Coal: Usable material that is a byproduct of previous **coal** processing operations. Waste coal is usually composed of mixed coal, soil, and rock (mine waste). Most waste coal is burned as-is in unconventional fluidized-bed combustors. For some uses, waste coal may be partially cleaned by removing some extraneous noncombustible constituents. Examples of waste coal include fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste.

Waste: See Biomass Waste and Non-Biomass Waste.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A watt is equal to 1/746 horse-power.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Waxes: Solid or semisolid material derived from petroleum distillates or residues. Waxes are light-colored, more or less translucent crystalline masses, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Included are all marketable waxes, whether crude scale or fully refined. Waxes are used primarily as industrial coating for surface protection.

Wellhead Price: The value of crude oil or natural gas at the mouth of the well.

Wind Energy: Kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.

Wood and Wood-Derived Fuels: Wood and products derived from wood that are used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, paper pellets, railroad ties, utility poles, **black liquor**, red liquor, sludge wood, spent sulfite liquor, and other wood-based solids and liquids.

Working Gas: The volume of gas in a reservoir that is in addition to the base gas. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.