March 2013 Monthly Energy Review





Monthly Energy Review

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

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

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

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.

Released: March 27, 2013

Monthly Energy Review March 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 Schmitt	202-586-8644 robert.schmitt@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.			202-586-8013
Section	9.	Petroleum	Amy Sweeney Charlene Harris-Russel	202-586-8013 maureen.klein@eia.gov 202-586-2627 amy.sweeney@eia.gov
Section	9.	Petroleum	Amy Sweeney Charlene Harris-Russel charl	202-586-8013 maureen.klein@eia.gov 202-586-2627 amy.sweeney@eia.gov 1 202-586-2661
Section Section		Petroleum	Amy Sweeney Charlene Harris-Russel charl Rebecca Peterson Gwendolyn Bredehoeft	202-586-8013 maureen.klein@eia.gov 202-586-2627 amy.sweeney@eia.gov 1 202-586-2661 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	202-586-8013 maureen.klein@eia.gov 202-586-2627 amy.sweeney@eia.gov 1 202-586-2661 ene.harris-russell@eia.gov 202-586-4509 rebecca.peterson@eia.gov

Contents

			Page
Section	1.	Energy Overview.	1
Section	2.	Energy Consumption by Sector.	21
Section	3.	Petroleum	35
Section	4.	Natural Gas	67
Section	5.	Crude Oil and Natural Gas Resource Development	75
Section	6.	Coal	81
Section	7.	Electricity	91
Section	8.	Nuclear Energy	. 113
Section	9.	Energy Prices.	. 117
Section	10.	Renewable Energy	. 135
Section	11.	International Petroleum.	. 147
Section	12.	Environment	. 157
Appendix	A.	British Thermal Unit Conversion Factors	171
Appendix	B.	Metric Conversion Factors, Metric Prefixes, and Other	
		Physical Conversion Factors.	. 183
Glossary			. 187

Tables

			Page
Section	1.	Energy Overview	
1.1		Primary Energy Overview.	
1.2		Primary Energy Production by Source.	
1.3		Primary Energy Consumption by Source.	
1.4a		Primary Energy Imports by Source	
1.4b		Primary Energy Exports by Source and Total Net Imports.	
1.5		Merchandise Trade Value	
1.6		Cost of Fuels to End Users in Real (1982-1984) Dollars	15
1.7		Primary Energy Consumption per Real Dollar of Gross Domestic Product.	
1.8		Motor Vehicle Mileage, Fuel Consumption, and Fuel Economy	17
1.9		Heating Degree-Days by Census Division	18
1.10		Cooling Degree-Days by Census Division.	19
Section	2.	Energy Consumption by Sector	
2.1		Energy Consumption by Sector.	
2.2		Residential Sector Energy Consumption	25
2.3		Commercial Sector Energy Consumption.	
2.4		Industrial Sector Energy Consumption.	29
2.5		Transportation Sector Energy Consumption.	
2.6		Electric Power Sector Energy Consumption.	33
Section	3.	Petroleum	
3.1		Petroleum Overview	
3.2		Refinery and Blender Net Inputs and Net Production.	39
3.3		Petroleum Trade	
		3.3a Overview.	
		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	51
3.7		Petroleum Consumption	
		3.7a Residential and Commercial Sectors	53
		3.7b Industrial Sector.	
		3.7c Transportation and Electric Power Sectors	55
3.8		Heat Content of Petroleum Consumption	
		3.8a Residential and Commercial Sectors	57
		3.8b Industrial Sector.	58
		3.8c Transportation and Electric Power Sectors.	
Section	4.	Natural Gas	
4.1		Natural Gas Overview	69
4.2		Natural Gas Trade by Country	70
4.3		Natural Gas Consumption by Sector.	71
4.4		Natural Gas in Underground Storage.	72
Section	5	Crude Oil and Natural Gas Resource Development	
5.1	J.	Crude Oil and Natural Gas Drilling Activity Measurements.	77
5.2		Crude Oil and Natural Gas Exploratory and Development Wells.	
J.4		Crude On and reduital Gas Exploratory and Development Wens	10

Tables

			Page
Section	6.	Coal	
6.1	••	Coal Overview.	. 83
6.2		Coal Consumption by Sector.	
6.3		Coal Stocks by Sector.	
Section	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	
		7.3a Total (All Sectors)	. 99
		7.3b Electric Power Sector.	100
		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)	103
		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.	
7.6		Electricity End Use.	109
Section	8.	Nuclear Energy	
8.1		Nuclear Energy Overview.	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.	
9.9		Cost of Fossil-Fuel Receipts at Electric Generating Plants.	
9.10		Natural Gas Prices.	131
Section	10.	Renewable Energy	
10.1		Renewable Energy Production and Consumption by Source.	137
10.2		Renewable Energy Consumption	
		10.2a Residential and Commercial Sectors.	
		10.2c Electric Power Sector	140
10.3		Fuel Ethanol Overview.	
10.4		Biodiesel Overview.	142

Tables

			Page
Section	11	International Petroleum	
11.1	11.	World Crude Oil Production	
		11.1a OPEC Members.	150
		11.1b Persian Gulf Nations, Non-OPEC, and World.	
11.2		Petroleum Consumption in OECD Countries.	
11.3		Petroleum Stocks in OECD Countries.	
Section	12.	Environment	
12.1		Carbon Dioxide Emissions From Energy Consumption by Source	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
Append	ix A.	British Thermal Unit Conversion Factors	
A1.		Approximate Heat Content of Petroleum Products	171
A2.		Approximate Heat Content of Petroleum Production, Imports, and Exports	
A3.		Approximate Heat Content of Petroleum Consumption and Biofuels Production	
A4.		Approximate Heat Content of Natural Gas.	
A5.		Approximate Heat Content of Coal and Coal Coke.	175
A6.		Approximate Heat Rates for Electricity, and Heat Content of Electricity.	176
Append	ix B.	Metric Conversion Factors, Metric Prefixes, and Other Physical Conversion Factors	
B1.		Metric Conversion Factors.	184
B2.		Metric Prefixes.	
B3.		Other Physical Conversion Factors.	

Figures

		Page
Section	1.	Energy Overview
1.1		Primary Energy Overview. 2
1.2		Primary Energy Production. 4
1.3		Primary Energy Consumption. 6
1.4a		Primary Energy Imports and Exports
1.4b		Primary Energy Net Imports. 9
1.5		Merchandise Trade Value
1.6		Cost of Fuels to End Users in Real (1982-1984) Dollars.
1.7		Primary Energy Consumption per Real Dollar of Gross Domestic Product
1.8		Motor Vehicle Fuel Economy. 17
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	3.	Petroleum
3.1		Petroleum Overview
3.2		Refinery and Blender Net Inputs and Net Production
3.3		Petroleum Trade
		3.3a Overview
		3.3b Imports
3.4		Petroleum Stocks
3.5		Petroleum Products Supplied by Type
3.6		Heat Content of Petroleum Products Supplied by Type
3.7		Petroleum Consumption by Sector. 52
3.8		Heat Content of Petroleum Consumption by Sector, Selected Products
Section	4.	Natural Gas
4.1		Natural Gas. 68
	5.	Crude Oil and Natural Gas Resource Development
5.1		Crude Oil and Natural Gas Resource Development Indicators
Section	6.	Coal
6.1		Coal
G	_	
Section	7.	Electricity
7.1		Electricity Overview. 92
7.2		Electricity Net Generation
7.3		Consumption of Selected Combustible Fuels for Electricity Generation
7.4		Consumption of Selected Combustible Fuels for Electricity Generation and
		Useful Thermal Output. 102
7.5		Stocks of Coal and Petroleum: Electric Power Sector
7.6		Electricity End Use. 108
Section	Q	Nuclear Energy
8.1	0.	Nuclear Energy Overview
0.1		Theorem Energy Overview

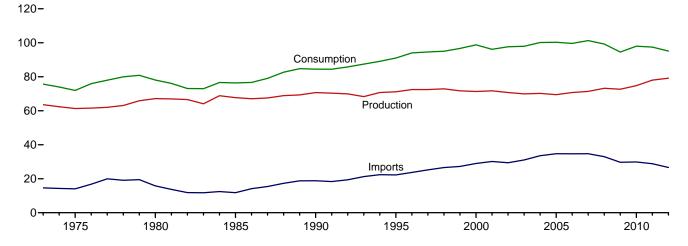
Figures

			Page
Section	9.	Energy Prices	o .
9.1		Petroleum Prices	
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	158
12.2		Carbon Dioxide Emissions From Energy Consumption by Sector	160

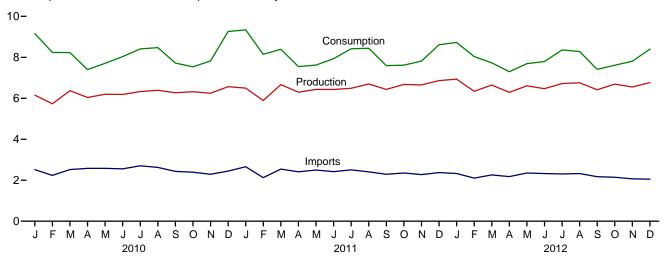
1. Energy Overview

Figure 1.1 Primary Energy Overview (Quadrillion Btu)

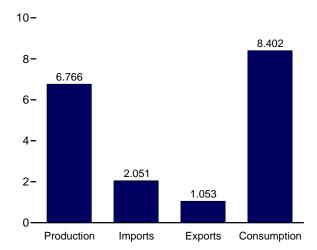
Consumption, Production, and Imports, 1973-2012



Consumption, Production, and Imports, Monthly



Overview, December 2012



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

Net Imports, January-December

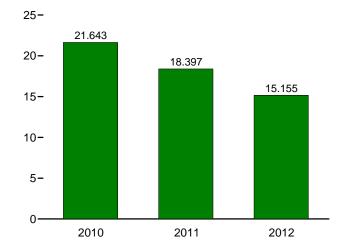


Table 1.1 Primary Energy Overview

(Quadrillion Btu)

	Production					Trade				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				
1973 Total	58.241 54.733	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 1985 Total	59.008 57.539	2.739 4.076	5.428 6.084	67.175 67.698	15.796 11.781	3.695 4.196	12.101 7.584	-1.210 1.110	69.828 66.093	2.739 4.076	5.428 6.084	78.067 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 1996 Total	57.540 58.387	7.075 7.087	6.558 7.012	71.174 72.486	22.260 23.702	4.511 4.633	17.750 19.069	2.105 2.468	77.259 79.785	7.075 7.087	6.560 7.014	91.029 94.022	
1997 Total	58.857	6.597	7.012	72.472	25.702	4.514	20.701	1.429	80.873	6.597	7.014	94.602	
1998 Total	59.314	7.068	6.494	72.876	26.581	4.299	22.281	140	81.369	7.068	6.493	95.018	
1999 Total 2000 Total	57.614 57.366	7.610 7.862	6.517 6.104	71.742 71.332	27.252 28.973	3.715 4.006	23.537 24.967	1.372 2.515	82.427 84.731	7.610 7.862	6.516 6.106	96.652 98.814	
2001 Total	58.541	8.029	5.164	71.735	30.157	3.771	26.386	-1.953	82.902	8.029	5.163	96.168	
2002 Total	56.834	8.145	5.734	70.713	29.408	3.669	25.739	1.193	83.699	8.145	5.729	97.645	
2003 Total 2004 Total	56.022 55.930	7.959 8.222	5.947 6.069	69.927 70.220	31.061 33.544	4.054 4.434	27.007 29.110	1.009 .830	84.014 85.819	7.959 8.222	5.948 6.081	97.943 100.160	
2005 Total	55.053	8.161	6.229	69.443	34.709	4.560	30.149	.689	85.794	8.161	6.242	100.100	
2006 Total	55.940	8.215	6.599	70.754	34.679	4.872	29.806	930	84.702	8.215	6.649	99.629	
2007 Total 2008 Total	56.435 57.588	8.455 8.427	6.509 7.202	71.400 73.217	34.703 32.992	5.482 7.060	29.221 25.932	.675 .125	86.211 83.549	8.455 8.427	6.523 7.186	101.296 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	4.721	.758	.672	6.151	2.516	.590	1.926	1.082	7.725	.758	.662	9.160	
February	4.437	.682	.610	5.730	2.237	.556	1.681	.827	6.940	.682	.605	8.238	
March April	5.013 4.777	.676 .602	.682 .661	6.371 6.040	2.519 2.580	.654 .686	1.865 1.894	005 536	6.872 6.129	.676 .602	.673 .657	8.231 7.397	
May	4.783	.697	.717	6.196	2.578	.704	1.874	367	6.288	.697	.715	7.704	
June	4.721	.714	.753	6.188	2.556	.684	1.872	026	6.556	.714	.755	8.034	
July August	4.876 4.982	.752 .748	.701 .662	6.329 6.391	2.705 2.627	.716 .698	1.989 1.929	.090 .150	6.946 7.056	.752 .748	.701 .660	8.409 8.470	
September	4.917	.725	.626	6.268	2.431	.675	1.757	305	6.370	.725	.622	7.719	
October	5.018 4.907	.656 .655	.646 .682	6.320 6.244	2.390 2.289	.714 .760	1.676 1.529	461 .051	6.234 6.491	.656 .655	.643 .676	7.535 7.825	
November December	5.071	.770	.726	6.566	2.269	.797	1.650	1.044	7.761	.770	.720	9.260	
Total	58.224	8.434	8.136	74.795	29.877	8.234	21.643	1.544	81.369	8.434	8.090	97.982	
2011 January	R 4.986	.761	.747	R 6.494	2.656	.841	1.815	R 1.027	7.835	.761	.731	9.337	
February March	^R 4.502 ^R 5.166	.678 .687	.710 .816	^R 5.890 ^R 6.669	2.126 2.545	.759 .880	1.367 1.664	R .886 R .060	6.754 6.892	.678 .687	.703 .805	8.143 8.393	
April	R 4.913	.571	.813	R 6.297	2.411	.878	1.533	R284	6.164	.571	.804	7.546	
May	^R 5.004 ^R 4.921	.597	.832 .824	^R 6.432 ^R 6.428	2.497	.847	1.651	R463 R094	6.185	.597	.826	7.620	
June July	R 4.941	.683 .757	.824 .792	R 6.490	2.418 2.505	.818 .854	1.600 1.652	276	6.416 6.861	.683 .757	.824 .782	7.934 8.417	
August	R 5.210	.746	.742	R 6.698	2.406	.879	1.527	R .214	6.935	.746	.741	8.439	
September October	^R 5.055 ^R 5.305	.700 .663	.677 .708	^R 6.432 ^R 6.676	2.292 2.352	.892 .891	1.400 1.461	R238 R520	6.214 6.246	.700 .663	.670 .699	7.594 7.617	
November	R 5.239	.675	.738	6.651	2.332	.894	1.380	215	6.406	.675	.727	7.816	
December	R 5.341 R 60.583	.752 8.269	.770 9.168	R 6.863 R 78.020	2.372 28.855	1.026 10.458	1.347 18.397	R .403 R 1.051	7.089 79.999	.752 8.269	.760 9.072	8.612 97.467	
Total													
2012 January February	^R 5.388 ^R 4.971	.757 .668	.785 .701	^R 6.931 ^R 6.340	R 2.328 R 2.102	R .863 R .837	^R 1.465 ^R 1.265	R .327 R .430	R 7.193 6.667	.757 .668	.763 .690	^R 8.724 8.035	
March	R 5.205	.646	.795	^R 6.645	R 2.258	R .963	^R 1.295	R210	6.287	.646	.786	7.729	
April	^R 4.934 ^R 5.143	.585 .650	.770 .816	^R 6.289 ^R 6.609	R 2.176 R 2.353	R .999 R 1.010	^R 1.177 ^R 1.343	R170 R262	5.932 6.209	.585 .650	.767 .816	7.296 R 7.690	
May June	R 5.007	.682	.780	^R 6.469	R 2.324	R .998	R 1.326	R002	6.209	.682	.779	7.792	
July	^R 5.245	.723	.751	R 6.720	R 2.305	R.981	R 1.324	R .316	6.865	.723	.753	8.360	
August	^R 5.315 ^R 5.094	.728 .675	.713 .645	^R 6.756 ^R 6.415	R 2.324 R 2.172	^R .941 ^R .914	^R 1.383 ^R 1.258	^R .141 ^R 261	6.815 R 6.079	.728 .675	.719 .644	^R 8.281 ^R 7.411	
September October	R 5.390	.625	.645 .676	R 6.691	R 2.146	R .954	^R 1.191	R269	R 6.295	.675 .625	.644 .681	R 7.614	
November	R 5.270	.593	.687	R 6.551	R 2.070	R .939	R 1.130	R .127	R 6.514	.593	.687	R 7.808	
December	5.277 62.239	.718 8.050	.771 8.893	6.766 79.182	2.051 26.608	1.053 11.452	.998 15.155	.637 .804	6.905 78.080	.718 8.050	.767 8.851	8.402 95.142	
Total	02.239	0.000	0.893	79.182	20.008	11.452	15.155	.804	10.080	0.000	0.831	95.142	

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

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

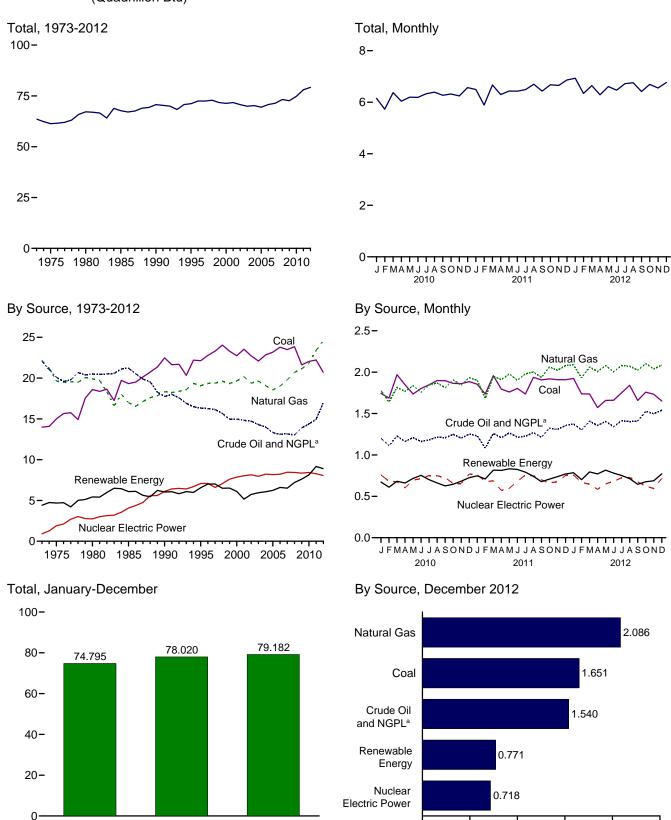
Sources: • Production: Table 1.2. • Trade: Tables 1.4a and 1.4b. • Stock Change and Other: Calculated as consumption minus production and net imports. • Consumption: Table 1.3.

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

fuel ethanol stock change; and biodiesel stock change and balancing item.

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

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.

2011

2010

0.0

0.5

1.0

1.5

2.0

2.5

2012

Table 1.2 Primary Energy Production by Source

(Quadrillion Btu)

	adrillori	Diaj											
		F	ossil Fuels					ı	Renewabl	e Energy	a		
	Coal ^b	Natural Gas (Dry)	Crude Oil ^C	NGPLd	Total	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total
1973 Total 1975 Total 1980 Total 1980 Total 1985 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2006 Total 2007 Total 2008 Total 2008 Total 2008 Total	13.992 14.989 18.598 19.325 22.488 22.130 23.310 24.045 23.295 22.735 23.547 22.732 22.094 22.852 23.185 23.790 23.493 23.851 21.624	22.187 19.640 19.908 16.980 18.326 19.082 19.344 19.613 19.341 19.662 20.166 19.382 19.633 19.074 18.556 19.022 19.786 20.703 21.139	19.493 17.729 18.249 18.992 15.571 13.887 13.723 13.658 13.235 12.451 12.358 12.282 12.160 11.948 11.538 10.978 10.772 10.7748 10.615 11.332	2.569 2.374 2.254 2.241 2.175 2.442 2.530 2.495 2.420 2.528 2.611 2.559 2.346 2.466 2.334 2.356 2.419 2.419	58.241 54.733 59.008 57.539 58.560 57.540 58.857 58.857 59.314 57.366 58.541 56.022 55.930 55.053 55.940 56.435 56.435 56.669	0.910 1.900 2.739 4.076 6.104 7.075 7.087 6.597 7.610 7.862 8.029 8.145 7.959 8.215 8.455 8.427 8.356	2.861 3.155 2.900 2.970 3.046 3.205 3.590 3.640 3.297 3.268 2.811 2.242 2.689 2.793 2.688 2.703 2.869 2.446 2.511 2.669	0.020 .034 .053 .097 .171 .152 .163 .167 .168 .171 .164 .171 .173 .181 .181 .181 .182 .200	NA NA (s) .059 .069 .070 .068 .066 .064 .063 .062 .063 .068 .076 .089	NA NA (s) .029 .033 .034 .031 .046 .057 .070 .105 .113 .142 .178 .264 .341 .546	1.529 1.499 2.475 3.016 2.735 3.093 3.155 3.108 2.925 3.006 2.624 2.705 2.805 2.998 3.104 3.216 3.461 3.864 3.928	4.411 4.687 5.428 6.084 6.041 6.558 7.012 7.018 6.517 6.104 5.1734 5.947 6.069 6.229 6.599 7.202 7.616	63.563 61.320 67.175 67.698 70.705 71.174 72.486 72.472 71.332 71.735 70.713 69.927 70.220 69.443 70.754 71.400 73.217
Pebruary February March April May June July August September October November December Total	1.743 1.687 1.969 1.848 1.736 1.802 1.847 1.898 1.897 1.864 1.860 1.886 22.038	1.777 1.640 1.817 1.767 1.838 1.756 1.847 1.869 1.813 1.906 1.844 1.933 21.806	.971 .901 .991 .936 .971 .937 .955 .979 .976 1.006 .967	.230 .210 .236 .227 .238 .226 .227 .236 .232 .242 .242 .235 .242	4.721 4.437 5.013 4.777 4.783 4.721 4.876 4.982 4.917 5.018 4.907 5.071 58.224	.758 .682 .676 .602 .697 .714 .752 .748 .725 .656 .655 .770	.218 .201 .204 .186 .245 .291 .239 .196 .168 .173 .191 .226 2.539	.018 .016 .018 .017 .018 .017 .018 .017 .017 .017 .018 .208	.010 .009 .010 .010 .011 .011 .011 .011	.067 .053 .084 .095 .085 .079 .066 .065 .069 .077 .095 .088	.359 .332 .366 .351 .358 .355 .367 .371 .360 .369 .383 4.341	.672 .610 .682 .661 .717 .753 .701 .662 .626 .646 .682 .726 8.136	6.151 5.730 6.371 6.040 6.196 6.188 6.329 6.391 6.268 6.320 6.244 6.566 74.795
Pebruary February March April May June July August September October November December Total	1.854 1.736 1.958 1.795 1.760 1.804 1.736 1.937 1.907 1.909 1.908 22.221	1.901 1.684 1.950 1.909 1.977 1.903 1.979 2.003 1.935 2.063 2.022 2.079 23.406	R.990 R.877 R1.008 R.967 R1.012 R.973 R1.017 R.975 R1.060 R1.047 R1.086 R1.085	.241 .207 .250 .241 .254 .251 .251 .254 .239 .263 .261 .268 2.970	R 4.986 R 4.502 R 5.166 R 4.913 R 5.004 R 4.921 R 4.941 R 5.210 R 5.055 R 5.305 R 5.239 R 5.341 R 60.583	.761 .678 .687 .571 .597 .683 .757 .746 .700 .663 .675 .752	.248 .234 .303 .303 .317 .312 .304 .250 .208 .192 .201 .231 3.103	.018 .017 .018 .017 .018 .017 .018 .017 .018 .017 .018	.012 .013 .013 .013 .014 .014 .014 .013 .013 .013	.083 .102 .102 .121 .114 .107 .073 .073 .067 .102 .121 .104	.385 .346 .380 .359 .369 .375 .384 .387 .372 .382 .386 .405	.747 .710 .816 .813 .832 .824 .792 .742 .677 .708 .738 .770 9.168	R 6.494 R 5.890 R 6.669 R 6.297 R 6.432 R 6.428 R 6.490 R 6.698 R 6.432 R 6.676 6.651 R 6.863 R 78.020
2012 January February March April May June July August September October November December Total	1.925 1.738 1.736 1.572 1.659 1.660 1.751 1.841 1.658 1.759 1.734 1.651 20.684	RE 2.089 RE 1.931 RE 2.062 RE 2.007 RE 2.007 RE 2.007 RE 2.005 RE 2.005 RE 2.025 RE 2.105 RE 2.038 E 2.086 E 24.577	RE 1.104 RE 1.047 RE 1.036 RE 1.092 E 1.133 E 1.084 RE 1.148 RE 1.133 RE 1.140 RE 1.243 RE 1.240 E 1.243	R .271 R .255 R .271 R .263 R .271 R .258 R .265 R .270 R .272 R .284 R .278 .276	R 5.388 R 4.971 R 5.205 R 4.934 R 5.143 R 5.007 R 5.245 R 5.315 R 5.390 R 5.270 5.277 62.239	.757 .668 .646 .585 .650 .682 .723 .728 .675 .625 .593 .718	.227 .198 .250 .254 .277 .259 .260 .225 .171 .157 .183 .226 2.687	.019 .018 .019 .019 .019 .019 .019 .019 .019 .019	.015 .015 .017 .017 .019 .019 .019 .019 .018 .017 .017	.134 .108 .135 .124 .122 .116 .085 .081 .084 .122 .112 .138	.390 .362 .373 .356 .378 .368 .368 .370 .353 .353 .359 .371	.785 .701 .795 .770 .816 .780 .751 .713 .645 .676 .687 .771	R 6.931 R 6.340 R 6.645 R 6.289 R 6.609 R 6.720 R 6.720 R 6.756 R 6.415 R 6.691 R 6.551 6.766 79.182

 ^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.

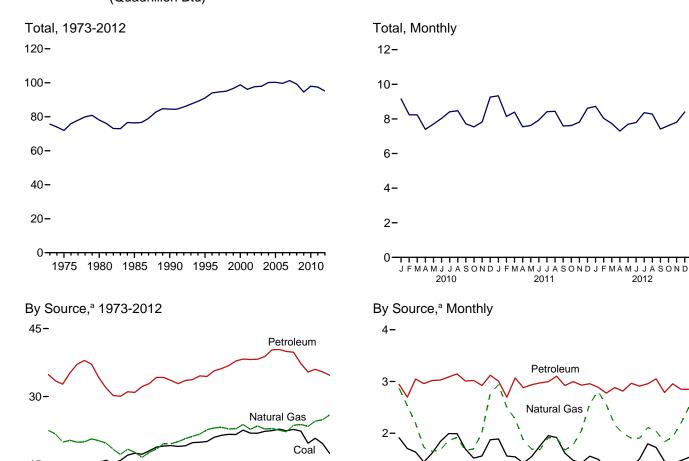
Notes: • See "Primary Energy Production" in Glossary. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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).

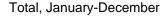
• Renewable Energy: Table 10.1.

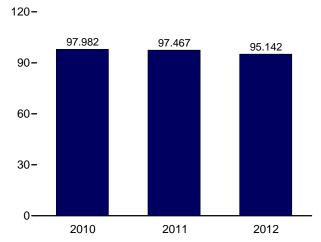
Figure 1.3 Primary Energy Consumption (Quadrillion Btu)



Nuclear Electric Power

Renewable Energy

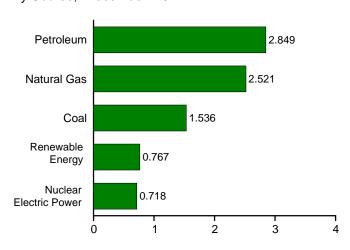




1975 1980 1985 1990 1995 2000 2005 2010

By Source,^a December 2012

2010



Renewable Energy

Nuclear Electric Power

J F M A M J J A S O N D J F M A M J J A S O N D J F M A M J J A S O N D

2011

Coal

2012

^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)

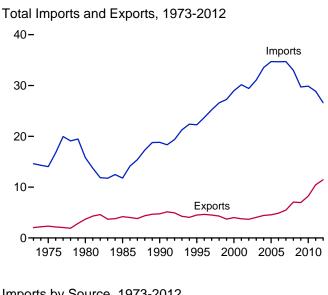
(Qu	auminom	Dia,										
		Fossil	Fuels					Renewable	e Energy ^a			
	Coal	Natural Gas ^b	Petro- leum ^c	Total ^d	Nuclear Electric Power	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total ^f
1973 Total	12.971	22.512	34.837	70.314	0.910	2.861	0.020	NA	NA	1.529	4.411	75.684
1975 Total	12.663	19.948	32.732	65.357	1.900	3.155	.034	NA	NA	1.499	4.687	71.965
1980 Total	15.423	20.235	34.205	69.828	2.739	2.900	.053	NA	NA	2.475	5.428	78.067
	17.478	17.703	30.925	66.093	4.076	2.970	.097	(s)	(s)	3.016	6.084	76.392
1990 Total	19.173	19.603	33.552	72.332	6.104	3.046	.171	.059	.029	2.735	6.041	84.485
1995 Total	20.089	22.671	34.438	77.259	7.075	3.205	.152	.069	.033	3.101	6.560	91.029
1996 Total	21.002	23.085	35.675	79.785	7.087	3.590	.163	.070	.033	3.157	7.014	94.022
1997 Total	21.445	23.223	36.159	80.873	6.597	3.640	.167	.070	.034	3.105	7.016	94.602
1998 Total	21.656	22.830	36.816	81.369	7.068	3.297	.168	.069	.031	2.927	6.493	95.018
1999 Total	21.623	22.909	37.838	82.427	7.610	3.268	.171	.068	.046	2.963	6.516	96.652
2000 Total	22.580	23.824	38.262	84.731	7.862	2.811	.164		.057	3.008	6.106	98.814
2001 Total	21.914	22.773	38.186	82.902	8.029	2.242	.164	.064	.070	2.622	5.163	96.168
2002 Total	21.904	23.510	38.224	83.699	8.145	2.689	.171		.105	2.701	5.729	97.645
2003 Total	22.321	22.831	38.811	84.014	7.959	2.793	.173	.062	.113	2.807	5.948	97.943
2004 Total	22.466	22.923	40.292	85.819	8.222	2.688	.178	.063	.142	3.010	6.081	100.160
2005 Total	22.797	22.565	40.388	85.794	8.161	2.703	.181	.063	.178	3.117	6.242	100.282
2006 Total	22.447	22.239	39.955	84.702	8.215	2.869	.181	.068	.264	3.267	6.649	99.629
2007 Total	22.749	23.663	39.774	86.211	8.455	2.446	.186	.076	.341	3.474	6.523	101.296
2008 Total	22.385	23.843	37.280	83.549	8.427	2.511	.192	.089	.546	3.849	7.186	99.275
2009 Total	19.692	23.416	35.403	78.488	8.356	2.669	.200	.098	.721	3.912	7.600	94.559
2010 January	1.913	2.869	2.947	7.725	.758	.218	.018	.010	.067	.349	.662	9.160
February	1.705	2.533	2.698	6.940	.682	.201	.016	.009	.053	.326	.605	8.238
March	1.635	2.187	3.048	6.872	.676	.204	.018	.010	.084	.357	.673	8.231
April May	1.443 1.617 1.844	1.725 1.649 1.682	2.960 3.020 3.029	6.129 6.288 6.556	.602 .697 .714	.186 .245 .291	.017 .018 .017	.010 .011 .011	.095 .085 .079	.348 .356 .357	.657 .715 .755	7.397 7.704 8.034
June July August	1.994 1.991	1.862 1.916	3.089 3.148	6.946 7.056	.752 .748	.239	.017 .017 .018	.011 .011 .011	.066	.368 .370	.701 .660	8.409 8.470
September October	1.693 1.519	1.670 1.697	3.008 3.020	6.370 6.234	.725 .656	.168 .173	.017 .017	.011 .010	.069	.357	.622 .643	7.719 7.535
November	1.560	2.013	2.923	6.491	.655	.191	.017	.010	.095	.363	.676	7.825
December	1.875	2.771	3.120	7.761	.770	.226	.018	.010	.088	.377	.720	9.260
Total	20.791	24.575	36.010	81.369	8.434	2.539	.208	.126	.923	4.294	8.090	97.982
2011 January	1.888	2.940	3.006	7.835	.761	.248	.018	.012	.083	.369	.731	9.337
February	1.560	2.497	2.696	6.754	.678	.234	.017	.012	.102	.339	.703	8.143
March	1.544	2.276	3.070	6.892	.687	.303	.018	.013	.102	.369	.805	8.393
April	1.421	1.863	2.879	6.164	.571	.303	.017	.013	.121	.349	.804	7.546
May	1.551	1.695	2.938	6.185	.597	.317	.018	.014	.114	.363	.826	7.620
June	1.758	1.684	2.973	6.416	.683	.312	.017	.014	.107	.374	.824	7.934
July	1.953	1.913	2.995	6.861	.757	.304	.018	.014	.073	.374	.782	8.417
August	1.917	1.914	3.101	6.935	.746	.250	.018	.014	.073	.386	.741	8.439
September	1.614	1.677	2.923	6.214	.700	.208	.017	.013	.067	.365	.670	7.594
October	1.475	1.773	2.998	6.246	.663	.192	.018	.013	.102	.373	.699	7.617
November	1.425	2.053	2.929	6.406	.675	.201	.018	.013	.121	.375	.727	7.816
December	1.556	2.574	2.957	7.089	.752	.231	.018	.013	.104	.395	.760	8.612
Total	19.663	24.860	35.465	79.999	8.269	3.103	.212	.158	1.168	4.432	9.072	97.467
2012 January	1.497	2.804	2.889	^R 7.193	.757	.227	.019	.015	.134	.367	.763	^R 8.724
February	1.340	2.550	R 2.777	6.667	.668	.198	.018	.015	.108	.351	.690	8.035
March	1.236	2.165	2.883	6.287	.646	.250	.019	.017	.135	.365	.786	7.729
April	1.117	1.994	2.815	5.932	.585	.254	.018	.017	.124	.353	.767	7.296
May June	1.337 1.504 1.796	1.908 1.903 2.112	2.964 2.911 2.957	6.209 6.318	.650 .682	.277 .259	.019 .019	.019 .019	.122	.378 .366	.816 .779	R 7.690 7.792
July August September	1.725 1.458	2.040 R 1.834	R 3.051 R 2.788	6.865 6.815 ^R 6.079	.723 .728 .675	.260 .225 .171	.019 .019 .019	.019 .019 .018	.085 .081 .084	.369 .375 .352	.753 .719 .644	8.360 R 8.281 R 7.411
October	R 1.415	1.928	2.955	R 6.295	.625	.157	.019	.019	.122	.364	.681	^R 7.614
November	R 1.472	2.196	2.849	R 6.514	.593	.183	.019	.017		.356	.687	^R 7.808
December	1.536	2.521	2.849	6.905	.718	.226	.020	.017	.138	.367	.767	8.402
Total	17.434	25.954	34.688	78.080	8.050	2.687	.227	.212	1.361	4.364	8.851	95.142

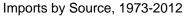
 ^a Most data are estimates. See Tables 10.1–10.2c for notes on series components and estimation; and see Note, "Renewable Energy Production and Consumption," at end of Section 10.
 ^b Natural gas only; excludes supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 ^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.

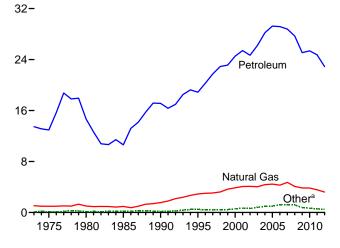
Conventional hydroelectric power.
 Includes coal coke net imports and electricity net imports, which are not

separately displayed. See Tables 1.4a and 1.4b.
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.
Notes:
See "Primary Energy Consumption" in Glossary.
Totals may not equal sum of components due to independent rounding.
Geographic coverage is the 50 States and the District of Columbia.
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1973.
Sources:
Coal: Tables 6.1 and A5.
Natural Gas: Tables 4.1 and A4.
Petroleum: Table 3.6.
Nuclear Electric Power: Tables 7.2a and A6 ("Nuclear Plants" heat rate).
Renewable Energy: Table 10.1.
Net Imports of Coal Coke and Electricity: Tables 1.4a and 1.4b.

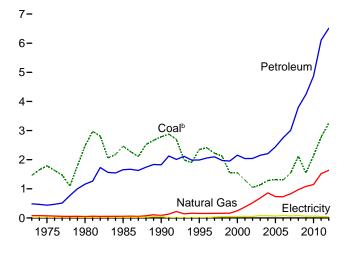
Figure 1.4a Primary Energy Imports and Exports
(Quadrillion Btu)







Exports by Source, 1973-2012



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







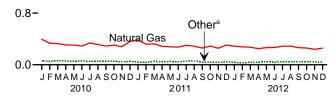


Imports by Source, Monthly

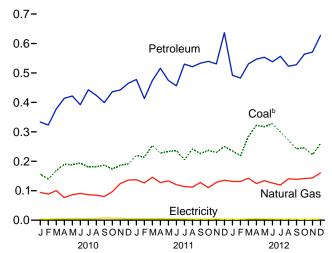
3.2-

4-





Exports by Major Source, Monthly

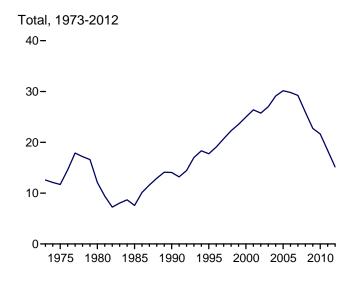


Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Sources: Tables 1.4a and 1.4b.

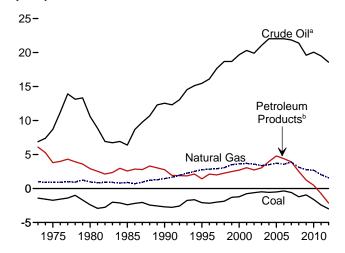
^b Includes coal coke.

Figure 1.4b Primary Energy Net Imports

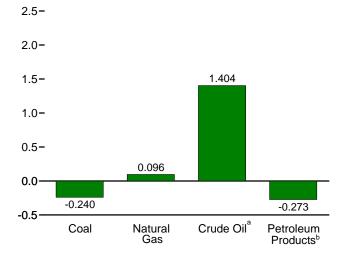
(Quadrillion Btu, Except as noted)







By Major Source, December 2012



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



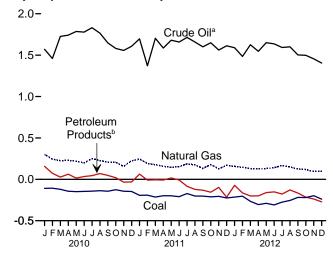
3.0-

2.5-

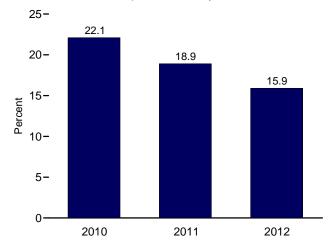


0.0 JFMAMJJASONDJFMAMJJASONDJFMAMJJASOND
2010 2011 2012

By Major Source, Monthly



As Share of Consumption, January-December



blending components. Does not include biofuels.

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

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

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

Table 1.4a Primary Energy Imports by Source

(Quadrillion Btu)

1973 Total						Imports				
Coal						Petroleum				
1975 Total		Coal					Total	Biofuels ^c	Electricity	Total
1980 Total	1973 Total				6.887					14.613
1985 Total 0.49	1975 Total									14.032
1995 Total										15.796
1995 Total										11.781 18.817
1996 Total 2003 063 3.002 16.341 3.943 20.284 0.001 .148 23. 1997 Total .187 .078 3.063 17.876 3.864 21.740 (s) .147 25. 1998 Total .218 .095 3.225 18.916 3.992 22.098 (s) .135 26. 1999 Total .227 .080 3.664 18.935 4.198 23.133 (s) .147 27. 2000 Total .313 .094 3.869 19.783 4.749 24.531 (s) .166 28. 2001 Total .422 .080 4.104 19.920 4.754 24.574 .002 .125 29. 2002 .125 .002 .131 30. .002 .125 .002 .125 .002 .101 .101 .102 .1										22.260
1997 Total 1.87										23.702
1999 Total		.187			17.876			(s)		25.215
2000 Total 313 .094 3.869 19.783 4.749 24.531 (s) 1.66 28.										26.581
2001 Total										27.252
2003 Total	2000 Total									28.973
2003 Total 6.86										30.157 29.408
2004 Total	2002 Total									31.061
2005 Total .762 .088	2004 Total									33.544
2006 .906 .101 .4.291 .22.085 .7.084 .29.169 .066 .146 .34 .2007 Total .909 .061 .4.723 .21.914 .6.86 .28.7811 .054 .175 .34 .2008 Total .8.55 .089 .4.084 .21.448 .6.237 .27.685 .084 .195 .32 .2009 Total .8.55 .089 .4.084 .21.448 .6.237 .27.685 .084 .195 .32 .2009 Total .8.56 .009 .3.845 .19.699 .5.38 .25.082 .026 .178 .29 .2010 January .0.042 .001 .394 .1.577 .483 .2.060 .001 .018 .2.										34.709
2008 Total										34.679
2009 Total .566 .009 3.845 19.699 5.383 25.082 .026 .178 29.										34.703
2010 January										32.992
February	2009 Total	.000	.009	3.845	19.699	5.383	25.082	.026	.178	29.706
March		.042	.001		1.577		2.060	.001	.018	2.516
April 0.45 0.01 3.06 1.747 4.66 2.214 (s) 0.013 2 May 0.037 0.05 3.05 1.793 4.28 2.221 0.01 0.10 0.10 2 June 0.044 0.05 2.89 1.784 4.19 2.203 (s) 0.014 2.2 July 0.035 0.03 3.37 1.844 4.72 2.316 (s) 0.015 2.2 August 0.43 0.03 3.37 1.844 4.72 2.316 (s) 0.015 2.2 September 0.40 0.02 2.89 1.658 4.32 2.090 (s) 0.010 2.2 September 0.40 0.002 2.89 1.658 4.32 2.090 (s) 0.010 2.2 November 0.037 (s) 2.80 1.563 4.40 1.963 (s) 0.09 2.2 November 0.037 (s) 2.80 1.563 4.40 1.963 (s) 0.09 2.2 Total 4.84 0.30 3.834 20.140 5.231 25.371 0.04 1.54 29. 2011 January 0.25 0.01 3.81 1.710 5.23 2.233 (s) 0.015 2.2 Total 0.02 3.319 1.377 3.94 1.771 (s) 0.013 2.2 April 0.028 0.01 2.285 1.593 4.90 2.084 (s) 0.013 2.2 April 0.28 0.01 2.285 1.593 4.90 2.084 (s) 0.013 2.2 April 0.28 0.01 2.285 1.593 4.90 2.084 (s) 0.013 2.2 June 0.24 0.04 2.73 1.665 4.36 2.101 0.001 0.015 2.2 June 0.24 0.04 2.73 1.665 4.36 2.101 0.001 0.015 2.2 June 0.24 0.04 2.73 1.665 4.36 2.101 0.001 0.015 2.2 July 0.030 0.03 3.01 1.728 4.22 2.150 0.01 0.01 0.01 0.02 2.2 July 0.030 0.03 3.01 1.728 4.22 2.150 0.01 0.01 0.01 0.02 2.2 July 0.030 0.03 3.01 1.728 4.22 2.150 0.01 0.02 0.01 0.02 2.2 November 0.021 0.002 2.289 1.659 3.64 2.003 0.02 0.01 2.2 September 0.021 0.002 2.289 1.659 3.64 2.003 0.003 0.01 2.28 5.150 0.01 0.021 2.2 August 0.039 0.05 2.287 1.664 3.389 2.053 0.002 0.019 2.2 September 0.021 0.03 2.288 1.607 3.86 1.993 0.03 0.01 0.02 2.2 November 0.020 0.02 2.55 1.572 4.09 1.981 0.03 0.01 0.01 0.02 2.2 November 0.020 0.002 2.255 1.572 4.09 1.981 0.003 0.01 0.01 0.02 2.2 November 0.020 0.002 2.255 1.572 4.09 1.981 0.003 0.01 0.01 0.02 2.2 November 0.020 0.002 2.255 1.572 4.09 1.981 0.003 0.01 0.01 0.02 2.2 November 0.020 0.002 2.255 1.572 4.09 1.981 0.003 0.01 0.01 0.02 2.2 November 0.020 0.002 2.255 1.572 4.09 1.981 0.003 0.01 0.01 0.02 0.02 0.02 2.255 1.572 4.09 1.981 0.003 0.01 0.02 0.03 0.04 0.02 0.02 0.02 0.03 0.03 0.03 0.03 0.03										2.237
May										2.519
June	Aprii									2.580 2.578
July										2.556
August .043 .003 .313 1.772 .484 2.256 (s) .012 2 2 September .040 .002 .289 1.658 .432 2.090 (s) .010 2 2 2 .0ctober .044 .001 .302 1.585 .448 2.034 (s) .009 2 .008 November .037 (s) .280 1.563 .400 1.963 (s) .009 2 .001 .009 2 .001 .009 2 .001 .009 2 .001 .009 2 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .001 .002 .001 .002 .001 .002 .001 .002 .001 .002 .001 .002 .001 .002 .001 .002 .001 .002 .001 .002 .001 .002 .001 .002 .001 .002 .001										2.705
September .040 .002 .289 1.658 .432 2.090 (s) .010 2 October .044 .001 .302 1.585 .448 2.034 (s) .009 2 November .037 (s) .280 1.563 .400 1.963 (s) .009 2 December .039 (s) .361 1.614 .420 2.034 (s) .013 2 Total .484 .030 3.834 20.140 5.231 25.371 .004 .154 29 2011 January .025 .001 .381 1.710 .523 2.233 (s) .015 2 March .038 .004 .323 1.710 .455 2.166 (s) .013 2 April .028 .001 .285 1.593 .490 2.084 (s) .013 2 April .028 .001 .285 1.593 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>2.627</td>										2.627
November .037 (s) .280 .1.563 .400 .1.963 (s) .009 .2.		.040		.289		.432	2.090	(s)	.010	2.431
December .039 .65 .361 1.614 .420 2.034 .65 .013 2										2.390
Total .484 .030 3.834 20.140 5.231 25.371 .004 .154 29. 2011 January .025 .001 .381 1.710 .523 2.233 (s) .015 2 February .021 .002 .319 1.377 .394 1.771 (s) .013 2 March .038 .004 .323 1.710 .455 2.166 (s) .014 2 April .028 .001 .285 1.593 .490 2.084 (s) .013 2 May .033 .004 .278 1.687 .479 2.166 (s) .017 2 June .024 .004 .273 1.665 .436 2.101 .001 .015 2 July .030 .003 .301 1.728 .422 2.150 .001 .021 .2 August .039 .005 .287 1.664										2.289
2011 January										2.447 29.877
February .021 .002 .319 1.377 .394 1.771 (s) .013 2 March .038 .004 .323 1.710 .455 2.166 (s) .014 2 April .028 .001 .285 1.593 .490 2.084 (s) .013 2 May .033 .004 .278 1.687 .479 2.166 (s) .017 2 June .024 .004 .273 1.665 .436 2.101 .001 .015 2 July .030 .003 .301 1.728 .422 2.150 .001 .021 .024 August .039 .005 .287 1.664 .389 2.053 .002 .019 2 September .021 .003 .258 1.607 .386 1.993 .003 .014 2 October .023 .002 .289 1.659										
March .038 .004 .323 1.710 .455 2.166 (s) .014 2.2 April .028 .001 .285 1.593 .490 2.084 (s) .013 2.2 May .033 .004 .278 1.687 .479 2.166 (s) .017 2.2 June .024 .004 .273 1.665 .436 2.101 .001 .015 2.2 July .030 .003 .301 1.728 .422 2.150 .001 .021 .2 August .039 .005 .287 1.664 .389 2.053 .002 .019 .2 September .021 .003 .258 1.607 .386 1.993 .003 .014 .2 October .023 .002 .289 1.659 .364 2.023 .002 .013 .2 November .020 .003 .255 1.572 .40										2.656 2.126
April .028 .001 .285 1.593 .490 2.084 (s) .013 2 May .033 .004 .278 1.687 .479 2.166 (s) .017 2 June .024 .004 .273 1.665 .436 2.101 .001 .015 2 July .030 .003 .301 1.728 .422 2.150 .001 .021 2 August .039 .005 .287 1.664 .389 2.053 .002 .019 2 September .021 .003 .258 1.607 .386 1.993 .003 .014 2 October .023 .002 .289 1.659 .364 2.023 .002 .013 2 November .020 .002 .255 1.572 .409 1.981 .003 .012 2 Total .327 .035 3.555 19.595										2.126
May .033 .004 .278 1.687 .479 2.166 (s) .017 2. June .024 .004 .273 1.665 .436 2.101 .001 .015 2. July .030 .003 .301 1.728 .422 2.150 .001 .021 .22 August .039 .005 .287 1.664 .389 2.053 .002 .019 2. September .021 .003 .258 1.607 .386 1.993 .003 .014 2. October .023 .002 .289 1.659 .364 2.023 .002 .013 2. November .020 .002 .285 1.572 .409 1.981 .003 .012 2. December .024 .004 .305 1.622 .397 2.019 .005 .015 2. Total .327 .035 3.555 19.5										2.411
June .024 .004 .273 1.665 .436 2.101 .001 .015 2. July .030 .003 .301 1.728 .422 2.150 .001 .021 .2 August .039 .005 .287 1.664 .389 2.053 .002 .019 .2 September .021 .003 .258 1.607 .386 1.993 .003 .014 .2 October .023 .002 .289 1.659 .364 2.023 .002 .013 .2 November .020 .002 .255 1.572 .409 1.981 .003 .012 .2 December .024 .004 .305 1.622 .397 2.019 .005 .015 .2 Total .327 .035 3.555 19.595 5.145 24.740 .019 .178 28 2012 January .020 .003 .288										2.497
August .039 .005 .287 1.664 .389 2.053 .002 .019 2 September .021 .003 .258 1.607 .386 1.993 .003 .014 2 October .023 .002 .289 1.659 .364 2.023 .002 .013 2 November .020 .002 .255 1.572 .409 1.981 .003 .012 2 December .024 .004 .305 1.622 .397 2.019 .005 .015 2 Total .327 .035 3.555 19.595 5.145 24.740 .019 .178 28 2012 January .020 .003 .288 R 1.600 R .403 R 2.003 (s) .014 R 2. February .013 .002 .277 R 1.494 R 3.03 R 1.797 (s) .012 R 2. March .017 .004										2.418
September .021 .003 .258 1.607 .386 1.993 .003 .014 2.000 October .023 .002 .289 1.659 .364 2.023 .002 .013 2.013 .02 .013 2.019 .003 .012 .02 .003 .012 2.02 .003 .012 .02 .003 .012 .02 .005 .015 .02 .019 .005 .015 .02 .015 .015 .02 .001 .018 .019 .019 .017 .018 .02 .003 .288 R 1.600 R .403 R 2.003 (s) .014 R 2. R 2. .019 .019 .017 .014 R 2. .012 .012 .012 R 2. .012 R 2. .019 .019 .017 .014 R 2. .012 .012 .012 .012 .012 .012										2.505
October .023 .002 .289 1.659 .364 2.023 .002 .013 2 November .020 .002 .255 1.572 .409 1.981 .003 .012 2 December .024 .004 .305 1.622 .397 2.019 .005 .015 2 Total .327 .035 3.555 19.595 5.145 24.740 .019 .178 28 2012 January .020 .003 .288 R 1.600 R .403 R 2.003 (s) .014 R 2.8 February .013 .002 .277 R 1.494 R .303 R 1.797 (s) .012 R 2. March .017 .004 .272 R 1.636 R .312 R 1.948 .002 .014 R 2. April .016 .007 .249 R 1.552 R 335 R 1.887 .001 .017 R 2. May .025 .004										2.406
November .020 .002 .255 1.572 .409 1.981 .003 .012 2 December .024 .004 .305 1.622 .397 2.019 .005 .015 2 Total .327 .035 3.555 19.595 5.145 24.740 .019 .178 28 2012 January .020 .003 .288 R 1.600 R .403 R 2.003 (s) .014 R 2 February .013 .002 .277 R 1.494 R .303 R 1.797 (s) .012 R 2 March .017 .004 .272 R 1.636 R .312 R 1.948 .002 .014 R 2 April .016 .007 .249 R 1.552 R .335 R 1.887 .001 .017 R 2 May .025 .004 .265 R 1.663 R 3.376 R 2.039 .002 .019 R 2 June .018 .001										2.292 2.352
December .024 .004 .305 1.622 .397 2.019 .005 .015 2. Total .327 .035 3.555 19.595 5.145 24.740 .019 .178 28. 2012 January .020 .003 .288 R 1.600 R .403 R 2.003 (s) .014 R 2. February .013 .002 .277 R 1.494 R 303 R 1.797 (s) .012 R 2. March .017 .004 .272 R 1.636 R .312 R 1.948 .002 .014 R 2. April .016 .007 .249 R 1.552 R 335 R 1.887 .001 .017 R 2. May .025 .004 .265 R 1.663 R 376 R 2.039 .002 .019 R 2. June .018 .001 .266 R 1.644 R 373 R 2.017 .003 .018 R 2. June .018 .0	November									2.352 2.274
Total .327 .035 3.555 19.595 5.145 24.740 .019 .178 28. 2012 January .020 .003 .288 R 1.600 R 403 R 2.003 (s) .014 R 2. February .013 .002 .277 R 1.494 R .303 R 1.797 (s) .012 R 2. March .017 .004 .272 R 1.636 R .312 R 1.948 .002 .014 R 2. April .016 .007 .249 R 1.552 R 335 R 1.887 .001 .017 R 2. May .025 .004 .265 R 1.663 R .376 R 2.039 .002 .019 R 2. June .018 .001 .266 R 1.644 R .373 R 2.017 .003 .018 R 2. July .022 .001 .286 R 1.606 R 3.80 R 1.966 .004 .023 R 2.										2.372
February .013 .002 .277 R 1.494 R .303 R 1.797 (s) .012 R 2. March .017 .004 .272 R 1.636 R .312 R 1.948 .002 .014 R 2. April .016 .007 .249 R 1.552 R .335 R 1.887 .001 .017 R 2. May .025 .004 .265 R 1.663 R .376 R 2.039 .002 .019 R 2. June .018 .001 .266 R 1.644 R .373 R 2.017 .003 .018 R 2. July .022 .001 .288 R 1.606 R 3.60 R 1.966 .004 .023 R 2.										28.855
February .013 .002 .277 R1.494 R.303 R1.797 (s) .012 R2 March .017 .004 .272 R1.636 R.312 R1.948 .002 .014 R2 April .016 .007 .249 R1.552 R.335 R1.887 .001 .017 R2 May .025 .004 .265 R1.663 R.376 R2.039 .002 .019 R2 June .018 .001 .266 R1.644 R.373 R2.017 .003 .018 R2 July .022 .001 .288 R1.606 R3.30 R1.966 .004 .023 R2	2012 January	020	003	288	R 1 600	R 403	R 2 003	(c)	014	R 2.328
March .017 .004 .272 R 1.636 R .312 R 1.948 .002 .014 R 2. April .016 .007 .249 R 1.552 R .335 R 1.887 .001 .017 R 2. May .025 .004 .265 R 1.663 R .376 R 2.039 .002 .019 R 2. June .018 .001 .266 R 1.644 R .373 R 2.017 .003 .018 R 2. July .022 .001 .288 R 1.606 R 3.60 R 1.966 .004 .023 R 2.	February									R 2.102
April										R 2.258
June		.016	.007	.249	R 1.552	R .335	R 1.887	.001	.017	R 2.176
July 022 001 288 R1 606 R 360 R 1 966 004 023 R 2					R 1.663	R .376	R 2.039			R 2.353
July						R.373	R 2.017			R 2.324
August 047 004 000 R4 044 R 070 R4 000 007 000 R0	July				^ 1.606	^к .360	^r 1.966			R 2.305
					1.611 R 1.512	".3/9 R 3/18	1.990 R 1 961			^R 2.324 ^R 2.172
September					R 1 510	R 332	R 1 842			R 2.172
November						R.317	R 1.786			R 2.070
										2.051
										26.608

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

available data beginning in 1973.

available data beginning in 1973.

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

Department of the Interior, Bureau of Mines, Minerals Yearbook, "Coke and Coal Chemicals" chapter. 1976-1980—U.S. Energy Information Administration (EIA), Energy Data Report, "Coke and Coal Chemicals," annual reports. 1981 forward—EIA, Quarterly Coal Report, quarterly reports and Table A5. • Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.3b, 10.3, 10.4, and A2. • Biofuels: Tables 10.3, 10.4 and A3. • Electricity: Tables 71 and A6.

Reserve, which began in 1977.

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

Petroleum products, unimismed ons, pentaries plus, and gasoline bieriding 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 Page: See http://www.eia.gov/totalenergy/data/monthly/#summary.for.all

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

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

(Quadrillion Btu)

					Exports					Net Imports ^a
					Petroleum					
	Coal	Coal Coke	Natural Gas	Crude Oil ^b	Petroleum Products ^c	Total	Biofuelsd	Electricity	Total	Total
1973 Total	1.425	0.035	0.079	0.004	0.482	0.486	NA	0.009	2.033	12.580
1975 Total	1.761	.032	.074	.012	.427	.439	NA	.017	2.323	11.709
1980 Total	2.421	.051	.049	.609	.551	1.160	NA	.014	3.695	12.101
1985 Total	2.438	.028	.056	.432	1.225	1.657	NA	.017	4.196	7.584
1990 Total	2.772	.014	.087	.230	1.594	1.824	NA	.055	4.752	14.065
1995 Total	2.318	.034	.156	.200	1.791	1.991	NA	.012	4.511	17.750
1996 Total	2.368	.040	.155	.233	1.825	2.059	NA	.011	4.633	19.069
1997 Total	2.193	.031	.159	.228	1.872	2.100	NA	.031	4.514	20.701
1998 Total	2.092	.028	.161	.233	1.740	1.972	NA	.047	4.299	22.281
1999 Total	1.525	.022	.164	.250	1.705	1.955	NA	.049	3.715	23.537
2000 Total	1.528	.028	.245	.106 .043	2.048	2.154	NA (=)	.051	4.006	24.967
2001 Total	1.265	.033	.377	.043	1.996	2.039	(s)	.056	3.771	26.386
2002 Total	1.032 1.117	.020 .018	.520 .686	.019 .026	2.023 2.124	2.042 2.151	(s) .001	.054 .082	3.669 4.054	25.739 27.007
2003 Total 2004 Total	1.117	.033	.862	.026	2.124	2.131	.001	.082	4.434	29.110
2005 Total	1.273	.043	.735	.067	2.374	2.442	.001	.065	4.560	30.149
2006 Total	1.264	.040	.730	.052	2.699	2.751	.004	.083	4.872	29.806
2007 Total	1.507	.036	.830	.052	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 Total	1.515	.032	1.082	.093	4.147	4.240	.034	.062	6.965	22.741
2010 January	.151	.006	.094	.006	.327	.332	.003	.004	.590	1.926
February	.138	.001	.089	.009	.312	.321	.003	.003	.556	1.681
March	.169	(s)	.100	.008	.366	.374	.006	.004	.654	1.865
April	.189	.001	.077	.006	.404	.411	.005	.004	.686	1.894
May	.186	.003	.086	.007	.414	.420	.003	.006	.704	1.874
June	.190	.004	.091	.005	.385	.391	.003	.005	.684	1.872
July	.178	.003	.087	.012	.428	.440	.003	.005	.716	1.989
August	.180	.002	.085	.006	.415	.421	.004	.006	.698	1.929
September	.184	.003	.080	.011	.385	.396	.004	.008	.675	1.757
October	.170 .180	.003 .006	.097 .125	.004 .006	.429 .433	.433 .439	.004 .004	.007 .006	.714 .760	1.676 1.529
November December	.186	.005	.125	.006	.453 .452	.459 .459	.004	.005	.797	1.650
Total	2.101	.036	1.147	.088	4.750	4.838	.046	.065	8.234	21.643
2011 January	.218	.001	.137	.013	.460	.473	.006	.005	.841	1.815
February	.212	.002	.126	.005	.403	.408	.005	.005	.759	1.367
March	.252	.001	.146	.007	.461	.467	.008	.005	.880	1.664
April	.227	.001	.128	.007	.499	.506	.011	.005	.878	1.533
May	.232	.002	.133	.007	.462	.469	.007	.004	.847	1.651
June	.233	.003	.121	.006	.444	.451	.006	.004	.818	1.600
July	.202	.003	.114	.013	.506	.520	.011	.004	.854	1.652
August	.241	.001	.112	.006	.511	.517	.005	.003	.879	1.527
September	.224	.003	.128	.006	.518	.524	.010	.003	.892	1.400
October	.235	.002	.110	.009	.520	.529	.011	.003	.891	1.461
November	.226	.004	.129	.011	.507	.518	.013	.004	.894	1.380
December Total	.249 2.751	.001 . 024	.136 1.521	.010 .100	.613 5.904	.622 6.004	.014 .108	.003 .051	1.026 10.458	1.347 18.397
2012 January	.234	.001	.132	.010	R .475	R .486	.008	.003	R .863	R 1.465
February	.217	.002	.131	.010	R .467	R .477	.007	.003	R .837	R 1.265
March	.284	.002	.142	.010	R .513	R .524	.008	.004	R .963	R 1.295
April	.321	.001	.124	.006	R .535	R .541	.007	.004	R .999	R 1.177
May	.314	.003	.134	.012	R .536	R .548	.006	.004	R 1.010	R 1.343
June	.327	.001	.126	.008	R .525	R .533	.007	.004	R .998	R 1.326
July	.298	.001	.119	.014	R .537	R .551	.007	.003	R .981	R 1.324
August	.272	.001	.141	.011	R .508	R .519	.006	.003	R .941	R 1.383
September	.240	.003	.139	.010	R .514	R .524	.006	.003	R.914	R 1.258
October	.242	.004	.141	.012	R .547	R .559	.006	.003	R .954	R 1.191
November	.218	.004	.143	.013	^R .555	R .567	.004	.003	R .939	R 1.130
December	.258	.002	.161	.010	.613	.623	.005	.004	1.053	.998
Total	3.225	.024	1.634	.127	6.325	6.452	.077	.041	11.452	15.155

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

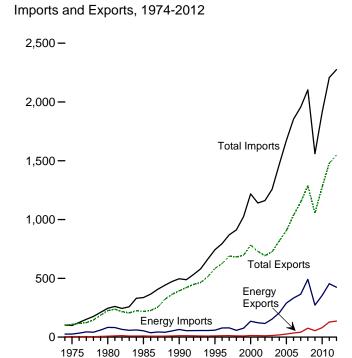
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#summary for all available data beginning in 1973.
Sources: • Coal: Tables 6.1 and A5. • Coal Coke: 1973-1975—U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook, "Coke and Coal Chemicals" chapter. 1976-1980—U.S. Energy Information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

<sup>a Net imports equal imports minus exports.
b Crude oil and lease condensate.
c Petroleum products, unfinished oils, pentanes plus, and gasoline blending components. Does not include biofuels.
d Through 2010, data are for biodiesel only. Beginning in 2011, data are for fuel ethanol (minus denaturant) and biodiesel.</sup>

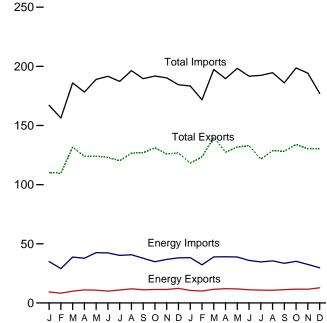
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.

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

Figure 1.5 Merchandise Trade Value (Billion Dollars^a)



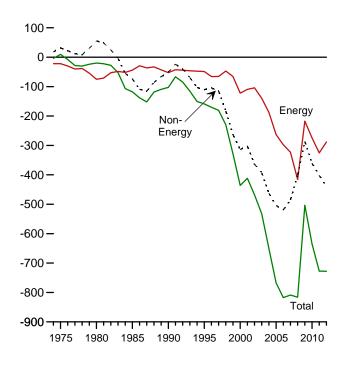
Imports and Exports, Monthly



2011

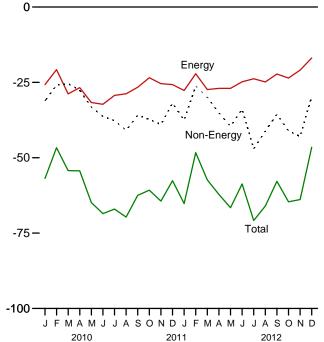
2012

Trade Balance, 1974-2012



Trade Balance, Monthly

2010



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

Table 1.5 Merchandise Trade Value

(Million Dollarsa)

Expor	orts Impor						Total Merchandise			
1975 Total 90 1980 Total 2,83 1985 Total 4,70 1990 Total 6,90 1995 Total 8,59 1996 Total 7,98 1997 Total 8,59 1998 Total 7,11 2000 Total 10,19 2001 Total 8,66 2002 Total 19,15 2003 Total 19,15 2006 Total 28,17 2006 Total 28,17 2007 Total 33,29 2008 Total 61,69 2009 Total 44,50 2010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 Ottober 6,08 November 6,27 December 6,69 Total 64,77 2011 January 7,44 February 6,60 March 7,84 April 9,01 <t< th=""><th>ilipoi</th><th>ts Balance</th><th>Exports</th><th>Imports</th><th>Balance</th><th>Energy Balance</th><th>Exports</th><th>Imports</th><th>Balance</th></t<>	ilipoi	ts Balance	Exports	Imports	Balance	Energy Balance	Exports	Imports	Balance	
975 Total 90 980 Total 2,83 985 Total 4,70 990 Total 6,90 995 Total 6,32 996 Total 7,98 997 Total 8,59 998 Total 7,11 000 Total 10,19 001 Total 8,86 002 Total 8,56 002 Total 8,56 003 Total 10,20 004 Total 13,13 005 Total 19,15 006 Total 28,17 007 Total 33,29 008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 December 10,50 Total 10,50 December 9,57 November 9,53 December 10,50 December 9,57 November 9,53 December 10,50 Total 10,50 Total 10,50 December 9,53 December 9,53 December 9,53 December 10,50 December 9,53 December 10,50 December 9,53 December 9,53 December 10,50 December 9,53 December 9,53 December 9,53 December 9,53 December 9,53 December 10,50 December 9,53 December 10,50 December 9,53	92 24,66	8 -23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3.884	
980 Total 2,83 985 Total 4,70 990 Total 6,90 995 Total 6,32 996 Total 7,98 997 Total 8,59 998 Total 7,11 2000 Total 10,19 2001 Total 8,56 2002 Total 8,56 2002 Total 10,20 2004 Total 13,13 2005 Total 13,13 2005 Total 13,13 2005 Total 3,29 2008 Total 61,69 2009 Total 44,50 2010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 2011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 10,50 Total 10,50 Total 10,50 Portion 10,50 Total 10,50 Portion 10,			4,470	26,476	-22,006	31,557	108,856	99,305	9,551	
985 Total 4,70 990 Total 6,90 995 Total 6,32 996 Total 7,98 997 Total 8,59 997 Total 8,59 998 Total 7,11 000 Total 10,19 0001 Total 8,86 0003 Total 10,20 0004 Total 13,13 0005 Total 19,15 0006 Total 28,17 0007 Total 33,29 0008 Total 61,69 0009 Total 44,50 0010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 6,27 December 6,69 Total 64,77 0011 January 7,44 February 7,44 February 7,44 February 7,44 February 7,40 November 6,27 December 6,69 Total 64,77 0011 January 7,44 February 7,44 February 7,44 February 8,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 0012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			7,982	82,924	-74,942	55,246	225,566	245,262	-19.696	
990 Total 6,90 995 Total 6,32 995 Total 7,98 997 Total 8,59 998 Total 6,57 999 Total 7,11 000 Total 10,19 001 Total 8,56 002 Total 8,56 002 Total 13,13 005 Total 19,15 006 Total 28,17 007 Total 33,29 008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			9,971	53,917	-74,942 -43,946	-73,765	218,815	336,526	-117,712	
995 Total 6,32 996 Total 7,98 996 Total 8,59 997 Total 8,59 998 Total 7,11 000 Total 10,19 001 Total 8,86 002 Total 8,56 002 Total 10,20 004 Total 13,13 005 Total 19,15 006 Total 28,17 007 Total 33,29 008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,011 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15										
996 Total 7,98 997 Total 8,59 998 Total 6,57 999 Total 7,11 1000 Total 7,11 1000 Total 10,19 001 Total 8,86 003 Total 10,20 004 Total 13,13 005 Total 19,15 006 Total 28,16 009 Total 33,29 009 Total 33,29 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496	
997 Total 8,59 998 Total 6,57 999 Total 7,11 900 Total 10,19 901 Total 8,86 002 Total 8,56 003 Total 10,20 004 Total 13,13 005 Total 19,15 006 Total 28,17 007 Total 33,29 008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,016 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15 May 10,05 June 9,22 July 9,15			10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801	
998 Total 6,57 999 Total 7,11 900 Total 10,19 901 Total 8,86 902 Total 8,56 902 Total 10,20 901 Total 13,13 905 Total 19,15 906 Total 28,17 907 Total 33,29 908 Total 61,69 909 Total 44,50 909 Total 44,50 910 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 911 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 9012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			12,181	78,086	-65,905	-104,309	625,075	795,289	-170,214	
399 Total 7,11 300 Total 10,19 301 Total 8,86 302 Total 10,20 304 Total 13,13 305 Total 19,15 306 Total 33,29 308 Total 61,69 309 Total 44,50 301 January 4,08 4 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 July 9,06 August 9,91 September 9,20 October 9,5			12,682	78,277	-65,595	-114,927	689,182	869,704	-180,522	
000 Total 10,19 001 Total 8,86 002 Total 8,56 003 Total 10,20 004 Total 13,13 305 Total 19,15 006 Total 28,17 007 Total 33,29 008 Total 61,69 009 Total 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,68 November 6,27 December 6,69 Total 64,77 O11 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20			10,251	57,323	-47,072	-182,686	682,138	911,896	-229,758	
001 Total 8,86 002 Total 8,56 003 Total 10,20 004 Total 13,13 005 Total 19,15 06 Total 28,17 007 Total 33,29 008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 O11 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,53			9,880	75,803	-65,923	-262,898	695,797	1,024,618	-328,821	
002 Total 8,56 003 Total 10,20 004 Total 13,13 005 Total 19,15 006 Total 28,17 007 Total 33,29 008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,66 August 9,53 December 10,50 Total 105,49	92 119,25	1 -109,059	13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104	
002 Total 8,56 003 Total 10,20 004 Total 13,13 005 Total 19,15 006 Total 28,17 007 Total 33,29 008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,66 August 9,53 December 10,50 Total 105,49	68 102,74	7 -93,879	12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899	
003 Total 10,20 004 Total 13,13 005 Total 19,15 006 Total 28,17 007 Total 33,29 008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,69 Total 64,77 Docember 6,69 Total 7,84 April 9,01 March 7,84 April 9,01 May 8,76 July 9,06 August 9,91 September 9,20 October 9,53 December 10,50 Total 105,49 012 January			11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263	
004 Total 13,13 005 Total 19,15 006 Total 28,17 007 Total 33,29 008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 6,68 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 <td></td> <td></td> <td>13,768</td> <td>153,298</td> <td>-139,530</td> <td>-392,820</td> <td>724,771</td> <td>1,257,121</td> <td>-532,350</td>			13,768	153,298	-139,530	-392,820	724,771	1,257,121	-532,350	
005 Total 19,15 006 Total 28,17 006 Total 33,29 008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 July 9,06 August 9,91 September 9,20 October 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 <td></td> <td></td> <td>18,642</td> <td>206,660</td> <td>-188,018</td> <td>-462,912</td> <td>818,775</td> <td>1,469,704</td> <td>-650,930</td>			18,642	206,660	-188,018	-462,912	818,775	1,469,704	-650,930	
006 Total 28,17 7 Total 33,29 008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,73 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60										
2007 Total 33,29 2008 Total 61,69 2009 Total 44,50 2010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 6,68 November 6,27 December 6,69 Total 64,77 201 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,53 December 10,50 Total 105,49 2012 January 8,73 February 8,60 March 9,70 April 10,15 <			26,488	289,723	-263,235	-504,242	905,978	1,673,455	-767,477	
008 Total 61,69 009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,53 December 10,50 Total 105,49 012 January 8,60 March 9,70 April 10,15 May 10,05			34,711	332,500	-297,789	-519,515	1,036,635	1,853,938	-817,304	
009 Total 44,50 010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 <			41,725	364,987	-323,262	-485,501	1,148,199	1,956,962	-808,763	
010 January 4,08 February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,73 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22			76,075	491,885	-415,810	-400,389	1,287,442	2,103,641	-816,199	
February 4,00 March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 Ottal 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 Ottal 105,49 Ottal 105,49 March 9,70 April 10,15 May 10,05 July 9,15 March <td>09 251,83</td> <td>3 -207,324</td> <td>54,536</td> <td>271,739</td> <td>-217,203</td> <td>-286,379</td> <td>1,056,043</td> <td>1,559,625</td> <td>-503,582</td>	09 251,83	3 -207,324	54,536	271,739	-217,203	-286,379	1,056,043	1,559,625	-503,582	
March 5,34 April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 M1 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 M12 January 8,76 June 9,53 December 10,50 Total 105,49 M12 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			5,236	28,075	-22,839	-21,285	92,601	136,725	-44,124	
April 5,68 May 5,48 June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 D11 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 D12 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			5,115	26,018	-20,903	-19,141	93,854	133,898	-40,044	
May 5,48 June 4,79 July 5,50 August 5,34 September 6,08 November 6,27 December 6,69 Total 64,77 July 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 July 8,73 February 8,60 March 9,70 April 10,15 May 9,70 April 10,15 May 10,05 June 9,22 July 9,15	48 28,54	9 -23,201	6,667	30,613	-23,946	-23,271	110,511	157,728	-47,217	
May 5,48 June 4,79 July 5,50 August 5,34 September 6,08 October 6,69 Total 64,77 December 6,69 Total 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,12	80 30,01	6 -24,336	6,970	31,657	-24,687	-26,034	102,443	153,163	-50,721	
June 4,79 July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 111 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 112 January 8,76 March 9,70 April 9,01 10,549 112 January 8,70 April 10,15 May 9,70 April 10,15 May 10,05 June 9,22 July 9,15	84 28,73	3 -23,249	6,887	30,369	-23,482	-27,165	105,477	156,124	-50,647	
July 5,50 August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 111 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 112 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			6,170	30,698	-24,528	-36,592	107,202	168,321	-61,120	
August 5,34 September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 1011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 1012 January 8,76 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			6,760	31,113	-24,353	-35,451	104,057	163,861	-59,804	
September 5,48 October 6,08 November 6,27 December 6,69 Total 64,77 O11 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 O12 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,12			6,744	31,907	-25,163	-38.957	106.846	170,966	-64,120	
October 6,08 November 6,27 December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,12										
November 6,27 December 6,69 Total 64,77 11 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 2012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			6,802	28,992	-22,190	-37,244	107,644	167,078	-59,434	
December 6,69 Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			7,318	27,056	-19,738	-33,397	117,104	170,239	-53,135	
Total 64,77 011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			7,610	27,363	-19,753	-35,966	113,046	168,765	-55,719	
011 January 7,44 February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			8,182	31,107	-22,925	-25,888	117,480	166,293	-48,813	
February 6,60 March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,57 November 9,53 December 10,50 Total 105,49 O12 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15	78 333,46	5 -268,687	80,460	354,968	-274,508	-360,389	1,278,263	1,913,160	-634,897	
March 7,84 April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,53 December 10,50 Total 105,49 D12 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			9,275	35,010	-25,735	-31,134	110,179	167,048	-56,869	
April 9,01 May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			8,291	29,062	-20,771	-25,897	109,647	156,315	-46,668	
May 8,76 June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15	41 37,09	6 -29,255	9,958	38,763	-28,805	-25,442	131,728	185,975	-54,247	
June	16 36,45	7 -27,441	11,059	37,803	-26,744	-27,589	123,959	178,293	-54,333	
June 8,03 July 9,06 August 9,91 September 9,20 October 9,57 November 10,50 Total 105,49 M2 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15	67 41,00	2 -32,235	10,795	42,470	-31,675	-33,171	124,107	188,953	-64,846	
July 9,06 August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15	32 40,87	2 -32,840	10,039	42,305	-32,266	-36,274	123,039	191,579	-68,540	
August 9,91 September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			10.902	40.224	-29.322	-37,702	120,239	187,263	-67,024	
September 9,20 October 9,57 November 9,53 December 10,50 Total 105,49 2012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			11,940	40,732	-28,792	-40,896	126,633	196,321	-69,688	
October 9,57 November 9,53 December 10,50 Total 105,49 D12 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			11,141	37,741	-26,600	-35,855	127,107	189,562	-62,455	
November 9,53 December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			11,410		-23,447	-37,306	131.058	191.811	-60.753	
December 10,50 Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15				34,857						
Total 105,49 012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			11,401	36,821	-25,420	-38,944	125,899	190,263	-64,364	
012 January 8,73 February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			12,353 128,564	38,083 453,872	-25,730 -325,308	-31,876 -402,084	126,837 1,480,432	184,443 2,207,824	-57,606 -727,392	
February 8,60 March 9,70 April 10,15 May 10,05 June 9,22 July 9,15										
March 9,70 April 10,15 May 10,05 June 9,22 July 9,15			10,606	38,290	-27,684	-37,519	118,209	183,411	-65,203	
April			10,124	32,250	-22,126	-26,181	123,428	171,735	-48,307	
May			11,552	38,937	-27,385	-29,974	139,965	197,324	-57,359	
June 9,22 July 9,15			12,057	39,043	-26,986	-35,179	127,411	189,577	-62,165	
June 9,22 July 9,15			11,858	38,829	-26,971	-39,590	131,735	198,296	-66,561	
July 9,15	28 35,04	3 -25,815	11,100	35,910	-24,810	-33,876	133,018	191,704	-58,686	
	54 33,60	4 -24,450	10,887	34,683	-23,796	-47,011	121,558	192,366	-70,807	
August 9,09			10,748	35,594	-24,846	-41,178	128,632	194,656	-66,024	
September 9,77			11,263	33,497	-22,234	-35,579	128,237	186,050	-57,813	
October 10,10			11,639	35,198	-23,559	-41,057	134,020	198,636	-64,616	
November 10,25			11,618	32,555	-20,937	R -42,924	R 130,374	R 194,235	R -63,861	
December 11,19 Total 116,04			12,834 136,287	29,717 424,505	-16,883 -288,218	-29,619 -439,687	130,551 1,547,137	177,053 2,275,043	-46,502 -727,905	

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

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

Sources: See end of section.

Table 1.5 is not updated this month.

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

mineral fuels.

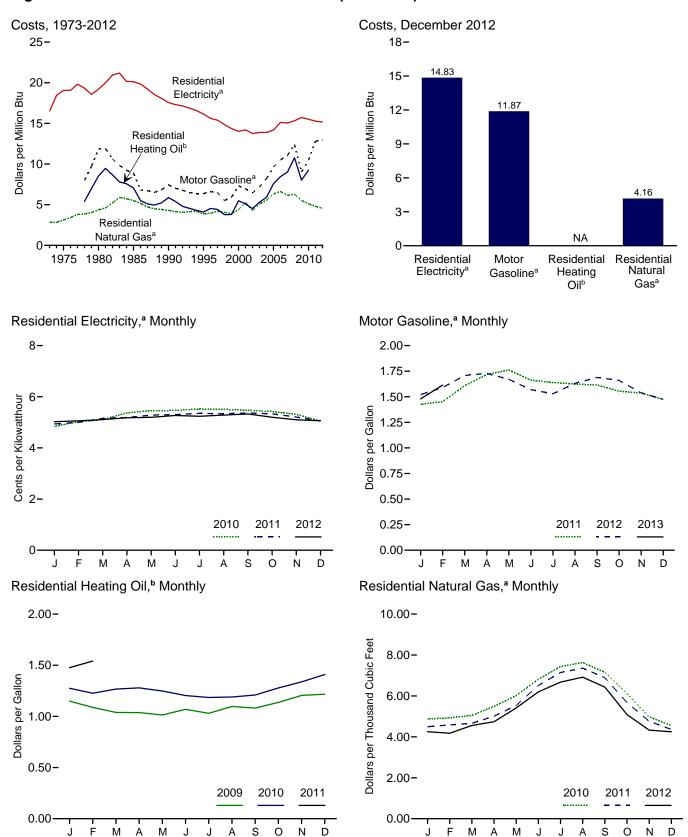
^c Petroleum, coal, natural gas, and electricity.

R=Revised.

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

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

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



^b Excludes taxes.

^a Includes taxes. NA=Not available. Note: See "Real Dollars" in Glossary. Web Page: http://www.eia.gov/totalenergy/data/monthly/#summary. Source: Table 1.6.

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

	Consumer Price Index, All Urban Consumers ^a	Motor G	Sasoline ^b		dential ng Oil ^c	Resid Natura	lential Il Gas ^b		lential ricity ^b
	Index 1982-1984=100	Dollars per Gallon	Dollars per Million Btu	Dollars per Gallon	Dollars per Million Btu	Dollars per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars per Million Btu
1973 Average 1975 Average	44.4 53.8	NA NA	NA NA	NA NA	NA NA	2.91 3.18	2.85 3.12	5.6 6.5	16.50 19.07
1980 Average	82.4	1.482	11.85	1.182	8.52	4.47	4.36	6.6	19.21
1985 Average	107.6	1.112	8.89	0.979	7.06	5.69	5.52	6.87	20.13
1990 Average	130.7	0.931	7.44	0.813	5.86	4.44	4.31	5.99	17.56
1995 Average	152.4	0.791	6.37	0.569	4.10	3.98	3.87	5.51	16.15
1996 Average	156.9	0.821	6.61	0.630	4.54	4.04	3.94	5.33	15.62
1997 Average	160.5 163.0	0.804 0.684	6.48 5.51	0.613 0.523	4.42 3.77	4.32 4.18	4.21 4.05	5.25 5.07	15.39 14.85
1998 Average 1999 Average	166.6	0.664	5.91	0.523	3.77 3.79	4.16	4.05 3.91	4.90	14.36
2000 Average	172.2	0.733	7.32	0.761	5.49	4.51	4.39	4.79	14.02
2001 Average	177.1	0.864	6.97	0.706	5.09	5.44	5.28	4.84	14.20
2002 Average	179.9	0.801	6.46	0.628	4.52	4.39	4.28	4.69	13.75
2003 Average	184.0	0.890	7.18	0.736	5.31	5.23	5.09	4.74	13.89
2004 Average	188.9	1.018	8.20	0.819	5.91	5.69	5.55	4.74	13.89
2005 Average	195.3	1.197	9.64	1.051	7.58	6.50	6.33	4.84	14.18
2006 Average	201.6	1.307	10.52	1.173	8.46	6.81	6.63	5.16	15.12
2007 Average 2008 Average	207.342 215.303	1.374 1.541	11.06 12.40	1.250 1.495	9.01 10.78	6.31 6.45	6.14 6.28	5.14 5.23	15.05 15.33
2009 Average	214.537	1.119	9.01	1.112	8.02	5.66	5.52	5.37	15.72
2010 January	216.687	1.282	10.32	1.275	9.19	4.87	4.76	4.84	14.19
February		1.250 1.300	10.06 10.46	1.226 1.267	8.84 9.13	4.93 5.05	4.82 4.94	5.02 5.10	14.73 14.96
March April		1.333	10.46	1.278	9.13	5.49	5.37	5.10	15.74
May		1.336	10.75	1.248	9.00	6.01	5.88	5.46	16.00
June		1.277	10.73	1.203	8.68	6.82	6.66	5.46	16.01
July		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	6.99	5.47	16.03
October		1.300	10.46	1.278	9.21	6.11	5.98	5.42	15.89
November	218.803	1.325	10.66	1.337	9.64	4.98	4.87	5.31	15.56
December Average	219.179 218.056	1.383 1.301	11.13 10.47	1.409 1.283	10.16 9.25	4.55 5.22	4.45 5.11	5.05 5.29	14.79 15.51
2011 January	220.223	1.425	11.47	1.476	10.64	4.50	4.40	4.94	14.47
February		1.453	11.69	1.540	11.11	4.58	4.48	5.00	14.65
March		1.608	12.95	NA	NA	4.67	4.57	5.16	15.11
April		1.718 1.762	13.83 14.18	NA NA	NA NA	5.01 5.53	4.90 5.41	5.19 5.28	15.21 15.47
May June		1.663	13.38	NA NA	NA NA	6.51	6.37	5.20	15.54
July	225.922	1.639	13.19	NA	NA	7.14	6.99	5.35	15.68
August	226.545	1.624	13.07	NA	NA	7.36	7.20	5.34	15.64
September	226.889	1.615	13.00	NA	NA	6.89	6.74	5.36	15.72
October	226.421	1.555	12.52	NA	NA	5.68	5.55	5.34	15.64
November	226.230	1.536	12.36	NA	NA	4.77	4.66	5.21	15.26
December Average	225.672 224.939	1.475 1.590	11.87 12.80	NA NA	NA NA	4.36 4.90	4.27 4.80	5.05 5.21	14.81 15.27
2012 January		1.521	12.24	NA	NA	4.25	4.16	5.03	14.73
February	227.663	1.591	R 12.80	NA	NA	4.18	4.09	5.06	14.83
March		1.708	13.75	NA	NA	4.56	4.46	5.11	14.97
April		1.728	13.91	NA	NA	4.74	4.64	5.18	15.17
May	229.815	1.670	R 13.44	NA NA	NA NA	5.41	5.30	5.20 5.27	15.23
June	229.478 229.104	1.570 1.529	12.63 12.30	NA NA	NA NA	6.20 6.67	6.06 6.53	5.27 5.24	15.44 15.35
July August	230.379	1.632	13.13	NA NA	NA NA	6.92	6.77	5.28	15.48
September	231.407	1.689	13.59	NA	NA	6.44	6.30	5.33	15.62
October		1.660	13.36	NA	NA	5.09	4.98	5.20	15.24
November	230.221	1.539	12.38	NA	NA	4.33	4.24	5.10	14.95
December	229.601	1.475	11.87	NA	NA	^R 4.25	^R 4.16	^R 5.06	^R 14.83
Average	229.594	1.609	12.95	NA	NA	R 4.65	R 4.55	R 5.17	R 15.17
2013 January February	230.280 232.166	1.480 1.614	11.91 12.99	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA

^a Data are U.S. city averages for all items, and are not seasonally adjusted.

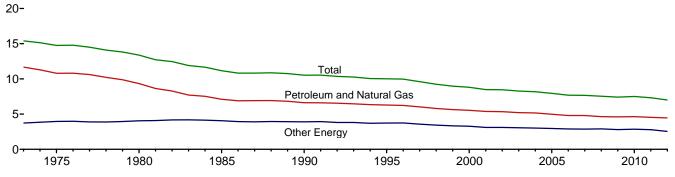
a Data are U.S. city averages for all items, and are not seasonally adjusted.
b Includes taxes.
c Excludes taxes.
R=Revised. NA=Not available.
Notes: • See "Real Dollars" in Glossary. • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • 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.

Figure 1.7 Primary Energy Consumption per Real Dollar of Gross Domestic Product, 1973-2012 (Thousand Btu per Chained (2005) Dollar)



Note: See "Real Dollars" in Glossary.

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

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

L	Enei	rgy Consumption		Gross	Energy Consumption per Real Dollar of GDP				
	Petroleum and Natural Gas	Other Energy ^a	Total	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total		
	(Quadrillion Btu		Billion Chained (2005) Dollars	Thousand Btu	per Chained (200	5) Dollar		
							·		
73 Year	57.350	18.334	75.684	4,912.8	11.67	3.73	15.41		
74 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		
80 Year	54.440	23.627	78.067	5,834.0	9.33	4.05	13.38		
181 Year	51.680	24.426	76.106	5,982.1	8.64	4.03	12.72		
82 Year	48.588	24.511	73.099	5,865.9	8.28	4.18	12.72		
	47.273	25.698	73.099 72.971	6.130.9	7.71	4.18 4.19	11.90		
983 Year	49.447	27.185	76.632		7.71 7.52	4.19	11.66		
084 Year				6,571.5					
85 Year	48.628	27.764	76.392	6,843.4	7.11	4.06	11.16		
86 Year	48.790	27.857	76.647	7,080.5	6.89	3.93	10.83		
87 Year	50.504	28.551	79.054	7,307.0	6.91	3.91	10.82		
88 Year	52.671	30.038	82.709	7,607.4	6.92	3.95	10.87		
89 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	10.02		
96 Year	58.760	35.262	94.022	9,425.8	6.23	3.74	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		
000 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		
009 Year	58.819	35.740	94.559	12,757.9	4.61	2.80	7.41		
110 Year	60.584	37.398	97.982	13,063.0	4.64	2.86	7.41		
111 Year 112 Year	60.325 60.642	37.142 34.500	97.467 95.142	13,299.1 13,591.1	4.54 4.46	2.79 2.54	7.33 7.00		

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

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 (February 28, 2013), Table 1.1.6.

and electricity net imports.

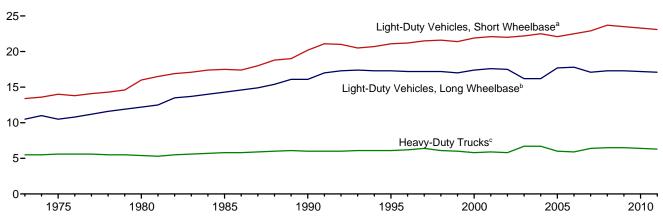
Notes:

See "Primary Energy Consumption" and "Real Dollars" in Glossary.

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

Geographic coverage is the 50 States and the District of

Figure 1.8 Motor Vehicle Fuel Economy, 1973-2011 (Miles per Gallon)



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

Source: Table 1.8

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

		ght-Duty Vehicle Short Wheelbase			ght-Duty Vehicl		Н	eavy-Duty Truck	(S ^C	All Motor Vehicles ^d			
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Economy (miles per gallon)										
1973	9.884	737	13.4	9,779	931	10.5	15,370	2,775	5.5	10,099	850	11.9	
1974	9,221	677	13.6	9,452	862	11.0	14,995	2,708	5.5	9,493	788	12.0	
1975	9,309	665	14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2	
1976	9,418	681	13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1	
1977	9,517	676	14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3	
1978	9,500	665	14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4	
1979	9,062	620	14.6	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5	
1980	8.813	551	16.0	10,437	854	12.2	18,736	3,447	5.4	9.458	712	13.3	
1981	8,873	538	16.5	10,244	819	12.5	19,016	3,565	5.3	9,477	697	13.6	
1982	9.050	535	16.9	10,276	762	13.5	19,931	3,647	5.5	9.644	686	14.1	
1983	9,118	534	17.1	10,497	767	13.7	21,083	3,769	5.6	9,760	686	14.2	
1984	9,248	530	17.4	11,151	797	14.0	22,550	3,967	5.7	10,017	691	14.5	
1985	9,419	538	17.5	10,506	735	14.3	20,597	3,570	5.8	10,020	685	14.6	
1986	9,464	543	17.4	10,764	738	14.6	22,143	3,821	5.8	10,143	692	14.7	
1987	9,720	539	18.0	11,114	744	14.9	23,349	3,937	5.9	10,453	694	15.1	
1988	9,972	531	18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6	
1989	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	11,848	553	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206	732	16.7	
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9	
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1	
2002	12,202	555	22.0	11,364	650	17.5	27,071	4,642	5.8	12,171	719	16.9	
2003	12,325	556	22.2	11,287	697	16.2	28,093	4,215	6.7	12,208	718	17.0	
2004	12,460	553	22.5	11,184	690	16.2	27,023	4,057	6.7	12,200	714	17.1	
2005	12,510	567	22.1	10,920	617	17.7	26,235	4,385	6.0	12,082	706	17.1	
2006	12,485	554	22.5	10,920	612	17.8	25,231	4,304	5.9	12,017	698	17.2	
2007	^a 10,710	^a 468	^a 22.9	^b 14,970	b 877	^b 17.1	^c 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	្ត 11,631	ຼ661	17.6	
2010	R 10,650	^R 456	R 23.3	R 15,474	^R 901	17.2	R 26,604	^R 4,180	6.4	R 11,866	^R 681	^R 17.4	
2011 ^P	10,614	460	23.1	14,596	855	17.1	26,016	4,126	6.3	11,640	666	17.5	

^a Through 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, data are for large passenger cars, vans, 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

pounds, and combination trucks.

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

R=Revised. P=Preliminary.

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

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

Sources: • 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.

Table 1.9 Heating Degree-Days by Census Division

			February				July 1	Cumulative hrough Feb		
				Percent	Change				Percent	Change
Census Divisions	Normala	2012	2013	Normal to 2013	2012 to 2013	Normala	2012	2013	Normal to 2013	2012 to 2013
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	1,060	889	1,033	-3	16	4,768	3,935	4,398	-8	12
Middle Atlantic New Jersey, New York, Pennsylvania	983	809	982	(s)	21	4,332	3,584	4,003	-8	12
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	1,061	910	1,082	2	19	4,835	4,113	4,573	-5	11
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	1,078	941	1,093	1	16	5,163	4,409	4,881	-5	11
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	507	409	507	0	24	2,233	1,846	2,026	-9	10
East South Central Alabama, Kentucky, Mississippi, Tennessee	623	519	618	-1	19	2,853	2,400	2,622	-8	9
West South Central Arkansas, Louisiana, Oklahoma, Texas	414	356	363	-12	2	1,912	1,612	1,619	-15	(s)
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	737	742	805	9	8	3,835	3,547	3,637	-5	3
Pacific ^b California, Oregon, Washington	439	447	485	10	9	2,256	2,155	2,189	-3	2
U.S. Average ^b	732	635	740	1	17	3,388	2,905	3,153	-7	9

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

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

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

for historical data.

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

b Excludes Alaska and Hawaii.

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

Table 1.10 Cooling Degree-Days by Census Division

			February				ebruary			
				Percent	Change				Percent	Change
Census Divisions	Normala	2012	2013	Normal to 2013	2012 to 2013	Normal ^a	2012	2013	Normal to 2013	2012 to 2013
New England Connecticut, Maine, Massachusetts, New Hampshire,										
Rhode Island, Vermont	0	0	0	NM	NM	0	0	0	NM	NM
Middle Atlantic New Jersey, New York, Pennsylvania	0	0	0	NM	NM	0	0	0	NM	NM
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	0	0	0	NM	NM	0	0	0	NM	NM
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	0	0	0	NM	NM	0	0	0	NM	NM
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,	30	41	33	NM	NM	64	66	74	NM	NM
West Virginia	30	41	33	INIVI	INIVI	64	00	/4	INIVI	INIVI
East South Central Alabama, Kentucky, Mississippi, Tennessee	4	2	0	NM	NM	12	2	4	NM	NM
West South Central Arkansas, Louisiana, Oklahoma, Texas	15	19	9	NM	NM	29	29	26	NM	NM
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	3	0	0	NM	NM	4	0	0	NM	NM
Pacific ^b California, Oregon, Washington	1	0	0	NM	NM	3	0	0	NM	NM
U.S. Average ^b	8	10	7	NM	NM	17	16	17	NM	NM

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

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

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

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

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

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

b Excludes Alaska and Hawaii.

Energy Overview

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

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

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

Table 1.5 Sources

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

Petroleum Exports

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

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

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

Petroleum Imports

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

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

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

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

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

Energy Exports and Imports

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

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

1989: Monthly FT-900, 1990 issues.

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

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

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

Petroleum, Energy, and Non-Energy Balances

Calculated by the U.S. Energy Information Administration.

Total Merchandise

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

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

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

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

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

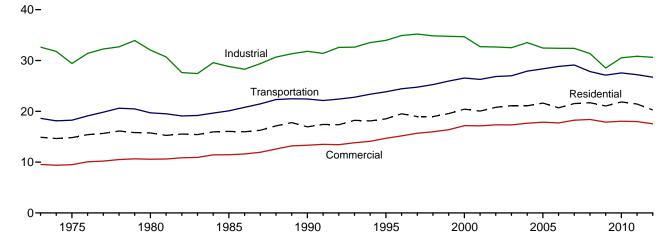
1992–2011: "U.S. International Trade in Goods and Services," Annual Revision.

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

2. Energy Consumption by Sector

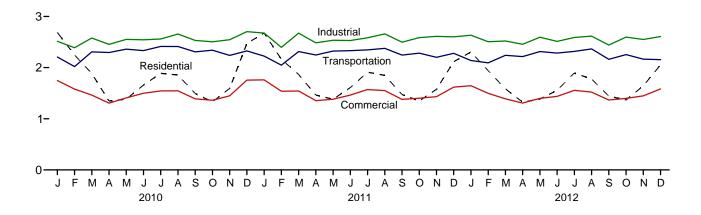
Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

Total Consumption by End-Use Sector, 1973-2012

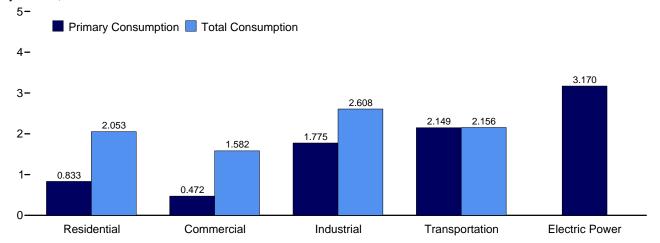


Total Consumption by End-Use Sector, Monthly

4-







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

Source: Table 2.1.

Table 2.1 Energy Consumption by Sector

(Trillion Btu)

Primary		,								<u> </u>	T	Ι
Primary Total Primary					End-Use	e Sectors						
Primary		Resid	ential	Comm	erciala	Indus	trial ^b	Transpo	ortation	Sector ^{c,d}	Belomeir -	Drimon
1975 Total 7,990 1,4813 4,059 9,492 21,434 18,210 18,245 20,770 1 71,985 Total 7,439 15,753 4,105 10,576 22,595 32,039 19,559 19,657 24,269 -1 78,067 1985 Total 7,145 19,441 32,732 11,451 19,446 22,179 33,971 1995 Total 6,936 18,1519 4,101 14,690 22,719 33,971 32,3791 23,466 33,479 3 91,029 1996 Total 7,467 19,504 4,273 15,172 23,410 33,471 33,791 12,3791 23,466 34,485 4 94,022 1998 Total 7,467 19,504 4,273 15,172 23,410 34,904 24,383 24,437 34,485 4 94,022 1998 Total 6,415 16,455 4,005 15,586 23,177 34,885 25,207 25,256 36,470 34,885 6 94,022 1998 Total 6,415 18,455 4,005 15,586 23,177 34,885 25,207 25,256 36,470 34,885 4 94,022 1998 Total 6,415 18,455 4,005 15,586 23,177 34,885 25,207 25,256 36,470 34,885 4 94,022 1998 Total 6,415 18,455 4,005 15,586 23,177 34,885 25,207 25,256 38,077 3 85,012 2000 Total 7,199 20,425 4,278 11,7175 22,824 34,684 25,207 25,256 38,077 3 85,012 2000 Total 6,812 20,042 4,084 17,137 21,794 32,695 26,781 32,720 26,213 26,275 37,215 6 96,188 2002 Total 6,912 20,797 4,132 17,345 21,799 32,662 26,781 26,842 38,016 5 97,645 2003 Total 7,219 20,425 4,081 17,859 21,100 20,100		Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye	Total ^f	Primarye		
1975 Total 7,990 1,4813 4,059 9,492 21,434 18,210 18,245 20,770 1 71,985 Total 7,439 15,753 4,105 10,576 22,595 32,039 19,559 19,657 24,269 -1 78,067 1985 Total 7,145 19,441 32,732 11,451 19,446 22,179 33,971 1995 Total 6,936 18,1519 4,101 14,690 22,719 33,971 32,3791 23,466 33,479 3 91,029 1996 Total 7,467 19,504 4,273 15,172 23,410 33,471 33,791 12,3791 23,466 34,485 4 94,022 1998 Total 7,467 19,504 4,273 15,172 23,410 34,904 24,383 24,437 34,485 4 94,022 1998 Total 6,415 16,455 4,005 15,586 23,177 34,885 25,207 25,256 36,470 34,885 6 94,022 1998 Total 6,415 18,455 4,005 15,586 23,177 34,885 25,207 25,256 36,470 34,885 4 94,022 1998 Total 6,415 18,455 4,005 15,586 23,177 34,885 25,207 25,256 36,470 34,885 4 94,022 1998 Total 6,415 18,455 4,005 15,586 23,177 34,885 25,207 25,256 38,077 3 85,012 2000 Total 7,199 20,425 4,278 11,7175 22,824 34,684 25,207 25,256 38,077 3 85,012 2000 Total 6,812 20,042 4,084 17,137 21,794 32,695 26,781 32,720 26,213 26,275 37,215 6 96,188 2002 Total 6,912 20,797 4,132 17,345 21,799 32,662 26,781 26,842 38,016 5 97,645 2003 Total 7,219 20,425 4,081 17,859 21,100 20,100	1973 Total	8.225	14.897	4.423	9,543	24.720	32.623	18.577	18.613	19.731	7	75.684
1985 Total 6,575 16,464 3,732 11,451 19,443 23,816 20,041 20,088 26,032 4 76,332 1990 Total 6,557 16,465 3,896 13,320 21,180 31,810 22,366 23,263 20,495 9 84,485 1995 Total 6,536 15,514 4,101 14,690 22,718 23,397												
1999 Total 6,557 16,945 3,896 13,320 21,180 3,810 22,366 22,420 30,495 9 84,485 1995 Total 6,336 18,519 4,101 14,690 22,719 33,971 23,791 23,791 23,863 33,479 3 31,029 1996 Total 7,033 18,855 4,293 15,172 23,410 33,4904 24,833 24,437 34,485 4 34,022 1997 Total 7,033 18,855 4,293 15,172 23,410 33,868 33,200 24,833 24,437 34,485 4 34,022 1997 Total 7,133 18,105 24,285 24,2	1980 Total			4,105								
1995 Total												
1986 Total 7,467 19,504 4,273 15,172 23,410 34,904 24,383 24,437 34,485 4 94,022 197 Total 7,033 16,995 4,229 15,061 36,068 35,200 24,689 24,756 34,886 6 94,606 1999 Total 7,179 20,425 4,278 15,878 22,950 34,764 25,891 25,589 36,976 6 96,652 2000 Total 7,179 20,425 4,278 11,7175 22,284 34,646 46,489 25,648 38,062 2 98,814 2011 Total 6,868 20,042 4,084 17,137 21,794 32,720 26,213 26,275 37,215 6 96,668 2000 Total 6,912 20,791 4,132 17,345 21,799 32,662 26,781 36,062 2 98,814 2011 Total 6,912 20,791 4,132 17,345 21,799 32,662 26,781 36,062 2 98,814 2011 Total 7,211 21,097 4,132 17,345 21,799 32,662 26,781 36,062 2 98,814 2011 Total 6,912 20,791 4,132 17,345 21,799 32,662 26,781 36,062 2 98,814 2011 Total 6,912 20,914 4,132 17,345 21,799 32,662 26,781 36,062 2 8,069 32,060 2 1,060 20,000 104 1,000 20,000 20,000 104 1,000 20,000 10	1990 Total											
1997 Total 7,033 18,965 4,295 15,681 23,686 35,200 24,695 24,750 34,886 6 94,602 1999 Total 6,413 18,955 4,005 15,988 23,177 34,843 25,201 25,256 36,225 -3 95,018 1999 Total 7,778 19,557 4,055 16,376 22,990 34,764 25,891 25,249 36,576 6 96,522 10 10 10 10 10 10 10 10 10 10 10 10 10	1995 Total							23,791				
1998 Total 6,413 18,955 4,005 15,968 23,177 34,643 25,201 25,256 36,225 -3 95,018 1999 Total 7,7159 20,425 4,278 17,175 22,824 34,664 25,891 26,548 36,062 2 98,814 2011 Total 5,686 20,042 4,084 17,137 17,137 21,194 32,720 26,213 27,575 37,215 -6 96,652 20,014 1 1,014 1,								24,383				
1999 Total 6,775 19,527 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 36,062 2 98,814 2001 Total 6,686 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 4,4283 17,335 21,502 32,522 26,920 28,939 38,026 1 97,945 2003 Total 6,939 21,1626 4,423 17,335 21,502 32,522 26,920 28,939 38,032 1 97,945 2005 Total 6,598 21,1626 4,423 17,837 21,1411 32,446 22,272 26,353 39,638 (e) 99,629 2007 Total 6,698 21,651 3,392 18,255 21,170 24,271 21,1411 32,272 26,353 39,638 (e) 99,629 2007 Total 6,698 21,651 3,392 18,255 21,370 32,340 29,299 29,117 40,377 -1 101,296 2008 Total 76,003 72,1048 74,066 78,1384 72,005 76,003 72,1048 74,066 78,1384 72,005 76,003 72,1048 74,066 78,1384 72,005 76,003 72,1048 74,066 78,1384 72,005 76,003 72,1048 74,066 78,1384 72,005 76,003 72,1048 74,066 78,1384 72,005 76,003 72,1048 74,066 78,1384 74,066												
2000 Total	1999 Total											
2001 Total			20,425									
2003 Total 6,993 21,097 4,283 17,331 21,502 32,522 26,924 26,994 38,028 1 97,943 2004 Total 6,993 21,029 4,232 17,659 22,412 33,519 27,895 38,712 -6 101,060 2005 Total 6,168 20,688 3,747 17,711 21,536 32,401 28,727 28,853 39,538 (s) 100,282 2007 Total 6,168 20,688 3,747 17,711 21,536 32,401 28,727 28,853 39,628 (s) 99,628 2007 Total 6,598 21,531 3,922 18,625 21,370 32,394 29,029 29,117 40,377 1 101,296 2005 Total 6,699 4 21,683 84,086 818,394 72,057 83,1057 127,748 727,818 73,977 1 101,296 2005 Total 76,603 72,048 84,044 817,881 81,851 81,862 82,852 21,370 32,394 29,029 29,117 40,377 1 101,296 2010 January 81,39 72,668 7 16,612 81,747 81,851 81,862 82,522 82,7025 827,108 38,077 (s) 94,552 3010 January 81,39 72,668 7 16,612 81,747 81,851 81,666 82,389 82,013 82,020 3,073 1 8,238 March 87,352 81,348 82,247 85,43 81,551 81,666 82,389 82,013 82,020 3,073 1 8,238 March 87,352 81,348 8224 81,408 81,636 82,257 82,361 82,200 3,073 1 8,238 March 87,352 81,348 8224 81,408 81,636 82,257 82,361 82,200 3,073 1 8,238 March 87,352 81,348 8224 81,408 81,636 82,552 82,288 82,295 2,755 22 7,397 May 82,207 81,348 8224 81,408 81,636 82,552 82,552 82,332 3,611 2 8,034 July 82,39 81,888 8180 81,814 81,636 82,552 82,552 82,332 3,611 2 8,034 July 82,39 81,888 8180 81,545 81,545 81,729 82,656 82,406 82,412 3,917 3 8,470 September 82,36 81,438 81,438 81,632 81,632 81,250 82,406 82,412 3,917 3 8,470 September 82,36 81,438 81,438 81,632 81,632 82,550 82,406 82,412 3,917 3 8,470 September 82,36 81,438 81,438 81,632 81,632 82,550 82,406 82,412 3,917 3 8,470 September 82,36 81,438 81,438 81,632 81,632 82,550 82,406 82,412 3,917 3 8,470 September 82,36 81,438 81,438 81,632 81,253 82,253 82,334 82,331 3,934 4 8,409 82,406 82,406 82,412 3,917 3 8,470 September 82,36 81,438 81,438 81,632 81,250 82,406 82,412 3,917 3 8,470 September 82,36 81,438 81,438 81,632 81,253 82,333 82,33 82											-6	
2001 Total 6,993 21,092 4,223 17,659 22,412 33,519 27,618 38,712 -6 100,160 2005 Total 6,993 21,626 4,051 17,657 21,411 32,446 28,272 28,353 38,538 (s) 100,282 2007 Total 6,168 20,688 3,747 17,711 21,536 32,401 28,752 28,353 38,638 (s) 100,282 2007 Total 6,596 21,531 39,22	2002 Total	6,912		4,132					26,842			
2005 Total 6,6909 21,626 4,051 17,857 21,411 32,446 28,272 28,353 39,638 (s) 100,282 2007 Total 6,168 20,688 3,747 17,711 21,556 32,401 28,751 28,830 39,428 (s) 99,629 2007 Total 6,598 21,531 3,922 18,255 21,370 32,394 29,029 29,117 40,377 -1 101,296 2005 Total 8,6,904 \$21,683 \$4,066 \$18,394 \$20,557 \$43,1367 \$27,748 \$727,831 39,978 (s) 99,275 2005 Total \$6,603 \$721,048 \$4,004 \$74,7881 \$74,861 \$72,857 \$74,1367 \$72,748 \$72,748 \$72,7631 39,978 (s) 99,275 2005 Total \$6,603 \$721,048 \$4,004 \$74,7881 \$74,861 \$74	2003 Total											
2000 Total 6,688 20,688 3,747 17,711 21,536 32,401 28,751 28,830 39,428 (s) 99,629 2007 Total 6,6598 21,531 3,932 18,255 21,370 32,394 29,029 29,117 40,377 -1 101,296 2008 Total 8,6,603 *21,048 *4,044 *47,881 *18,810 *78,257 *8,31,367 *8,27,085 *8,39,78 (s) 99,275 2009 Total 8,6,603 *21,048 *4,044 *47,881 *18,810 *78,252 *8,27,025 *8,27,108 *38,077 (s) 99,4559 2010 January 8,159 *2,267 *8,262 *8,27,265 *8,27,108 *38,077 (s) 99,4559 2010 January 8,159 *8,262 *8,247 *8,543 *8,1581 *8	2004 Total											
2007 Total 6,598 21,531 3,922 18,255 21,370 32,394 29,029 29,117 40,377 -1 101,296 2008 Total 6,604 71,683 74,046 74,7881 74,881												
2008 Total R 6,904 R 21,683 R 4,086 R 18,394 R 20,557 R 31,307 R 27,748 R 27,831 39,978 (s) 94,559 2010 January R 1,139 R 2,687 R 612 R 1,747 R 1,722 R 2,514 R 2,199 R 2,207 3,484 4 9,160 2010 January R 1962 R 2,247 R 543 R 1,5816 R 1,626 R 2,399 R 2,013 R 2,020 3,073 1 8,238 2011 January R 438 R 1,346 R 2,75 R 1,305 R 1,644 R 2,455 R 2,236 R 2,296 2,755 -2 7,397 2012 June R 266 R 1,656 R 1,966 R 1,636 R 2,555 R 2,234 R 2,332 3,611 2 8,034 2014 July R 239 R 1,888 R 1,881 R 1,644 R 1,646 R 2,550 R 2,333 R 2,332 3,611 2 8,034 2015 July R 2,296 R 2,297 R 1,888 R 1,880 R 1,634 R 1,626 R 2,555 R 2,236 R 2,332 3,611 2 8,034 2016 July R 2,296 R 1,895 R 1,896 R 1,896 R 1,799 R 1,634 R 2,543 R 2,325 R 2,332 3,611 2 8,034 2017 July R 2,296 R 1,895 R 1,896 R 1,896 R 1,799 R 1,634 R 2,543 R 2,325 R 2,332 3,611 2 8,034 2018 July R 2,296 R 1,895 R 1,896 R 1,896 R 1,799 R 2,666 R 2,406 R 2,412 3,917 3 8,470 2019 December R 2,366 R 1,493 R 1,877 R 1,389 R 1,689 R 2,500 R 2,301 R 2,307 3,306 (s) R 7,119 2010 July R 2,266 R 2,406 R 2,412 3,917 3 8,470 2011 January R 1,165 R 2,473 R 8,75 R 1,756 R 1,856 R 2,206 R 2,2412 3,917 3 8,470 2011 January R 1,656 R 2,473 R 8,75 R 1,756 R 1,856 R 2,207 R 2,327 3,488 1 3,260 2011 January R 1,656 R 2,674 R 6,034 R 1,848 R 1,843 R 1,841 R 2,675 R 2,231 R 2,238 2,944 -1 7,825 2011 January R 1,656 R 2,674 R 6,004 R 1,864 R 2,683 R 2,547 R 2,275 R 2,337 R 2,337 R 2,337 R 2,337 R 2,338 R 2,341 R 2,442 R 2,												
2001 January R 1,39 R 2,687 R 6,603 R 2,1048 R 4,044 R 1,7881 R 1,8810 R 2,522 R 27,025 R 27,108 38,077 (s) 94,559 2010 January R 1,39 R 2,687 R 612 R 1,787 R 1,782 R 2,514 R 2,199 R 2,207 3,484 4 9,160 February R 982 R 2,247 R 6,543 R 1,581 R 1,666 R 2,389 R 2,013 R 2,002 3,073 1 8,238 March R 735 R 1,885 R 416 R 1,666 R 1,772 R 2,577 R 2,301 R 2,308 3,008 -1 8,231 April R 438 R 1,346 R 275 R 1,305 R 1,644 R 2,455 R 2,255 R 2,354 R 2,361 3,163 -1 7,704 June R 266 R 1,655 R 1,646 R 1,654 R 1,654 R 2,555 R 2,325 R 2,332 3,611 2 8,004 July R 239 R 1,888 R 1,844 R 1,646 R 2,550 R 2,406 R 2,413 3,831 4 8,409 August R 2,39 R 1,888 R 1,844 R 1,646 R 2,550 R 2,406 R 2,413 3,831 4 8,409 August R 2,39 R 1,888 R 1,844 R 1,646 R 2,550 R 2,344 R 2,411 3,831 4 8,409 August R 2,341 R 1,329 R 2,533 R 1,362 R 1,666 R 2,056 R 2,448 R 2,241 2,042 -1 7,535 December R 3,411 R 1,329 R 2,533 R 1,362 R 1,666 R 2,056 R 2,434 R 2,241 2,042 -1 7,535 December R 1,051 R 2,473 R 6,55 R 1,566 R 1,866 R 2,056 R 2,343 R 2,241 2,042 -1 7,535 December R 1,051 R 2,473 R 6,55 R 1,566 R 1,866 R 2,206 R 2,248 R 2,227 3,488 1 9,260 Total R 1,655 R 2,473 R 6,55 R 1,566 R 1,666 R 2,066 R 2,244 R 2,247 2,385 -1 7,546 March R 4,66 R 4,64 R 1,669 R 2,360 R 2,444 R 2,441 R 2,660 R 2,444 R 2,660 R 2,444 R 2,660 R 2,444 R 2,660 R 2,444 R 2,660 R 2,446 R 2,460		R 6 904	R 21,531	3,922 R 4 086	R 18 304	R 20 557	32,394 R 31 367	R 27 748				
Personary		R 6.603	R 21.048	R 4.044	R 17.881	R 18.810		R 27.025				
February		*	•	,	•					,		•
March	2010 January				R 1,747							
April R438 R1,346 R275 R1,305 R1,644 R2455 R228 R2295 2,755 -2 7,397 May R327 R1,384 R224 R1,408 R1,636 R2,555 R2,364 R2,361 3,163 -1 7,704 June R266 R1,658 R196 R1,499 1,634 2,543 R2,325 R2,332 3,611 2 8,034 July R239 R1,888 R190 R1,544 R1,646 R2,656 R2,406 R2,413 3,917 3 8,470 September R231 R1,854 R184 R1,545 R1,729 R2,656 R2,406 R2,412 3,917 3 8,470 October R236 R4,493 R187 R1,389 R1,689 R2,530 R2,301 R2,301 R2,307 3,306 (s) 7,719 October R341 R1,329 R253 R1,362 R1,689 R2,505 R2,334 R2,341 2,942 -1 7,535 December R598 R1,595 R361 R1,448 R1,689 R2,505 R2,334 R2,341 2,942 -1 7,535 December R1,051 R2,473 R575 R1,756 R1,836 R2,704 R2,320 R2,327 3,488 1 9,260 December R1,051 R2,473 R575 R1,756 R1,826 R2,704 R2,320 R2,327 3,488 1 9,260 Total R6,581 R2,1840 R4,004 R18,044 R20,283 R30,530 R2,704 R2,220 R2,527 3,488 1 9,260 2011 January R1,165 R2,674 R633 R1,538 R1,623 R2,675 R2,218 R2,221 R2,227 R8,9627 R8 R9,46 R2,616 R528 R1,538 R1,538 R1,623 R2,546 R2,231 R2,244 R2,245 R2,231 R3,640 R3,640 R2,461 R2,46	February				K 1,581	K 1,626	K 2,389		K 2,020			
May						R1,772			R 2,308			
June R 266 R 1,658 R 196 R 1,499 1,634 2,543 R 2,325 R 2,332 3,611 2 8,034 July R 239 R 1,888 R 180 R 1,544 R 1,646 R 2,640 R 2,413 3,934 4 8,409 August R 231 R 1,854 R 184 R 1,545 R 1,729 R 2,656 R 2,406 R 2,413 3,934 3 8,470 September R 236 R 1,493 R 187 R 1,854 R 184 R 1,545 R 1,729 R 2,656 R 2,406 R 2,413 3,937 3 8,470 September R 236 R 1,493 R 187 R 1,855 R 1,652 R 1,668 R 2,500 R 2,301 R 2,307 3,306 (s) 7,719 October R 341 R 1,329 R 253 R 1,362 R 1,666 R 2,505 R 2,331 R 2,341 2,942 -1 7,535 November R 1,051 R 2,473 R 575 R 1,756 R 1,826 R 2,704 R 2,320 R 2,337 3,488 1 9,260 December R 1,051 R 2,473 R 575 R 1,756 R 1,826 R 2,704 R 2,320 R 2,337 3,488 1 9,260 Total R 2,473 R 2,473 R 4,004 R 18,044 R 20,283 R 30,530 R 27,479 R 27,561 39,627 8 97,982 C 2011 January R 1,165 R 2,674 R 633 R 1,759 R 1,841 R 2,675 R 2,218 R 2,225 3,477 3 9,937 F 20,004 R 2,300 R 2,004 R 2,004 R 2,300 R 2,004												
July R 239 R 1,888 R 180 R 1,544 R 1,646 R 2,560 R 2,406 R 2,413 3,934 4 8,409 August R 231 R 1,854 R 1,846 R 1,545 R 1,729 R 2,666 R 2,406 R 2,412 3,917 3 8,470 September R 236 R 1,493 R 187 R 1,389 R 1,689 R 2,530 R 2,301 R 2,307 3,306 (s) 7,719 C 1,755 C 1,755 C 1,756 R 1,448 R 1,645 R 2,505 R 2,344 R 2,942 -1 7,555 C 1,756 R 1,856 R 1,448 R 1,693 R 2,545 R 2,234 R 2,344 R 2,942 -1 7,525 C 1,756 R 1,448 R 1,693 R 2,545 R 2,234 R 2,348 R 2,944 -1 7,825 C 1,756 R 1,051 R 2,473 R 5,755 R 1,756 R 1,826 R 2,704 R 2,320 R 2,327 3,488 1 9,260 C 1,756 R 1,051 R 2,473 R 1,552 R 1,756 R 1,826 R 2,704 R 2,320 R 2,327 3,488 1 9,260 C 1,758 R 1,759 R 1,756 R 1,826 R 2,704 R 2,320 R 2,327 3,488 1 9,260 C 1,758 R 1,759 R 1,756 R 1,826 R 2,744 R 2,320 R 2,327 3,488 1 9,260 C 1,758 R 1,759 R 1,756 R 1,826 R 2,744 R 2,320 R 2,327 3,488 1 9,260 C 1,758 R 1,759 R 1,756 R 1,826 R 2,744 R 2,320 R 2,327 3,488 1 9,260 C 1,758 R 1,759 R 1,756 R 1,826 R 2,744 R 2,320 R 2,327 3,488 1 9,260 C 1,758 R 1,759 R 1,756 R 1,826 R 2,744 R 2,320 R 2,327 3,488 1 9,260 R 2,341 R 2,320 R 2,327 3,488 1 1 9,260 C 1,758 R 1,759 R 1,756 R 1,826 R 2,746 R 2,247 2,835 R 2,366 R 2,041 R 2,320 R 2,331 3,069 R 2,331 3,069 R 2,341 R 2,320 R 2,341 R 2,320 R 2,321 R 2,320 R												
August R 231 R 1,854 R 184 R 1,545 R 1,759 R 1,639 R 2,530 R 2,301 R 2,307 3,306 (s) 7,719 October R 341 R 1,329 R 2,53 R 1,362 R 1,666 R 2,505 R 2,334 R 2,341 2,942 -1 7,535 November R 598 R 1,595 R 361 R 1,448 R 1,693 R 2,545 R 2,231 R 2,328 2,944 -1 7,535 December R 1,051 R 2,473 R 5,75 R 1,756 R 1,826 R 2,704 R 2,320 R 2,327 3,488 1 9,260 Total R 6,681 R 2,640 R 4,004 R 18,004 R 20,283 R 30,530 R 27,479 R 27,561 39,627 8 97,982 R 1,300 R 2,300 R 2,300 R 2,327 3,488 R 1,926 R 2,004 R 2,300 R 2,327 3,488 R 1,926 R 2,004 R 2,300 R 2,327 3,488 R 1,926 R 2,004		R 239	R 1,888	R 180	R 1.544	R 1.646	R 2,560		R 2.413			
September R 236 R 1,493 R 187 R 1,389 R 1,689 R 2,530 R 2,301 R 2,307 3,306 (s) 7,719 October R 341 R 1,329 R 253 R 1,362 R 1,668 R 2,505 R 2,234 R 2,334 R 2,341 2,942 -1 7,535 November R 1,595 R 361 R 1,448 R 1,693 R 2,545 R 2,231 R 2,238 2,944 -1 7,825 December R 1,051 R 2,473 R 575 R 1,756 R 1,826 R 1,826 R 2,704 R 2,230 R 2,320 R 2,327 3,488 1 9,260 Total R 2,473 R 575 R 1,756 R 1,848 R 1,693 R 2,545 R 2,231 R 2,238 2,944 -1 7,825 Total R 2,473 R 2,764 R 6,33 R 1,759 R 1,841 R 2,675 R 2,218 R 2,225 3,477 3 9,337 February R 9,45 R 2,161 R 528 R 1,538 R 1,623 R 2,366 R 2,041 R 2,048 3,006 (s) 8,143 March R 7,64 R 1,866 R 447 R 1,542 R 1,810 R 2,673 R 2,208 R 2,230 R 2,306 R 2,313 3,069 -2 R 3,933 April R 476 R 1,462 R 2,97 R 1,354 R 1,639 R 2,485 R 2,240 R 2,247 2,895 -1 7,546 May R 327 R 1,382 R 220 R 1,382 R 1,649 R 2,529 R 2,323 R 2,330 3,523 2 7,934 July R 238 R 1,911 R 188 R 1,462 R 1,629 R 2,529 R 2,323 R 2,330 3,523 2 7,934 July R 238 R 1,911 R 188 R 1,571 R 1,639 R 2,559 R 2,230 R 2,347 4,008 6 R 3,417 August R 2,47 R 1,848 R 203 R 1,571 R 1,639 R 2,559 R 2,237 R 2,237 3,883 5 8,439 September R 2,58 R 1,474 R 2,09 R 1,379 R 1,654 R 2,497 R 2,238 R 2,244 3,234 (s) 7,594 November R 5,678 R 1,575 R 3,66 R 1,431 R 1,754 2,610 R 2,127 2,129 R 2,229 R 3,210 R 2,237 3,215 R 2,296 -2 7,617 November R 5,678 R 1,575 R 3,66 R 1,431 R 1,754 2,610 R 2,195 R 2,201 2,916 -2 7,816 December R 8,76 R 1,575 R 3,66 R 1,431 R 1,754 2,610 R 2,195 R 2,201 2,916 -2 7,816 December R 5,678 R 1,575 R 3,66 R 1,431 R 1,754 2,610 R 2,195 R 2,201 2,916 -2 7,816 December R 5,678 R 1,575 R 3,66 R 1,431 R 1,754 2,610 R 2,195 R 2,201 2,916 -2 7,816 December R 5,678 R 1,575 R 3,66 R 1,431 R 1,754 2,610 R 2,195 R 2,201 2,916 -2 7,816 December R 5,618 R 21,430 R 4,069 R 1,438 R 1,633 R 2,545 R 2,238 R 2,244 3,234 (s) 7,594 December R 5,578 R 1,557 R 3,66 R 1,534 R 1,633 R 2,555 R 2,201 2,215 2,270 -5 7,296 December R 5,588 R 1,941 R 4,79 R 1,438 R 1,633 R 2,555 R 2,201 2,215 2,270 -5 7,296 December R 5,588 R 1,444 R 1,894 R 1,497 R 1,417	August	^R 231	R 1,854	^R 184	R 1,545	R 1,729	R 2,656	R 2,406	^R 2,412			
November	September	R 236	R 1,493	^R 187	^R 1,389	R 1,689	R 2,530		R 2,307			
December			R 1,329	R 253	R 1,362	R 1,666	R 2,505		R 2,341			
Total R 6,581 R 21,840 R 4,004 R 18,044 R 20,283 R 30,530 R 27,779 R 27,561 39,627 8 97,982 2011 January R 1,165 R 2,674 R 633 R 1,759 R 1,841 R 2,675 R 2,218 R 2,225 3,477 3 9,337 February R 945 R 1,866 R 447 R 1,528 R 1,538 R 1,623 R 2,396 R 2,041 R 2,048 3,006 (s) 8,393 April R 476 R 1,862 R 2,97 R 1,354 R 1,639 R 2,485 R 2,240 R 2,247 2,895 -1 7,546 May R 327 R 1,382 R 2,020 R 1,382 R 1,647 R 2,533 R 2,316 R 2,330 3,523 2 7,934 July R 238 R 1,610 R 1,86 R 1,629 R 2,529 R 2,323 3,111 -1 7,620 June R 260 R 1,618 R 1,671 R 1,639 R 2,582 R 2,330 3,523 2			^K 1,595	^ 361	^R 1,448	^K 1,693	^K 2,545					
February		R 6,581	R 21,840		R 18,044	R 20,283						
February	2011 January	R 1.165	R 2.674	R 633	R 1.759	R 1.841	R 2.675	R 2.218	R 2.225	3.477	3	9.337
March		R 945	R 2,161	R 528	R 1,538	R 1,623	R 2,396	R 2,041	R 2,048			
May R 327 R 1,382 R 220 R 1,382 R 1,647 R 2,533 R 2,316 R 2,323 3,111 -1 7,620 June R 260 R 1,610 R 196 R 1,462 R 1,629 R 2,529 R 2,323 R 2,330 3,523 2 7,934 July R 238 R 1,911 R 186 R 1,571 R 1,639 R 2,582 R 2,340 R 2,347 4,008 6 R 4,417 August R 247 R 1,848 R 203 R 1,551 R 1,731 R 2,659 R 2,370 R 2,377 3,883 5 8,439 September R 258 R 1,474 R 209 R 1,379 R 1,654 R 2,497 R 2,238 R 2,244 3,234 (s) 7,594 October R 376 R 1,349 R 284 R 1,401 R 1,719 R 2,586 R 2,276 R 2,282 2,963 -2 7,617 November R 587 R 1,575 R 366 R 1,431 R 1,754 2,610 R 2,195 R 2,201 2,916 -2 7,816 December R 876 R 2,115 R 501 R 1,618 R 1,750 R 2,601 R 2,272 R 2,279 3,215 -1 8,612 Total R 6,518 R 21,430 R 4,069 R 17,988 R 20,436 R 30,826 R 27,136 R 27,216 39,301 7 97,467 Pebruary R 838 R 1,941 R 479 R 1,497 R 1,711 R 2,506 R 2,086 R 2,093 2,922 -2 8,035 March R 566 R 1,584 R 342 R 1,389 R 1,689 R 2,520 R 2,234 R 2,240 2,903 -5 7,729 April R 418 R 1,323 R 274 R 1,307 R 1,630 R 2,456 R 2,209 R 2,215 2,770 -5 7,296 May R 303 R 1,385 R 214 R 1,399 R 1,688 R 2,456 R 2,209 R 2,215 2,770 -5 7,296 May R 303 R 1,385 R 214 R 1,399 R 1,686 R 2,550 R 2,204 3,429 1 7,792 July R 244 R 1,894 R 187 R 1,555 R 1,663 R 2,589 R 2,309 R 2,316 3,951 5 3,800 August R 252 R 1,776 R 206 R 1,521 R 1,755 R 2,660 R 2,588 R 2,365 3,750 3 R 3,826 R 2,594 R 2,240 R 2,309 R 2,316 3,951 5 3,800 August R 252 R 1,776 R 206 R 1,521 R 1,755 R 2,560 R 2,388 R 2,344 3,429 1 7,792 July R 244 R 1,894 R 187 R 1,555 R 1,663 R 2,589 R 2,309 R 2,316 3,951 5 3,800 August R 252 R 1,776 R 206 R 1,521 R 1,775 R 2,550 R 2,355 2,255 2,966 -2 R 7,614 October R 381 R 1,367 R 276 R 1,388 R 1,555 R 1,663 R 2,559 R 2,550 R 2,248 R 2,255 2,966 -2 R 7,614 October R 381 R 1,367 R 276 R 1,388 R 1,755 R 2,550 R 2,550 R 2,159 2,165 2,907 2 R 7,808 December R 233 2,053 472 1,555 1,775 2,668 2,149 2,155 2,149 2,156 3,170 3 8,402				R 447	R 1,542	^R 1,810	R 2,673					
June R 260 R 1,610 R 196 R 1,462 R 1,629 R 2,529 R 2,323 R 2,330 3,523 2 7,934 July R 238 R 1,911 R 186 R 1,571 R 1,639 R 2,582 R 2,340 R 2,347 4,008 6 8,417 August R 247 R 1,848 R 203 R 1,551 R 1,731 R 2,659 R 2,370 R 2,377 3,883 5 8,439 September R 258 R 1,474 R 209 R 1,379 R 1,654 R 2,497 R 2,238 R 2,244 3,234 (s) 7,594 October R 376 R 1,349 R 284 R 1,401 R 1,719 R 2,586 R 2,276 R 2,282 2,963 -2 7,617 November R 5876 R 1,575 R 366 R 1,431 R 1,779 R 2,586 R 2,276 R 2,282 2,963 -2 7,816 December R 876 R 2,1430 R 4,669 R 1,618 R 1,775 R 2,601 R 2,195		R 476										
July R238 R1,911 R186 R1,571 R1,639 R2,582 R2,340 R2,347 4,008 6 8,417 August R247 R1,848 R203 R1,551 R1,731 R2,659 R2,370 R2,377 3,883 5 8,439 R2,681 R2,68		K 327				K 1,647			K 2,323			
August R 247 R 1,848 R 203 R 1,551 R 1,731 R 2,659 R 2,370 R 2,377 3,883 5 8,439 September R 258 R 1,474 R 209 R 1,379 R 1,654 R 2,497 R 2,238 R 2,244 3,234 (s) 7,594 October R 376 R 1,349 R 284 R 1,401 R 1,779 R 2,586 R 2,276 R 2,282 2,963 -2 7,617 November R 587 R 1,575 R 366 R 1,431 R 1,754 2,610 R 2,195 R 2,201 2,916 -2 7,816 December R 876 R 2,115 R 501 R 1,618 R 1,750 R 2,601 R 2,727 R 2,201 2,916 -2 7,816 December R 6,518 R 2,1430 R 4,069 R 17,988 R 20,436 R 30,826 R 27,136 R 2,7276 3,215 -1 8,612 Total R 6,518 R 2,306 R 553 R 1,646 R 1,814 R 2,633 R 2,		N 260	N 1,610	1196 R 496	1,462 R 1 571	R 1,629	R 2,529		R 2,330			
September R 258 R 1,474 R 209 R 1,379 R 1,654 R 2,497 R 2,238 R 2,244 3,234 (s) 7,594 October R 376 R 1,349 R 284 R 1,401 R 1,719 R 2,586 R 2,276 R 2,282 2,963 -2 7,617 November R 587 R 1,575 R 366 R 1,431 R 1,750 R 2,610 R 2,195 R 2,201 2,916 -2 7,816 December R 876 R 2,115 R 501 R 1,618 R 1,750 R 2,601 R 2,272 R 2,279 3,215 -1 8,612 Total R 6,518 R 21,430 R 4,069 R 17,988 R 2,046 R 30,826 R 27,136 R 2,726 39,301 7 97,467 2012 January R 995 R 2,306 R 553 R 1,646 R 1,814 R 2,633 R 2,139 3,230 (s) R 8,724 February R 838 R 1,941 R 479 R 1,497 R 1,497 R 1,711 R 2,506			R 1 848	R 203	R 1 551	R 1 731			R 2 377			
October R 376 R 1,349 R 284 R 1,401 R 1,719 R 2,586 R 2,276 R 2,282 2,963 -2 7,617 November R 587 R 1,575 R 366 R 1,431 R 1,754 2,610 R 2,195 R 2,201 2,916 -2 7,816 December R 876 R 2,115 R 501 R 1,618 R 1,750 R 2,601 R 2,272 R 2,279 3,215 -1 8,612 Total R 6,518 R 21,430 R 4,069 R 17,988 R 20,436 R 30,826 R 27,136 R 2,7216 39,301 7 97,467 2012 January R 995 R 2,306 R 553 R 1,646 R 1,814 R 2,633 R 2,132 R 2,139 3,230 (s) R 8,724 February R 838 R 1,941 R 479 R 1,497 R 1,711 R 2,506 R 2,086 R 2,093 2,922 -2 8,035 March R 566 R 1,584 R 342 R 1,389 R 1,689 R 2,520		R 258		R 209	R 1 379	R 1 654						
November R 587 R 1,575 R 366 R 1,431 R 1,754 2,610 R 2,195 R 2,201 2,916 -2 7,816 December R 876 R 2,115 R 501 R 1,618 R 1,750 R 2,601 R 2,272 R 2,279 3,215 -1 8,612 Total R 6,518 R 21,430 R 4,069 R 17,988 R 20,436 R 30,826 R 27,136 R 27,216 39,301 7 97,467 2012 January R 995 R 2,306 R 553 R 1,646 R 1,814 R 2,633 R 2,132 R 2,139 3,230 (s) R 8,724 February R 838 R 1,941 R 479 R 1,497 R 1,497 R 1,711 R 2,506 R 2,086 R 2,093 2,922 -2 8,035 March R 566 R 1,584 R 342 R 1,389 R 1,689 R 2,520 R 2,234 R 2,240 2,903 -5 7,729 April R 418 R 1,323 R 274 R 1,307 R 1,630 <td></td> <td>R 376</td> <td>R 1.349</td> <td>^R 284</td> <td>R 1,401</td> <td>R 1.719</td> <td>R 2.586</td> <td>R 2,276</td> <td>R 2.282</td> <td></td> <td>-2</td> <td></td>		R 376	R 1.349	^R 284	R 1,401	R 1.719	R 2.586	R 2,276	R 2.282		-2	
December		R 587	R 1,575	R 366	R 1.431	^R 1,754	2.610	^R 2,195	R 2,201		-2	
Total K 6,518 K 21,430 K 4,069 K 17,988 K 20,436 K 30,826 K 27,136 K 27,216 39,301 7 97,467 2012 January R 995 R 2,306 R 553 R 1,646 R 1,814 R 2,633 R 2,132 R 2,139 3,230 (s) R 8,724 February R 838 R 1,941 R 479 R 1,497 K 1,711 R 2,506 R 2,086 R 2,093 2,922 -2 8,035 March R 566 R 1,584 R 342 R 1,389 R 1,689 R 2,520 R 2,234 R 2,240 2,903 -5 7,729 April R 418 R 1,383 R 214 R 1,399 R 1,686 R 2,594 R 2,307 R 2,314 3,181 -2 R 7,690 June R 257 R 1,557 R 195 R 1,438 R 1,633 R 2,512 R 2,307 R 2,314 3,181 -2 R 7,690 July R 257 R 1,557 R 195 R 1,438 R 1,633 R 2,512 R 2,		R 876		^R 501	R 1,618	R 1,750	R 2,601	R 2,272	R 2,279			
February R 838 R 1,941 R 479 R 1,497 R 1,711 R 2,506 R 2,086 R 2,093 2,922 -2 8,035 March R 566 R 1,584 R 342 R 1,389 R 1,689 R 2,520 R 2,234 R 2,240 2,903 -5 7,729 April R 418 R 1,323 R 274 R 1,307 R 1,630 R 2,456 R 2,209 R 2,215 2,770 -5 7,296 May R 303 R 1,385 R 214 R 1,399 R 1,686 R 2,594 R 2,307 R 2,314 3,181 -2 R 7,690 June R 257 R 1,557 R 195 R 1,438 R 1,633 R 2,512 R 2,277 R 2,284 3,429 1 7,792 July R 244 R 1,894 R 187 R 1,555 R 1,663 R 2,589 R 2,309 R 2,316 3,951 5 8,360 August R 252 R 1,776 R 206 R 1,551 R 1,713 R 2,615 R 2,358 R 2,3	Total	^R 6,518	R 21,430	^R 4,069	R 17,988	R 20,436	R 30,826	R 27,136	R 27,216	39,301	7	97,467
February R 838 R 1,941 R 479 R 1,497 R 1,711 R 2,506 R 2,086 R 2,093 2,922 -2 8,035 March R 566 R 1,584 R 342 R 1,389 R 1,689 R 2,520 R 2,234 R 2,240 2,903 -5 7,729 April R 418 R 1,323 R 274 R 1,307 R 1,630 R 2,456 R 2,209 R 2,215 2,770 -5 7,296 May R 303 R 1,385 R 214 R 1,399 R 1,686 R 2,594 R 2,307 R 2,314 3,181 -2 R 7,690 June R 257 R 1,557 R 195 R 1,438 R 1,633 R 2,512 R 2,277 R 2,284 3,429 1 7,792 July R 244 R 1,894 R 187 R 1,555 R 1,663 R 2,589 R 2,309 R 2,316 3,951 5 8,360 August R 252 R 1,776 R 206 R 1,551 R 1,713 R 2,615 R 2,358 R 2,3	2012 January					R 1,814	R 2,633		R 2,139	3,230	(s)	R 8,724
March R 566 R 1,584 R 342 R 1,389 R 1,689 R 2,520 R 2,234 R 2,240 2,903 -5 7,729 April R 418 R 1,323 R 274 R 1,307 R 1,630 R 2,456 R 2,209 R 2,215 2,770 -5 7,296 May R 303 R 1,385 R 214 R 1,399 R 1,686 R 2,594 R 2,307 R 2,314 3,181 -2 R 7,690 June R 257 R 1,557 R 195 R 1,438 R 1,633 R 2,512 R 2,277 R 2,284 3,429 1 7,792 July R 244 R 1,894 R 187 R 1,555 R 1,663 R 2,589 R 2,316 3,951 5 8,360 August R 252 R 1,776 R 206 R 1,521 R 1,713 R 2,615 R 2,365 3,750 3 R 8,281 September R 252 R 1,443 R 202 R 1,366 R 1,625 R 2,440 R 2,155 R 2,161 3,175 1 <td>February</td> <td>^R 838</td> <td></td> <td></td> <td>^R 1,497</td> <td>R 1.711</td> <td>^R 2,506</td> <td>R 2,086</td> <td>R 2,093</td> <td>2,922</td> <td>-2</td> <td></td>	February	^R 838			^R 1,497	R 1.711	^R 2,506	R 2,086	R 2,093	2,922	-2	
May R 303 R 1,385 R 214 R 1,399 R 1,686 R 2,594 R 2,307 R 2,314 3,181 -2 R 7,690 June R 257 R 1,557 R 195 R 1,438 R 1,633 R 2,512 R 2,277 R 2,284 3,429 1 7,792 July R 244 R 1,894 R 1,875 R 1,555 R 1,663 R 2,589 R 2,309 R 2,316 3,951 5 8,360 August R 252 R 1,776 R 206 R 1,521 R 1,713 R 2,615 R 2,358 R 2,365 3,750 3 R 8,281 September R 252 R 1,443 R 202 R 1,366 R 1,625 R 2,440 R 2,155 R 2,161 3,175 1 R 7,411 October R 381 R 1,637 R 276 R 1,398 R 1,755 R 2,597 R 2,248 R 2,255 2,956 -2 R 7,614 November R 631 R 1,643 R 380 R 1,448 R 1,729 R 2,550 2,159	March				R 1,389	R 1,689	R 2,520		R 2,240		-5	
June R 257 R 1,557 R 195 R 1,438 R 1,633 R 2,512 R 2,277 R 2,284 3,429 1 7,792 July R 244 R 1,894 R 187 R 1,555 R 1,663 R 2,589 R 2,309 R 2,316 3,951 5 8,360 August R 252 R 1,776 R 206 R 1,521 R 1,713 R 2,615 R 2,358 R 2,365 3,750 3 R 2,8281 September R 252 R 1,443 R 202 R 1,366 R 1,625 R 2,440 R 2,155 R 2,161 3,175 1 R 7,411 October R 381 R 1,367 R 276 R 1,398 R 1,755 R 2,597 R 2,248 R 2,255 2,956 -2 R 7,614 November R 631 R 1,643 R 380 R 1,448 R 1,729 R 2,550 2,159 2,165 2,907 2 R 7,808 December 8 33 2,053 472 1,582 1,775 2,608 2,149 2,156 </td <td></td> <td></td> <td></td> <td></td> <td>R 1,307</td> <td>R 1,630</td> <td>R 2,456</td> <td></td> <td>R 2,215</td> <td></td> <td></td> <td></td>					R 1,307	R 1,630	R 2,456		R 2,215			
July R 244 R 1,894 R 187 R 1,555 R 1,663 R 2,589 R 2,309 R 2,316 3,951 5 8,360 August R 252 R 1,776 R 206 R 1,521 R 1,713 R 2,615 R 2,365 3,750 3 R 8,281 September R 252 R 1,443 R 202 R 1,366 R 1,625 R 2,440 R 2,155 R 2,161 3,175 1 R 7,411 October R 381 R 1,367 R 276 R 1,398 R 1,755 R 2,597 R 2,248 R 2,255 2,966 -2 R 7,614 November R 631 R 1,643 R 380 R 1,448 R 1,729 R 2,550 2,159 2,165 2,907 2 R 7,808 December 8 33 2,053 472 1,582 1,775 2,608 2,149 2,156 3,170 3 8,402		^ 303 R 257	^ 1,385	^ 214 R 405	^R 1,399	ⁿ 1,686	^R 2,594	^r 2,307	^R 2,314			
August R 252 R 1,776 R 206 R 1,521 R 1,713 R 2,615 R 2,358 R 2,365 3,750 3 R 8,281 September R 252 R 1,443 R 202 R 1,366 R 1,625 R 2,440 R 2,155 R 2,161 3,175 1 R 7,411 October R 381 R 1,367 R 276 R 1,398 R 1,755 R 2,597 R 2,248 R 2,255 2,956 -2 R 7,614 November R 631 R 1,643 R 380 R 1,488 R 1,729 R 2,550 2,159 2,165 2,907 2 R 7,808 December 8 33 2,053 472 1,582 1,775 2,608 2,149 2,156 3,170 3 8,402	June	257 R 244		``195 R 197	1,438 R 1 555	1,633 R 1 662	"2,512 R 2 580	2,2// R 2 300				
September R 252 R 1,443 R 202 R 1,366 R 1,625 R 2,440 R 2,155 R 2,161 3,175 1 R 7,411 October R 381 R 1,367 R 276 R 1,398 R 1,755 R 2,597 R 2,248 R 2,255 2,956 -2 R 7,614 November R 631 R 1,643 R 380 R 1,448 R 1,729 R 2,550 2,159 2,165 2,907 2 R 7,808 December 8 33 2,053 472 1,582 1,775 2,608 2,149 2,156 3,170 3 8,402					R 1 521		R 2 615		R 2 365			
October R 381 R 1,367 R 276 R 1,398 R 1,755 R 2,597 R 2,248 R 2,255 2,966 -2 R 7,614 November R 631 R 1,643 R 380 R 1,448 R 1,729 R 2,550 2,159 2,165 2,907 2 R 7,808 December 833 2,053 472 1,582 1,775 2,608 2,149 2,156 3,170 3 8,402		R 252	R 1.443	R 202	R 1.366	R 1.625	R 2.440		R 2.161			R 7.411
November		R 381			R 1.398	R 1.755			R 2.255			
December					R 1,448							
Total 5,969 20,266 3,781 17,551 20,423 30,625 26,624 26,702 38,346 -2 95,142	December		2,053	472	1,582	1,775	2,608	2,149	2,156	3,170	3	8,402
	Total	5,969	20,266	3,781	17,551	20,423	30,625	26,624	26,702	38,346	-2	95,142

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.

Sources: Tables 1.3 and 2.2-2.6.

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

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

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

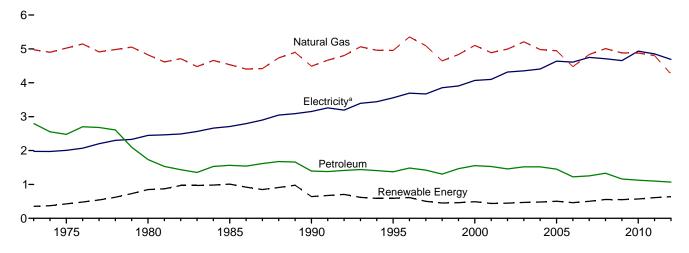
^e See "Primary Energy Consumption" in Glossary.

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

 $^{^{\}rm 9}$ 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,

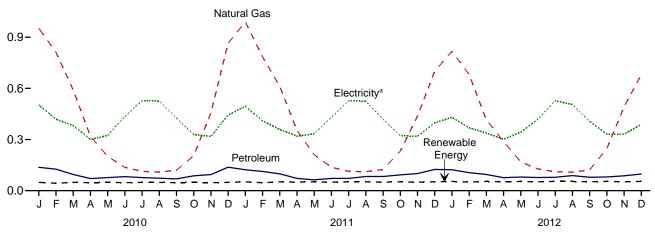
Figure 2.2 Residential Sector Energy Consumption (Quadrillion Btu)

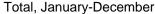
By Major Source, 1973-2012

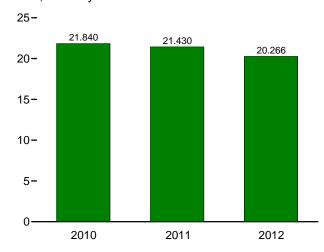


By Major Source, Monthly

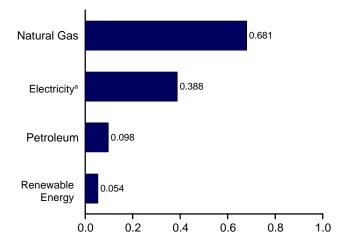








By Major Source, December 2012



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

Table 2.2 Residential Sector Energy Consumption

(Trillion Btu)

				Prima	ry Consum	otiona						
		Fossi	Fuels			Renewal	ole Energy ^b			Electricity	Electrical System	
	Coal	Natural Gas ^c	Petro- leum	Total	Geo- thermal	Solar/ PV	Bio- mass	Total	Total Primary	Retail Sales ^d	Energy Losses ^e	Total
1973 Total	94	4,977	2,800	7,871	NA	NA	354	354	8,225	1,976	4,696	14,897
1975 Total	63	5,023	2,479	7,564	NA	NA	425	425	7,990	2,007	4,817	14,813
1980 Total	31	4,825	1,734	6,589	NA	NA	850	850	7,439	2,448	5,866	15,753
1985 Total	39	4,534	1,565	6,138	NA	NA	1,010	1,010	7,148	2,709	6,184	16,041
1990 Total	31	4,491	1,394	5,916	6	56	580	641	6,557	3,153	7,235	16,945
1995 Total	17	4,954	1,374	6,345	7	64	520	591	6,936	3,557	8,026	18,519
1996 Total	17	5,354	1,484	6,854	7	65	540	612	7,467	3,694	8,344	19,504
1997 Total	16	5,093	1,422	6,531	8	64	430	502	7,033	3,671	8,261	18,965
1998 Total	12	4,646	1,304	5,962	8	64	380	452	6,413	3,856	8,686	18,955
1999 Total 2000 Total 2001 Total	14 11 12 12	4,835 5,105 4,889 4,995	1,465 1,554 1,529 1,457	6,314 6,670 6,430 6,464	9 9 9 10	63 61 59 57	390 420 370 380	461 489 438 448	6,775 7,159 6,868 6,912	3,906 4,069 4,100 4,317	8,875 9,197 9,074 9,562	19,557 20,425 20,042 20,791
2002 Total 2003 Total 2004 Total 2005 Total	12 12 11 8	5,209 4,981 4,946	1,457 1,519 1,520 1,451	6,741 6,513 6,406	13 14 16	57 57 57 58	400 410 430	470 481 504	7,211 6,993 6,909	4,317 4,353 4,408 4,638	9,534 9,690 10.079	21,097 21,092 21,626
2006 Total	6	4,476	1,224	5,706	18	63	380	462	6,168	4,611	9,909	20,688
2007 Total	8	4,835	1,254	6,097	22	70	410	502	6,598	4,750	10,182	21,531
2008 Total	8	5,010	R 1,330	R 6,347	26	80	450	557	^R 6,904	4,708	10,071	R 21,683
2009 Total 2010 January	7 1	4,883 952	R 1,161	R 6,052	33	89 10	430 36	552	R 6,603	4,656 503	9,789 1,045	R 21,048
February	1	811	R 126	R 938	3	9	32	44	R 982	419	846	R 2,247
March	1	591	R 95	R 687	3	10	36	48	R 735	381	768	R 1,885
April	(s)	319	R 71	R 391	3	9	35	47	R 438	300	608	R 1,346
May	(s)	201	R 77	R 278	3	10	36	48	R 327	324	734	R 1,384
June	(s)	137	R 82	R 219	3	9	35	47	R 266	435	956	R 1,658
July	(s)	113	R 77	191	3	10	36	48	R 239	528	1,121	R 1,888
August	(s)	109	R 73	R 182	3	10	36	48	R 231	526	1.098	R 1,854
September	(s)	120	R 69	^R 189	3	9	35	47	^R 236	425	832	R 1,493
October	1	205	R 87	^R 293	3	10	36	48	^R 341	330	658	R 1,329
November	1	456	R 94	^R 551	3	9	35	47	^R 598	318	680	R 1,595
Total	1	865	R 138	R 1,003	3	10	36	48	R 1,051	444	978	R 2,473
	7	4,878	R 1,126	R 6,010	37	114	420	571	R 6,581	4,933	10,326	R 21,840
2011 January February March April	1	989	R 123	R 1,113	3	12	37	52	R 1,165	495	1,015	R 2,674
	1	785	R 113	R 898	3	11	33	47	R 945	410	806	R 2,161
	1	613	R 99	R 712	3	12	37	52	R 764	358	745	R 1,866
	(s)	354	R 72	R 426	3	12	35	50	R 476	320	666	R 1,462
May	(s)	211	^R 64	^R 275	3	12	37	52	R 327	333	722	R 1,382
June	(s)	137	^R 72	^R 210	3	12	35	50	R 260	430	920	R 1,610
July	(s)	113	^R 72	^R 186	3	12	37	52	R 238	528	1,145	R 1,911
August September October	(s) (s) (s)	111 124 232 437	R 83 R 83 R 93 R 100	R 195 R 208 R 325 R 537	3 3 3 3	12 12 12 12	37 35 37 35	52 50 52 50	R 247 R 258 R 376 R 587	525 419 323 318	1,077 798 650 670	R 1,848 R 1,474 R 1,349 R 1,575
November December Total	(s) (s) 5	699 4,804	R 124 R 1,098	R 824 R 5,908	3 40	12 140	37 430	52 610	R 876 R 6,518	397 4,855	842 10,057	R 2,115 R 21,430
2012 January	(s)	818	R 123	R 941	3	14	36	54	R 995	431	881	R 2,306
February	(s)	681	R 106	R 788	3	13	34	51	R 838	368	734	R 1,941
March	(s)	416	R 95	R 511	3	14	36	54	R 566	338	680	R 1,584
April	(s) (s) (s)	289 168 127 111	R 76 R 80 R 77 R 78	R 366 R 249 R 205 R 190	3 3 3 3	14 14 14 14	35 36 35 36	52 54 52 54	R 418 R 303 R 257 R 244	301 343 420 528	603 739 880 1.123	R 1,323 R 1,385 R 1,557 R 1,894
August	(s)	109	R 88	R 197	3	14	36	54	^R 252	505	1,020	R 1,776
September	(s)	R 121	R 78	R 200	3	14	35	52	^R 252	407	784	R 1,443
October	(s)	246	R 80	R 327	3	14	36	54	^R 381	330	656	R 1,367
November	1	^R 491	^R 87	^R 578	3	14	35	52	^R 631	332	680	R 1,643
December	1	681	98	779	3	14	36	54	833	388	832	2,053
Total	4	4,258	1,068	5,329	40	170	430	639	5,969	4,690	9,607	20,266

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

section.

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

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

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

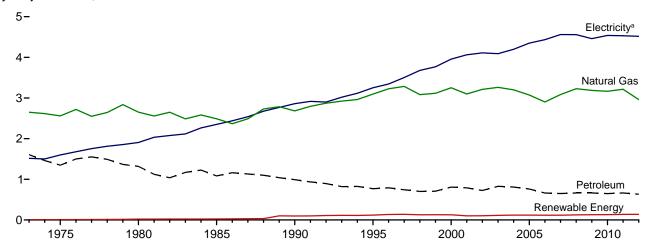
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#consumption for all available data beginning in 1973.

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

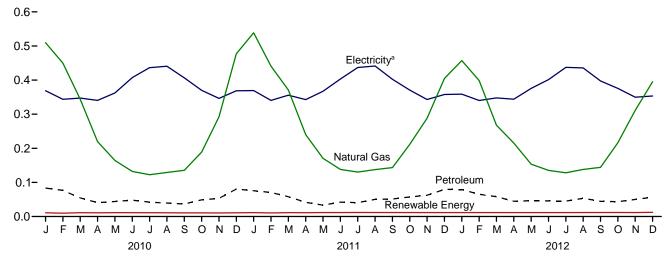
a See "Primary Energy Consumption" in Glossary.
 b Data are estimates. See Table 10.2a for notes on series components.
 c Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 d Electricity retail sales to ultimate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

Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)



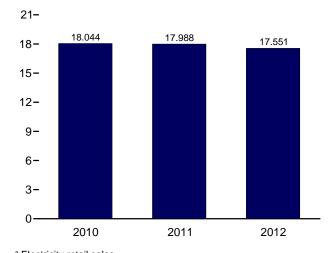


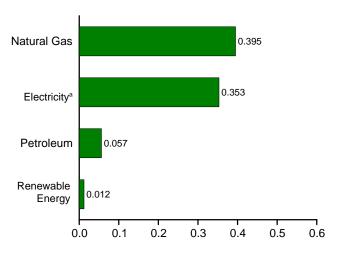
By Major Source, Monthly





By Major Source, December 2012





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

Source: Table 2.3.

^a Electricity retail sales.

Table 2.3 Commercial Sector Energy Consumption

(Trillion Btu)

	11111011 E	•												
		Fossi	l Fuels			Consump R		le Energy	v b					
	Coal	Natural Gas ^c	Petro- leum ^d	Total	Hydro- electric Power ^e	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	Elec- tricity Retail Sales ^f	Electrical System Energy Losses	Total
1973 Total 1975 Total 1980 Total 1980 Total 1985 Total 1990 Total 1995 Total 1995 Total 1997 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	160 147 115 137 124 117 122 129 93 103 92 97 90 82 103 97 65 70 69 64	2,649 2,558 2,651 2,488 2,682 2,682 3,096 3,225 3,083 3,115 3,252 3,097 3,212 3,261 3,073 3,073 2,902 3,085 3,285 3,073	1,607 1,346 1,318 1,083 991 769 790 743 702 707 790 726 827 807 726 827 809 863 649 8 664	4,416 4,051 4,084 3,708 3,798 3,798 4,138 4,157 3,984 4,150 3,984 4,170 4,113 3,932 3,629 3,805 R 3,962 R 3,962 R 3,914	NA N	NA N	NA NA NA (s) (s)	NA NA NA	7 8 21 24 94 113 129 131 118 121 119 92 95 101 105 103 103 103 109 112	7 8 24 98 118 135 138 127 129 128 101 118 118 125 129	4,423 4,059 4,105 3,732 3,896 4,101 4,273 4,095 4,053 4,078 4,084 4,132 4,283 4,283 4,283 4,283 4,283 4,283 4,283 4,051 3,747 3,922 8,4066 R,4044	1,517 1,598 1,906 2,351 2,860 3,252 3,344 3,503 3,678 3,766 4,062 4,110 4,090 4,198 4,351 4,435 4,560 4,558 4,460	3,604 3,835 4,567 5,368 6,564 7,338 7,555 8,557 8,942 8,990 9,104 8,958 9,229 9,455 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 17,137 17,345 17,345 17,857 17,711 18,255 R 18,394 R 17,881
Page 1 Pa	8 7 6 4 4 4 4 4 5 5 6 61	510 450 344 220 164 132 123 129 136 189 292 477 3,165	R 83 R 77 R 55 R 41 R 44 R 42 R 39 R 37 R 49 R 53 R 81	R 601 R 533 R 405 R 264 R 212 R 185 R 169 R 173 R 176 R 242 R 350 R 564	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 8 9 10 9 10 9 9 9 111	11 10 11 11 12 11 11 11 11 11 10 11	R 612 R 543 R 416 R 275 R 224 R 196 R 180 R 184 R 187 R 253 R 361 R 575	369 344 347 340 362 407 436 441 406 370 346 369 4,539	766 694 699 689 822 896 927 920 795 738 741 813 9,501	R 1,747 R 1,581 R 1,462 R 1,305 R 1,498 R 1,499 R 1,544 R 1,545 R 1,389 R 1,362 R 1,448 R 1,756
Pebruary February March March May June July August September October November December Total	7 6 6 4 4 4 3 3 4 4 4 4 5	539 441 371 240 171 138 130 138 143 212 288 405 3,214	R 76 R 70 R 58 R 42 R 33 R 42 R 41 R 50 R 552 R 67 R 62 R 80 R 663	R 621 R 518 R 435 R 286 R 208 R 184 R 175 R 191 R 198 R 272 R 354 R 489	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	10 9 10 9 10 10 10 10 10 10 10 10 10 10	11 10 11 11 12 12 12 12 11 12 R 11 12 R 137	R 633 R 528 R 447 R 297 R 220 R 196 R 186 R 203 R 209 R 284 R 366 R 501 R 4,069	369 340 356 343 367 403 437 441 402 371 343 358 4,531	757 670 740 714 795 863 948 906 767 747 722 759 9,387	R 1,759 R 1,538 R 1,542 R 1,354 R 1,382 R 1,462 R 1,571 R 1,551 R 1,379 R 1,401 R 1,431 R 1,618
Petron July September October November Total	5 4 3 3 3 3 3 2 8 4 8 49	R 457 399 268 215 154 135 128 138 144 216 311 395 2,961	R 79 R 65 R 58 R 45 R 46 R 46 R 45 R 53 R 44 R 50 S7 632	R 541 R 468 R 330 R 263 R 203 R 183 R 176 R 194 R 191 R 264 R 369 460 3,642	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	10 10 10 8 9 10 10 10 10 10 11 11	12 11 12 11 12 11 12 12 11 12 12 12 14	R 553 R 479 R 342 R 274 R 214 R 195 R 187 R 206 R 202 R 276 R 380 472 3,781	359 340 348 344 376 401 437 436 397 376 350 353 4,517	734 678 699 689 810 842 931 880 766 747 718 757 9,252	R 1,646 R 1,497 R 1,389 R 1,307 R 1,399 R 1,438 R 1,555 R 1,521 R 1,366 R 1,398 R 1,448 1,582 17,551

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:

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

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

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

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

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

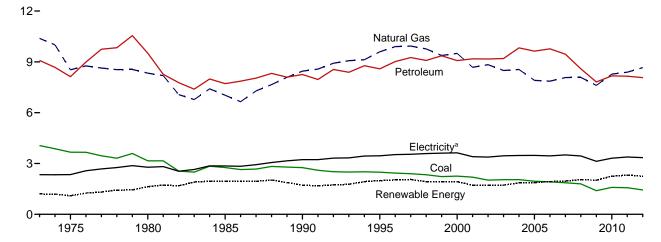
Most data are estimates. See Table 10.2a for notes on series components and estimation.
 Natural gas only; excludes the estimated portion of supplemental gaseous fuels. See Note 3, "Supplemental Gaseous Fuels," at end of Section 4.
 Does not include biofuels that have been blended with petroleum—biofuels are included in "Biomass."
 Conventional hydroelectric power.
 Electricity retail sales to ultimate customers reported by electric utilities and, becoming in 1906, ether congress requires providers.

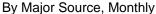
beginning in 1996, other energy service providers.

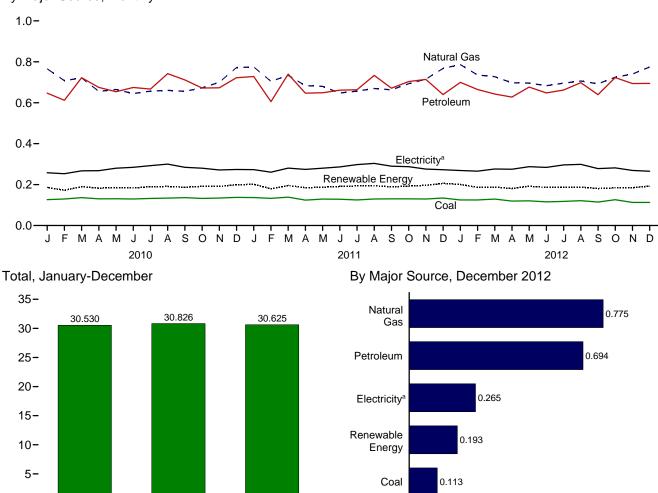
⁹ Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

By Major Source, 1973-2012







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

2011

0.

2010

0.0

0.2

0.4

0.6

8.0

1.0

2012

Table 2.4 Industrial Sector Energy Consumption

(Trillion Btu)

	(11111101	ı Diu)					ı							
					Primar	y Consum	nptiona							
		Fossi	l Fuels			·	Renewabl	e Energy	b			Elec-	Electrical	
	Coal	Natural Gas ^c	Petro- leum ^d	Total ^e	Hydro- electric Power ^f	Geo- thermal	Solar/ PV	Wind	Bio- mass	Total	Total Primary	tricity Retail Sales	System Energy Lossesh	Total ^e
1973 Total 1975 Total 1980 Total 1988 Total 1990 Total 1995 Total 1995 Total 1997 Total 1997 Total 1997 Total 1998 Total 1997 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	4,057 3,667 3,155 2,760 2,488 2,434 2,395 2,227 2,256 2,192 2,019 2,047 1,954 1,954 1,865 1,796 1,396	10,388 8,532 8,333 7,032 8,451 9,592 9,901 9,937 9,763 9,375 9,500 8,676 8,832 8,488 8,550 7,907 7,861 8,073 8,073 7,609	9,083 8,127 9,509 7,714 8,586 9,019 9,255 9,082 9,356 9,178 9,168 9,168 9,163 9,633 9,770 9,451 R 8,588	23,521 20,339 20,962 17,492 19,463 20,727 21,629 21,248 21,016 20,896 20,075 20,079 19,777 20,559 19,538 19,606 19,414 R 18,508 R 16,794	35 32 33 33 31 55 61 58 55 49 42 33 39 43 32 29 17	NA NA 2 3 3 3 4 4 4 5 5 5 4	NA NA NA 	NA NA NA 	1,165 1,063 1,600 1,918 1,684 1,969 1,996 1,872 1,881 1,667 1,679 1,817 1,837 1,897 1,897 2,028	1,200 1,096 1,633 1,951 1,717 1,992 2,057 1,928 1,719 1,720 1,725 1,853 1,873 1,930 2,049 2,049	24,720 21,434 22,595 19,443 21,180 22,719 23,410 23,686 23,177 22,850 22,824 21,799 21,502 22,412 21,411 21,536 21,376 R 20,557 R 18,810	2,341 2,346 2,785 3,226 3,455 3,527 3,587 3,631 3,631 3,454 3,473 3,454 3,477 3,451 3,451 3,451 3,451 3,451	5,562 5,632 6,664 6,518 7,404 7,796 7,968 7,972 8,079 8,203 8,208 7,565 7,484 7,565 7,557 7,415 7,517 7,365 6,582	32,623 29,413 32,039 28,816 31,810 33,971 34,964 34,764 34,664 32,762 32,562 32,562 32,546 32,446 32,401 32,367 8,31,367 8,28,522
Potal Pebruary February March April May June July August September October November December Total	126 130 136 130 131 130 132 134 136 132 134 138 1,590	766 708 722 655 665 645 657 660 656 672 700 772 8,278	R 647 R 612 R 722 R 675 R 654 675 R 667 R 742 R 711 R 672 R 673 R 722	R 1,535 R 1,453 R 1,582 R 1,461 1,451 1,450 R 1,456 R 1,538 R 1,503 R 1,501 R 1,627 R 18,033	2 2 2 2 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	-	185 170 188 181 183 188 190 185 190 190 R 197	187 172 190 183 185 183 190 191 R 186 192 191 199 2,250	R 1,722 R 1,626 R 1,772 R 1,644 R 1,636 I 1,634 R 1,646 R 1,729 R 1,666 R 1,693 R 1,826 R 20,283	258 253 267 268 280 284 292 300 284 280 272 274 3,313	535 511 538 543 635 625 621 626 557 559 581 604 6,934	R 2,514 R 2,389 R 2,577 R 2,455 R 2,552 2,543 R 2,560 R 2,656 R 2,530 R 2,505 R 2,545 R 2,704 R 30,530
2011 January	137 133 139 124 129 128 125 130 130 130 134 1,569	775 705 734 683 680 647 657 669 663 715 768 8,389	R 728 R 605 R 740 R 647 R 649 R 661 R 663 R 733 R 671 R 704 R 714 R 640	R 1,640 R 1,443 R 1,614 R 1,454 R 1,460 R 1,438 R 1,445 R 1,537 R 1,526 R 1,527 R 1,526 R 1,544 R 18,124	1 2 2 2 2 1 1 1 1 1 1 1 1 2 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	200 178 193 183 185 189 192 193 R 187 191 195 204	202 180 196 185 187 191 194 195 189 193 197 206	R 1,841 R 1,623 R 1,810 R 1,639 R 1,639 R 1,639 R 1,731 R 1,654 R 1,7719 R 1,754 R 1,750 R 20,436	273 260 280 274 280 286 298 304 290 288 276 273 3,382	560 512 583 571 607 613 646 623 552 579 581 579 7,007	R 2,675 R 2,396 R 2,673 R 2,485 R 2,533 R 2,529 R 2,582 R 2,659 R 2,497 R 2,6601 R 2,601 R 30,826
Page 2012 January	125 129 119 121 115 118 121 115 R 126 R 113 113 1,440	R 787 R 735 727 R 697 696 R 683 R 696 R 706 R 692 725 R 740 775 8,660	R 700 R 665 R 643 R 628 R 677 R 648 R 662 R 698 R 723 R 694 694 8,069	R 1,613 R 1,525 R 1,502 R 1,450 R 1,494 R 1,447 R 1,475 R 1,525 R 1,571 R 1,544 1,582 18,173	2 2 2 2 1 1 1 1 1 2 2 18	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 198 184 185 179 190 185 186 186 179 183 182 190 2,227	201 186 187 181 192 186 188 187 181 184 185 193 2,250	R 1,814 R 1,711 R 1,689 R 1,630 R 1,686 R 1,633 R 1,663 R 1,713 R 1,625 R 1,755 R 1,729 1,775 20,423	269 266 276 275 288 284 296 299 278 282 269 265 3,347	550 530 555 551 620 596 630 604 536 560 552 568 6,855	R 2,633 R 2,506 R 2,520 R 2,456 R 2,594 R 2,512 R 2,589 R 2,615 R 2,440 R 2,597 R 2,550 2,608 30,625

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

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

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

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

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

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

most data are estimates. See Table 10.20 of Totes of Series components and estimation.

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

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

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

Tables 1.4a and 1.4b.

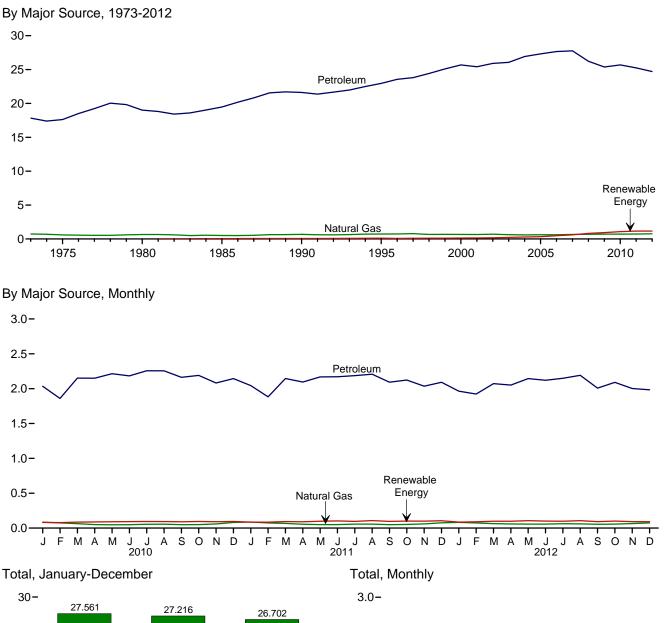
Conventional hydroelectric power.

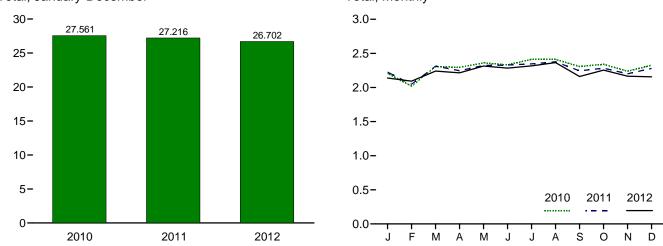
¹ Conventional nyaroelectric power.

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

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)

									ı
			Primary Co	nsumption ^a					
		Fossi	l Fuels	1	Renewable Energy ^b	Total	Electricity Retail	Electrical System Energy	
	Coal	Natural Gas ^c	Petroleum ^d	Total	Biomass	Primary	Sales	Losses	Total
1973 Total	3 (9) (9) (9) (9)	743 595 650 519 680 724 737	17,832 17,615 19,009 19,472 21,626 22,955 23,565	18,577 18,210 19,659 19,992 22,306 23,679 24,302	NA NA NA 50 60 112 81	18,577 18,210 19,659 20,041 22,366 23,791 24,383	11 10 11 14 16 17	25 24 27 32 37 38 38	18,613 18,245 19,697 20,088 22,420 23,846 24,437
1997 Total	(9) (9) (9) (9) (9)	780 666 675 672 658 699 627	23,813 24,422 25,098 25,682 25,412 25,913 26,063	24,593 25,088 25,774 26,354 26,070 26,612 26,690	102 113 118 135 142 170 230	24,695 25,201 25,891 26,489 26,213 26,781 26,920	17 17 17 18 20 19 23	38 38 40 42 43 42 51	24,750 25,256 25,949 26,548 26,275 26,842 26,994
2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	(a) (a) (a) (a)	602 624 625 663 692 715	26,905 26,925 27,309 27,651 27,763 R 26,230 R 25,375	27,527 27,933 28,276 28,427 R 26,922 R 26,090	290 339 475 602 826 935	27,817 28,272 28,751 29,029 R 27,748 R 27,025	25 26 25 28 26 27	54 56 54 60 56 56	27,895 28,353 28,830 29,117 R 27,831 R 27,108
2010 January	(9) (9) (9) (9) (9) (9) (9) (9) (9)	84 74 64 50 48 49 54 56 49 49 59 81	R 2,034 R 1,860 R 2,152 R 2,151 R 2,214 R 2,218 R 2,257 R 2,256 R 2,162 R 2,191 R 2,082 R 2,144 R 25,685	R 2,118 R 1,934 R 2,216 R 2,201 R 2,263 R 2,232 R 2,312 R 2,311 R 2,241 R 2,211 R 2,240 R 2,141 R 2,225 R 26,404	81 79 85 87 92 93 94 94 90 94 91 94 81,075	R 2,199 R 2,013 R 2,301 R 2,288 R 2,354 R 2,325 R 2,406 R 2,406 R 2,301 R 2,334 R 2,231 R 2,320 R 27,479	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 5 5 5 5 5 4 4 4 4 4 5 5 5 5 5	R 2,207 R 2,020 R 2,308 R 2,295 R 2,361 R 2,332 R 2,413 R 2,412 R 2,307 R 2,341 R 2,238 R 2,238 R 2,7,561
Page 2011 January February March March May June July August September October November December Total	(9) (9) (9) (9) (9) (9) (9) (9)	87 74 67 55 50 50 56 56 49 52 60 76	R 2,045 R 1,883 R 2,146 R 2,095 R 2,168 R 2,171 R 2,187 R 2,207 R 2,093 R 2,124 R 2,035 R 2,091 R 25,246	R 2,132 R 1,957 R 2,213 R 2,150 R 2,218 R 2,221 R 2,224 R 2,263 R 2,142 R 2,176 R 2,095 R 2,167 R 25,978	86 84 93 90 98 R 103 96 107 96 100 99 105 R 1,158	R 2,218 R 2,041 R 2,306 R 2,240 R 2,316 R 2,323 R 2,370 R 2,238 R 2,276 R 2,195 R 2,272 R 27,136	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 4 5 5 5 5 4 4 4 4 4 5 5	R 2,225 R 2,048 R 2,313 R 2,247 R 2,333 R 2,330 R 2,347 R 2,377 R 2,244 R 2,282 R 2,201 R 2,279
Page 2012 January	(9) (9) (9) (9) (9) (9) (9) (9) (9)	82 74 64 59 56 62 60 54 57 64 74	R 1,965 R 1,923 R 2,072 R 2,052 R 2,144 R 2,120 R 2,149 R 2,192 R 2,008 R 2,091 2,002 1,983 24,700	R 2,046 R 1,997 R 2,136 R 2,110 R 2,201 R 2,176 R 2,211 R 2,252 R 2,063 R 2,148 R 2,066 2,057 25,464	86 R 90 98 98 107 101 R 99 106 92 101 93 92 1,161	R 2,132 R 2,086 R 2,234 R 2,209 R 2,307 R 2,377 R 2,309 R 2,358 R 2,155 R 2,148 2,159 2,149	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5 4 4 4 4 5 4 4 4 5 5 5	R 2,139 R 2,093 R 2,240 R 2,215 R 2,314 R 2,3316 R 2,365 R 2,161 R 2,255 2,165 2,156 26,702

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

к=кеvised. INA=Not available.

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

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

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

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

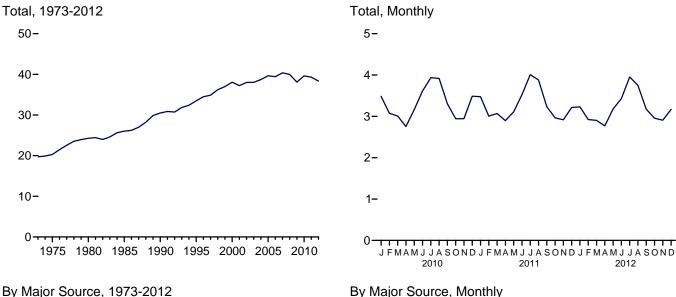
are included in "Biomass."

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

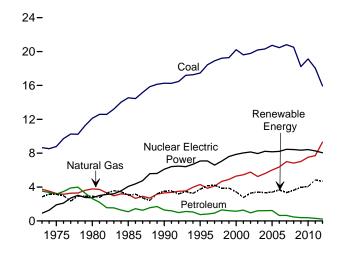
[†] Total losses are calculated as the primary energy consumed by the electric power sector minus the energy content of electricity retail sales. Total losses are allocated to the end-use sectors in proportion to each sector's share of total

^g Beginning in 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption. R=Revised. NA=Not available.

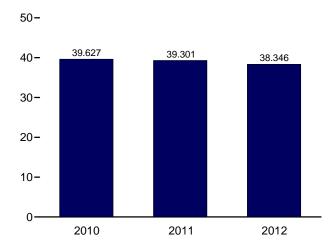
Electric Power Sector Energy Consumption Figure 2.6 (Quadrillion Btu)



By Major Source, 1973-2012



Total, January-December

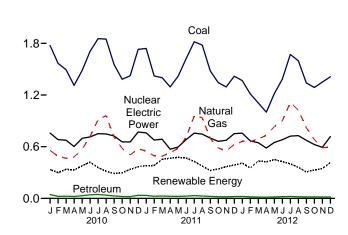


 $Web\ Page:\ http://www.eia.gov/totalenergy/data/monthly/\#consumption.$

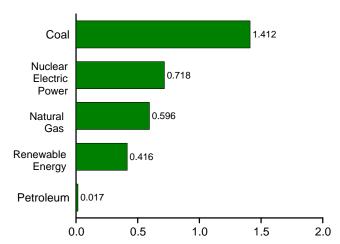
Source: Table 2.6.

By Major Source, Monthly

2.4-



By Major Source, December 2012



Electric Power Sector Energy Consumption Table 2.6

(Trillion Btu)

						Prima	ry Consum	ptiona					
		Fossil	Fuels					Renewabl	e Energy ^b			F 1	
	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		3,748 3,240	3,515 3,166	15,921 15,191	910 1,900	2,827 3,122	20 34	NA NA	NA NA	3 2	2,851 3,158	49 21	19,731 20,270
1980 Total 1985 Total 1990 Total ^e	14,542	3,778 3,135 3,309	2,634 1,090 1,289	18,534 18,767 20,859	2,739 4,076 6,104	2,867 2,937 3,014	53 <u>97</u> 161	NA (s) 4	NA (s) 29	4 14 317	2,925 3,049 3,524	71 140 8	24,269 26,032 30,495
1995 Total1996 Total	17,466 18,429	4,302 3,862	755 817	22,523 23,109 23,957	7,075 7,087 6,597	3,149 3,528	138 148 150	5 5 5	33 33 34	422 438 446	3,747 4,153	134 137	33,479 34,485
1997 Total 1998 Total 1999 Total	19,216 19,279	4,126 4,675 4,902	927 1,306 1,211	25,197 25,393	7,068 7,610	3,581 3,241 3,218	151 152	5 5	31 46	444 453	4,216 3,872 3,874	116 88 99	34,886 36,225 36,976
2000 Total 2001 Total 2002 Total	19,614	5,293 5,458 5,767	1,144 1,277 961	26,658 26,348 26,511	7,862 8,029 8,145	2,768 2,209 2,650	144 142 147	5 6 6	57 70 105	453 337 380	3,427 2,763 3,288	115 75 72	38,062 37,215 38,016
2003 Total 2004 Total 2005 Total	20,305 20,737	5,246 5,595 6,015	1,205 1,212 1,235	26,636 27,112 27,986	7,959 8,222 8,161	2,749 2,655 2,670	146 148 147	5 6 6	113 142 178	397 388 406	3,411 3,339 3,406	22 39 85	38,028 38,712 39,638
2006 Total 2007 Total 2008 Total	20,808 20,513	6,375 7,005 6,829	648 657 468	27,485 28,470 27,810	8,215 8,455 8,427	2,839 2,430 2,494	145 145 146	5 6 9	264 341 546	412 423 435	3,665 3,345 3,630	63 107 112	39,428 40,377 39,978
2009 Total	18,225 1.775	7,022 557	390 45	25,638 2,377	8,356 758	2,650 217	146 13	9 (s)	721 67	441 39	3,967 335	116 14	38,077 3,484
2010 January February March	1,568 1,494	489 466	23 25	2,080 1,984	682 676	199 202	11 13	(s) 1	53 84	36 39	300 338	12 10	3,073 3,008
April May June	1,312 1,483 1,708	480 570 719	23 31 41	1,815 2,084 2,468	602 697 714	184 243 290	12 13 12	1 1 2	95 85 79	36 36 39	329 378 421	9 5 9	2,755 3,163 3,611
July August September	1,855 1,849 1,554	914 961 709	46 37 28	2,815 2,847 2,291	752 748 725	238 195 168	12 13 12	2 2 1	66 65 69	40 41 38	358 315 288	10 6 2	3,934 3,917 3,306
October November December	1,383 1,423 1,731	581 506 575	22 21 36 378	1,986 1,950 2,341 27,039	656 655 770	171 190 225 2,521	12 12 13 148	1 1 (s) 12	77 95 88 923	37 39 41 459	298 337 367	1 3 9 89	2,942 2,944 3,488
Total 2011 January	19,133 1,741	7,528 550	35	2,326	8,434 761	2,321	13	(s)	83	439 37	4,064 381	9	39,627 3,477
February March April	1,421 1,401 1,294	493 491 531	24 28 24	1,938 1,920 1,849	678 687 571	233 301 301	12 13 12	1 1 2	102 102 121	35 36 32	382 453 467	8 8 7	3,006 3,069 2,895
May June July	1,418 1,623 1,819	582 712 955	24 26 32	2,024 2,361 2,806	597 683 757	315 311 303	13 12 12	2 2 2	114 107 73	34 37 39	477 469 429	12 11 16	3,111 3,523 4,008
August September October	1,780 1,481 1,343	938 696 585	27 24 20	2,745 2,201 1,949	746 700 663	249 207 191	12 12 12	2 2 1	73 67 102	39 37 36	376 323 343	16 10 10	3,883 3,234 2,963
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	369 385 4,855	8 12 127	2,916 3,215 39,301
2012 January	1,368 1,214	660 660	23 18	2,051 1.892	757 668	225 196	14 13	1	134 108	37 34	410 353	11	3,230 2,922
February March April	1,108 1,001	689 733	15 15 17	1,812 1,748	646 585	249 252 276	13 14 13 14	2 3 5	135 124	35 31	435 424	10 13	2,903 2,770
May June July	1,216 1,385 1,672	832 901 1,113	20 23	2,065 2,306 2,808	650 682 723	257 259	13 14	5 5	122 116 85	35 36 38	451 428 401	15 14 19	3,181 3,429 3,951
August September October	1,598 1,341 1,287	1,025 821 684	19 17 17	2,643 2,179 1,988	728 675 625	224 170 156	13 13 14	4 4 4	80 84 122	38 36 35	360 307 330	19 14 12	3,750 3,175 2,956
November December Total	1,350 1,412 15,952	588 596 9,304	16 17 218	1,955 2,025 25,474	593 718 8,050	181 224 2,668	14 14 163	3 2 41	112 138 1,360	36 38 429	346 416 4,661	13 11 161	2,907 3,170 38,346

Web Fage 368 in 1973. Sources: Tables 3.8c, 4.3, 6.2, 7.1, 7.2b, 10.2c, A4, A5, and A6.

<sup>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 and the Section 4.</sup>

Conventional hydroelectric power.
 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 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

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

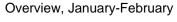
those differences, see Energy Consumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys, DOE/EIA-0533, U.S. Energy Information Administration, Washington, DC, April 6, 1990.

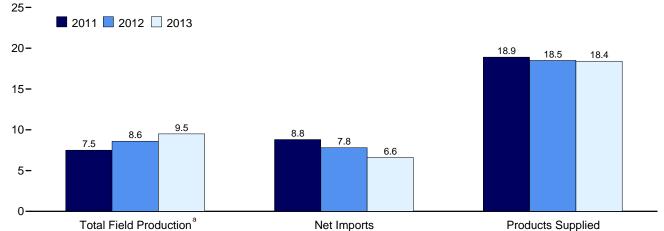
Note 2. Electrical System Energy Losses. Electrical system energy losses are calculated as the difference between total primary consumption by the electric power sector (see Table 2.6) and the total energy content of electricity retail sales (see Tables 7.6 and A6). Most of these losses occur at steam-electric 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.	D	041	nol		
J.		CU		IEU	JĮĮ

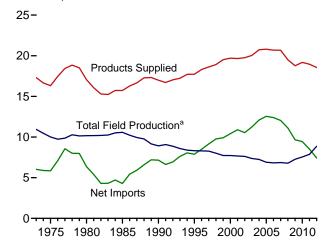
.

Figure 3.1 Petroleum Overview (Million Barrels per Day)

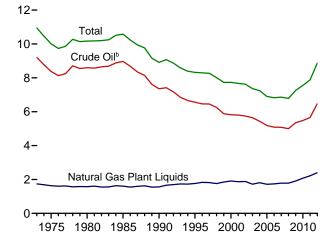




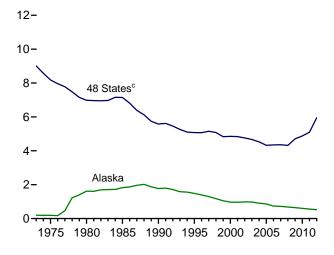
Overview, 1973-2012



Total Field Production, 1973-2012

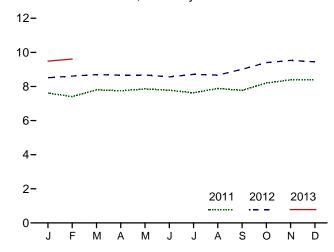


Crude Oil^b Field Production, 1973-2012



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

Total Field Production,^a Monthly



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

^b Includes lease condensate.

Table 3.1 **Petroleum Overview**

		Fie	eld Produc	tiona		Banass			Trade				
	48 States ^d	Crude Oil ^b Alaska	Total	NGPL ^{e,f}	Total ^c	Renew- able Fuels and Oxy- genates ⁹	Process- ing Gain ^h	lm- ports ⁱ	Ex- ports ^f	Net Imports ^j	Stock Change ^k	Adjust- ments ^{C,l}	Petroleum Products Supplied
1973 Average 1975 Average 1980 Average 1985 Average 1990 Average 1995 Average 1997 Average 1998 Average 1998 Average	9,010 8,183 6,980 7,146 5,582 5,076 5,071 5,156 5,077 4,832	198 191 1,617 1,825 1,773 1,484 1,393 1,296 1,175 1,050	9,208 8,375 8,597 8,971 7,355 6,560 6,465 6,465 6,252 5,881	1,738 1,633 1,573 1,609 1,559 1,762 1,830 1,817 1,759	10,946 10,007 10,170 10,581 8,914 8,322 8,295 8,269 8,011 7,731	NA NA NA NA NA NA NA NA	453 460 597 557 683 774 837 850 886	6,256 6,056 6,909 5,067 8,018 8,835 9,478 10,162 10,708 10,852	231 209 544 781 857 949 981 1,003 945 940	6,025 5,846 6,365 4,286 7,161 7,886 8,498 9,158 9,764 9,912	135 32 140 -103 107 -246 -151 143 239 -422	18 41 64 200 338 496 528 487 495 567	17,308 16,322 17,056 15,726 16,988 17,725 18,309 18,620 18,917 19,519
2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2008 Average 2008 Average 2009 Average 2010 Average	4,851 4,839 4,759 4,670 4,527 4,322 4,348 4,355 4,318 4,708 4,877	970 963 985 974 908 864 741 722 683 645 601	5,822 5,801 5,744 5,644 5,435 5,186 5,089 5,077 5,000 5,353 5,479	1,911 1,868 1,880 1,719 1,809 1,717 1,739 1,783 1,784 1,910 2,074	7,733 7,670 7,624 7,363 7,244 6,903 6,827 6,860 6,784 7,263 7,553	NA NA NA NA NA NA NA NA 746 907	948 903 957 974 1,051 989 994 996 993 979	11,459 11,871 11,530 12,264 13,145 13,714 13,707 13,468 12,915 11,691 11,793	1,040 971 984 1,027 1,048 1,165 1,317 1,433 1,802 2,024 2,353	10,419 10,900 10,546 11,238 12,097 12,549 12,390 12,036 11,114 9,667 9,441	-69 325 -105 56 209 145 60 -148 195 109	532 501 529 514 548 506 536 641 802 226	19,701 19,649 19,761 20,034 20,731 20,802 20,687 20,680 19,498 18,771 19,180
Pebruary February March April May June July August September October November December Average	R 4,998 R 4,954 R 5,046 R 5,038 R 4,965 R 5,129 R 5,017 R 5,330 R 5,424 R 5,448	464 611 611 606 582 553 453 526 585 566 593 592 561	R 5,504 R 5,398 R 5,609 R 5,560 R 5,628 R 5,691 R 5,418 R 5,655 R 5,601 R 5,896 R 6,017 R 6,040 R 5,662	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 7,618 R 7,406 R 7,804 R 7,746 R 7,862 R 7,779 R 7,624 R 7,882 R 7,772 R 8,209 R 8,399 R 8,399 R 7,878	982 972 1,002 996 992 1,015 1,004 1,027 1,011 1,023 1,076 1,085 1,016	1,019 954 1,019 1,013 1,085 1,106 1,122 1,133 1,123 1,084 1,113 1,134 1,176	12,248 10,738 11,850 11,808 11,866 11,877 11,757 11,277 11,277 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 9,161 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 -121	R 361 R 404 R 248 R 264 R 293 R 251 R 555 R 504 R 398 R 212 R 464 R 141 R 341	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
2012 January	RE 5,640 RE 5,750 RE 5,726 RE 5,735 RE 5,969 RE 5,896 RE 6,048 RE 6,367 RE 6,460 RE 6,460	E 593 E 582 E 567 RE 552 E 546 E 493 E 415 E 404 E 502 E 5547 E 553 RE 556	RE 6,138 RE 6,222 RE 6,318 RE 6,279 RE 6,302 E 6,228 RE 6,385 RE 6,300 RE 6,550 RE 6,550 RE 7,013 RE 7,030 RE 6,474	2,376 2,388 2,375 2,382 2,376 2,335 2,367 2,458 2,485 2,485 2,516 R 2,414 R 2,399	RE 8,514 RE 8,610 RE 8,693 RE 8,661 E 8,563 RE 8,707 RE 9,008 RE 9,008 RE 9,529 RE 9,444 RE 8,873	1,021 1,012 994 1,001 1,018 1,004 929 957 924 913 928 8 915 968	1,053 1,068 1,023 1,047 1,089 1,099 1,060 1,102 1,047 998 1,1187 R 1,187	10,944 10,464 10,610 10,634 11,132 11,393 10,748 10,898 10,533 10,088 10,103 R 9,610	2,839 2,980 3,064 3,263 3,194 3,209 3,211 3,017 3,150 3,255 3,404 R 3,623 R 3,184	8,104 7,484 7,547 7,370 7,939 8,184 7,537 7,881 7,383 6,698 R 5,987 R 7,412	655 -228 409 -18 524 493 33 -272 582 -278 -40 R -57 R 151	R 243 R 358 R 364 R 233 R 508 R 509 R 400 R 348 R 392 R 301 R 289 R 540 R 378	18,280 18,760 18,213 18,330 18,707 18,915 18,601 19,226 18,173 18,722 18,604 R 18,130 R 18,555
2013 January February 2-Month Average 2012 2-Month Average 2011 2-Month Average	E 6,458 E 6,553 E 6,503	E 547 E 540 E 544 E 588 534	E 7,005 E 7,093 E 7,046 E 6,179 5,453	E 2,482 E 2,516 E 2,498 2,382 2,064	E 9,487 E 9,609 E 9,545 E 8,560 7,518	E 855 E 860 E 857 1,017 977	E 1,048 E 1,020 E 1,034 1,060 988	E 9,869 E 9,567 E 9,726 10,712 11,531	E 3,044 E 3,187 E 3,112 2,907 2,695	E 6,825 E 6,380 E 6,614 7,805 8,836	E 271 E -599 E -142 228 -236	E 333 E 142 E 243 298 381	E 18,277 E 18,609 E 18,435 18,512 18,936

^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."
^b Includes lease condensate.

Includes lease condensate.

Dincludes 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.

United States excluding Alaska and Hawaii.

Natural has plant liquids.

Onlieu gas plant liquids.
 See Note 6, "Petroleum Data Discrepancies," at end of section.
 Renewable fuels and oxygenate plant net production.
 Refinery and blender net production minus refinery and blender net inputs.
See Table 3.2.

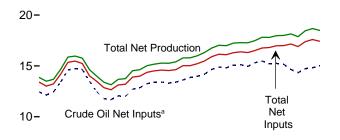
i Includes Strategic Petroleum Reserve imports. See Table 3.3b.
j Net imports equal imports minus exports.
k A negative value indicates a decrease in stocks and a positive value indicates an increase. The current month stock change estimate is based on the change from the previous month's estimate, rather than the stocks values shown in Table 3.4. Includes crude oil stocks in the Strategic Petroleum Reserve, but excludes distillate fuel oil stocks in the Northeast Heating Oil Reserve. See Table 3.4. Also see Note 4, "Petroleum New Stock Basis," at end of section.

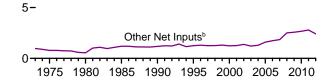
An adjustment for crude oil, hydrogen, oxygenates, renewable fuels, other hydrocarbons, motor gasoline blending components, finished motor gasoline, and distillate fuel oil. See EIA, Petroleum Supply Monthly, Appendix B, "PSM Explanatory Notes," for further information.

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

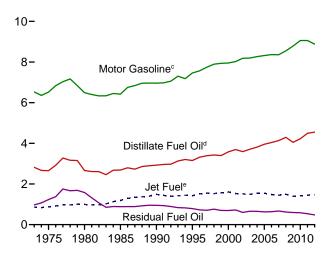
Figure 3.2 Refinery and Blender Net Inputs and Net Production (Million Barrels per Day)

Net Inputs and Net Production, 1973-2012

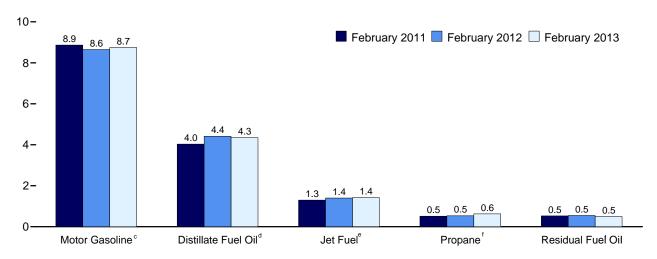




Net Production, Selected Products, 1973-2012

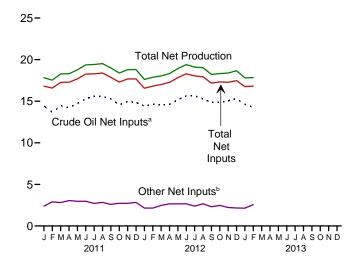


Net Production, Selected Products

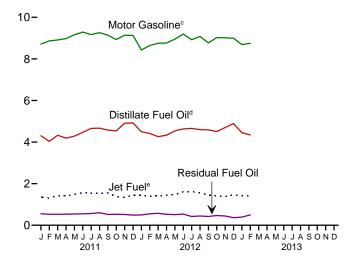


^a Includes lease condensate.

Net Inputs and Net Production, Monthly



Net Production, Selected Products, Monthly



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

^b Natural gas plant liquids and other liquids.

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

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

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

f Includes propylene.

Table 3.2 Refinery and Blender Net Inputs and Net Production

	Refine	ery and Ble	nder Net I	nputs ^a			Refinery	and Blen	der Net Pro	ductionb		
							LPG	3 c				
	Crude Oil ^d	NGPLe	Other Liquids ^f	Total	Distillate Fuel Oil ⁹	Jet Fuel ^h	Propane ⁱ	Total	Motor Gasoline ^j	Residual Fuel Oil	Other Products ^k	Total
1973 Average	12,431	815	155	13,401	2,820	859	271	375	6,527	971	2,301	13,854
1975 Average	12,442	710	72	13,225	2,653	871	234	311	6,518	1,235	2,097	13,685
1980 Average	13,481 12,002	462 509	81 681	14,025 13,192	2,661 2,686	999 1,189	269 295	330 391	6,492 6.419	1,580 882	2,559 2,183	14,622 13,750
1985 Average 1990 Average	13,409	467	713	14,589	2,925	1,488	404	499	6,959	950	2,163	15,730
1995 Average	13,973	471	775	15,220	3,155	1,416	503	654	7,459	788	2,522	15,994
1996 Average	14,195	450	843	15,487	3,316	1,515	520	662	7,565	726	2,541	16,324
1997 Average	14,662	416	832	15,909	3,392	1,554	565	691	7,743	708	2,671	16,759
1998 Average	14,889	403	853	16,144	3,424	1,526	550	674	7,892	762	2,753	17,030
1999 Average	14,804	372	927	16,103	3,399	1,565	569	684	7,934	698	2,709	16,989
2000 Average	15,067	380 429	849 825	16,295	3,580	1,606	583	705	7,951	696 721	2,705	17,243
2001 Average	15,128 14,947	429 429	941	16,382 16,316	3,695 3,592	1,530 1,514	556 572	667 671	8,022 8,183	601	2,651 2,712	17,285 17,273
2002 Average 2003 Average	15,304	419	791	16,513	3,707	1,488	572 570	658	8.194	660	2,712	17,487
2004 Average	15,475	422	866	16,762	3,814	1,547	584	645	8,265	655	2,887	17,814
2005 Average	15,220	441	1,149	16,811	3,954	1,546	540	573	8,318	628	2,782	17,800
2006 Average	15,242	501	1,238	16,981	4,040	1,481	543	627	8,364	635	2,827	17,975
2007 Average	15,156	505	1,337	16,999	4,133	1,448	562	655	8,358	673	2,728	17,994
2008 Average	14,648	485	2,019	17,153	4,294	1,493	519	630	8,548	620	2,561	18,146
2009 Average 2010 Average	14,336 14,724	485 442	2,082 2,219	16,904 17,385	4,048 4,223	1,396 1,418	537 560	623 659	8,786 9,059	598 585	2,431 2,509	17,882 18,452
ZOTO Average	17,127	772	2,213	17,505	7,223	1,410	300	000	3,033	303	2,505	10,432
2011 January	14,423	549	1,835	16,807	4,303	1,362	561	431	8,714	552	2,464	17,826
February	13,676	515	2,388	16,579	4,033	1,298	512	472	8,866	529	2,335	17,533
March	14,451	460	2,350	17,261	4,326	1,431	528	636	8,908	526	2,454	18,280
April	14,231	448	2,606	17,285	4,189	1,422	542	781	8,978	534	2,394	18,298
May	14,718 15,294	432 444	2,535 2,522	17,685 18,260	4,283 4,471	1,479 1,568	563 567	815 847	9,157 9,289	538 553	2,496 2,638	18,770 19,366
June July	15,294	417	2,322	18,294	4,656	1,550	557	820	9,269	563	2,661	19,300
August	15,556	437	2,396	18,388	4,668	1,543	553	791	9,264	604	2,652	19,522
September	15,275	494	2,100	17,870	4,576	1,553	569	603	9,140	516	2,605	18,993
October	14,570	524	2,205	17,298	4,539	1,378	540	480	8,932	530	2,525	18,382
November	14,960	599	2,118	17,677	4,902	1,341	564	377	9,141	516	2,513	18,790
December	14,842	566	2,270	17,678	4,919	1,449	566	368	9,128	486	2,462	18,812
Average	14,806	490	2,300	17,596	4,492	1,449	552	619	9,058	537	2,518	18,673
2012 January	14,415	513	1,633	16,561	4,498	1,437	518	414	8,427	495	2,343	17,613
February	14,659	531	1,618	16,809	4,416	1,401	532	492	8,645	547	2,375	17,876
March	14,545	445	2,022	17,012	4,262	1,412	545	685	8,753	577	2,347	18,035
April	14,614	443	2,215	17,272	4,330	1,433	558	833	8,763	525	2,436	18,319
May	15,177 15,632	429 442	2,228 2,222	17,833 18,297	4,537 4,632	1,468 1,609	569 585	856 841	8,952 9,193	509 538	2,601 2,582	18,922 19,396
June July	15,656	435	1.944	18,036	4,659	1,609	565	841	8,921	420	2,562	19,096
August	15,259	435	2,239	17,932	4,599	1,559	543	777	9,079	443	2,577	19,034
September	14,863	522	1,794	17,179	4,584	1,450	522	553	8,770	420	2,450	18,226
October	14,854	620	1,846	17,320	4,509	1,418	543	476	9,026	467	2,421	18,318
November	15,054	624	1,591	17,269	4,702	1,378	550	366	9,016	445	2,480	18,387
December Average	R 15,320 R 15,006	^R 642 ^R 507	R 1,513 R 1,906	R 17,475 R 17,419	R 4,890 R 4,552	R 1,463 R 1,470	^R 579 ^R 551	R 384 R 627	R 8,993 R 8,879	^R 364 479	^R 2,568 ^R 2,486	R 18,662 R 18,493
Average	13,000	301	1,300	17,413	4,332	1,470	331	021	0,019	413	2,400	10,433
2013 <u>January</u>	E 14,623	^F 551	RE 1,585	RF 16,759	E 4,453	E 1,431	RE 569	F 425	E 8,689	E 390	RE 2,419	RE 17,807
February	E 14,257	^F 516	E 2,046	F 16,819	E 4,342	E 1,420	E 625	F 499	E 8,749	E 499	E 2,331	E 17,839
2-Month Average	E 14,449	F 535	E 1,804	F 16,788	E 4,400	E 1,426	^E 596	F 460	^E 8,717	^E 442	E 2,377	17,822
2012 2-Month Average	14,533	522	1,626	16,681	4,458	1,420	525	452	8,532	520	2,359	17,741
2011 2-Month Average	14,068	533	2,097	16,699	4,175	1,332	537	450	8,786	542	2,403	17,687

k Asphalt and road oil, finished aviation gasoline, kerosene, lubricants, petrochemical feedstocks, petroleum coke, special naphthas, still gas, waxes, and miscellaneous products. Beginning in 2005, also includes naphtha-type jet fuel. R=Revised. E=Estimate. F=Forecast.
Notes:

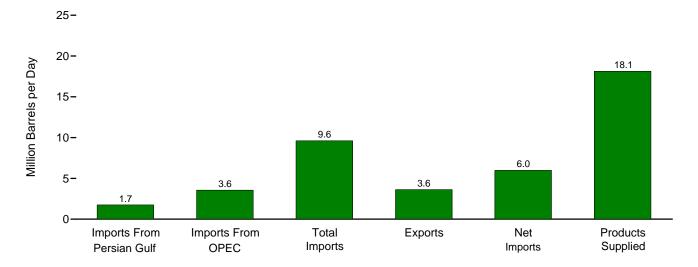
• Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia. Web Pages:
• For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum.
• For related information, see http://www.eia.gov/petroleum/.
Sources:
• 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports.
• 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports.
• 1981-2011: EIA, Petroleum Supply Annual, annual reports.
• 2012 and 2013: EIA, Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

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

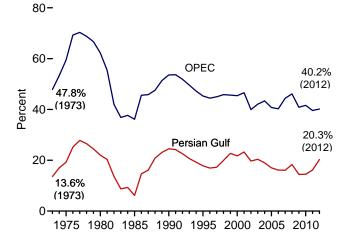
C Liquefied petroleum gases.
d Includes lease condensate.
e Natural gas plant liquids (liquefied petroleum gases and pentanes plus).
f Unfinished oils (net), other hydrocarbons, and hydrogen. Beginning in 1981, also includes aviation and motor gasoline blending components (net). Beginning in 1993, also includes oxygenates (net), including fuel ethanol. Beginning in 2009, also includes renewable diesel fuel (including biodiesel).
9 Beginning in 2009, includes renewable diesel fuel (including biodiesel) blended into distillate fuel oil.
h Through 2004, includes kerosene-type and naphtha-type jet fuel. Beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Other Products."
I Includes propylene.
j Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

Figure 3.3a Petroleum Trade: Overview

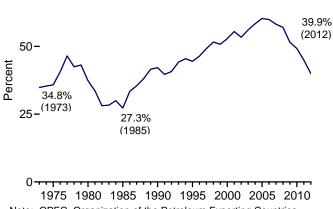
Overview, December 2012



Imports From OPEC and Persian Gulf as Share of Total Imports, 1973-2012

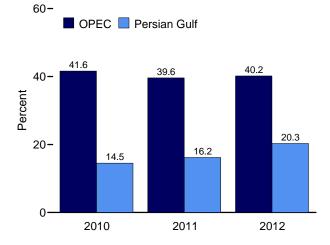


Net Imports as Share of Products Supplied, 1973-2012



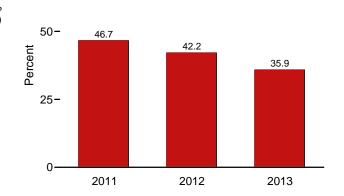
Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Source: Table 3.3a.

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



Net Imports as Share of Products Supplied, January-February

75-



75-

Table 3.3a Petroleum Trade: Overview

									are of Supplied			nare of mports
	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Exports	Net Imports	Products Supplied	Imports From Persian Gulf ^a	Imports From OPEC ^b	Imports	Net Imports	Imports From Persian Gulf ^a	Imports From OPEC ^b
			Thousand Ba	rrels per Da	у				Pe	rcent		
1973 Average 1975 Average 1980 Average 1980 Average 1990 Average 1995 Average 1997 Average 1997 Average 1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average	848 1,165 1,519 311 1,966 1,573 1,604 1,755 2,136 2,464 2,488 2,761 2,269 2,501 2,493	2,993 3,601 4,300 1,830 4,296 4,002 4,211 4,569 4,905 4,953 5,528 4,605 5,162 5,701	6,256 6,056 6,909 5,067 8,018 8,835 9,478 10,162 10,708 10,852 11,459 11,871 11,530 12,264	231 209 544 781 857 949 981 1,003 945 940 1,040 971 984 1,027 1,048	6,025 5,846 6,365 4,286 7,161 7,886 8,498 9,158 9,764 9,912 10,419 10,900 10,546 11,238 12,097	17,308 16,322 17,056 15,726 16,988 17,725 18,309 18,620 18,917 19,701 19,649 19,761 20,034 20,731	4.9 7.1 8.9 2.0 11.6 8.9 8.8 9.4 11.3 12.6 14.1 11.5 12.5	17.3 22.1 25.2 11.6 25.3 22.6 23.0 24.5 25.9 25.4 26.4 28.1 23.3 25.8 27.5	36.1 37.1 40.5 32.2 47.2 49.8 51.8 55.6 55.6 58.2 60.4 58.3 61.2 63.4	34.8 35.8 37.3 42.2 44.5 46.4 49.2 51.6 50.8 52.9 55.5 53.4 56.1 58.4	13.6 19.2 22.0 6.1 24.5 17.8 16.9 17.3 19.9 22.7 21.7 23.3 19.7 20.4	47.8 59.5 62.2 36.1 53.6 45.3 44.4 45.0 45.8 45.6 45.6 46.6 39.9 42.1 43.4
2005 Average 2006 Average 2007 Average 2008 Average 2009 Average 2010 Average	2,334 2,211 2,163 2,370 1,689 1,711	5,587 5,517 5,980 5,954 4,776 4,906	13,714 13,707 13,468 12,915 11,691 11,793	1,165 1,317 1,433 1,802 2,024 2,353	12,549 12,390 12,036 11,114 9,667 9,441	20,802 20,687 20,680 19,498 18,771 19,180	11.2 10.7 10.5 12.2 9.0 8.9	26.9 26.7 28.9 30.5 25.4 25.6	65.9 66.3 65.1 66.2 62.3 61.5	60.3 59.9 58.2 57.0 51.5 49.2	17.0 16.1 16.1 18.4 14.4 14.5	40.7 40.2 44.4 46.1 40.9 41.6
2011 January February March April May June July August September October November December Average	1,681 1,495 1,667 1,704 1,844 2,033 2,167 1,910 2,039 1,904 1,944 1,921 1,861	4,909 4,530 4,638 4,548 4,619 4,894 4,939 4,656 4,296 4,296 4,206 4,093 4,555	12,248 10,738 11,850 11,808 11,866 11,877 11,757 11,227 11,270 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 3,159 3,667 2,986	9,497 8,104 9,117 8,736 9,131 9,161 8,704 8,224 8,095 7,946 8,059 7,397 8,518	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	8.8 7.9 8.6 9.1 10.0 10.6 11.5 9.8 10.8 10.1 10.2 10.2 9.8	25.8 24.0 24.0 24.4 25.4 26.3 24.0 22.9 22.8 22.0 21.8 24.0	64.5 56.9 61.3 63.3 64.2 61.7 62.6 57.8 59.7 58.7 58.8 58.8 60.7	50.0 42.9 47.2 46.8 49.4 47.6 46.4 42.4 42.9 42.2 39.3 44.9	13.7 13.9 14.1 14.4 15.5 17.1 18.4 17.0 18.1 17.2 17.3 17.4 16.2	40.1 42.2 39.1 38.5 38.9 41.2 42.0 41.5 38.4 38.9 37.5 37.0 39.6
2012 January February March April May June July August September October November December Average	2,208 1,948 2,222 2,228 2,560 2,376 2,131 2,071 2,071 2,103 R 1,750 R 2,151	4,203 3,986 4,314 4,394 4,672 4,618 4,331 4,344 4,268 4,186 4,195 R 3,554 R 4,256	10,944 10,464 10,610 10,634 11,132 11,393 10,748 10,898 10,533 10,088 10,103 R 9,610 R 10,596	2,839 2,980 3,064 3,263 3,194 3,209 3,211 3,017 3,150 3,255 3,404 R 3,623 R 3,184	8,104 7,484 7,547 7,370 7,939 8,184 7,537 7,881 7,383 6,633 6,698 R 5,987 R 7,412	18,280 18,760 18,213 18,330 18,707 18,915 18,601 19,226 18,173 18,722 18,604 R 18,130 R 18,555	12.1 10.4 12.2 12.2 13.7 12.6 11.5 10.8 11.4 11.3 R 9.7 R 11.6	23.0 21.2 23.7 24.0 25.0 24.4 23.3 22.6 23.5 22.4 22.5 R 19.6 R 22.9	59.9 55.8 58.0 59.5 60.2 57.8 56.7 58.0 53.9 54.3 R 53.0	44.3 39.9 41.4 40.2 42.4 43.3 40.5 41.0 40.6 36.5 36.0 R 33.0	20.2 18.6 20.9 21.0 23.0 20.9 19.8 19.0 19.7 21.2 20.8 R 18.2 R 20.3	38.4 38.1 40.7 41.3 42.0 40.5 40.3 39.9 40.5 41.5 R 37.0 R 40.2
2013 January February 2-Month Average	NA NA NA	NA NA NA	E 9,869 E 9,567 E 9,726	E 3,044 E 3,187 E 3,112	E 6,825 E 6,380 E 6,614	E 18,277 E 18,609 E 18,435	NA NA NA	NA NA NA	E 54.0 E 51.4 E 52.8	E 37.3 E 34.3 E 35.9	NA NA NA	NA NA NA
2012 2-Month Average 2011 2-Month Average	2,082 1,593	4,098 4,729	10,712 11,531	2,907 2,695	7,805 8,836	18,512 18,936	11.2 8.4	22.1 25.0	57.9 60.9	42.2 46.7	19.4 13.8	38.3 41.0

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

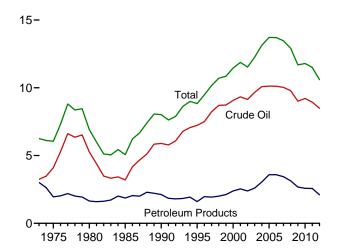
Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/.

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 and 2013: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations.

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

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

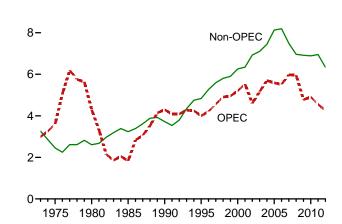
Overview, 1973-2012



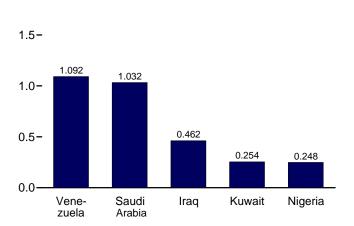
OPEC and Non-OPEC, 1973-2012

10-

2.0-

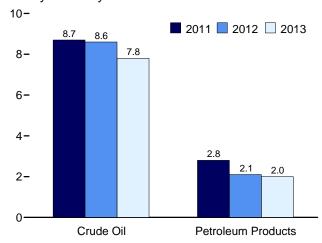


From Selected OPEC Countries, December 2012

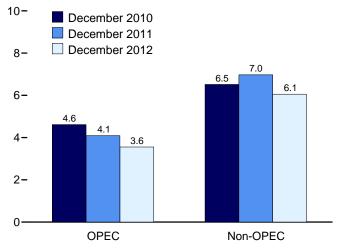


Note: OPEC=Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#petroleum. Sources: Tables 3.3b–3.3d.

Crude Oil and Petroleum Products, January-February



OPEC and Non-OPEC



From Selected Non-OPEC Countries, December 2012

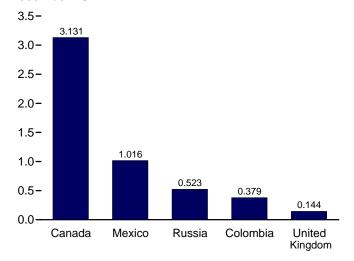


Table 3.3b Petroleum Trade: Imports and Exports by Type

					lm	ports						Exports	
	0	I- 0:12											-
	SPR ^{c,d}	de Oil ^a Total	Distillate Fuel Oil	Jet Fuel ^e	LPG Propane ^f	Total	Motor Gasoline ^g	Residual Fuel Oil	Other ^h	Total	Crude Oila	Petroleum Products	Total
	SFK*,*	TOTAL	ruei Oii	ruei	Fropane	Total	Gasonnes	ruei Oii	Other	TOTAL	Olla	Fiouucis	TOTAL
1973 Average		3,244	392	212	71	132	134	1,853	290	6,256	2	229	231
1975 Average	 44	4,105 5,263	155 142	133 80	60 69	112 216	184 140	1,223 939	144 130	6,056 6,909	287	204 258	209 544
1980 Average 1985 Average	118	3,201	200	39	67	187	381	510	550	5,067	204	236 577	781
1990 Average	27	5,894	278	108	115	188	342	504	705	8,018	109	748	857
1995 Average	-	7,230	193	106	102	146	265	187	708	8,835	95	855	949
1996 Average	-	7,508	230	111	119	166	336	248	879	9,478	110	871	981
1997 Average 1998 Average	_	8,225 8,706	228 210	91 124	113 137	169 194	309 311	194 275	945 888	10,162 10,708	108 110	896 835	1,003 945
1999 Average	- 8	8,731	250	128	122	182	382	273	943	10,708	118	822	940
2000 Average	8	9,071	295	162	161	215	427	352	938	11,459	50	990	1,040
2001 Average	11	9,328	344	148	145	206	454	295	1,095	11,871	20	951	971
2002 Average	16	9,140	267	107	145	183	498	249	1,085	11,530	9	975	984
2003 Average	- 77	9,665 10.088	333 325	109 127	168 209	225 263	518 496	327 426	1,087 1.419	12,264 13.145	12 27	1,014 1.021	1,027 1.048
2004 Average 2005 Average	52	10,000	325 329	190	233	328	603	530	1,419	13,714	32	1,133	1,165
2006 Average	8	10,118	365	186	228	332	475	350	1,881	13,707	25	1,292	1,317
2007 Average	7	10,031	304	217	182	247	413	372	1,885	13,468	27	1,405	1,433
2008 Average	19	9,783	213	103	185	253	302	349	1,913	12,915	29	1,773	1,802
2009 Average	56	9,013	225	81	147	182	223	331	1,635	11,691	44	1,980	2,024
2010 Average	-	9,213	228	98	121	153	134	366	1,600	11,793	42	2,311	2,353
2011 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 9,059	191 170	80 91	141 118	177 160	138 137	424 306	1,959 1,942	11,808 11,866	41 37	3,031 2,698	3,071 2,735
May June	_	9,039	127	82	115	160	130	353	1,789	11,800	36	2,680	2,735
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	286 341	1,440	11,053 11,217	51	3,057	3,107
November December	_	8,724 8,711	138 175	21	152 210	191 258	74 60	330	1,677 1,509	11,217	64 53	3,094 3,614	3,159 3,667
Average	_	8,935	179	69	158	202	105	328	1,686	11,504	47	2,939	2,986
				_									
2012 January	_	8,572	156	6	145	168	99	305	1,637	10,944	56	2,783	2,839
February March	_	8,558 8,767	142 136	41 5	125 108	155 136	46 91	226 271	1,296 1,205	10,464 10,610	59 60	2,921 3,004	2,980 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 September	_	8,631 8,375	110 84	124 84	142 149	186 191	37 35	233 256	1,577 1.507	10,898 10,533	60 58	2,957 3.092	3,017 3,150
October	_	8,091	88	106	135	176	26	219	1,382	10,088	67	3,188	3,255
November	_	8,130	189	46	136	156	32	236	1,314	10,103	73	3,331	3,404
December	-	R 7,576	190	R 59	R 160	R 181	R 64	R 178	R 1,362	R 9,610	R 58	R 3,565	R 3,623
Average	-	R 8,491	125	R 55	R 138	R 171	55	R 249	R 1,449	R 10,596	R 60	R 3,125	R 3,184
2013 January	_	E 7,897	E 177	E 40	E 151	NA	E 40	E 239	NA	E 9,869	E 44	E 3,000	E 3,044
February	-	E 7,617	E 176	E 48	E 147	NA	E 13	E 207	NA	E 9,567	E 44	E 3,143	E 3,187
2-Month Average	-	E 7,764	E 177	E 44	E 149	NA	^E 27	E 224	NA	E 9,726	E 44	E 3,068	E 3,112
2012 2-Month Average	_	8,565	149	23	135	162	73	267	1,472	10,712	58	2,850	2,907
2011 2-Month Average	-	8,709	275	66	228	278	110	389	1,704	11,531	52	2,643	2,695

a Includes lease condensate.

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

R=Revised. E=Estimate. NA=Not available. — =Not applicable. — =No data reported.

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

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

Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2011: EIA, Petroleum Supply Annual, annual reports. • 2012 and 2013: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system and Monthly Energy Review data system calculations. Review data system calculations.

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

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

f Includes propylene.

Allei. ¹ Includes propylene. ⁹ 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

Table 3.3c Petroleum Trade: Imports From OPEC Countries

	Algeria	Angola ^a	Ecuadorb	Iraq	Kuwait ^c	Libya	Nigeria	Saudi Arabia ^c	Vene- zuela	Otherd	Total OPEC
1973 Average	136	(a)	48	4	47	164	459	486	1,135	514	2.993
1975 Average	282	}a{	57	2	16	232	762	715	702	832	3.601
1980 Average	488	}a′	27	28	27	554	857	1,261	481	577	4,300
1985 Average	187	}a {	67	46	21	4	293	168	605	439	1,830
1990 Average	280	(a)	49	518	86	Ö	800	1,339	1,025	199	4,296
1995 Average	234	}a Ś	(b)	0.0	218	ŏ	627	1,344	1,480	98	4,002
1996 Average	256	(a)	(b)	ĭ	236	ŏ	617	1,363	1,676	62	4,211
1997 Average	285	(a)	(b)	89	253	Ö	698	1,407	1,773	64	4,569
1998 Average	290	(a)	}b{	336	301	ŏ	696	1,491	1,719	73	4,905
1999 Average	259	(a)	Ìbί	725	248	Ö	657	1,478	1,493	93	4,953
2000 Average	225	(a)	}b∫	620	272	Ŏ	896	1,572	1,546	72	5.203
2001 Average	278	(a)	Ìbί	795	250	Ŏ	885	1,662	1,553	105	5.528
2002 Average	264	ìa;	}b∫	459	228	Ŏ	621	1,552	1,398	83	4.605
2003 Average	382	(a)	}b∫	481	220	Ŏ	867	1,774	1,376	61	5,162
2004 Average	452	(a)	Ìbί	656	250	20	1.140	1,558	1,554	70	5.701
2005 Average	478	(a)	}b∫	531	243	56	1,166	1,537	1,529	47	5,587
2006 Average	657	(a)	Ìbί	553	185	87	1,114	1,463	1,419	38	5.517
2007 Average	670	`5ó8	(b)	484	181	117	1,134	1,485	1,361	39	5,980
2008 Average	548	513	`221	627	210	103	988	1,529	1,189	26	5,954
2009 Average	493	460	185	450	182	79	809	1,004	1,063	50	4,776
2010 January	498	280	215	523	77	40	1,048	963	911	-	4,554
February	498	360	152	540	228	40	932	898	1,010	_	4,659
March	455	502	183	475	218	79	962	1,149	1,061	-	5,084
April	464	509	225	490	278	142	1,060	1,257	951	-	5,376
May	518	448	182	394	225	39	1,026	1,097	1,117	10	5,055
June	550	425	245	630	217	98	1,108	1,125	899	-	5,297
July	518	374	239	430	189	110	1,174	1,053	1,084	7	5,178
August	565	484	276	281	251	123	985	1,132	1,022	-	5,117
September	543	417	229	422	172	43	1,174	1,093	1,008	10	5,111
October	451	324	203	143	215	36	872	1,131	930	-	4,305
November	572	276	194	340	170	23	856	1,152	942	-	4,525
December	484	319	192	336	125	66	1,070	1,093	917	9	4,614
Average	510	393	212	415	197	70	1,023	1,096	988	3	4,906
2011 January	565	316	238	433	147	57	1,022	1,101	1,030	_	4,909
February	406	370	255	263	118	36	978	1,114	989	-	4,530
March	500	280	182	398	161	32	913	1,108	1,065	_	4,638
April	466	277	169	519	78	1	922	1,107	1,009	-	4,548
May	391	356	158	422	200	(s)	854	1,203	1,016	19	4,619
June	297	373	219	559	238	35	853	1,169	1,084	68	4,894
July	354	407	172	596	228	_	884	1,326	954	18	4,939
August	298	331	309	637	165	1	892	1,075	914	32	4,656
September	291	304	305	404	145	2	580	1,479	806	11	4,326
October	173	439	178	490	278	2	693	1,120	906	17	4,296
November	260	340	181	395	302	10	703	1,222	767	26	4,206
December	297	357	106	380	231	9	534	1,310	868	-	4,093
Average	358	346	206	459	191	15	818	1,195	951	16	4,555
2012 January	269	370	100	390	352	5	504	1,423	750	41	4,203
February	256	230	244	271	252	29	353	1,420	931	-	3,986
March	325	175	174	386	462	60	374	1,374	984	_	4,314
April	259	253	201	395	235	68	483	1,589	904	7	4,394
May	303	256	199	675	407	65	428	1,471	861	7	4,672
June	236	378	236	649	250	93	515	1,456	788	17	4,618
July	213	285	176	352	304	110	372	1,466	1,046	7	4,331
August	303	153	180	550	301	126	504	1,220	1,007	_	4,344
September	175	237	218	461	310	67	468	1,291	1,035	6	4,268
October	186	183	122	593	287	59	543	1,257	951	4	4,186
November	199	157	136	489	276	30	501	1,325	1,070	12	4,195
December	179	116	155	462	254	16	248	1,032	1,092	-	3,554

Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. Petroleum imports not classified as "OPEC" on this table are included on Table 3.3d. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products were produced. For example,

refined products imported from West European refining areas may have been produced from Middle East crude oil. • Includes imports for the Strategic Petroleum Reserve, which began in October 1977. • Totals may not equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia. 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/lotaierlegy/data/monthly/#petroleum!. • Por related minimation, 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.

44

Angola joined OPEC in January 2007. For 1973-2006, Angola is included in "Total Non-OPEC" on Table 3.3d.
 Ecuador was a member of OPEC from 1973-1992, and rejoined OPEC in November 2007. For 1993-2007, Ecuador is included in "Total Non-OPEC" on Table 2.3

Table 3.3d.

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

d For all years, includes Iran, Qatar, and United Arab Emirates. For 1973-2008, also includes Indonesia; and for 1975-1994, also includes Gabon.

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

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

	Brazil	Canada	Colombia	Mexico	Nether- lands	Norway	Russiaa	United Kingdom	U.S. Virgin Islands	Other	Total Non-OPEC
1973 Average	9	1.325	9	16	53	1	26	15	329	1.480	3,263
1975 Average	5	846	9	71	19	17	14	14	406	1,052	2.454
1980 Average	3	455	4	533	2	144	1	176	388	903	2,609
1985 Average	61	770	23	816	58	32	8	310	247	913	3,237
1990 Average	49	934	182	755	55	102	45	189	282	1,128	3,721
1995 Average	8	1,332	219	1,068	15	273	25	383	278	1,233	4,833
1996 Average	9	1,424	234	1,244	19	313	25	308	313	1,377	5,267
1997 Average	5	1,563	271	1,385	25	309	13	226	300	1,495	5,593
1998 Average	26	1,598	354	1,351	31	236	24	250	293	1,640	5,803
1999 Average	26	1,539	468	1,324	27	304	89	365	280	1,478	5,899
2000 Average	51	1,807	342	1,373	30	343	72	366	291	1,581	6,257
2001 Average	82	1,828	296	1,440	43	341	90	324	268	1,631	6,343
2002 Average	116	1,971	260	1,547	66	393	210	478	236	1,649	6,925
2003 Average	108	2,072	195	1,623	87	270	254	440	288	1,766	7,103
2004 Average	104	2,138	176	1,665	101	244	298	380	330	2,008	7,444
2005 Average	156	2,181	196	1,662	151	233	410	396	328	2,413	8,127
2006 Average	193 200	2,353	155 155	1,705	174 128	196 142	369 414	272 277	328 346	2,446	8,190
2007 Average	200 258	2,455 2,493	200	1,532 1,302	168	102	465	236	346 320	1,839 1,416	7,489 6,961
2008 Average2009 Average	309	2,493	276	1,210	140	102	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 Average	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
-				·							
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	239 190	2,688 2,880	395 529	1,185 1,192	81 64	87 97	585 592	125 124	185 189	1,001	6,571 6,943
September October	190	2,000	578	1,177	23	180	687	150	151	1,087 902	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
November	107	2,843	465	1,065	72	80	445	126	_	704	5,908
December	85	3,131	379	1,016	52	36	523	144	_	690	6,056
Average	224	2,955	432	1,031	99	75	477	155	12	881	6,341

^a Through 1992, may include imports from republics other than Russia in the

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.

former U.S.S.R. See "Union of Soviet Socialist Republics (U.S.S.R.)" in Glossary.

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

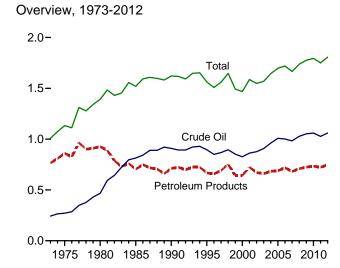
Notes: • See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary for membership. Petroleum imports not classified as "OPEC" on Table 3.3c are included on this table. • The country of origin for petroleum products may not be the country of origin for the crude oil from which the products 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

equal sum of components due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia.

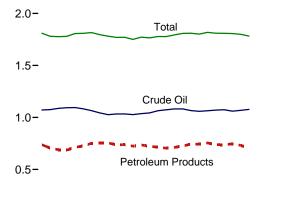
Web Pages: • For all available data beginning in 1973, see http://www.eia.gov/totalenergy/data/monthly/#petroleum. • For related information, see http://www.eia.gov/petroleum/.

Figure 3.4 Petroleum Stocks

(Billion Barrels, Except as Noted)

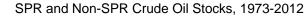


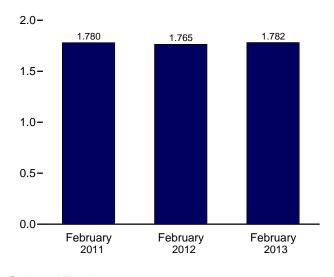
Overview, Monthly

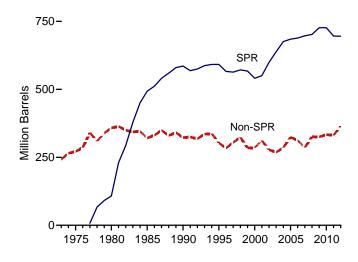


0.0 JFMAMJJASONDJFMAMJJASONDJFMAMJJASOND 2011 2012 2013

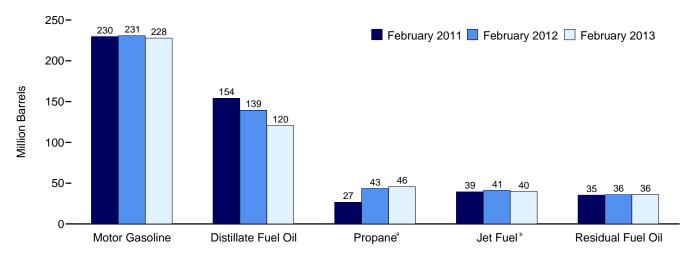
Total Stocks (Crude Oil and Petroleum Products)







Selected Products



^a Includes propylene.

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

period

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

^b Includes kerosene-type jet fuel only.

Table 3.4 Petroleum Stocks

(Million Barrels)

		Crude Oila				LPG	b				
	SPR ^c	Non-SPR ^{d,e,f}	Total ^{e,f}	Distillate Fuel Oil ^{f,g}	Jet Fuel ^h	Propane ^{f,i}	Total ^f	Motor Gasoline ^{f,j}	Residual Fuel Oil ^f	Other ^k	Total ^f
1973 Year 1975 Year		242 271	242 271	196 209	29 30	65 82	99 125	209 235	53 74	179 188	1,008 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	702	326	1,028	146	38	55	113	214	36	162	1,737
2009 Year	727	325	1,052	166	43	50	102	223	37	153	1,776
2010 Year	727	333	1,060	164	43	49	108	219	41	158	1,794
2011 January	727	345	1,072	163	42	35	87	236	39	171	1,809
February	727	348	1,075	154	39	27	73	230	35	174	1,780
March	727	360	1,087	149	40	24	71	215	38	177	1,776
April	727	367	1,093	143	38 41	28	81	204 214	40	180	1,779
May	727	368	1,095	145 144		34	93 107		38	181	1,807
June	727	356	1,082		42 44	40 47		215 215	38	180	1,809
July	718 696	346 347	1,065 1.043	154 155	44	47 52	121 132	215	38 39	179 173	1,816 1.796
August	696	330	1,043	153	43 46	52 57	135	215	39 35	173	1,796
September	696	337	1,026	142	46 45	60	135	207	35 37	171	1,761
October November	696	337 337	1,033	144	45 42	59	126	220	37 39	167	1,769
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	1,703
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
June	696	386	1.082	120	38	62	147	208	37	176	1,794
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	44	76	175	201	36	172	1.818
October	695	375	1.070	119	45	74	168	204	37	166	1.810
November	695	379	1.074	118	41	73	158	215	38	166	1,809
December	695	R 365	R 1,060	R 135	39	R 68	R 141	R 231	R 34	R 167	R 1,807
	E 005	E 0=0	E 4 00=	E	E 00	E ==	DE . o.	E 00.4	E 0.4	E	E . =00
2013 January	E 696	E 372	E 1,067	E 130	E 39	E 55	RF 121	E 234	E 34	E 174	E 1,799
February	E 696	E 381	E 1,077	E 120	E 40	E 46	^F 107	E 228	E 36	E 174	E 1,782

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

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

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

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, 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 and 2013: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

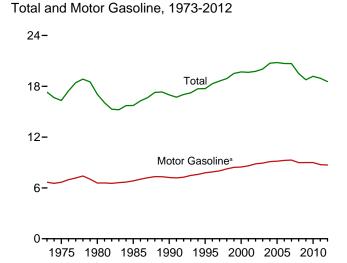
a Includes lease condensate.
b Liquefied petroleum gases.
c "SPR" is the Strategic Petroleum Reserve, which began in October 1977.
Crude oil stocks in the SPR include non-U.S. stocks held under foreign or commercial storage agreements.
d All crude oil stocks other than those in "SPR."
e Beginning in 1981, includes stocks of Alaskan crude oil in transit. See Note 5, "Stocks of Alaskan Crude Oil," at end of section.
See Note 4, "Petroleum New Stock Basis," at end of section.
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."
I Includes propylene.

Includes propylene.

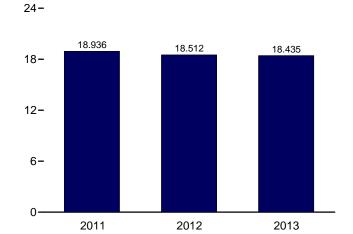
June Includes finished motor gasoline and motor gasoline blending components; excludes oxygenates.

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

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



Total, January-February



Selected Products, 1973-2012

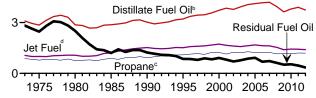


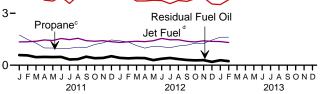
Selected Products, Monthly 12-







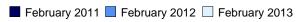


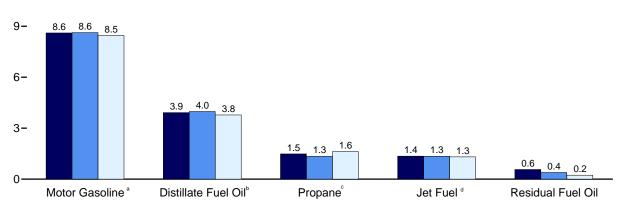


Motor Gasoline^a

Selected Products

12-





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

Note: SPR=Strategic Petroleum Reserve.

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

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

^c Includes propylene.

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

Table 3.5 Petroleum Products Supplied by Type

	Asphalt	Aviation	Distillate	lat	Vore	LPG	3 a	Lube	Motor	Petro-	Desidual		
	and Road Oil	Aviation Gasoline	Fuel Oil ^b	Jet Fuel ^c	Kero- sene	Propaned	Total	Lubri- cants	Motor Gasoline ^e	leum Coke	Residual Fuel Oil	Other ^f	Total
1973 Average	522	45	3,092	1,059	216	872	1,449	162	6,674	261	2,822	1,005	17,308
1975 Average	419	39	2,851	1,001	159	783	1,333	137	6,675	247	2,462	1,001	16,322
1980 Average	396	35	2,866	1,068	158	754	1,469	159	6,579	237	2,508	1,581	17,056
1985 Average	425	27	2,868	1,218	114	883	1,599	145	6,831	264	1,202	1,032	15,726
1990 Average	483	24	3,021	1,522	43	917	1,556	164	7,235	339	1,229	1,373	16,988
1995 Average	486	21	3,207	1,514	54	1,096	1,899	156	7,789	365	852	1,381	17,725
1996 Average	484	20	3,365	1,578	62	1,136	2,012	151	7,891	379	848	1,518	18,309
1997 Average	505	22	3,435	1,599	66	1,170	2,038	160	8,017	377	797	1,605	18,620
1998 Average	521	19	3,461	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	546 524	19	4,118	1,679	70	1,229	2,030	141	9,159	515	920	1,605	20,802
2006 Average	521	18	4,169	1,633	54	1,215	2,052	137	9,253	522 490	689	1,640	20,687
2007 Average	494 417	17 15	4,196	1,622 1.539	32 14	1,235 1,154	2,085 1,954	142 131	9,286 8.989	464	723 622	1,593 1,408	20,680 19.498
2008 Average	360	14	3,945 3,631	1,393	18	1,160	2,051	118	8,997	404	511	1,400	18,771
2009 Average	362	15	3,800		20	1,160				376			19,180
2010 Average	302	15	3,000	1,432	20	1,100	2,173	131	8,993	3/6	535	1,343	19,100
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	121	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	13	3,936	1,416	8	1,021	2,050	125	8,744	349	491	1,299	18,892
October	423	16	4,003	1,384	2	1,195	2,227	102	8,649	395	405	1,239	18,844
November	297	12	4,109	1,416	6	1,292	2,393	124	8,537	377	419	1,391	19,080
December	187	10	3,853	1,353	12	1,458	2,616	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	14	3,704	1,359	3	986	2,069	122	8,817	338	408	1,166	18,330
May	378	17	3,745	1,409	1	1,095	2,152	116	8,996	376	294	1,224	18,707
June	454	13	3,729	1,545	2	1,064	2,072	107	9,035	372	372	1,214	18,915
July	461	20	3,552	1,468	2	1,008	2,120	104	8,819	338	418	1,298	18,601
August	485	13	3,740	1,469	1	1,110	2,190	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	369	14	3,838	1,341	3	1,273	2,388	110	8,700	319	279	1,361	18,722
November	282 R 206	11 R O	3,902	1,407	3	1,258	2,367	116 R 04	8,539	380 R 363	294 R 400	1,303	18,604
December Average	^R 206 340	^R 9 14	^R 3,529 ^R 3,743	R 1,373 R 1,399	R 2 R 4	^R 1,452 ^R 1,191	R 2,541 R 2,270	R 91 R 113	^R 8,378 ^R 8,703	R 363 R 354	^R 190 ^R 345	^R 1,448 ^R 1,271	^R 18,130 ^R 18,555
- 2013 January	F 225	F 12	E 3,497	E 1,366	RF -5	E 1,614	RF 2,681	RF 142	E 8.377	F 327	E 290	RE 1,366	E 18,277
2013 January	F 237	F 11	E 3,777	E 1,310	F 25	E 1,620	F 2,611	F 123	E 8.451	F 310	E 234	E 1,521	E 18,609
February 2-Month Average	F 237	F 11	E 3,630	E 1,310	. ∠5 F 9	E 1,620	F 2,647	F 133	E 8,45 1	F 310	E 263	E 1,521	E 18,435
2012 2-Month Average 2011 2-Month Average	217 234	12 13	3,899 3,937	1,331 1,349	12 33	1,376 1,620	2,443 2,648	133 122	8,397 8,481	333 329	407 574	1,328 1,216	18,512 18,936

^a Liquefied petroleum gases.

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

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

see http://www.eia.gov/petroleum/.
Sources: • 1973-1975: Bureau of Mines, Mineral Industry Surveys, Petroleum Statement, Annual, annual reports. • 1976-1980: U.S. Energy Information Administration (EIA), Energy Data Reports, Petroleum Statement, Annual, annual reports. • 1981-2011: EIA, Petroleum Supply Annual, annual reports. • 2012 and 2013: EIA, Petroleum Supply Monthly, monthly reports; and, for the current two months, Weekly Petroleum Status Report data system, Short-Term Integrated Forecasting System, and Monthly Energy Review data system calculations.

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

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

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

[&]quot;Other."

d Includes propylene.

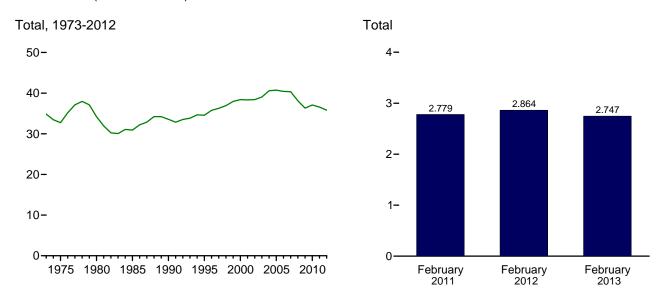
d Includes propylene.

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

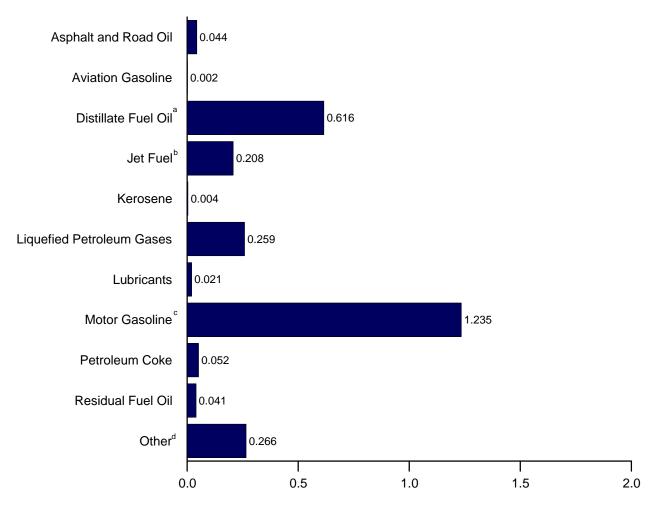
^f Pentanes plus, petrochemical feedstocks, special naphthas, still gas (refinery gas), waxes, and miscellaneous products. Beginning in 1981, also includes negative barrels per day of distillate and residual fuel oil reclassified as unfinished oils, and other products (from both primary and secondary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

R=Revised. E=Estimate. F=Forecast. (s)=Less than 500 barrels per day and greater than -500 barrels per day.

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



By Product, February 2013



^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)

	iioii bia,												
	Asphalt and	Aviation	Distillate	Jet	Kero-	LPG	a	Lubri-	Motor	Petro- leum	Residual		
	Road Oil	Gasoline	Fuel Oil ^b	Fuel ^c	sene	Propaned	Total	cants	Gasoline ^e	Coke	Fuel Oil	Otherf	Total
1973 Total	1,264	83	6,575	2,167	447	1,221	1,981	359	12,797	573	6,477	2,114	34,837
1975 Total	1,014	71	6,061	2,047	329	1,097	1,807	304	12,798	542	5,649	2,109	32,732
1980 Total	962	64	6,110	2,190	329	1,059	1,976	354	12,648	522	5,772	3,278	34,205
1985 Total	1,029	50	6,098	2,497	236	1,236	2,103	322	13,098	582	2,759	2,152	30,925
1990 Total	1,170	45	6,422	3,129	88	1,284	2,059	362	13,872	745	2,820	2,839	33,552
1995 Total	1,178	40 37	6,818	3,132	112	1,534	2,512	346 335	14,825	802 837	1,955	2,837	34,556
1996 Total	1,176 1,224	40	7,175 7,304	3,274	128 136	1,594 1,638	2,660 2,690	354	15,064 15,254	829	1,952 1,828	3,121 3,298	35,759
1997 Total 1998 Total	1,263	35	7,359	3,308 3,357	162	1,568	2,575	371	15,701	982	2,036	3,290	36,265 36,934
1999 Total	1,324	39	7,595	3,462	151	1,745	2,897	375	16,036	1,048	1,905	3,129	37,960
2000 Total	1,276	36	7,935	3,580	140	1,734	2,945	369	16,155	895	2,091	2,979	38,402
2001 Total	1,257	35	8,179	3,426	150	1,598	2,697	338	16,373	961	1,861	3,056	38,333
2002 Total	1,240	34	8,028	3,340	90	1,747	2,852	334	16,819	1,018	1,605	3,040	38,400
2003 Total	1,220	30	8,349	3,265	113	1,701	2,748	309	16,981	1,000	1,772	3,264	39,051
2004 Total	1,304	31	8,652	3,383	133	1,791	2,824	313	17,379	1,156	1,990	3,428	40,593
2005 Total	1,323	35	8,755	3,475	144	1,721	2,682	312	17,444	1,133	2,111	3,318	40,732
2006 Total	1,261	33	8,864	3,379	111	1,701	2,700	303	17,622	1,148	1,581	3,416	40,420
2007 Total	1,197	32	8,921	3,358	67	1,729	2,733	313	17,689	1,077	1,659	3,313	40,358
2008 Total	1,012	28	8,411	3,193	30	1,620	2,574	291	17,168	1,022	1,432	2,941	38,101
2009 Total	873	27	7,720	2,883	36	1,624	2,664	262	17,135	938	1,173	2,611	36,321
2010 Total	878	27	8,080	2,963	41	1,624	2,821	291	17,127	826	1,228	2,800	37,082
2011 January	45	2	715	237	3	207	304	23	1,354	67	113	227	3,091
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	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	3,086
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	3,092
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	44	2	690	231	(s)	167	270	24	1,324	69	82	238	R 2,976
February	42	2	672	222	4	149	250	24	1,305	52	72	219	R 2,864
March	49	2	669	243	(s)	135	245	21	R 1,397	60	81	209	2,976
April	65	2	647	231	. 1	113	219	22	R 1,381	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	R 1,415	67	70	211	R 3,008
July	95 100	2	641 675	258 258	(s)	120 132	230 239	20 21	1,427 1.478	63 76	81 69	232 233	3,051 3,152
August	88	2	643	258 235	(s) (s)	132	239	19	R 1,343	76 64	57	233 190	2,877
September October	00 76	2	693	236	(8)	151	263	21	R 1,408	60	5 <i>1</i>	241	3,054
November	56	2	682	239	•		252	21	1,337	69	56	225	2,939
December	R 42	R 1	R 637	R 241	R (s)	R 173	R 281	R 17	R 1,356	R 68	R 37	R 259	R 2,940
Total	R 826	25	R 7,979	R 2,904	1 R (s) R 8	R 1,671	R 2,940	R 251	R 16,624	R 779	R 793	R 2,676	R 35,806
2013 January	F 46	F ₂	E 631	E 240	RF -1	E 192	RF 294	RF 27	E 1,355	F 61	E 57	^{RE} 275	RE 2.987
February	F 44	F 2	E 616	E 208	F4	E 174	F 259	F 21	E 1,235	F 52	€ 41	E 266	E 2,747
2-Month Total	F 90	F 3	E 1,247	E 448	F3	^E 366	F 553	F 48	E 2,590	F 113	E 98	^E 540	^E 5,734
2012 2-Month Total	86	4	1,363	453	4	317	520	49	2,629	120	154	457	5,839
2011 2-Month Total	92	4	1,353	451	11	367	558	44	2,611	117	213	417	5,871
		-	,						,				- /=

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

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

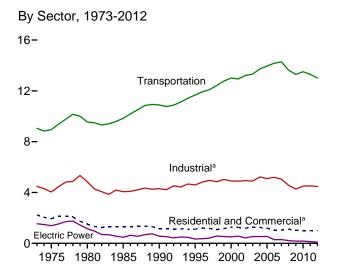
d Includes propylene.

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

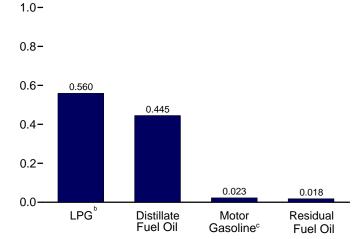
into motor gasoline.

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

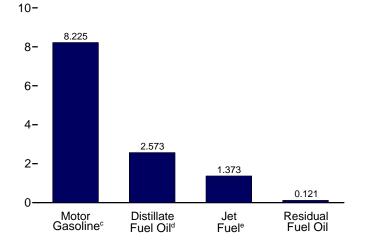
Figure 3.7 Petroleum Consumption by Sector (Million Barrels per Day)



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



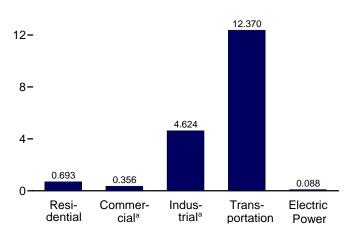
Transportation Sector, Selected Products, December 2012



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

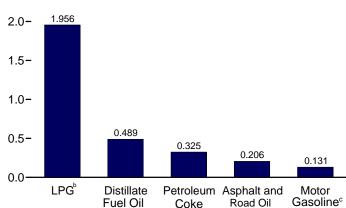
By Sector, December 2012

16-

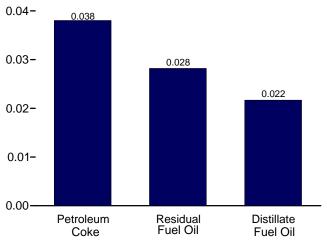


Industrial Sector,^a Selected Products, December 2012

2.5-



Electric Power Sector, December 2012



distillate fuel oil.

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

^b Liquefied petroleum gases.

[°] Includes fuel ethanol blended into motor gasoline.

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

^e Includes kerosene-type jet fuel only.

Table 3.7a Petroleum Consumption: Residential and Commercial Sectors

		Resident	tial Sector				Com	mercial Sec	tora		
	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kero- sene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petro- leum Coke	Residual Fuel Oil	Total
1973 Average 1975 Average 1980 Average 1980 Average 1990 Average 1990 Average 1997 Average 1997 Average 1998 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2006 Average 2007 Average 2007 Average 2007 Average 2008 Average 2009 Average	942 850 617 514 460 426 434 411 363 389 424 427 404 425 433 402 335 342 R 354 R 276	110 78 51 77 31 36 43 45 54 46 46 29 34 41 40 32 21 10	407 365 222 224 252 282 334 325 303 376 395 375 384 389 364 366 318 345 394	1,459 1,293 890 815 742 743 811 781 781 718 865 849 817 848 839 685 708 R 758	303 276 243 297 252 225 227 209 202 206 230 239 209 226 221 210 189 181 R 181	31 24 20 16 6 11 10 12 15 13 14 15 8 9 10 10 7 4 2 2	105 92 63 68 73 78 86 84 100 107 102 101 112 108 94 88 87 113	45 46 56 50 58 10 14 22 20 15 23 24 32 24 32 24 26 32 24 28	NA NA O (S)	290 214 245 99 100 62 60 48 37 32 40 35 48 53 53 53 8	7774 653 626 530 489 385 397 378 358 366 415 406 376 428 416 389 343 337 R 351 R 348
Potential September Cotober November December Average	R 447 R 458 R 263 R 190 R 202 R 237 R 184 R 164 R 153 R 227 R 263 R 420 R 266	10 24 8 5 8 11 13 7 6 10 32 35	461 441 388 321 327 338 345 353 363 370 373 466 379	R 918 R 923 R 659 R 516 R 536 R 586 R 542 R 524 R 521 R 608 R 668 R 922 R 659	R 309 R 317 R 182 R 131 R 139 R 164 R 127 R 114 R 106 R 157 R 182 R 290 R 184	2 4 1 1 1 2 2 1 1 1 2 5 6 2	122 116 102 85 86 89 91 93 96 98 99 123	R 27 R 27 R 27 R 28 R 29 R 29 R 29 R 29 R 28 R 28 R 28 R 28	(s) (s) (s) (s) 0 0 (s) (s) (s) (s) (s)	R 45 R 46 R 27 R 19 R 20 R 24 R 19 R 17 R 15 R 23 R 27 R 42 R 27	R 504 R 510 R 340 R 265 R 276 R 308 R 268 R 253 R 246 R 308 R 340 R 490 R 490
Petron Junuary	R 351 R 368 R 251 R 173 R 114 R 177 R 158 R 216 R 237 R 257 R 295 R 380 R 247	R 14 R 36 19 6 (s) 3 R 7 4 R 6 1 4 9	480 440 420 356 362 353 355 366 357 388 417 456 396	R 845 R 844 R 690 R 535 R 476 R 533 R 520 R 586 R 599 R 646 R 716 R 845 R 652	R 278 R 292 R 199 R 137 R 90 R 140 R 125 R 172 R 188 R 204 R 234 R 302 R 196	2 6 3 1 (s) 1 1 1 (s) 1 (s) 1 R 2 R 2	127 116 111 94 96 93 94 97 94 102 110 120	R 23 R 23 R 24 R 24 R 25 R 25 R 24 R 24 R 24 R 24 R 23 R 24 R 24	(s) (s) (s) 0 0 0 0 0 (s) (s) (s)	R 33 R 35 R 24 R 16 R 11 R 17 R 15 R 20 R 22 R 24 R 28 R 36 R 38	R 464 R 473 R 361 R 273 R 221 R 276 R 260 R 314 R 329 R 354 R 396 R 483 R 350
Poly January	R 395 R 332 R 270 R 197 R 196 R 203 R 189 R 238 R 191 R 170 R 224 248	1 R 17 1 2 (s) 1 2 1 2 2 2 2 3	429 422 388 361 375 361 369 382 388 416 412 443 395	R 826 R 771 R 659 R 560 R 571 R 565 R 560 R 620 R 581 R 588 R 638 693	R 314 R 264 R 214 R 157 R 155 R 161 R 150 R 189 R 152 R 135 R 178 197	(s) 3 (s) (s) (s) (s) (s) (s) (s) (s)	113 111 102 95 99 95 98 101 102 110 109 117	R 22 R 24 R 24 R 25 R 25 R 25 R 25 R 23 R 24 R 23 R 24	(s) (s) (s) (s) 0 (s) (s) (s) (s) (s) (s) (s)	R 29 R 24 R 20 R 14 R 14 R 15 R 17 R 14 R 12 R 16 18	R 479 R 426 R 360 R 291 R 293 R 296 R 286 R 332 R 292 R 281 R 327 356 335

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

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

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

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

Table 3.7b Petroleum Consumption: Industrial Sector

					Industria	I Sectora				
	Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total
1973 Average		691	75	902	88	133	254	809	1,005	4,479
1975 Average		630	58	844	68	116	246	658	1,001	4,038
1980 Average		621	87	1,172	82	82	234	586	1,581	4,842
1985 Average	425	526	21	1,285	75	114	261	326	1,032	4,065
1990 Average	483	541	6	1,215	84	97	325	179	1,373	4,304
1995 Average		532	7	1,527	80	105	328	147	1,381	4,594
1996 Average		557	9	1,580	78	105	343	146	1,518	4,819
1997 Average		566	9	1,617	82	111	331	127	1,605	4,953
1998 Average		570	11	1,553	86	105	390	100	1,508	4,844
1999 Average		558	6	1,709	87	80	426	90	1,532	5,035
2000 Average	525	563	. 8	1,720	86	79	361	105	1,458	4,903
2001 Average	519	611	11	1,557	79	155	390	89	1,481	4,892
2002 Average		566	7	1,668	78	163	383	83	1,474	4,934
2003 Average	503 537	534 570	12	1,561	72 73	171	375	96	1,579	4,903
2004 Average	537	570	14	1,646	73	195	423	108	1,657	5,222
2005 Average	546	594 594	19	1,549	72 74	187	404	123 104	1,605	5,100 5,100
2006 Average			14	1,627	71	198	425		1,640	5,193
2007 Average		595 8 697	6	1,637	73	161	412	84 R 84	1,593	5,056
2008 Average		R 637	2	1,419	67	131	394	N 84	1,408	R 4,559
2009 Average	360	R 508	2	1,541	61	128	363	R 57	1,251	^R 4,272
2010 January		R 482	3	2,036	60	R 133	201	_ 59	1,218	R 4,394
February		^R 525	6	1,949	70	^R 134	264	R 56	1,263	^R 4,516
March		R 657	2	1,714	71	R 137	356	54	1,421	R 4,676
April		^R 601	1	1,419	68	R 142	323	^R 60	1,463	R 4,408
May		R 469	2	1,446	66	R 143	274	51	1,351	R 4,180
June		^R 433	3	1,492	80	^R 145	333	43	1,386	R 4,431
July	470	R 346	3	1,523	73	R 145	303	53	1,373	R 4,289
August		^R 534	2	1,559	66	R 144	370	42	1,467	R 4,721
September		^R 670	1	1,604	70	R 142	371	51	1,326	R 4,699
October		^R 537	3	1,637	66	R 141	279	51	1,215	R 4,362
November		^R 638	8	1,648	64	^R 138	339	57	1,333	R 4,521
December		R 676	9	2,061	58	R 139	307	51	1,301	R 4,807
Average	362	^R 547	4	1,673	68	^R 140	310	52	1,343	R 4,500
2011 January	221	^R 711	3	2,123	64	R 130	275	^R 76	1,244	R 4,847
February		^R 601	R 7	1,946	62	^R 134	218	R 74	1,185	R 4,475
March	282	^R 751	R 4	1,856	77	^R 137	266	R 60	1,405	R 4,837
April		^R 568	^R 1	1,573	70	^R 137	302	^R 61	1,301	R 4,323
May	357	R 557	(s)	1,600	63	^R 137	359	R 60	1,082	R 4,216
June		^R 580	_ 1	1,561	64	R 141	309	^R 61	1,213	R 4,384
July		R 344	R 1	1,570	61	R 141	287	R 39	1,363	R 4,271
August		R 546	1	1,618	70	R 139	388	R 42	1,311	R 4,661
September		R 570	. 1	1,579	64	R 136	276	R 63	1,299	R 4,450
October		R 599	(s)	1,715	53	R 135	343	R 52	1,239	R 4,558
November		R 704	1	1,842	64	R 133	336	R 53	1,391	R 4,821
December Average		^R 487 ^R 584	2 2	2,014 1,749	57 64	R 135 R 136	173 295	^R 66 ^R 59	1,228 1,272	^R 4,350 ^R 4,517
			_							
2012 January		^R 637	(s) R 3	1,896	66	^R 128	303	^R 53	1,349	R 4,649
February		^R 781		1,864	71	R 134	242	R 51	1,306	R 4,671
March		^R 581	_ (s)	1,715	57	^R 134	292	^R 54	1,163	R 4,232
April		R 569	R (s)	1,594	63	R 137	311	R 53	1,166	R 4,223
May		^R 553	(s)	1,657	59	^R 140	343	R 38	1,224	R 4,393
June		R 479	(s)	1,596	55	R 141	336	R 46	1,214	R 4,320
July		R 367	(s)	1,632	54	^R 137	298	^R 52	1,298	R 4,299
August		^R 421	(s)	1,687	57	^R 142	368	R 44	1,320	R 4,524
September		R 522	(s)	1,713	53	R 134	314	R 38	1,090	R 4,307
October	369	^R 648	R (s)	1,839	57	^R 136	283	^R 35	1,361	R 4,728
November	282	^R 708	R (s)	1,823	60	^R 133	341	R 37	1,303	R 4,688
December		489	(s)	1,956	47	131	325	22	1,448	4,624
Average	340	562	1	1,748	58	136	313	44	1,271	4,471

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

day.

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

Sources: See end of section.

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

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

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

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.

Table 3.7c Petroleum Consumption: Transportation and Electric Power Sectors

Avistion Distillate Section Fuel Oil* Coke Fuel Oil* Fuel Oil* Coke					Transportat	ion Sector	r			E	Electric Po	wer Sectora	
1975 Average 339 998 992 31 70 6,512 310 8,951 107 1 1,280 1985 Average 35 1,311 1,062 13 77 6,441 608 9,546 79 2 1,069 1985 Average 27 1,491 1,218 21 71 6,667 342 9,838 40 3 435 1990 Average 24 1,722 1,522 16 80 07,708 433 10,88 45 14 507 1995 Average 21 1,577 1,514 13 76 77,707 37 11,688 45 14 507 1995 Average 22 1,1576 1,514 13 76 77,707 37 11,688 45 14 507 1995 Average 22 2,198 1,599 10 78 7,767 33 310 1,299 51 46 31 36 31 37 39 39 Average 22 1,12,52 1,673 10 82 8,336 290 12,765 66 51 418 2000 Average 21 1,275 8 8 11 8,873 36 13,012 82 45 378 2010 Average 19 2,248 1,599 10 73 8 8,662 295 13,298 60 80 227 2000 Average 19 2,248 1,599 10 73 8 8,662 295 13,298 60 80 227 2000 Average 19 2,248 1,595 41 10 73 8 8,662 295 13,298 60 80 227 2000 Average 19 2,283 1,679 20 68 8 8,488 365 13,957 54 111 392 2000 Average 19 3 2,883 1,679 20 68 8 8,484 365 13,957 54 111 382 2000 Average 19 3 2,883 1,679 20 68 8 8,484 365 13,957 54 111 382 2000 Average 18 3,017 1,633 20 67 9,029 395 14,176 33 79 715 72000 Average 19 19 2,883 1,679 20 68 8 8,484 365 13,957 54 111 382 2000 Average 17 3,037 1,622 16 6 69 9,093 433 14,287 42 78 113 30 60 80 227 2000 Average 17 8 3,017 1,633 20 67 9,029 395 14,176 33 597 157 2000 Average 17 8 3,017 1,633 20 67 9,029 395 14,176 33 597 157 2007 Average 17 7 8,281 1,539 29 64 8,834 840 8 13,521 20 33 63 79 2000 Average 17 8 2,028 1,539 29 64 8,834 840 8 13,521 20 33 63 79 2000 Average 17 8 2,028 1,539 29 64 8,834 840 8 13,521 20 33 63 79 2000 Average 17 8 2,038 1,439 29 64 8,834 840 8 13,521 20 33 63 79 20 64 8,834 840 8 13,524 30 69 33 63 79 20 64 8,834 840 8 13,522 30 69 33 63 79 20 64 8,834 840 8 13,524 30 69 33 63 79 20 64 8,834 840 8 13,524 30 69 33 63 79 20 64 8,834 840 8 13,524 30 69 33 63 79 20 64 8,834 840 8 13,524 30 69 33 63 79 20 64 8,834 840 840 84 840 840 840 840 840 840 840					Petroleum				Total		leum		Total
1880 Average	1973 Average	45	1,045	1,042	35	74	6,496	317	9,054		7	1,406	1,542
1985 Average		39	998	992	31	70	6,512	310	8,951	107	1	1,280	1,388
1990 Average	1980 Average												1,151
1995 Average 21 1,973 1,514 13 76 7,674 397 11,668 51 37 247 1996 Average 22 0,2096 1,578 11 73 7,772 370 11,921 51 36 273 1997 Average 22 2,198 1,599 10 78 7,883 310 12,099 52 46 311 1998 Average 21 2,352 1,673 10 82 8,336 290 12,765 66 51 488 1999 Average 21 2,352 1,673 10 82 8,336 290 12,765 66 51 448 2000 Average 21 2,352 1,673 10 82 8,336 290 12,765 66 51 448 2000 Average 21 2,352 1,673 10 82 8,336 290 12,765 66 51 448 2000 Average 21 2,258 1,614 10 73 8,652 295 13,208 80 0 80 227 3000 Average 16 2,665 1,578 12 68 8,733 249 13,08 80 0 80 227 3000 Average 16 2,665 1,578 12 68 8,733 249 13,08 80 0 80 227 379 2004 Average 17 2,783 1,630 14 69 8,887 321 13,720 52 101 382 2005 Average 18 3,017 1,633 20 67 9,029 395 14,178 35 97 157 2007 Average 17 3,037 1,622 16 69 9,093 433 14,178 35 97 157 2007 Average 15 8,2738 1,539 29 64 8,884 8,48 402 8,13,657 34 173 2008 Average 15 8,2738 1,539 29 64 8,884 8,48 13,28 13,28 170 104 8,2000 Average 17 8,262 1,393 20 57 8,884 1 8,344 4,128 4 78 173 2005 Average 11 8 2,625 1,333 20 67 9,029 395 14,178 35 97 157 2000 Average 17 8,283 1,344 26 57 8,830 8,41 8,344 13,296 33 63 79 201 January 10 8,2524 1,343 24 66 8,848 8,348 1,344 1,326 33 63 79 201 January 10 8,2524 1,343 24 66 8,848 1,344 1,324 2,42 78 173 2005 Average 11 8,2524 1,343 24 66 8,849 8,355 1,359 9 3 64 8,834 1,344 20 8,43 1,344 26 8 67 8,841 8,344 1,326 33 63 79 201 January 10 8,2524 1,343 24 66 8,849 8,355 1,359 9 3 64 8,834 1,344 1,326 33 63 79 201 January 10 8,2524 1,343 24 66 8,849 8,355 1,359 9 3 64 8,835 1,341 8,344 1,324 1,326 33 63 79 201 January 10 8,2524 1,343 24 66 8,834 1,344 1,326 33 63 79 201 January 10 8,2524 1,343 24 66 8,891 1,341 8,326 1,336 63 64 66 8,341 8,344 8,345 8,346 8,346 8,347 8,347 8,347 8,347 8,347 8,348 8,34													478
1996 Average 20 2,096 1,578 11 73 7,772 370 11,921 51 36 273 1997 Average 22 2,198 1,599 10 78 7,883 310 12,099 52 46 311 1998 Average 19 2,263 1,622 13 81 8,128 294 12,420 64 56 456 456 1999 Average 21 2,352 1,673 10 82 8,336 290 12,765 66 51 418 2000 Average 20 2,422 1,725 8 81 8,370 386 13,012 82 45 378 2010 Average 19 2,489 1,655 10 74 8,435 255 12,938 80 47 437 2012 Average 18 2,536 1,614 10 73 8,662 295 13,208 60 80 287 2010 Average 11 9 2,489 1,655 10 74 8,845 255 12,938 80 47 437 2012 Average 11 6 2,656 1,573 12 6 88 8,733 249 113,92 76 17 19 2,268 11 19 2,268 1,679 10 88 8,733 249 113,92 76 19 19 2,268 1,679 10 88 8,733 249 113,92 76 19 19 2,268 1,679 10 88 8,733 249 113,92 76 14 11 32 2006 Average 11 8 3,017 1,633 20 67 9,029 395 13,028 31 13,957 54 111 11 32 2006 Average 11 7 3,037 1,622 16 89 9,093 433 14,287 42 78 173 2008 Average 11 5 8,2738 1,599 29 64 8,834 8,402 8,433 14,287 42 78 173 2008 Average 11 4 8,2626 1,393 20 57 8,844 8,402 8,403 14,267 42 78 173 2008 Average 11 4 8,2626 1,393 20 57 8,844 8,402 8,403 14,287 42 78 173 2008 Average 11 4 8,2626 1,393 20 57 8,844 8,402 8,403 14,287 42 78 173 2008 Average 11 4 8,2626 1,393 20 57 8,844 8,402 8,403 14,287 42 78 173 2008 Average 10 7 8,2534 1,344 26 57 8,840 8,444 8,13,296 33 63 79 2010 January 10 8,2524 1,343 24 66 8 8,449 8,356 14,362 13 4 70 104 2009 Average 15 8,2788 1,444 8,2788 14,444 8,13,296 33 63 63 79 2010 January 10 8,2524 1,343 24 66 8 8,449 8,356 14,352 14 20 8,365 14,360 14 14 8,2626 13,343 24 66 8 8,449 8,356 14,350 14 14 8,2626 13,343 24 66 8 8,449 8,356 14,350 14 14 8,2626 14,360 14 14 8,2636 14	1990 Average												566
1997 Average	1995 Average												334
1999 Average													360 410
1999 Average													576
2000 Average 20 2,422 1,725 8 81 8,370 386 13,012 82 45 378 2001 Average 18 2,536 1,614 10 73 8,662 295 13,208 60 80 287 2002 Average 16 2,665 1,578 12 68 8,733 249 13,221 76 79 379 2004 Average 17 2,685 1,679 20 68 8,848 363 13,957 54 111 382 2005 Average 18 3,017 1,633 20 67 9,029 395 14,178 35 97 157 2007 Average 15 2,738 1,539 29 64 8,334 8 402 8 13,621 34 70 104 2009 Average 15 2,738 1,539 29 57 8,841 18 34 1,428 42 78 105 2009 Average													535
2007 Average 19 2,489 1,655 10 74 8,435 255 12,938 80 47 437 2002 Average 18 2,536 1,614 10 73 8,662 295 13,208 60 80 287 2003 Average 16 2,665 1,578 12 68 8,733 249 13,321 76 79 379 2004 Average 17 2,783 1,630 14 69 8,887 321 13,720 52 101 382 2005 Average 19 2,858 1,679 20 68 8,948 365 13,957 54 111 382 2005 Average 17 3,037 1,622 16 69 9,033 433 14,178 35 97 157 2007 Average 17 3,037 1,622 16 69 9,033 433 14,178 35 97 157 2007 Average 15 8,2738 1,539 29 64 8,834 402 8,13,626 33 63 79 2010 Average 14 8,2666 1,393 20 57 8,841 8,344 8,13,266 33 63 79 2010 January 10 8,2564 1,343 24 66 8,448 8,344 8,13,266 33 63 79 2010 January 10 8,2564 1,343 24 66 8,419 8,4	2000 Average												505
2002 Average													564
2003 Average													427
2004 Average													534
2006 Average	2004 Average	17	2,783	1,630		69	8,887		13,720		101	382	535
2007 Average													547
2008 Average									14,178				289
2009 Average 14 R 2,626 1,393 20 57 R 8,841 R 344 R 13,296 33 63 79 2010 January 10 R 2,838 1,344 26 57 R 8,360 R 417 R 12,596 79 67 93 February 10 R 2,524 1,343 24 66 R 8,419 R 12,762 30 69 38 March 14 R 2,708 1,443 22 67 R 8,628 R 410 R 13,291 24 69 41 April 17 R 2,813 1,410 18 64 R 8,937 R 470 R 13,729 23 62 40 May 15 R 2,796 1,446 18 62 R 8,937 R 470 R 13,770 33 64 66 July 20 R 2,848 1,494 19 69 R 9,127 R 203 R 13,976 44 178 100 August 14 <t< th=""><th></th><th></th><th>3,037</th><th></th><th></th><th></th><th></th><th>433</th><th>14,287</th><th></th><th></th><th></th><th>293</th></t<>			3,037					433	14,287				293
2010 January			° 2,738					K 402	¹ 13,621				209
February	2009 Average	14	·· 2,626	1,393	20	5/	``8,841	``344	13,296	33	63	79	175
February	2010 January	10		1,344	26	57				79	67	93	239
April 17 R 2.813 1,410 18 64 R 8,937 R 470 R 13,729 23 62 40 May 15 R 2,796 1,446 18 62 R 8,991 R 382 R 13,710 33 64 66 June 18 R 2,868 1,543 19 75 R 9,137 R 328 R 13,967 41 78 105 July 20 R 2,845 1,494 19 69 R 9,127 R 403 R 13,976 42 81 120 August 14 R 2,983 1,486 20 63 R 9,082 R 32,087 34 63 98 September 20 R 2,929 1,457 20 66 R 8,942 R 385 R 13,819 29 62 61 October 15 R 2,828 1,430 21 62 R 8,847 R 377 R 13,579 25 56 37 November 11 R 2,761 1,396 21 60 R 8,651 R 433 R 13,334 30 50 35 November 12 R 2,729 1,383 26 55 R 8,744 R 365 R 13,314 60 63 67 Average 15 R 2,729 1,383 26 55 R 8,744 R 365 R 13,314 60 63 67 Average 15 R 2,628 1,430 21 64 R 8,824 R 389 R 13,509 38 65 67 Average 15 R 2,628 1,335 24 59 R 8,447 R 37 R 12,579 38 65 67 April 10 R 2,644 1,457 20 66 R 8,635 R 342 R 13,394 R 3,396 R 3,306 R 37 March 18 R 2,616 1,385 23 73 R 6,638 R 342 R 13,294 29 82 37 April 10 R 2,844 1,457 20 66 R 8,635 R 354 R 13,386 33 54 46 May 18 R 2,907 1,424 20 59 R 8,656 R 355 R 13,439 31 55 41 July 19 R 2,901 1,473 20 58 R 8,866 R 223 R 13,568 33 54 46 May 18 R 2,907 1,424 20 59 R 8,656 R 355 R 13,439 31 55 41 July 19 R 2,901 1,473 20 58 R 8,866 R 223 R 13,568 36 81 52 August 18 R 3,048 1,554 20 67 R 8,762 R 200 R 13,170 26 73 33 October 13 R 2,918 1,416 20 67 R 8,762 R 200 R 13,170 26 73 33 October 13 R 2,918 1,416 20 67 R 8,762 R 200 R 13,170 26 73 33 October 16 R 2,921 1,384 22 50 R 8,490 R 23,58 R 13,995 30 66 31 Average 15 R 2,861 1,350 23 67 R 8,762 R 200 R 13,170 26 73 33 October 10 R 2,656 1,353 22 5 54 R 8,524 R 8,391 R 13,569 30 66 41 R 8,554 R 3,368 R 13,099 38 65 31 April 10 R 2,656 1,353 22 5 54 R 8,524 R 8,391 R 13,569 30 66 31 Average 17 R 2,850 1,350 22 5 6 R 8,490 R 2,77 R 13,170 26 73 33 30 October 10 R 2,656 1,353 22 5 54 R 8,524 R 8,391 R 13,569 30 66 31 Average 17 R 2,850 1,350 23 67 R 8,464 R 291 R 12,204 26 63 34 Average 17 R 2,858 1,1468 20 55 R 8,868 R 8,361 R 2,244 R 3,365 29 33 29 June 11 R 2,858 1,1468 20 55 R 8,868 R 8,866 R 223 R 13,555 29 33 29 June 11 R 2,858 1,1468 20 55 R 8,868 R 299 R 13,3		10						R 375					138
May 15 R 2,796 1,446 18 62 R 8,991 R 382 R 13,710 33 64 66 June 18 R 2,868 1,543 19 75 R 9,137 R 328 R 13,976 41 78 105 July 20 R 2,845 1,494 19 69 R 9,127 R 403 R 13,976 42 81 120 August 14 R 2,983 1,486 20 63 R 9,082 R 320 R 13,967 34 63 98 September 20 R 2,828 1,430 21 62 R 8,842 R 385 R 13,819 29 62 61 October 15 R 2,828 1,430 21 62 R 8,847 R 377 R 13,579 25 56 37 November 11 R 2,765 1,332 21 64 R 8,824 R 365 R 433 R 13,344 60 63 67 2011	March												134
June							R 8,937						125
July							K 8,991						164
August 14 R 2,983 1,486 20 63 R 9,082 R 320 R 13,967 34 63 98 September 20 R 2,929 1,457 20 66 R 8,942 R 385 R 13,819 29 62 66 1 October 15 R 2,828 1,430 21 62 R 8,847 R 377 R 13,579 25 56 37 November 111 R 2,761 1,396 21 60 R 8,651 R 433 R 13,334 30 50 35 December 122 R 2,729 1,383 26 55 R 8,744 R 365 R 13,314 60 63 67 Average 15 R 2,765 1,432 21 64 R 8,824 R 389 R 13,509 38 65 67 2011 January 11 R 2,575 1,346 27 60 R 8,217 R 417 R 12,654 43 85 56 February 14 R 2,620 1,352 24 59 R 8,447 R 421 R 12,937 33 75 37 March 18 R 2,816 1,385 23 73 R 8,638 R 342 R 13,294 29 82 37 April 10 R 2,844 1,457 20 66 R 8,656 R 355 R 13,349 31 55 41 June 177 R 3,019 1,540 20 61 R 8,806 R 355 R 13,349 31 555 41 June 177 R 3,019 1,540 20 61 R 8,806 R 355 R 13,343 31 55 44 46 May 18 R 2,907 1,424 20 59 R 8,656 R 355 R 13,343 31 55 41 June 177 R 3,019 1,540 20 61 R 8,801 R 388 R 13,915 32 70 43 July 19 R 2,901 1,473 20 58 R 8,866 R 223 R 13,558 36 81 52 August 18 R 2,901 1,473 20 58 R 8,866 R 223 R 13,558 36 81 52 August 18 R 2,918 1,416 20 61 R 8,801 R 387 R 13,333 24 73 33 October 16 R 2,921 1,384 22 50 R 8,866 R 223 R 13,558 36 81 52 November 12 R 2,852 1,416 23 60 R 8,847 R 366 R 13,009 28 56 31 Average 15 R 2,841 1,425 22 61 R 8,891 R 3,664 R 13,009 28 56 31 Average 15 R 2,841 1,425 22 61 R 8,893 R 3,309 28 56 31 Average 15 R 2,841 1,425 22 61 R 8,893 R 3,309 28 56 31 Average 15 R 2,841 1,425 22 61 R 8,893 R 3,364 R 13,369 29 33 29 June 17 R 2,812 1,409 21 56 R 8,831 R 3,668 R 13,009 28 56 31 Average 15 R 2,841 1,425 22 61 R 8,893 R 3,344 R 12,204 26 63 34 Period 14 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,580 1,350 25 54 R 8,689 R 2,98 R 13,3													224
September 20 R 2,929 1,457 20 66 R 8,942 R 385 R 13,819 29 62 61 October 15 R 2,828 1,430 21 62 R 8,847 R 377 R 13,579 25 56 37 November 11 R 2,761 1,396 21 60 R 8,651 R 433 R 13,334 30 50 35 December 12 R 2,729 1,383 26 55 R 8,744 R 365 R 13,314 60 63 67 Average 15 R 2,765 1,432 21 64 R 8,824 R 389 R 13,509 38 65 67 2011 January 11 R 2,620 1,352 24 59 R 8,217 R 417 R 12,654 43 85 56 February 14 R 2,620 1,352 24 59 R 8,447 R 421 R 12,654 43 85 56 February <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>R 0 000</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>244 196</td>							R 0 000						244 196
October 15 R 2,828 1,430 21 62 R 8,847 R 377 R 13,579 25 56 37 November 11 R 2,761 1,396 21 60 R 8,651 R 433 R 13,334 30 50 35 December 12 R 2,779 1,383 26 55 R 8,744 R 365 R 13,314 60 63 67 Average 15 R 2,765 1,432 21 64 R 8,824 R 389 R 13,509 38 65 67 2011 January 11 R 2,575 1,346 27 60 R 8,217 R 417 R 12,654 43 85 56 February 14 R 2,620 1,352 24 59 R 8,447 R 421 R 12,937 33 75 37 March 18 R 2,816 1,385 23 73 R 8,635 R 354 R 13,386 33 54 46 May													153
November			R 2 828				R 8 847	R 377					118
December 12 R2,729 1,383 26 55 R8,744 R365 R13,314 60 63 67 Average 15 R2,765 1,432 21 64 R8,824 R389 R13,509 38 65 67 2011 January 11 R2,575 1,346 27 60 R8,217 R417 R12,654 43 85 56 February 14 R2,620 1,352 24 59 R8,447 R421 R12,937 33 75 37 March 18 R2,816 1,385 23 73 R8,638 R342 R13,294 29 82 37 April 10 R2,844 1,457 20 66 R8,635 R354 R13,386 33 54 46 May 18 R2,907 1,424 20 59 R8,656 R355 R13,439 31 55 41 June 177 R3,019 1,540 20 61 R8,901 R358 R13,915 32 70 43 July 19 R2,901 1,473 20 58 R8,866 R233 R13,558 36 81 52 August 18 R3,048 1,554 20 67 R8,762 R240 R13,710 26 73 44 September 13 R2,918 1,416 20 61 R8,584 R372 R13,383 24 73 33 October 16 R2,921 1,384 22 50 R8,490 R297 R13,179 24 52 32 November 10 R2,656 1,353 25 54 R8,524 R3,891 R300 28 F6 31 Average 15 R2,841 1,425 22 61 R8,593 R38 R13,091 26 63 34 February 11 R2,580 1,350 23 67 R8,566 R312 R13,099 28 56 31 Average 15 R2,841 1,425 22 61 R8,593 R38 R13,294 30 66 41 2012 January 12 R2,852 1,416 23 60 R8,381 R306 R13,009 28 56 31 Average 15 R2,841 1,425 22 61 R8,593 R38 R13,294 30 66 41 2012 January 12 R2,851 1,313 24 62 R8,037 R304 R12,204 26 63 34 February 11 R2,580 1,350 23 67 R8,464 R291 R12,787 23 55 27 March 14 R2,623 1,382 22 54 R8,464 R291 R12,787 23 55 27 March 14 R2,623 1,350 23 67 R8,666 R312 R13,766 26 27 28 May 17 R2,812 1,409 21 56 R8,831 R244 R13,359 29 33 29 June 13 R2,818 1,468 20 51 R8,668 R299 R13,335 28 40 53			R 2 761										114
Average 15 R 2,765 1,432 21 64 R 8,824 R 389 R 13,509 38 65 67 2011 January 11 R 2,575 1,346 27 60 R 8,217 R 417 R 12,654 43 85 56 February 14 R 2,620 1,352 24 59 R 8,447 R 421 R 12,937 33 75 37 March 18 R 2,816 1,385 23 73 R 8,638 R 342 R 13,294 29 82 37 April 10 R 2,844 1,457 20 66 R 8,635 R 354 R 13,386 33 54 46 May 18 R 2,907 1,424 20 59 R 8,656 R 355 R 13,439 31 55 41 June 17 R 3,019 1,540 20 61 R 8,901 R 358 R 13,439 31 55 41 July 19 </th <th></th> <th></th> <th>R 2.729</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>189</th>			R 2.729										189
February 14 R 2,620 1,352 24 59 R 8,447 R 421 R 12,937 33 75 37 March 18 R 2,816 1,385 23 73 R 8,638 R 342 R 13,294 29 82 37 April 10 R 2,844 1,457 20 66 R 8,635 R 354 R 13,386 33 54 46 May 18 R 2,907 1,424 20 59 R 8,656 R 355 R 13,439 31 55 41 June 17 R 3,019 1,540 20 61 R 8,901 R 358 R 13,915 32 70 43 July 19 R 2,901 1,473 20 58 R 8,666 R 223 R 13,558 36 81 52 August 18 R 3,048 1,554 20 67 R 8,762 R 240 R 13,770 26 73 34 32 September			R 2,765					R 389					170
February 14 R 2,620 1,352 24 59 R 8,447 R 421 R 12,937 33 75 37 March 18 R 2,816 1,385 23 73 R 8,638 R 342 R 13,294 29 82 37 April 10 R 2,844 1,457 20 66 R 8,635 R 354 R 13,386 33 54 46 May 18 R 2,907 1,424 20 59 R 8,656 R 355 R 13,439 31 55 41 June 17 R 3,019 1,540 20 61 R 8,901 R 358 R 13,915 32 70 43 July 19 R 2,901 1,473 20 58 R 8,666 R 223 R 13,558 36 81 52 August 18 R 3,048 1,554 20 67 R 8,762 R 240 R 13,770 26 73 34 32 September	2011 January	11	R 2,575	1,346	27	60	R 8,217	R 417	R 12,654	43	85	56	184
March 18 R 2,816 1,385 23 73 R 8,638 R 342 R 13,294 29 82 37 April 10 R 2,844 1,457 20 66 R 8,635 R 354 R 13,294 29 82 37 April 18 R 2,907 1,424 20 59 R 8,656 R 355 R 13,439 31 55 41 June 17 R 3,019 1,540 20 61 R 8,901 R 358 R 13,915 32 70 43 July 19 R 2,901 1,473 20 58 R 8,866 R 223 R 13,558 36 81 52 August 18 R 3,048 1,554 20 67 R 8,762 R 223 R 13,558 36 81 52 August 18 R 3,048 1,554 20 67 R 8,762 R 223 R 13,710 26 73 44 52 20 67	February	14	R 2,620	1,352	24	59	R 8,447	^R 421		33	75	37	144
May 18 R 2,907 1,424 20 59 R 8,656 R 355 R 13,439 31 55 41 June 17 R 3,019 1,540 20 61 R 8,901 R 358 R 13,915 32 70 43 July 19 R 2,901 1,473 20 58 R 8,866 R 223 R 13,558 36 81 52 August 18 R 3,048 1,554 20 67 R 8,762 R 240 R 13,710 26 73 44 September 13 R 2,918 1,416 20 61 R 8,584 R 372 R 13,383 24 73 33 October 16 R 2,921 1,384 22 50 R 8,490 R 297 R 13,179 24 52 32 November 12 R 2,852 1,416 23 60 R 8,381 R 306 R 13,051 25 40 32 December 10<	March	18	^R 2,816	1,385	23	73	^R 8,638	R 342	R 13,294		82	37	147
June 17 R 3,019 1,540 20 61 R 8,901 R 358 R 13,915 32 70 43 July 19 R 2,901 1,473 20 58 R 8,866 R 223 R 13,558 36 81 52 August 18 R 3,048 1,554 20 67 R 8,762 R 240 R 13,710 26 73 44 September 13 R 2,918 1,416 20 61 R 8,584 R 372 R 13,383 24 73 33 October 16 R 2,921 1,384 22 50 R 8,490 R 297 R 13,379 24 52 32 November 12 R 2,852 1,416 23 60 R 8,381 R 306 R 13,051 25 40 32 December 10 R 2,656 1,353 25 54 R 8,524 R 386 R 13,009 28 56 31 Average <th< td=""><td></td><td></td><td>R 2,844</td><td></td><td></td><td></td><td>R 8,635</td><td>R 354</td><td>R 13,386</td><td></td><td></td><td></td><td>133</td></th<>			R 2,844				R 8,635	R 354	R 13,386				133
July 19 R 2,901 1,473 20 58 R 8,866 R 223 R 13,558 36 81 52 August 18 R 3,048 1,554 20 67 R 8,762 R 240 R 13,710 26 73 44 September 13 R 2,918 1,416 20 61 R 8,584 R 372 R 13,383 24 73 33 October 16 R 2,921 1,384 22 50 R 8,490 R 297 R 13,179 24 52 32 November 12 R 2,852 1,416 23 60 R 8,381 R 306 R 13,051 25 40 32 December 10 R 2,656 1,353 25 54 R 8,524 R 386 R 13,099 28 56 31 Average 15 R 2,841 1,425 22 61 R 8,593 R 338 R 13,294 30 66 41 2012 January 12 R 2,451 1,313 24 62 R 8,037 R 304 R 12,204 26 63 34 February 11 R 2,683 1,350 23 67 R 8,464 R 291 R			K 2,907				K 8,656	K 355	K 13,439				128
August 18 R 3,048 1,554 20 67 R 8,762 R 240 R 13,710 26 73 44 September 13 R 2,918 1,416 20 61 R 8,584 R 372 R 13,383 24 73 33 October 16 R 2,921 1,384 22 50 R 8,490 R 297 R 13,179 24 52 32 November 12 R 2,852 1,416 23 60 R 8,381 R 306 R 13,051 25 40 32 December 10 R 2,656 1,353 25 54 R 8,524 R 386 R 13,091 25 40 32 Average 15 R 2,841 1,425 22 61 R 8,593 R 338 R 13,294 30 66 41 2012 January 12 R 2,451 1,313 24 62 R 8,037 R 304 R 12,204 26 63 34 February 11 R 2,580 1,350 23 67 R 8,464 R 291 R 12,28			^K 3,019					K 358					145
September 13 R 2,918 1,416 20 61 R 8,584 R 372 R 13,383 24 73 33 October 16 R 2,921 1,384 22 50 R 8,490 R 297 R 13,179 24 52 32 November 12 R 2,852 1,416 23 60 R 8,381 R 306 R 13,051 25 40 32 December 10 R 2,656 1,353 25 54 R 8,524 R 386 R 13,009 28 56 31 Average 15 R 2,841 1,425 22 61 R 8,593 R 38 R 13,099 28 56 31 4 Average 15 R 2,841 1,425 22 61 R 8,593 R 38 R 13,099 28 56 31 4 P 2,841 1,425 22 61 R 8,593 R 36 R 13,009 28 56 31 4 P 2,841<							8,866 R o 763	223 R 240	N 13,558				169
October 16 R 2,921 1,384 22 50 R 8,490 R 297 R 13,179 24 52 32 November 12 R 2,852 1,416 23 60 R 8,381 R 306 R 13,051 25 40 32 December 10 R 2,656 1,353 25 54 R 8,524 R 386 R 13,009 28 56 31 Average 15 R 2,841 1,425 22 61 R 8,593 R 338 R 13,294 30 66 41 2012 January 12 R 2,451 1,313 24 62 R 8,037 R 304 R 12,204 26 63 34 February 11 R 2,680 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,623 1,359 20 59 R 8,656 R 312 R 13,176 26 27 28 May			R 2 018				R Q 5Q/	R 272	R 13 383				143 130
November 12 R 2,852 1,416 23 60 R 8,381 R 306 R 13,051 25 40 32 December 10 R 2,656 1,353 25 54 R 8,524 R 386 R 13,009 28 56 31 Average 15 R 2,841 1,425 22 61 R 8,593 R 338 R 13,294 30 66 41 2012 January 12 R 2,451 1,313 24 62 R 8,037 R 304 R 12,204 26 63 34 February 11 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,623 1,382 22 54 R 8,475 R 314 R 12,882 19 31 29 April 14 R 2,755 1,359 20 59 R 8,656 R 312 R 13,176 26 27 28 May	October		R 2 921				R 8 490	R 297	R 13 179				107
December 10 R 2,656 1,353 25 54 R 8,524 R 386 R 13,009 28 56 31 Average 15 R 2,841 1,425 22 61 R 8,593 R 338 R 13,294 30 66 41 2012 January 12 R 2,451 1,313 24 62 R 8,037 R 304 R 12,204 26 63 34 February 11 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,623 1,382 22 25 4 R 8,475 R 314 R 12,882 19 31 29 April 14 R 2,625 1,359 20 59 R 8,656 R 312 R 13,176 26 27 28 May 17 R 2,812 1,409 21 56 R 8,831 R 214 R 13,623 29 33 29 31 29 <th< td=""><td></td><td></td><td>R 2 852</td><td></td><td></td><td></td><td>R 8 381</td><td></td><td>R 13 051</td><td></td><td></td><td></td><td>97</td></th<>			R 2 852				R 8 381		R 13 051				97
Average 15 R 2,841 1,425 22 61 R 8,593 R 338 R 13,294 30 66 41 2012 January 12 R 2,451 1,313 24 62 R 8,037 R 304 R 12,204 26 63 34 February 11 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,623 1,382 22 54 R 8,475 R 314 R 12,882 19 31 29 April 14 R 2,755 1,359 20 59 R 8,656 R 312 R 13,176 26 27 28 May 17 R 2,812 1,409 21 56 R 8,831 R 214 R 13,359 29 33 29 June 13 R 2,858 1,545 20 52 R 8,669 R 266 R 13,623 29 37 45 July 20 </td <td>December</td> <td></td> <td>R 2.656</td> <td></td> <td></td> <td></td> <td>R 8.524</td> <td>R 386</td> <td>R 13.009</td> <td></td> <td></td> <td></td> <td>116</td>	December		R 2.656				R 8.524	R 386	R 13.009				116
February 11 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,623 1,382 22 54 R 8,475 R 314 R 12,882 19 31 29 April 14 R 2,755 1,359 20 59 R 8,656 R 312 R 13,176 26 27 28 May 17 R 2,812 1,409 21 56 R 8,831 R 214 R 13,359 29 33 29 June 13 R 2,858 1,545 20 52 R 8,669 R 266 R 13,623 29 37 45 July 20 R 2,818 1,468 20 51 R 8,658 R 299 R 13,335 28 40 53		15	R 2,841				R 8,593						137
February 11 R 2,580 1,350 23 67 R 8,464 R 291 R 12,787 23 55 27 March 14 R 2,623 1,382 22 54 R 8,475 R 314 R 12,882 19 31 29 April 14 R 2,755 1,359 20 59 R 8,656 R 312 R 13,176 26 27 28 May 17 R 2,812 1,409 21 56 R 8,831 R 214 R 13,359 29 33 29 June 13 R 2,858 1,545 20 52 R 8,669 R 266 R 13,623 29 37 45 July 20 R 2,818 1,468 20 51 R 8,658 R 299 R 13,335 28 40 53	2012 January	12	R 2.451	1.313	24	62	R 8.037	R 304	R 12.204	26	63	34	123
March 14 R 2,623 1,382 22 54 R 8,475 R 314 R 12,882 19 31 29 April 14 R 2,755 1,359 20 59 R 8,656 R 312 R 13,176 26 27 28 May 17 R 2,812 1,409 21 56 R 8,831 R 214 R 13,359 29 33 29 June 13 R 2,858 1,545 20 52 R 8,869 R 266 R 13,623 29 37 45 July 20 R 2,818 1,468 20 51 R 8,658 R 299 R 13,335 28 40 53	February		R 2,580				R 8,464						105
April 14 R 2,755 1,359 20 59 R 8,656 R 312 R 13,176 26 27 28 May 17 R 2,812 1,409 21 56 R 8,831 R 214 R 13,359 29 33 29 June 13 R 2,858 1,545 20 52 R 8,869 R 266 R 13,623 29 37 45 July 20 R 2,818 1,468 20 51 R 8,658 R 299 R 13,335 28 40 53		14	R 2,623			54	R 8,475	R 314	R 12,882	19	31		79
May 17 R 2,812 1,409 21 56 R 8,831 R 214 R 13,359 29 33 29 June 13 R 2,858 1,545 20 52 R 8,869 R 266 R 13,623 29 37 45 July 20 R 2,818 1,468 20 51 R 8,658 R 299 R 13,335 28 40 53	April		R 2,755	1,359			R 8,656	R 312	R 13,176	26	27		80
July			R 2,812				R 8,831	R 214					91
							K 8,869	^R 266					111
							~ 8,658						121
August													102
September 15 R 2,794 1,379 22 50 R 8,418 R 220 R 12,898 22 43 30 October 14 R 2,861 1,341 23 54 R 8,541 R 200 R 13,033 24 36 32								ZZU					94 92
October			R 2 768				R 8 383	R 213					92
November													88
Average													98

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

R=Revised.

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

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

Sources: See end of section.

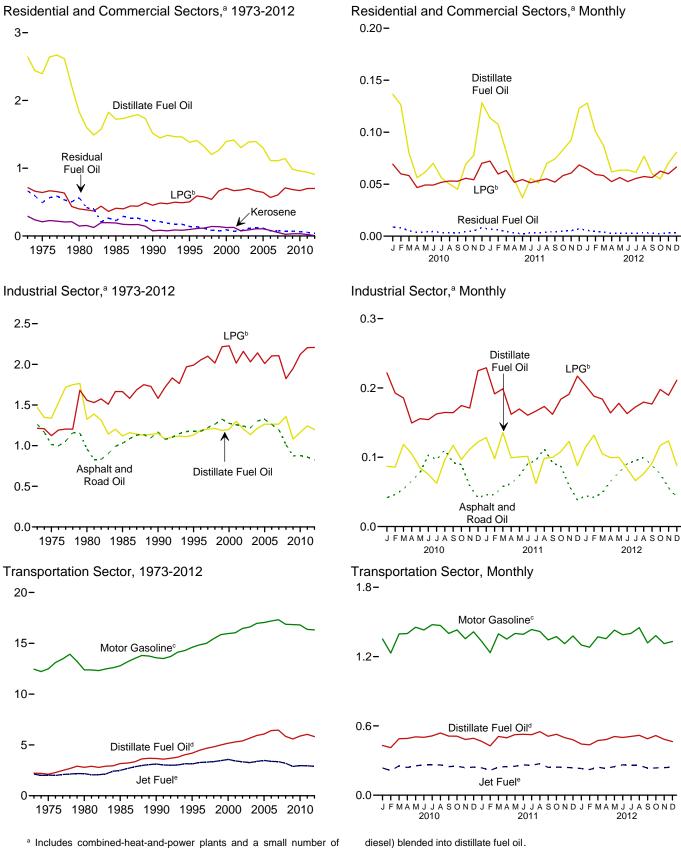
blended into motor gasoline.

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

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

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

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



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

Sources: Tables 3.8a-3.8c.

^b Liquefied petroleum gases.

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

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

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

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

					1						
		Resident	ial Sector				Con	mercial Sec	ctora		
	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Total	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Total
1973 Total	2,003 1,807	227 161	570 512	2,800 2,479	644 587	65 49	147 129	87 89	NA NA	665 492	1,607 1,346
1980 Total 1985 Total	1,316 1,092	107 159	311 314	1,734 1,565	518 631	41 33	88 95	107 96	NA NA	565 228	1,318 1,083
1990 Total	978	64	352	1,394	536	12	102	111	110	230	991
1995 Total	905	74	395	1,374	479	22	109	18	(s)	141	769
1996 Total	926	89	469	1,484	483	21	122	27	(s)	137	790
1997 Total	874	93	455	1,422	444	25	120	43	(s)	111	743
1998 Total	772 828	108 111	424 526	1,304	429 438	31 27	118 140	39 28	(s)	85 73	702 707
1999 Total 2000 Total	905	95	526 555	1,465 1,554	436 491	30	150	45	(s) (s)	73 92	807
2001 Total	908	95	526	1,529	508	31	143	37	(s)	70	790
2002 Total	860	60	537	1,457	444	16	141	45	(s)	80	726
2003 Total	905	70	544	1,519	481	19	157	60	(s)	111	828
2004 Total	924	85	512	1,520	470	20	152	45	(s)	122	810
2005 Total	854 712	84 66	513 446	1,451	447 401	22 15	131 123	46 49	(s)	116 75	762 664
2006 Total 2007 Total	712 726	44	446 484	1,224 1,254	384	15 9	123	49 61	(s) (s)	75 75	651
2008 Total	R 756	21	553	R 1,330	R 387	4	158	46	(s)	R 71	R 666
2009 Total	R 587	28	547	R 1,161	R 399	4	139	53	(s)	R 71	R 667
2010 January	R 81	2	55	^R 137	^R 56	(s)	14	4	(s)	Rg	R 84
February	R 75	4	47	R 126	R 52	. 1	13	4	(s)	R 8	R 77
March	^R 47 ^R 33	1	46 37	^R 95 ^R 71	R 33 R 23	(s)	12 10	R 4 R 4	(s)	R 5 R 4	^R 55 ^R 41
April May	R 36	1 1	39	R 77	R 25	(s) (s)	10	5	(s) 0	R 4	R 44
June	R 41	2	39	R 82	R 29	(s)	10	5	0	R 5	R 48
July	R 33	2	41	R 77	R 23	(s)	11	5	0	R 4	R 42
August	R 30	1	42	^R 73	_ 21	(s)	11	_ 5	(s)	R 3	R 40
September	27	1	42	R 69	R 18	(s)	11	R 4	(s)	R 3 R 4	R 37
October November	R 41 R 46	2 6	44 43	R 87 R 94	R 28 R 32	(s) 1	12 11	5 4	(s) (s)	^N 4	^R 49 ^R 53
December	R 76	6	55	R 138	R 52	1	15	R 4	(s)	R 8	R 81
Total	R 566	29	530	R 1,126	R 392	5	140	R 53	(s)	R 62	R 652
2011 January	R 63	2	57	R 123	^R 50	(s)	15	_ 4	(s)	R 6	R 76
February	R 60	6	47	R 113	48	1	12	R 3	(s)	R 6	R 71
March	R 45 R 30	3 1	50 41	^R 99 ^R 72	36	1	13	R 4 4	(s) 0	^R 5 ^R 3	^R 58 ^R 42
April May	R 21	(s)	41	R 64	24 ^R 16	(s) (s)	11 11	R 4	0	* 3 R 2	R 34
June	R 31	1	41	R 72	25	(s)	11	R 4	0	R 3	R 42
July	R 29	i	42	^R 72	23	(s)	11	R 4	ő	R 3	^R 41
August	R 39	1	44	R 83	31	(s)	12	R 4	0	R 4	^R 51
September	R 41	1	41	^R 83 ^R 93	33	(s)	11	4 R 4	0	R 4 R 5	R 52
October	^R 46 ^R 51	(s) 1	46 48	^R 100	37 41	(s)	12 13	^R 4 4	0	^K 5	^R 58 ^R 63
November December	R 69	2	48 54	R 124	R 54	(s) (s)	13	R 4	(s) (s)	**5 R 7	R 80
Total	R 526	R 19	554	R 1,098	R 417	3	146	R 45	(s)	R 54	R 666
2012 January	^R 71	(s)	51	^R 123	^R 57	(s)	13	4	(s)	^R 6	^R 79
February	^R 56	3	47	R ₁₀₆	R 45	(s)	12	_ 4	(s)	R 4	R 65
March	R 49	(s)	46	R 95	R 39	(s)	12	R 4	(s)	R 4	R 59
April	^R 34 ^R 35	(s)	41 45	^R 76 ^R 80	R 27 R 28	(s)	11 12	4 R 4	(s) 0	R 3 R 3	^R 45 ^R 47
May June	R 35	(s) (s)	45 42	R 77	R 28	(s) (s)	12	R 4	0	R3	R 46
July	R 34	(s)	44	R 78	R 27	(s)	12	R 4	(s)	R 3	R 45
August	R 43	(s)	45	R 88	R 34	(s)	12	R 4	(s)	R 3	^R 54
September	R 33	(s)	45	^R 78	R 27	(s)	12	4	(s)	R 3	R 45
October	R 31	(s)	49	R 80	R 24	(s)	13	R 4	(s)	R ₂	R 44
November	R 39	(s)	47	R 87	R 31	(s)	13	4	(s)	R 3	R 50
December	45 507	(s) 6	53 555	98 1,068	36 402	(s) 1	14 147	4 45	(s) (s)	4 40	57 635
Total	3U/	О	ວວວ	1,008	402	1	147	43	(8)	40	033

^a Commercial fuel use, including that commercial sector

Confinercial section little use, including that at confinercial combined-heat-and-power (CHP) and commercial electricity-only plants.

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

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

Table 3.8b Heat Content of Petroleum Consumption: Industrial Sector

(Trillion Btu)

		Industrial Sector ^a Asphalt Liquefied											
		Asphalt and Road Oil	Distillate Fuel Oil	Kerosene	Liquefied Petroleum Gases	Lubricants	Motor Gasoline ^b	Petroleum Coke	Residual Fuel Oil	Other ^c	Total		
1973 To	otal	1,264	1,469	156	1,215	195	255	558	1,858	2,114	9,083		
	otal	1.014	1,339	119	1,123	149	223	540	1,509	2,114	8.127		
1980 To	otal	962	1,324	181	1,559	182	158	516	1,349	3,278	9,509		
1985 To	otal	1,029	1,119	44	1,664	166	218	575	748	2,152	7,714		
	otal	1,170	1,150	12	1,582	186	185	714	411	2,839	8,251		
	otal	1,178	1,131	15	1,990	178	200	721	337	2,837	8,588		
1996 To	otal	1,176	1,187	18	2,054	173	200	757	335	3,121	9,020		
1997 To	otal	1,224	1,203	19	2,100	182	212	727	291	3,298	9,256		
	otal	1,263	1,211	22	2,016	191	199	858	230	3,093	9,083		
	otal	1,324	1,187	13	2,217	193	152	936	207	3,129	9,357		
2000 To	otal	1,276	1,200 1,300	16 23	2,228 2,014	190 174	150 295	796 858	241 203	2,979 3,056	9,076		
	otalotal	1,257 1,240	1,300	23 14	2,014 2,160	174	309	842	203 190	3,056	9,181 9.171		
	otal	1,220	1,136	24	2,030	159	324	825	220	3,264	9.202		
	otal	1,304	1,214	28	2,141	161	372	934	249	3,428	9.831		
2005 To	otal	1,323	1,264	39	2,009	160	356	889	281	3,318	9,640		
2006 To	otal	1,261	1,263	30	2,104	156	376	934	239	3,416	9,780		
2007 To	otal	1,197	1,265	13	2,106	161	306	906	193	3,313	9,461		
2008 To	otal	1,012	R 1,359	4	1,823	150	250	868	R 194	2,941	R 8,600		
2009 To	otal	873	^R 1,081	4	1,950	135	244	799	R 130	2,611	^R 7,826		
	nuary	42	_ 87	(s)	222	11	R 22	38	^R 12	215	R 648		
	ebruary	46	R 86	. 1	193	12	R 20	45	10	202	^R 613		
	arch	54	R 119	(s)	186	13	R 22	67	11	252	R 723		
	oril	66	R 105	(s)	149	12	R 22 R 23	58	11	251	R 676		
	ay ine	78 103	85 ^R 76	(s) (s)	156 154	12 14	R 23	51 60	10 8	240 237	^R 655 676		
	ıly	97	R 63	(5)	163	14	R 23	57	10	242	R 668		
	ugust	110	R 96	(s)	165	12	R 23	69	8	259	R 744		
	eptember	92	R 117	(s)	164	13	R 22	67	10	227	R 713		
	ctober	89	R 97	(s)	175	12	R 23	52	10	215	R 673		
No	ovember	59	^R 112	1	171	12	R 22	61	11	227	^R 675		
	ecember	42	R 122	2	225	11	R 22	57	10	233	R 724		
То	otal	878	^R 1,163	7	2,121	149	R 267	682	120	2,800	^R 8,188		
2011 Ja	nuary	45	^R 128	R (s)	229	12	R 21	51	^R 15	227	729		
	ebruary	46	R 98	1	191	11	R 20	37	R 13	190	R 607		
	arch	58	R 136	1	199	14	R 22	50	R 12	250	R 741		
	oril	62 73	^R 99 ^R 101	(s) (s)	162 170	13 12	R 21 R 22	55 67	R 12 R 12	224 194	^R 648 ^R 650		
	ay ine	73 90	R 101	(s)	161	12	R 22	56	R 12	209	R 663		
	ıly	96	R 62	(s)	167	11	R 23	54	Rg	245	R 665		
	ugust	112	R 99	(s)	173	13	R 22	73	R 8	234	^R 735		
Se	eptember	92	R 100	(s)	162	12	R 21	50	^R 12	224	R 672		
Oc	ctober	87	^R 108	(s)	184	10	R 22	64	^R 10	220	^R 705		
	ovember	59	123	(s)	191	12	R 21	61	R 10	239	715		
	ecember	38	R 88	(s)	217	.11	R 22	32	R 13	220	R 641		
То	otal	859	^R 1,242	4	2,205	142	R 260	648	R 135	2,676	R 8,171		
	inuary	44	^R 115	(s)	203	12	R 21	57	^R 10	238	^R 701		
Fe	ebruary	42	R 132	1	188	13	R 20	42	R 9	219	R 666		
	arch	49	R 105	(s)	184	11	R 22	55	R 10	209	R 644		
	oril	65	R 99	(s)	164	11	R 22	56	R 10 R 7	201	R 629		
	ay	78	^R 100 ^R 84	(s)	178	11	R 23 R 22	64 61	K 7 R 9	217	^R 678 ^R 650		
	ine	90 95	^R 66	(s) (s)	163 172	10 10	R 22	61 56	R 10	211 232	^R 663		
	ıly ıgust	100	R 76	(s)	180	10	R 23	69	R 9	232	R 699		
	eptember	88	R 91	(s)	177	10	R 21	57	R 7	190	R 641		
	ctober	76	R 117	(s)	198	11	R 22	53	R 7	241	R 725		
No	ovember	56	R 124	(s)	189	11	R 21	62	R 7	225	R 695		
De	ecember	42	88	(s)	211	9	21	61	4	259	696		
To	otal	826	1,197	1	2,207	129	259	690	100	2,676	8,086		

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. and is synonymous with the term petroleum consumption in Tables 3.74–3.8c.

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

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

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

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

Sources: See end of section.

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

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

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

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

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

		•	·	E	lectric Po	wer Sector ^a						
	Aviation Gasoline	Distillate Fuel Oilb	Jet Fuel ^c	Transporta 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 1980 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 2000 Total 2001 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2007 Total 2008 Total 2007 Total 2008 Total 2009 Total	83 71 64 50 45 40 37 40 35 39 36 35 34 30 31 31 35 33 32 28 27	2,222 2,121 2,795 3,170 3,661 4,195 4,469 4,672 4,812 5,001 5,165 5,292 5,392 5,666 5,932 6,076 6,414 6,457 R 5,837 R 5,583	2,131 2,029 2,179 2,497 3,132 3,374 3,308 3,357 3,462 3,580 3,426 3,340 3,265 3,343 3,475 3,379 3,358 3,379 3,358	49 43 18 30 23 18 16 14 12 14 17 19 28 27 22 40 28	163 155 172 156 176 168 163 172 180 182 179 164 162 150 151 147 152 141 127	12,455 12,485 12,485 12,383 12,784 13,575 14,607 14,837 14,999 15,463 15,855 15,960 16,041 16,465 16,597 16,962 17,043 17,197 17,321 16,872 R 16,838	727 711 1,398 786 1,016 911 851 712 674 665 888 586 677 571 740 837 906 994 R 926	17,832 17,615 19,009 19,472 21,626 23,070 23,648 23,918 24,538 25,219 25,820 25,557 26,085 26,297 27,219 27,645 28,335 R 27,038 R 26,277	273 226 169 85 97 108 109 111 136 140 175 171 127 161 111 115 74 89 73 70	15 2 5 7 30 81 80 102 124 112 99 103 175 175 222 243 214 171 154 139	3,226 2,937 2,459 998 1,163 566 628 715 1,047 959 871 1,003 659 869 879 876 361 397 240 181	3,515 3,166 2,634 1,090 1,289 755 817 927 1,306 1,211 1,144 1,277 961 1,205 1,212 1,235 648 657 468 390
2010 January	2 1 2 3 2 3 3 2 2 3 2 2 2 2 2 2	R 430 R 412 R 489 R 492 R 505 R 501 514 R 539 R 512 R 511 R 482 R 493 R 5,879	236 213 254 240 254 263 263 261 248 251 238 243 2,963	3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	11 11 13 12 12 14 13 12 12 12 11 11 10	R 1,352 R 1,230 R 1,396 R 1,399 R 1,454 R 1,476 R 1,469 R 1,460 R 1,431 R 1,354 R 1,414 R 16,807	R 81 R 66 R 80 R 89 R 74 R 62 R 79 R 62 R 73 R 73 R 873 R 871	R 2,115 R 1,936 R 2,235 R 2,330 R 2,349 R 2,349 R 2,349 R 2,249 R 2,283 R 2,171 R 2,237	14 5 4 4 6 7 8 6 5 4 5 11	12 12 13 11 12 14 15 12 11 10 9 12	18 7 8 8 13 20 23 19 12 7 7 7 13	45 23 25 23 31 41 46 37 28 22 21 36 378
2011 January February March April May June July August September October November December Total	2 2 3 2 3 3 3 3 2 2 2 2 2 2 2	R 465 R 427 R 509 R 497 R 525 R 528 R 524 R 550 R 510 R 527 R 498 R 480	237 215 243 248 250 262 259 273 241 243 243 241 238 2,950	3 3 2 2 2 2 2 2 2 3 3 3 3	11 10 14 12 11 11 13 11 9 11 10 134	R 1,329 R 1,234 R 1,397 R 1,352 R 1,400 R 1,393 R 1,434 R 1,417 R 1,373 R 1,373 R 1,379 R 16,365	R 81 R 74 67 R 67 R 69 R 67 R 43 47 R 70 58 S 78 R 75 R 776	R 2,128 R 1,965 R 2,235 R 2,179 R 2,266 R 2,276 R 2,306 R 2,180 R 2,216 R 2,216 R 2,124 R 2,186 R 2,186	855666754445564	16 13 15 10 10 13 15 14 13 10 7 11	11 6 7 9 8 8 10 9 6 6 6 6 6 9	35 24 28 24 24 24 26 32 27 24 20 18 22 303
2012 January February March April May June July August September October November December Total	2 2 2 2 3 2 2 2 2 2 2 2 2 2 2	R 443 R 436 R 474 R 481 R 508 R 499 R 509 R 518 R 488 R 517 R 484 465	231 222 243 231 248 263 258 258 235 236 239 241 2,904	3 3 2 2 2 2 2 3 3 3 3 3 3	12 12 10 11 11 11 9 10 10 10 8 122	R 1,300 R1,281 R1,371 R1,375 R1,429 R1,389 R1,4401 R1,451 R1,318 R1,382 R1,312 1,331 16,320	R 59 R 53 61 59 R 42 50 R 58 49 R 42 39 40 24 576	R 2,049 R 2,008 R 2,164 R 2,142 R 2,241 R 2,215 R 2,291 R 2,096 R 2,188 2,090 2,073 25,799	5 4 3 4 5 5 5 4 4 4 4 4 4 5 5	12 10 6 5 6 7 7 8 8 8 7 7 7	7 5 6 5 6 9 10 8 6 6 5 5 77	23 18 15 15 17 20 23 19 17 16 17

^a Electricity-only and combined-heat-and-power (CHP) plants within the NAICS Electricity-only and combined-riear-and-power (CFF) pians within the rivalces 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 int fuel only; paphtha-type jet fuel. Beginning in

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

amount of fuel oil no. 4.

R=Revised.

R=Revised.

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

⁻ Triough 2044, includes keroserie-type and naprilina-type jet fuel: beginning in 2005, includes kerosene-type jet fuel only; naphtha-type jet fuel is included in "Industrial Sector Other" on Table 3.8b. d Finished motor gasoline. Beginning in 1993, also includes fuel ethanol blended into motor gasoline.

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

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

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 and 2013: 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.

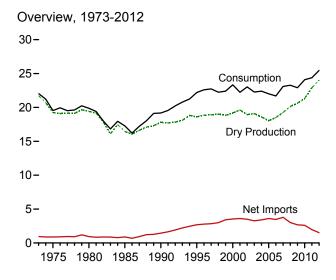
Total Petroleum

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.

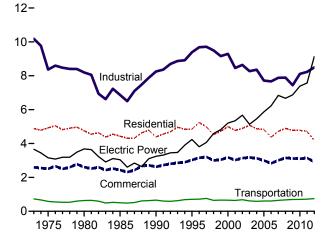
THIS PAGE INTENTIONALLY LEFT BLANK

4. Natural Gas

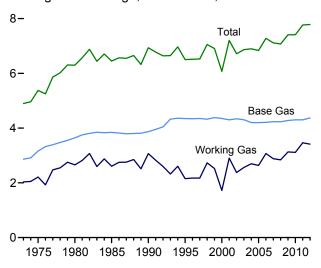
Figure 4.1 Natural Gas (Trillion Cubic Feet)



Consumption by Sector, 1973-2012

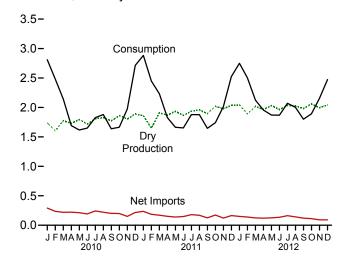


Underground Storage, End of Year, 1973-2012

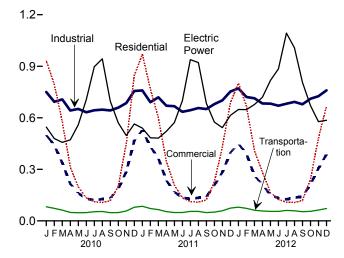


Web Page: http://www.eia.gov/totalenergy/data/monthly/#naturalgas. Sources: Tables 4.1, 4.3, and 4.4.

Overview, Monthly



Consumption by Sector, Monthly



Underground Storage, End of Month

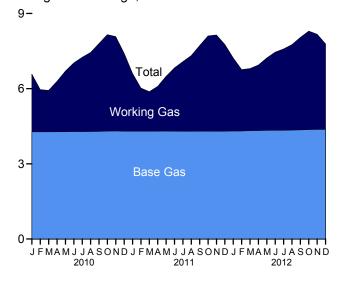


Table 4.1 Natural Gas Overview

(Billion Cubic Feet)

	-196 -235 -640 -428 307 396 860 871 657	22,049 19,538 19,877 17,281 19,174 22,007 22,609
	-196 -235 -640 -428 307 396 860 871 657	22,049 19,538 19,877 17,281 19,174 22,207
1975 Total 21,104 20,109 872 19,236 NA 953 73 880 -344 1980 Total 21,870 20,180 777 19,403 155 985 49 936 23 1985 Total 19,607 17,270 816 16,454 126 950 55 894 235 1990 Total 21,523 18,594 784 17,810 123 1,532 86 1,447 -513 1995 Total 23,744 19,506 908 18,599 110 2,841 154 2,687 415 1996 Total 24,114 19,812 958 18,854 109 2,937 153 2,784 2 1997 Total 24,213 19,866 964 18,902 103 2,994 157 2,837 24 1998 Total 24,108 19,961 938 19,024 102 3,152 159 2,993 -530	-235 -640 -428 307 396 860 871 657	19,538 19,877 17,281 19,174 22,207
1980 Total 21,870 20,180 777 19,403 155 985 49 936 23 1985 Total 19,607 17,270 816 16,454 126 950 55 894 235 1990 Total 21,523 18,594 784 17,810 123 1,532 86 1,447 -513 1995 Total 23,744 19,506 908 18,599 110 2,841 154 2,687 415 1996 Total 24,114 19,812 958 18,854 109 2,937 153 2,784 2 1997 Total 24,213 19,866 964 18,902 103 2,994 157 2,837 24 1998 Total 24,108 19,961 938 19,024 102 3,152 159 2,993 -530	-640 -428 307 396 860 871 657	19,877 17,281 ¹ 19,174 22,207
1985 Total 19,607 17,270 816 16,454 126 950 55 894 235 1990 Total 21,523 18,594 784 17,810 123 1,532 86 1,447 -513 1995 Total 23,744 19,506 908 18,599 110 2,841 154 2,687 415 1996 Total 24,114 19,812 958 18,854 109 2,937 153 2,784 2 1997 Total 24,213 19,866 964 18,902 103 2,994 157 2,837 24 1998 Total 24,108 19,961 938 19,024 102 3,152 159 2,993 -530	-428 307 396 860 871 657	17,281 ^j 19,174 22,207
1990 Total 21,523 18,594 784 17,810 123 1,532 86 1,447 -513 1995 Total 23,744 19,506 908 18,599 110 2,841 154 2,687 415 1996 Total 24,114 19,812 958 18,854 109 2,937 153 2,784 2 1997 Total 24,213 19,866 964 18,902 103 2,994 157 2,837 24 1998 Total 24,108 19,961 938 19,024 102 3,152 159 2,993 -530	307 396 860 871 657	^j 19,174 22,207
1995 Total 23,744 19,506 908 18,599 110 2,841 154 2,687 415 1996 Total 24,114 19,812 958 18,854 109 2,937 153 2,784 2 1997 Total 24,213 19,866 964 18,902 103 2,994 157 2,837 24 1998 Total 24,108 19,961 938 19,024 102 3,152 159 2,993 -530	396 860 871 657	22,207
1996 Total 24,114 19,812 958 18,854 109 2,937 153 2,784 2 1997 Total 24,213 19,866 964 18,902 103 2,994 157 2,837 24 1998 Total 24,108 19,961 938 19,024 102 3,152 159 2,993 -530	860 871 657	
1997 Total 24,213 19,866 964 18,902 103 2,994 157 2,837 24 1998 Total 24,108 19,961 938 19,024 102 3,152 159 2,993 -530	871 657	
1998 Total	657	22,737
		22,246
1999 Total	-119	22,405
2000 Total	-306	23,333
2001 Total	99	22,239
2002 Total	65	23,027
2003 Total	44	22,277
2004 Total	461	22,403
2005 Total	236	22,014
2006 Total	103	21,699
2007 Total	-203	23,104
2008 Total	2	23,277
	-103	22,910
2010 January	-46	2,810
February	9	2,481
March	109 102	2,143 1.692
	102	1,692
May	61	1,650
July	2	1,826
August	16	1.879
September	21	1,637
October	-42	1,665
November	-61	1,973
December	-73	2,714
Total	115	24,087
2011 January 2,299 1,953 92 1,861 5 372 136 236 811 February 2,104 1,729 82 1,647 4 311 125 186 594	-31 16	2,882 2.448
February 2,104 1,729 82 1,647 4 311 125 186 594 March 2,411 2,002 95 1,908 5 315 145 171 151	-3	2,446
April	20	1,828
May	-10	1,663
June	-15	1.653
July	3	1,877
August	-7	1,878
September	27	1,646
October	-65	1,741
November	-50	2,014
December	-69 -185	2,524 24,385
2012 January	^R 5	2,750
	R 16	R 2,500 2.124
	^ 16 R 5	2,124 1,956
April	R-11	1,956
June	R -4	R 1,867
July	R 2	2,071
August	R -4	2.001
September 2,428 ^E 2,087 ^R 105 ^{RE} 1,981 5 258 137 121 -291	^R -16	R 1,800
October	R -44	1,892
November	R -63	2,154
December 2,560 E2,149 107 E2,041 6 251 159 91 385	-51	2,472
Total	-158	25,457

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

b Gross withdrawals minus repressuring, nonhydrocarbon gases removed, and vented and flared. See Note 1, "Natural Gas Production," at end of section.

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

d Marketed production (wet) minus extraction loss.
See 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.

For 1989-1992, a small amount of consumption at independent power producers may be counted in both "Other Industrial" and "Electric Power Sector" on Table 4.3. See Note 7, "Natural Gas Consumption, 1989-1992," at end of section. R=Revised. E=Estimate. NA=Not available. Notes: • See Note 8, "Natural Gas Adjustments, 1993-2000," at end of section.

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.

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

Balancing Item: Calculated as consumption minus dry gas production, supplemental gaseous fuels, net imports, and net storage withdrawals. • All Other Data: 1973-2006—U.S. Energy Information Administration (EIA), Natural Gas Annual, annual reports. 2007 forward—EIA, Natural Gas Monthly, February 2013, Table 1.

Table 4.2 Natural Gas Trade by Country

(Billion Cubic Feet)

	non cubic r coty									1				
					Imports							Exports		
	Algeriaª	Canada ^b	Egypta	Mexicob	Nigeria ^a	Qatara	Trinidad and Tobago ^a	Other ^{a,c}	Total	Canada ^b	Japan ^a	Mexicob	Other ^{a,d}	Total
1973 Total 1975 Total 1980 Total 1985 Total 1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total	3 5 86 24 84 18 35 66 69 76 47 65 27 53 120 97	1,028 948 797 926 1,448 2,816 2,899 3,052 3,368 3,544 3,729 3,785 3,607 3,700 3,593	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 0 102 0 0 7 14 17 15 55 12 10 2 0 0 9	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 20 46 23 33 51 14 12 3	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 5 12 17 17 17 14 8 11 46 11 0 0 18	1,033 953 985 985 985 985 2,841 2,937 3,152 3,586 3,782 3,977 4,015 3,944 4,259 4,341 4,186 4,608	15 10 0 17 28 52 56 40 39 73 167 189 271 395 358 341 482	48 53 45 53 65 68 62 66 64 66 63 66 62 65 61 47	14 9 4 2 216 61 34 38 53 61 106 141 263 347 305 322 292	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	77 73 49 55 86 154 157 159 163 244 373 516 680 854 729 724
2008 Total 2009 Total	0	3,589 3,271	55 160	43 28	12 13	3 13	267 236	15 29	3,984 3,751	559 701	39 31	365 338	0 3	963 1,072
Petron January	0	327 277 276 252 257 248 291 282 250 257 242 322 3,280	17 12 9 6 9 6 0 6 3 0 73	1 1 5 5 4 2 1 1 1 3 4 (s) 1	0 0 3 9 9 11 5 0 3 2 0 0	12 6 1 9 0 0 0 0 5 9 4 46	22 16 16 15 16 11 17 17 16 15 14 15	6 12 9 3 3 5 8 5 3 9 9 9 8	385 324 319 298 298 282 329 305 282 295 273 352 3,741	68 60 77 50 55 51 50 49 50 63 84 82 739	2 2 2 4 2 2 4 2 7 2 2 3 3	23 22 21 22 29 34 32 33 25 30 38 333	0 3 0 0 0 3 0 0 0 0 6 8 12 32	94 88 100 76 86 90 86 84 79 96 124 135 1,137
Petron January	0 0 0 0 0 0 0	332 279 277 245 236 239 273 250 231 251 233 272 3,117	3 6 6 6 3 6 0 0 3 0 3 3 3 5	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	13 0 14 4 24 5 5 8 4 8 3 4	16 11 10 11 8 11 13 11 8 8 12 10 129	9 15 9 13 0 6 3 9 9 12 0 9	372 311 315 278 271 267 293 280 252 282 249 298 3,469	85 84 98 76 80 71 64 67 77 64 84 87	2 2 2 2 3 2 0 2 2 0 2 2 0 18	37 37 41 43 44 47 47 42 39 43 39 42 500	13 3 6 6 0 3 0 8 3 5 5 52	136 125 145 127 132 120 113 111 127 110 128 134 1,507
Page 2012 January February March April May June July August September October November December Total	0 0 0 0 0 0 0 0	265 250 246 235 243 251 265 262 246 242 219 234 2,960	0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	0 0 0 0 0 0 0 0 0	4 0 4 4 6 0 3 3 3 6 3 0 3 4	9 11 13 1 11 8 12 16 8 5 8 8 112	3 6 3 3 0 0 0 0 0 0 0 3 9 26	281 270 265 243 259 260 281 258 253 233 251 3,135	84 87 93 78 78 64 62 77 80 75 93 102	3 2 0 0 3 2 0 2 0 2 0 14	40 42 46 45 52 58 57 60 58 61 49 52 620	3 0 3 0 0 0 0 0 0 0 3 3 0 0 0 0 0 0 0 0	130 130 141 123 133 125 118 139 137 140 142 159 1,619

a As liquefied natural gas.

As inquened natural gas.
 By pipeline, except for very small amounts of liquefied natural gas imported from Canada in 1973, 1977, and 1981 and exported to Mexico beginning in 1998.
 See Note 9, "Natural Gas Imports and Exports," at end of section.
 Australia in 1997-2001 and 2004; Brunei in 2002; Equatorial Guinea in 2007; Indonesia in 1986 and 2000; Malaysia in 1999 and 2002-2005; Norway in 2008 forward; Oman in 2000-2005; Peru in 2010 and 2011; United Arab Emirates in 1996-2009; Verman is 2010 fearuard; and Other (unexispend) in 2004.

^{1996-2000;} Yemen in 2010 forward; and Other (unassigned) in 2004.

d Brazil in 2010 forward; Chile in 2011; China in 2011; India in 2010 forward; Russia in 2007; South Korea in 2009-2011; Spain in 2010 and 2011; and United Kingdom in 2010 and 2011.

⁽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, February 2013, 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-Use Sectors											
					Industrial			Tr	ansportatio	n	1	
	Resi-	Com-	Lease and		Other Industr	ial		Pipelinesd and Dis-	Vehicle		Electric Power	
	dential	merciala	Plant Fuel	CHPb	Non-CHP ^c	Total	Total	tribution ^e	Fuel	Total	Sector ^{f,g}	Total
1973 Total 1975 Total 1985 Total 1985 Total 1990 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 2000 Total 2001 Total 2002 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2007 Total 2007 Total 2007 Total 2008 Total 2008 Total 2009 Total	4,879 4,924 4,752 4,433 4,391 4,850 5,241 4,984 4,726 4,996 4,771 4,889 5,079 4,869 4,827 4,368 4,722 4,892 4,779	2,597 2,508 2,611 2,432 2,623 3,031 3,158 3,215 2,999 3,045 3,023 3,144 3,179 3,129 2,832 3,013 3,153 3,119	1,496 1,396 1,026 966 1,236 1,220 1,250 1,203 1,173 1,079 1,151 1,119 1,113 1,122 1,098 1,142 1,226 1,275	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	8,689 6,968 7,172 5,901 5,963 6,965 6,675 6,035 6,287 6,007 6,065 5,412 5,604 5,715 5,178	8,689 6,968 7,172 5,901 17,018 8,164 8,435 8,511 8,320 8,079 8,142 7,344 7,527 6,652 6,652 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 8,643 8,273 8,354 7,713 7,669 7,881 7,443	728 583 635 504 660 700 711 751 635 645 625 667 591 564 584 621 648 670	NA NA NA NA (s) 5 6 8 9 12 13 15 15 12 22 24 22 26 27	728 583 635 504 660 705 718 760 645 657 655 640 682 610 587 608 607 608 646 674 697	3,660 3,158 3,682 3,044 3,245 4,237 3,807 4,658 4,820 5,206 5,342 5,672 5,135 5,464 5,869 6,222 6,841 6,668 6,873	22,049 19,538 19,877 17,281 19,174 22,207 22,609 22,737 22,246 22,405 22,339 23,027 22,277 22,403 22,014 21,699 23,104 23,277 22,910
Pebruary February March April May June July August September October November December Total	933 795 579 313 198 134 111 107 117 202 447 847 4,782	499 441 337 215 161 130 120 127 133 185 287 467 3,103	106 98 109 105 108 103 107 108 107 113 109 115 1,286	90 80 84 79 82 84 91 95 87 84 82 92 1,029	554 516 515 459 463 445 445 446 445 449 463 495 549 5,797	644 595 598 538 544 529 537 539 536 547 577 641 6,826	750 693 707 643 652 632 644 647 643 659 686 756 8,112	80 70 60 47 45 46 51 52 45 46 55 77 674	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	82 73 63 49 47 48 53 55 48 48 57 79	546 480 457 471 560 706 897 943 697 570 497 564 7,387	2,810 2,481 2,143 1,692 1,617 1,650 1,826 1,879 1,665 1,973 2,714 24,087
2011 January February March April May June July August September October November December Total	970 769 601 347 208 135 111 109 122 227 429 686 4,714	528 432 364 236 168 135 128 135 141 208 283 397 3,154	107 97 111 109 112 107 110 111 109 116 115 118 1,323	90 81 82 83 87 88 97 99 91 85 86 96	563 513 526 479 468 440 438 446 451 479 501 539 5,842	652 594 608 562 555 527 535 546 541 563 587 635 6,905	759 691 719 670 667 635 644 657 651 680 701 753 8,227	82 70 63 51 46 46 52 46 48 56 71 684	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	85 72 66 54 49 48 55 55 48 51 59 74 716	540 484 482 521 572 699 939 921 684 575 543 614 7,574	2,882 2,448 2,232 1,828 1,663 1,653 1,877 1,878 1,646 1,741 2,014 2,524 24,385
Petron September Cotober November Total	802 668 408 R 284 165 125 109 107 119 241 481 668 4,177	R 448 391 263 211 151 R 133 126 135 142 212 305 388 2,905	E 118 E 109 E 117 E 114 E 118 E 113 E 117 E 115 E 119 E 116 E 118 E 1,392	98 90 90 87 93 94 101 98 93 95 97 103 1,139	R 555 R 521 R 507 R 482 472 R 462 R 464 478 R 471 497 R 513 539 5,960	R 653 612 R 597 570 565 557 564 576 R 564 R 591 R 610 642 7,100	771 721 713 8 683 683 8 670 682 693 8 679 711 8 726 760 8,492	E 77 E 70 E 60 E 55 E 52 E 52 E 58 E 56 E 50 E 60 E 69	E 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	E 80 E 73 E 62 E 55 E 55 E 61 E 59 E 53 E 63 E 72 E 747	648 648 677 720 817 885 1,093 1,007 807 671 578 585 9,137	2,750 R 2,500 2,124 1,956 1,871 R 1,867 2,071 2,001 R 1,800 1,892 2,154 2,472 25,457

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

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

Sources: • Residential, Commercial, Lease and Plant Fuel, Other Industrial Total and Pipelines and Distribution: 1973-2006—U.S. Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports and unpublished revisions. 2007 forward—EIA, Natural Gas Monthly (NGM), February 2013, Table 2. • Industrial CHP: Table 7.4c. • Vehicle Fuel: 1990 and 1991—EIA, NGA 2000, (November 2001), Table 95. 1992-1998—EIA, "Alternatives to Traditional Transportation Fuels 1999" (October 1999), Table 10, and "Alternatives to Traditional Transportation Fuels 2003" (February 2004), Table 10. Data for compressed natural gas and liquefied natural gas in gasoline-equivalent gallons were converted to cubic feet by multiplying by the motor gasoline conversion factor (see Table A4). 1999-2006—EIA, NGA, annual reports. 2007 forward—EIA, NGM, February 2013, Table 2. • Electric Power Sector: Table 7.4b.

⁹ Inrough 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:

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

Table 4.4 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	U	Natural Gas in nderground Storage End of Period	9,	From Sar	Vorking Gas ne Period us Year		Storage Activity		
	Base Gas	Working Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,0}	
73 Total	2.864	2,034	4.898	305	17.6	1,533	1.974	-442	
75 Total	3.162	2,212	5,374	162	7.9	1,760	2,104	-344	
80 Total	3,642	2,655	6,297	-99	-3.6	1,910	1,896	14	
85 Total	3,842	2,607	6,448	-270	-9.4	2,359	2,128	231	
90 Total	3.868	3,068	6,936	555	22.1	1,934	2,433	-499	
95 Total	4.349	2,153	6.503	-453	-17.4	2,974	2,566	408	
96 Total	4,341	2,173	6,513	19	.9	2,911	2,906	6	
97 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24	
98 Total	4,326	2,730	7,056	554	25.5	2,379	2,905	-526	
99 Total	4,383	2,523	6,906	-207	-7.6	2,772	2,598	174	
00 Total	4,352	1,719	6.071	-806	-7.0 -31.9	3,498	2,684	814	
00 Total			7,204			2,309		-1.156	
01 Total	4,301	2,904		1,185	68.9		3,464		
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	
110 January	4,276	2,304	6,580	171	8.0	873	63	811	
February	4,278	1,683	5,961	-75	-4.2	657	38	619	
March	4,278	1,652	5,930	-7	4	238	207	31	
April	4,278	2,011	6,289	101	5.3	68	427	-360	
May	4,279	2,420	6,699	45	1.9	53	463	-410	
June	4,287	2,740	7,027	-20	7	64	385	-321	
July	4,287	2,966	7,253	-125	-4.0	112	339	-227	
August	4,290	3,153	7,443	-206	-6.1	137	323	-186	
September	4,294	3,508	7,801	-138	-3.8	52	411	-359	
October	4,305	3,851	8,156	41	1.1	52	407	-355	
November	4,309	3,769	8,078	-69	-1.8	237	163	74	
December	4,301	3,111	7,412	-19	6	731	66	665	
Total	4,301	3,111	7,412	-19	6	3,274	3,291	-17	
11 January	4,303	2,306	6,609	2	.1	849	50	799	
February	4,302	1,722	6,024	39	2.3	666	82	584	
March	4,302	1,577	5,879	-75	-4.6	314	168	146	
April	4.304	1,788	6.092	-223	-11.1	100	312	-212	
May	4,304	2,187	6.491	-233	-9.6	58	458	-399	
June	4,302	2,530	6,831	-210	-7.7	80	421	-340	
July	4,300	2,775	7,075	-190	-6.4	116	359	-244	
August	4,300	3,019	7,319	-134	-4.2	126	370	-244	
September	4,301	3,416	7,717	-92	-2.6	55	454	-398	
October	4,302	3,804	8,106	-47	-1.2	52	437	-385	
November	4,300	3,843	8,143	74	2.0	184	221	-38	
December	4,302	3,462	7,764	351	11.3	474	90	383	
Total	4,302	3,462	7,764	351	11.3	3,074	3,422	-348	
112 January	4,307	2,916	7,223	610	26.5	633	88	545	
February	4,307	2,455	6,762	733	42.6	526	67	459	
March	4,325	2,477	6,802	900	57.1	217	256	-39	
April	4.329	2.613	6.942	825	46.1	144	282	-137	
	4,334	2,890	7,225	704	32.2	92	375	-283	
	4,337	3,118	7,456	589	23.3	109	339	-230	
May		3,246	7,585	471	17.0	129	263	-134	
May June	4 339				12.9	134			
May June July	4,339 4 348		7 757	390					
May June July August	4,348	3,409	7,757 8.045	390 278			302 358		
May June July August September	4,348 4,352	3,409 3,693	8,045	278	8.1	67	358	-291	
May June July August September October	4,348 4,352 4,365	3,409 3,693 3,930	8,045 8,295	278 126	8.1 3.3	67 99	358 340	-291 -241	
May June July August September	4,348 4,352	3,409 3,693	8,045	278	8.1	67	358	-168 -291 -241 125 385	

 ^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

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, February 2013, 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 FEC-8, "Underground Gas Storage Report," and Federal Energy Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report," and Federal Energy Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report," and FERC, Form FERC-8, "Underground Gas Storage Report," and FERC

liquefied natural gas storage for that period.

^c Positive numbers indicate that withdrawals are greater than injections.

Negative numbers indicate that injections are greater than withdrawals. Net withdrawals or injections may not equal the difference between applicable ending stocks. See Note 4, "Natural Gas Storage," at end of section.

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

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

available data beginning in 1973.

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

Natural Gas

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

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

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

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

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

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

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

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

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

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

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

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

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

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

1975 6,280	1988 8,124	2001 8,182
1976 6,544	1989 8,120	2002 8,207
1977 6,678	1990 7,794	2003 8,206
1978 6,890	1991 7,993	2004 8,255
1979 6,929	1992 7,932	2005 8,268
1980 7,434	1993 7,989	2006 8,330
1981 7,805	1994 8,043	2007 8,402
1982 7,915	1995 7,953	2008 8,499
1983 7,985	1996 7,980	2009 8,656
1984 8,043	1997 8,332	2010 8,764
1985 8,087	1998 8,179	2011 8,849
1986 8,145	1999 8,229	2012 P8,901
1987 8,124	2000 8,241	

P= Preliminary

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

The final monthly and annual storage and withdrawal data for 1980–2011 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 in EIA's http://www.eia.gov/dnav/ng/ng cons sum dcu nus m.htm) were not reconciled and updated to be consistent with the final annual data in EIA's NGA. In the Monthly Energy Review, monthly data for these series were adjusted so that the monthly data sum to the final annual values. The Table 4.1 data series (and years) that were adjusted are: Gross Withdrawals (1996, 1997), Marketed Production (1997), Extraction Loss (1997, 1998, 2000), Dry Gas Production (1996, 1997), Supplemental Gaseous Fuels (1997–2000), Balancing Item (1997-2000), and Total Consumption (1997 The Table 4.3 data series (and years) that were adjusted are: Lease and Plant Fuel (1997-2000), Total Industrial (1997-2000), Pipelines and Distribution (2000), Total Transportation (2000), and Total Consumption (1997–2000).

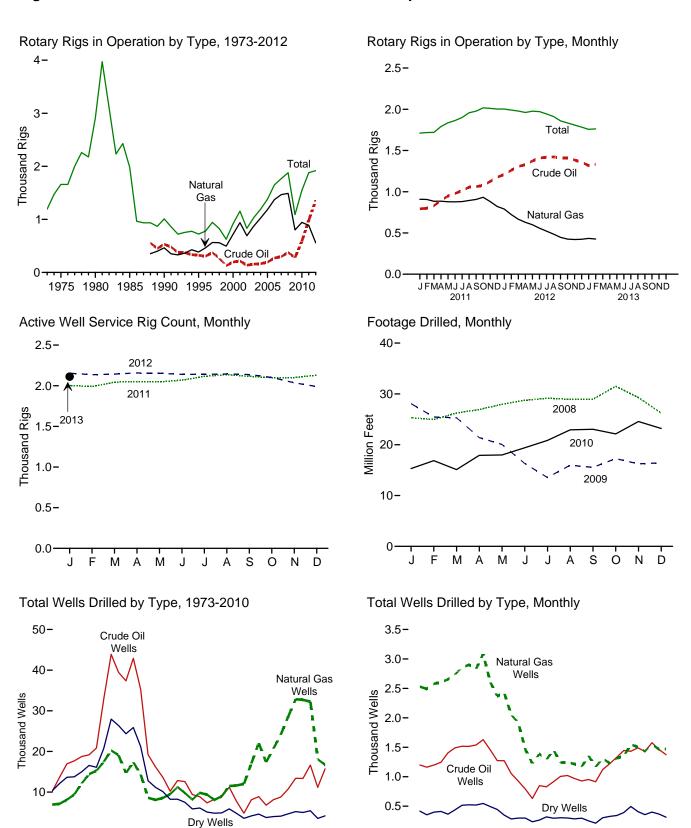
Note 9. Natural Gas Imports and Exports. The United States imports natural gas via pipeline from Canada and Mexico; and imports liquefied natural gas (LNG) via tanker from Algeria, Australia, Brunei, Egypt, Equatorial Guinea, Indonesia, Malaysia, Nigeria, Norway, Oman, Peru, Qatar, Trinidad and Tobago,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

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

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

5. Crude Oil and Natural Gas Resource Development

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators



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

1980 1985 1990 1995 2000 2005 2010

1975

0.0

J FMAMJ J A SOND J FMAMJ J A SOND J FMAMJ J A SOND 2008 2009 2010

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements

(Number of Rigs)

	Ву	Site	Ву	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 NA	1.660	2,486
	2,678	231	NA	NA NA	2,909	4.089
980 Average		206	NA NA	NA NA	1.980	4,716
985 Average	1,774					
990 Average	902	108	532	464	1,010	3,658
95 Average	622	101	323	385	723	3,041
96 Average	671	108	306	464	779	3,445
997 Average	821	122	376	564	943	3,499
998 Average	703	123	264	560	827	3,014
99 Average	519	106	128	496	625	2,232
000 Average	778	140	197	720	918	2,692
001 Average	1,003	153	217	939	1,156	2,267
02 Average	717	113	137	691	830	1.830
002 Average	924	108	157	872	1.032	1,967
003 Average						
004 Average	1,095	97	165	1,025	1,192	2,064
005 Average	1,287	94	194	1,184	1,381	2,222
006 Average	1,559	90	274	1,372	1,649	2,364
007 Average	1,695	72	297	1,466	1,768	2,388
008 Average	1,814	65	379	1,491	1,879	2,515
009 Average	1,046	44	278	801	1.089	1,722
010 Average	1,514	31	591	943	1,546	1,854
111 January	1,686	26	793	909	1,711	2,004
February	1.692	26	801	907	1.718	1.990
March	1.694	26	830	884	1,720	2.044
April	1,762	28	896	885	1.790	2.052
May	1.804	32	948	878	1.836	2.047
	1,829	34	979	877	1,863	2.069
June		35				
July	1,865		1,014	880	1,900	2,116
August	1,923	35	1,055	894	1,957	2,136
September	1,946	32	1,063	907	1,978	2,115
October	1,982	35	1,077	933	2,017	2,100
November	1,974	37	1,125	880	2,011	2,100
December	1.961	42	1,177	821	2.003	2,131
Average	1,846	32	984	887	1,879	2,075
012 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
	1,917	46	1,329	600	1,901	2,157
May		49				
June	1,923		1,409	558	1,972	2,139
July	1,894	51	1,419	522	1,944	2,140
August	1,863	50	1,423	487	1,913	2,144
September	1,808	51	1,409	447	1,859	2,137
October	1,785	49	1,407	425	1,834	2,102
November	1,758	51	1,385	421	1,809	2,036
December	1.733	51	1.358	423	1.784	1,990
Average	1,871	48	1,357	558	1,919	2,113
113 January	1,704	52	1,318	434	1,756	R 2,112
February	1,708	54	1,332	426	1,762	NA
2-Month Average	1,706	53	1,325	430	1,759	NA
012 2-Month Average	1,955	42	1,234	756	1,996	2,145
11 2-Month Average	1,689	26	797	908	1,715	1,997

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.

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/bhi/rig_counts/rc_index.cfm. • Active Well Service Rig Count: Cameron International Corporation, Houston, TX. See http://www.c-a-m.com/Forms/Product.aspx?prodID=cdc209c4-79a3-47e5-99c2-fdeda6d4aad6.

Table 5.2 Crude Oil and Natural Gas Exploratory and Development Wells

						Wells I	Drilled						
		Exploi	atory			Develo	pment			То	tal		
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Total Footage Drilled
						Num	nber						Thousand Feet
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1995 Total 1996 Total 1997 Total	642 982 1,777 1,680 778 570 489	1,067 1,248 2,099 1,200 811 558 576 562	5,952 7,129 9,081 8,954 3,652 2,024 1,956 2,113	7,661 9,359 12,957 11,834 5,241 3,152 3,021 3,166	9,525 15,966 31,182 33,581 12,061 7,678 8,347 10,715	5,866 6,879 15,362 13,124 10,435 7,524 8,451 10,936	4,368 6,517 11,704 12,257 4,593 2,790 2,934 3,761	19,759 29,362 58,248 58,962 27,089 17,992 19,732 25,412	10,167 16,948 32,959 35,261 12,839 8,248 8,836 11,206	6,933 8,127 17,461 14,324 11,246 8,082 9,027 11,498	10,320 13,646 20,785 21,211 8,245 4,814 4,890 5,874	27,420 38,721 71,205 70,796 32,330 21,144 22,753 28,578	138,223 180,494 316,943 314,409 156,044 117,156 126,365 161,249
1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total	327 197 288 357 258 350 383 539 646 808	566 570 657 1,052 844 997 1,671 2,141 2,456 2,794	1,590 1,157 1,341 1,733 1,282 1,297 1,350 1,462 1,547 1,582	2,483 1,924 2,286 3,142 2,384 2,644 3,404 4,142 4,649 5,184	7,355 4,608 7,802 8,531 6,517 7,779 8,406 10,240 12,739 12,563	11,073 11,457 16,394 21,020 16,498 19,725 22,515 26,449 30,382 29,925	3,171 2,393 2,805 2,865 2,472 2,685 2,732 3,191 3,659 3,399	21,599 18,458 27,001 32,416 25,487 30,189 33,653 39,880 46,780 45,887	7,682 4,805 8,090 8,888 6,775 8,129 8,789 10,779 13,385 13,371	11,639 12,027 17,051 22,072 17,342 20,722 24,186 28,590 32,838 32,719	4,761 3,550 4,146 4,598 3,754 3,982 4,082 4,653 5,206 4,981	24,082 20,382 29,287 35,558 27,871 32,833 37,057 44,022 51,429 51,071	137,202 102,861 144,425 180,141 145,159 177,239 204,279 240,307 282,675 301,515
2008 January February March April May June July August September October November December Total	88 82 66 68 88 63 79 67 52 80 97 67 897	208 230 216 189 206 195 163 165 166 243 192 172 2,345	144 107 127 130 124 139 171 144 164 173 160 132	440 419 409 387 418 397 413 376 382 496 449 371 4,957	1,111 1,080 1,132 1,177 1,317 1,428 1,439 1,448 1,549 1,361 1,206 15,736	2,321 2,261 2,363 2,415 2,449 2,540 2,695 2,735 2,667 2,841 2,418 2,196 29,901	272 247 271 281 240 299 344 379 355 373 334 313 3,708	3,704 3,588 3,766 3,873 4,006 4,267 4,478 4,562 4,510 4,763 4,113 3,715 49,345	1,199 1,162 1,198 1,245 1,405 1,491 1,518 1,515 1,540 1,629 1,458 1,273 16,633	2,529 2,491 2,579 2,604 2,655 2,735 2,858 2,900 2,833 3,084 2,610 2,368 32,246	416 354 398 411 364 438 515 523 519 546 494 445 5,423	4,144 4,007 4,175 4,260 4,424 4,664 4,891 4,938 4,892 5,259 4,562 4,086 54,302	25,306 24,958 26,226 26,920 27,947 28,739 29,140 28,942 28,960 31,505 29,276 26,222 334,141
Pebruary February February March April May June July August September October November December Total	80 62 59 36 47 44 40 49 61 55 38 34	171 125 146 68 90 91 100 84 71 79 83 98 1,206	99 88 88 93 80 75 101 88 96 78 85 84	350 275 293 197 217 210 241 221 228 212 206 216 2,866	1,192 991 867 755 584 804 789 867 945 966 931 894 10,585	2,253 1,925 1,771 1,396 1,136 1,297 1,188 1,372 1,170 1,167 1,133 1,074 16,882	250 195 210 205 156 189 217 207 207 207 2199 213 2,470	3,695 3,111 2,848 2,356 1,876 2,290 2,194 2,446 2,322 2,355 2,263 2,181 29,937	1,272 1,053 926 791 631 848 829 916 1,006 1,021 969 928 11,190	2,424 2,050 1,917 1,464 1,226 1,388 1,456 1,241 1,246 1,216 1,172 18,088	349 283 298 298 236 264 318 295 303 300 284 297 3,525	4,045 3,386 3,141 2,553 2,093 2,500 2,435 2,667 2,550 2,567 2,469 2,397 32,803	28,077 25,440 25,304 21,406 20,055 16,301 13,543 15,970 15,547 17,261 16,236 16,424 231,562
2010 January	55 44 59 49 48 61 46 56 57 75 62 57 669	91 71 85 78 107 100 103 104 73 87 114 92 1,105	81 67 88 77 86 90 105 94 88 117 103 70 1,066	227 182 232 204 241 251 254 254 218 279 279 219 2,840	898 871 1,062 1,173 1,282 1,385 1,386 1,434 1,502 1,400 1,317 15,084	1,264 1,096 1,224 1,152 1,208 1,250 1,443 1,402 1,358 1,463 1,352 1,379	169 144 216 249 255 390 314 268 283 263 243 3,096	2,331 2,111 2,502 2,574 2,745 2,937 3,219 3,150 3,000 3,248 3,015 2,939 33,771	953 915 1,121 1,222 1,330 1,446 1,432 1,490 1,431 1,577 1,462 1,374 15,753	1,355 1,167 1,309 1,230 1,315 1,350 1,546 1,506 1,431 1,550 1,466 1,471 16,696	250 211 304 326 341 392 495 408 356 400 366 313 4,162	2,558 2,293 2,734 2,778 2,986 3,188 3,473 3,404 3,218 3,527 3,294 3,158 36,611	15,304 16,862 15,102 17,904 17,987 19,408 20,847 22,923 23,037 22,123 24,561 23,189 239,247

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 an old well deeper, drilling of laterals from the original well, drilling of service and injection wells, and drilling for resources other than crude oil or natural gas are excluded. After 1990, a new well is defined as the first hole in the ground whether it is lateral or not. Due to the methodology used to estimate ultimate well counts from the available partially reported data, the counts shown on this page are frequently revised. See Note, "Crude Oil and Natural Gas Exploratory and Development

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

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

available data beginning in 1973.

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

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.

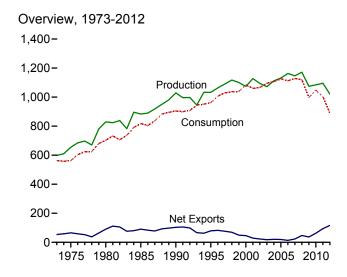
Prior to the March 1985 MER, drilling statistics consisted of

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.

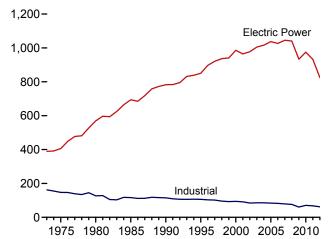
THIS PAGE INTENTIONALLY LEFT BLANK

6. Coal

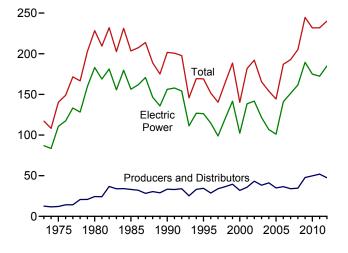
Figure 6.1 Coal (Million Short Tons)







Stocks, End of Year, 1973-2012



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

120 –

100 – Production

80 – Consumption

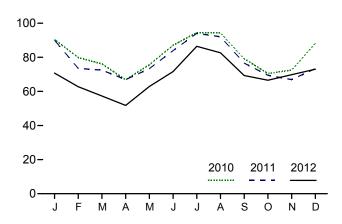
Overview, Monthly

40-

O Net Exports

0 JFMAMJ JA SOND JFMAMJ JA SOND JFMAMJ JA SOND
2011 2012 2013

Electric Power Sector Consumption, Monthly 120-



Electric Power Sector Stocks, End of Month 240-

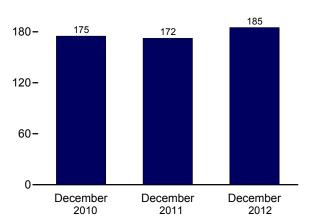


Table 6.1 Coal Overview

(Thousand Short Tons)

		Waste Coal		Trade		Stock	Losses and Unaccounted	
	Productiona	Supplied ^b	Imports	Exports	Net Imports ^c	Change ^{d,e}	forf	Consumption
1973 Total	598,568	NA	127	53,587	-53,460	402	-17,878	562,584
1975 Total	654,641	NA	940	66,309	-65,369	32,154	-5,522	562,640
1980 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
1990 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
1996 Total	1,063,856	8,778	8,115	90,473	-82,357	-17,456	1,411	1,006,321
1997 Total	1,089,932	8,096	7,487	83,545	-76,058	-11,253	3,678	1,029,544
1998 Total	1,117,535	8,690	8,724	78,048	-69,324	24,228	-4,430	1,037,103
1999 Total	1,100,431	8,683	9,089	58,476	-49,387	23,988	-2,906	1,038,647
2000 Total	1,073,612	9.089	12,513	58,489	-45,976	-48.309	938	1,084,095
2001 Total	1,127,689	10.085	19,787	48,666	-28.879	41.630	7,120	1,060,146
2002 Total	1,094,283	9.052	16,875	39.601	-22,726	10.215	4.040	1,066,355
2003 Total	1.071.753	10,016	25,044	43,014	-22,726 -17,970	-26,659	-4.403	1,000,333
2003 TOTAL	1,112,099	11,299		47,998	-20,718	-11,462	-4,403 6,887	1,107,255
2004 Total			27,280			-9,702	9,092	
2005 Total	1,131,498	13,352	30,460	49,942	-19,482			1,125,978
2006 Total	1,162,750	14,409	36,246	49,647	-13,401	42,642	8,824	1,112,292
2007 Total	1,146,635	14,076	36,347	59,163	-22,816	5,812	4,085	1,127,998
2008 Total	1,171,809	14,146	34,208	81,519	-47,311	12,354	5,740	1,120,548
009 Total	1,074,923	13,666	22,639	59,097	-36,458	39,668	14,985	997,478
2010 January	85,711	1,187	1,665	5,866	-4,202	-10,695	-3,103	96,494
February	83,087	908	1,239	5,386	-4,146	-7,306	1,154	86,001
March	96,904	1,192	1,899	6,554	-4,655	8,127	2,870	82,444
April	90,960	1,071	1,812	7,358	-5,545	11,519	2,176	72,790
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
2011 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	910	1,313	9,042	-7,730	2,393	-1,461	79,098
June	88,878	1,162	970	9.102	-8,132	-9,803	2,060	89,652
July	85,498	1,202	1,208	7,865	-6,657	-15,788	-3,788	99,618
August	95,495	1.181	1,545	9,387	-7,843	-10,739	1,809	97,762
September	94.013	1,117	835	8.723	-7.888	5.015	-113	82,341
October	94.643	1.078	917	9.159	-8.242	13.552	-1.334	75,261
November	94,043	1,076	807	8.808	-8,242 -8.001	11,911	2.623	72,707
December	94.101	1.076	976	9.713	-8.737	5.698	1.377	79,365
Total	1,095,628	13,209	13,088	107,259	-94,171	211	11,506	1,002,948
2012 January	94,944	1,068	789	9,126	-8,337	2,835	8,471	76,368
February	85,763	891	534	8,460	-0,337 -7,927	8,065	2,290	68,373
			699		-7,927 -10,356			63,068
March	85,698 77,634	837		11,055		9,722	3,389	
April	77,624	746	623	12,529	-11,905	7,275	2,190	57,000
May	81,825	938	986	12,257	-11,271	479	2,835	68,178
June	81,911	905	719	12,749	-12,030	-5,264	-642	76,692
July	86,344	1,050	894	11,623	-10,729	-14,940	-21	91,626
August	90,839	992	667	10,597	-9,930	-7,248	1,170	87,979
September	81,846	_800	855	9,344	-8,489	_ 2,381	2,617	74,394
October	86,744	_ F 999	868	9,421	-8,554	R 3,853	R 3,155	R 72,181
November	85,473	F_1,039	_ 798	8 516	7,718	^R _1,917	R 1.803	R 75,073
December Total	81,440 1,020,451	RF 934 RE 11,199	R 727 R 9,159	R 10,068 R 125,746	R -9,341 R -116,586	R -886 R 8.188	R -4,406 R 17,618	R 78,326 R 889,257
	, ,					-,		
2013 January	83,892	NA NA	R 654	R 9,572	R -8,917	NA	NA	NA
February 2-Month Average	76,673 160,565	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA	NA NA
J	ŕ							
2012 2-Month Average 2011 2-Month Average	180,707 176,930	1,959 2,227	1,323 1,857	17,587 16,785	-16,264 -14,928	10,900 -14,985	10,761 3,335	144,741 175,880

^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 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 greater than imports.

greater than imports.

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

sectors.

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

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

f The difference between calculated coal supply and disposition, due to coal quantities lost or to data reporting problems.

R=Revised. E=Estimate. 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 Sectors	s					
			Commerci	al			Industrial					
	Resi-				Coke	0	ther Industria	al		Trans-	Electric Power	
	dential	CHPa	Otherb	Total	Plants	CHPC	Non-CHP ^d	Total	Total	portation	Sector ^{e,f}	Total
1973 Total 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1995 Total 1997 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total	4,113 2,823 1,355 1,711 1,345 755 721 711 534 585 454	(9) (9) (9) (1,191 1,419 1,660 1,738 1,443 1,490 1,547 1,448	7,004 6,587 5,097 6,068 4,189 3,633 3,625 4,015 2,879 2,803 2,126 2,441	7,004 6,587 5,097 6,068 5,379 5,052 5,285 5,752 4,322 4,293 3,673 3,888	94,101 83,598 66,657 41,056 38,877 33,011 31,706 30,203 28,189 28,108 28,939 26,075	(h) (h) (h) (h) 27,781 29,363 29,434 29,853 28,553 27,563 28,031 25,755	68,038 63,646 60,347 75,372 48,549 43,693 42,254 41,661 38,887 36,975 37,177 39,514	68,038 63,646 60,347 75,372 76,330 73,055 71,689 71,515 67,439 64,738 65,208	162,139 147,244 127,004 116,429 115,207 106,067 103,395 101,718 95,628 92,846 94,147 91,344	116 24 (h) (h) (h) (h) (h) (h) (h)	389,212 405,962 569,274 693,841 782,567 850,230 896,921 921,364 936,619 940,922 985,821 964,433	562,584 562,640 702,730 818,049 904,498 962,104 1,006,321 1,029,544 1,037,103 1,038,647 1,084,095 1,060,146
2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	533 551 512 378 290 353 351 321	1,405 1,816 1,917 1,922 1,886 1,927 2,021 1,798	2,506 1,869 2,693 2,420 1,050 1,247 1,134 1,091	3,912 3,685 4,610 4,342 2,936 3,173 3,155 2,889	23,656 24,248 23,670 23,434 22,957 22,715 22,070 15,326	26,232 24,846 26,613 25,875 25,262 22,537 21,902 19,766	34,515 36,415 35,582 34,465 34,210 34,078 32,491 25,549	60,747 61,261 62,195 60,340 59,472 56,615 54,393 45,314	84,403 85,509 85,865 83,774 82,429 79,331 76,463 60,641	(h) (h) (h) (h) (h) (h) (h)	977,507 1,005,116 1,016,268 1,037,485 1,026,636 1,045,141 1,040,580 933,627	1,066,355 1,094,861 1,107,255 1,125,978 1,112,292 1,127,998 1,120,548 997,478
2010 January	39 34 30 19 19 22 21 23 20 23 24 32 308	193 167 149 117 118 135 142 152 133 121 128 165 1,720	160 139 124 56 57 65 51 54 47 88 93 119	353 306 274 173 175 199 192 206 180 209 220 284 2,772	1,472 1,584 1,801 1,786 1,794 1,772 1,783 1,814 1,894 1,731 1,787 1,874 21,092	2,094 1,978 2,124 2,220 2,010 1,898 2,122 2,194 1,941 1,958 1,854 2,246 24,638	2,084 2,215 2,106 1,749 1,975 2,061 1,944 1,909 2,174 2,178 2,297 1,957 24,650	4,178 4,193 4,230 3,969 3,985 3,959 4,066 4,103 4,115 4,136 4,151 4,203 49,289	5,650 5,777 6,030 5,755 5,779 5,732 5,849 5,917 6,010 5,866 5,938 6,077 70,381	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	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	96,494 86,001 82,444 72,790 81,570 92,983 100,582 100,393 85,386 76,591 78,697 94,582 1,048,514
2011 January	33 30 29 19 19 20 17 16 15 16 17 21	189 173 164 124 130 145 129 122 110 117 139 1,668	143 131 124 68 68 71 31 28 26 55 59 70	332 304 289 191 192 202 176 157 148 165 177 209 2,541	1,746 1,623 1,819 1,668 1,878 1,846 1,670 1,863 1,874 1,778 1,772 1,891 21,434	2,082 1,800 1,891 1,787 1,836 1,843 1,946 1,962 1,788 1,748 1,712 1,923 22,319	2,090 2,345 2,281 1,902 1,836 1,833 1,772 1,7753 1,947 2,088 2,110 1,962 23,919	4,172 4,145 4,173 3,689 3,676 3,718 3,715 3,735 3,836 3,822 3,885 46,238	5,917 5,769 5,991 5,357 5,550 5,522 5,328 5,578 5,609 5,621 5,594 5,776 67,671	(hh) (hh) (hh) (hh) (hh) (hh) (hh) (hh)	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	96,303 79,577 78,767 72,497 79,098 89,652 99,618 97,762 82,341 75,261 72,707 79,365 1,002,948
Page 2012 January	20 18 17 11 11 10 11 10 RF 17 RF 29 F 34 E 199	162 141 135 115 121 114 118 126 116 115 134 151	69 64 62 10 11 10 1 1 1 1 RF 81 RF 202 F 235 E 745	231 205 196 125 132 124 119 127 117 RF 195 RF 337 F 386 E 2,294	1,701 1,687 1,895 1,783 1,857 1,657 1,676 1,816 1,552 RF 1,928 RF 1,321 F 1,369	1,913 1,708 1,707 1,542 1,689 1,634 1,773 1,827 1,613 1,796 1,728 1,789 20,717	1,783 2,000 1,952 1,789 1,621 1,671 1,619 1,555 1,781 RF 1,680 RF 1,861 F 1,737 E 21,049	3,696 3,708 3,659 3,331 3,310 3,305 3,392 3,382 3,394 RF 3,476 RF 3,588 F 3,526 E 41,766	5,397 5,395 5,554 5,113 5,167 4,962 5,068 5,198 4,946 RF 5,404 RF 4,909 F 4,894 E 62,006	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	70,720 62,755 57,300 51,751 62,868 71,595 86,429 82,643 69,321 66,565 69,798 73,011 824,758	76,368 68,373 63,068 57,000 68,178 76,692 91,626 87,979 74,394 R 72,181 R 75,073 78,326

^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 end of Section 7.

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

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

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

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.

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

g Included in "Commercial Other

g Included in "Commercial Other."
h Included in "Industrial Non-CHP."
R=Revised. E=Estimate. F=Forecast.
Notes: • CHP monthly values are from Table 7.4c; electric power sector monthly values are from Table 7.4b; all other monthly values are estimates derived from collected quarterly and annual data. See Note 2, "Coal Consumption," at end of section. • Data include refined coal. • Data values preceded by "F" are derived from the U.S. Energy Information Administration's Short-Term Integrated Forecasting System. See Note 4, "Coal Forecast Values," at end of section. • Totals may not equal sum of components due to independent 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.

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

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

			E	nd-Use Sectors	•			
	Producers	Residential		Industrial			Electric	
	and Distributors	and Commercial	Coke Plants	Othera	Total	Total	Power Sector ^{b,c}	Total
1973 Year	12,530	290	6,998	10,370	17,368	17,658	86,967	117,155
1975 Year	12,108	233	8,797	8,529	17,326	17,559	110,724	140,391
1980 Year	24,379	NA	9,067	11,951	21,018	21,018	183,010	228,407
1985 Year	33,133	NA	3,420	10,438	13,857	13,857	156,376	203,367
1990 Year	33,418	NA	3,329	8,716	12,044	12,044	156,166	201,629
1995 Year	34,444	NA	2,632	5,702	8,334	8,334	126,304	169,083
1996 Year	28,648	NA	2,667	5,688	8,355	8,355	114,623	151,627
1997 Year	33,973	NA	1,978	5,597	7,576	7,576	98,826	140,374
1998 Year	36,530	NA	2,026	5,545	7,571	7,571	120,501	164,602
1999 Year	39,475	NA	1,943	5,569	7,511	7,511	° 141,604	188,590
2000 Year	31,905	NA	1,494	4,587	6,081	6,081	102,296	140,282
2001 Year	35,900	NA	1,510	6,006	7,516	7,516	138,496	181,912
2002 Year	43,257	NA	1,364	5,792	7,156	7,156	141,714	192,127
2003 Year	38,277	NA	905	4,718	5,623	5,623	121,567	165,468
2004 Year	41,151	NA	1,344	4,842	6,186	6,186	106,669	154,006
2005 Year	34,971	NA	2,615	5,582	8,196	8,196	101,137	144,304
2006 Year	36,548	NA	2,928	6,506	9,434	9,434	140,964	186,946
2007 Year	33,977	NA 400	1,936	5,624	7,560	7,560	151,221	192,758
2008 Year	34,688	498	2,331	6,007	8,338	8,836	161,589	205,112
2009 Year	47,718	529	1,957	5,109	7,066	7,595	189,467	244,780
2010 January	48,854	510	1,832	4,798	6,630	7,140	178,091	234,085
February	49,069	490	1,708	4,486	6,194	6,684	171,026	226,779
March	50,936	471	1,583	4,175	5,758	6,229	177,742	234,906
April	50,761	482	1,715	4,207	5,922	6,404	189,260	246,425
May	50,900	494	1,846	4,239	6,086	6,579	191,669	249,148
June	51,497	505	1,978	4,272	6,250	6,755	181,490	239,741
July	47,935	509	1,948	4,345	6,294	6,803	169,504	224,242
August		513	1,918	4,419	6,337	6,851	159,987	215,476
September	49,913	517	1,889	4,492	6,381	6,899	163,776	220,587
October	49,430 50.571	529 541	1,901 1.913	4,503 4.514	6,404 6.428	6,933 6,968	175,686 183.389	232,050 240,928
November December		552	1,913 1,925	4,514 4,525	6,451	7,003	174,917	231,740
2011 January	48,709	536	1,937	4,305	6,241	6,777	164,575	220,061
February	49,140	520	1,948	4,084	6,032	6,552	161,064	216,755
March	48,165	503	1,959	3,864	5,823	6,326	166,255	220,746
April	49,852	505 508	1,958	3,969	5,927 6.032	6,433	173,427	229,712
May	51,473 50,507	506 510	1,957 1,956	4,075 4.181	6,032	6,539 6.646	174,093 165.149	232,105 222,302
June 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	195,775
September	49,909	518	2,405	4,247	6,652	7,170	143,711	200,790
October	50.810	546	2,403	4.316	6.790	7,170	156,196	214,342
November	50,997	575	2,541	4,386	6,927	7,502	167,754	226,253
December	51,897	603	2,610	4,455	7,065	7,668	172,387	231,951
2012 January	F 48,424	587	2.507	4 222	6.745	7 222	179.030	234.787
2012 January	F 49,954	587 572	2,507 2.403	4,238 4.021	6,745 6,425	7,332 6,997	179,030 185,901	234,787 242,852
February	F 51,458	572 557	2,403	4,021 3,804	6,425 6,105	6,997 6,661	194.455	242,852 252,574
March April	F 51,705	566	2,300	3,911	6,210	6,776	201,368	252,574 259,849
May	F 51,253	575	2,299	4,018	6,315	6,891	201,308	260,328
June	F 51,233	585	2,295	4,016	6.420	7,005	197,052	255.064
July	F 49,859	589	2,329	4,123	6,557	7,005 7,146	183,119	240,124
August	F 48,343	592	2,363	4.332	6.694	7,140	177.246	232,875
September	F 47,181	596	2,396	4,435	6,831	7,427	180,648	235,256
October	F 46,885	RF 597	RF 2,383	RF 4,583	RF 6,966	RF 7,562	184,661	R 239,109
November	F 46,711	RF 597	RF 2,360	RF 4,725	RF 7,085	RF 7,682	186.633	R 241.026
December	F 47,424	F 591	F 2,340	F 4,861	F 7,202	F 7,793	184,923	240,140

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

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.

plants only.

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

electricity, or electricity and heat, to the public.

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

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, end-of-year stocks are taken from reported data. Monthly stocks are estimated by a model.

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

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

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

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

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

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

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

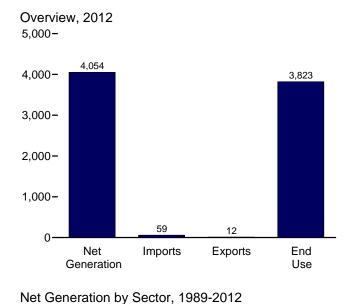
Electric Power

Table 7.5.

THIS PAGE INTENTIONALLY LEFT BLANK

7. Electricity

Electricity Overview Figure 7.1 (Billion Kilowatthours)





Electric

11

Commercial

Net Generation, 2012

3,899

5,000-

4,000-

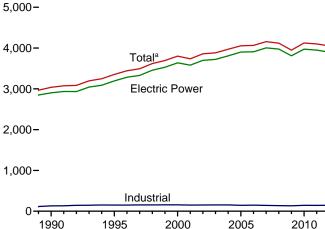
3,000-

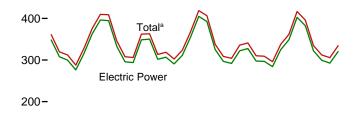
2,000-

1,000-

100-

0



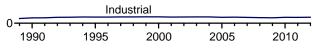


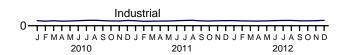
145

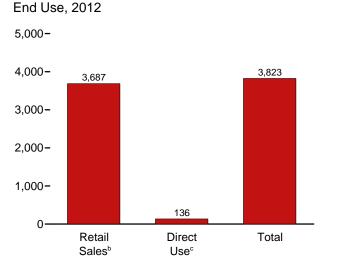
Industrial

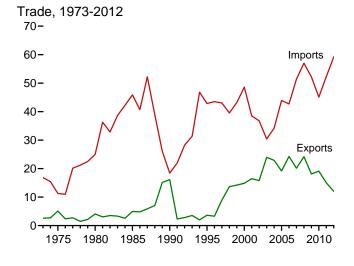
4,054

Total









^a Includes commercial sector.

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

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

Table 7.1 Electricity Overview

(Billion Kilowatthours)

		Net Gen	eration			Trade		T0D		End Use	
	Electric Power	Com- mercial	Indus- trial				Net	T&D Lossese and Unaccounted	Retail	Direct	
	Sectora	Sectorb	Sector ^c	Total	Importsd	Exportsd	Importsd	for [†]	Sales	Use ^h	Total
1973 Total	1,861	NA	3	1,864	17	3	14	165	1,713	NA	1,713
1975 Total	1,918	NA	3	1.921	11	5	6	180	1.747	NA	1.747
1980 Total	2,286	NA	3	2,290	25	4	21	216	2,094	NA	2.094
1985 Total	2,470	NA	3	2,473	46	5	41	190	2,324	NA	2,324
1990 Total	2,901	6	131	3,038	18	16	2	203	2,713	125	2,837
1995 Total	3,194	8	151	3,353	43	4	39	229	3,013	151	3,164
1996 Total	3,284	9	151	3,444	43	3	40	231	3,101	153	3.254
1997 Total	3,329	9	154	3,492	43	9	34	224	3,146	156	3,302
1998 Total	3,457	9	154	3,620	40	14	26	221	3,264	161	3,425
1999 Total	3,530	9	156	3,695	43	14	29	240	3,312	172	3,484
2000 Total	3.638	8	157	3,802	49	15	34	244	3,421	171	3.592
2001 Total	3,580	7	149	3,737	39	16	22	202	3,394	163	3.557
2002 Total	3,698	7	153	3,858	37	16	21	248	3,465	166	3,632
2003 Total	3,721	7	155	3,883	30	24	6	228	3,494	168	3,662
2004 Total	3,808	8	154	3,971	34	23	11	266	3,547	168	3,716
2005 Total	3,902	8	145	4.055	44	19	25	269	3,661	150	3.811
2006 Total	3,902	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	3,733	127	3,724
2005 Total	3,010	Ū	132	3,330	32	10	34	201	3,337	127	3,124
2010 January	348	1	12	361	5	1	4	22	332	E 11	343
February	308	1	11	320	4	1	3	15	298	E 10	309
March	300	1	12	312	4	1	3	12	293	E 11	303
April	276	1	11	288	4	1	3	13	267	E 10	277
May	316	1	12	328	3	2	1	35	284	E 11	294
June	363	1	12	376	4	2	2	36	331	E 11	342
July	396	1	13	410	4	1	3	32	369	E 12	381
August	395	1	13	409	4	2	2	27	372	E 12	384
September	333	1	12	346	3	2	1	8	328	E 11	339
October	296	1	12	308	3	2	(s)	10	288	E 11	298
November	294	1	11	306	3	2	`ί	21	275	E 11	285
December	349	1	13	362	4	1	3	34	319	E 12	331
Total	3,972	9	144	4,125	45	19	26	265	3,754	132	3,886
2011 January	250		12	262	4	2	3	20	224	E 11	245
2011 January	350 302	1	12	363 313	4	2	2	20 9	334 297	E 10	345 307
February	302	1	11	319	4	2	2	19	297	E 10	307
March	291	1	11	302	4	2	2	19	275	E 10	286
April	311	1	11	324	5	1	4	29	288	E 11	299
May June	355	4	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	325	1	12	338	4	1	3	4	326	E 11	337
October	297	i	11	309	4	i	3	13	288	E 11	299
November	292	1	12	304	3	1	2	20	275	E 11	286
December	322	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
										F 4.0	
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	383	1	13	396	6	1	5	26	364	E 12	376
September	322	1	12	335	5	1	4	10	318	E 11	329
October	299	1	12	312	4	1	4	15	290	E 11	301
November	293	1	12	306	5	1	4	19	279	E 11	291
December	320	1 11	13 145	334 4,054	4 59	1 12	3 47	30 279	296 3,687	E 12 E 136	308 3,823
Total	3,899										

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

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

plants.

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

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

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.

† Data collection frame differences and nonsampling error.

⁹ Electricity retail sales to ultimate customers by electric utilities and, beginning in 1996, other energy service providers.

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

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

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

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

Sources: See end of section.

Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

Total (All Sectors), Major Sources, 1989-2012

2,500
2,000
1,500
Natural Gas

Nuclear Electric Power

Soo Renewable Energy

Petroleum

2000

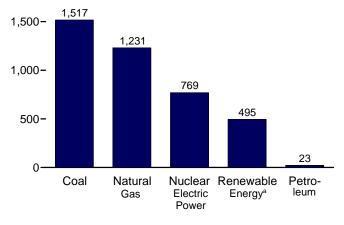
2005

2010

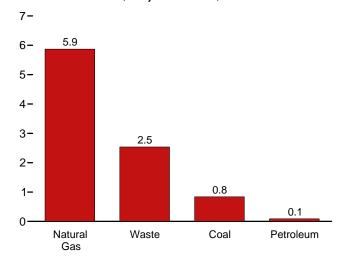
Total (All Sectors), Major Sources, 2012 2,000-

1995

1990

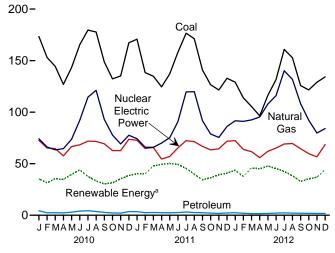


Commercial Sector, Major Sources, 2012



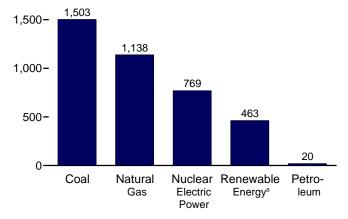
 $[\]ensuremath{^{\text{a}}}$ Conventional hydroelectric power, wood, waste, geothermal, solar/PV, and wind.

Total (All Sectors), Major Sources, Monthly

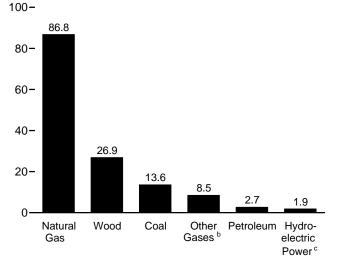


Electric Power Sector, Major Sources, 2012

2,000-



Industrial Sector, Major Sources, 2012



^c Conventional hydroelectric power.

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

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

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

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

Fossil Fuels	Wind	
Petro-	Wind	
Petro- P	Wind	
1975 Total 852,786 289,095 299,778 NA 172,505 (†) 303,153 18 174 3,246 NA 1980 Total 1,161,562 245,994 346,240 NA 251,116 (†) 279,182 275 158 5,073 NA 1985 Total 1,402,128 100,202 291,946 NA 333,691 (†) 284,311 743 640 9,325 11 1990 Total 1,594,011 126,460 372,765 10,383 576,862 -3,508 292,866 32,522 13,260 15,434 367 1995 Total 1,709,426 74,554 496,058 13,870 673,402 -2,725 310,833 36,521 20,405 13,378 497 1996 Total 1,795,196 81,411 455,056 14,356 674,729 -3,088 347,162 36,800 20,911 14,329 521	willu	Total
1980 Total 1,161,562 245,994 346,240 NA 251,116 (†) 279,182 275 158 5,073 NA 1985 Total 1,402,128 100,202 291,946 NA 383,691 (†) 284,311 743 640 9,325 11 1990 Total 1,594,011 126,460 372,765 10,383 576,862 -3,508 292,866 32,522 13,260 15,434 367 1995 Total 1,709,426 74,554 496,058 13,870 673,402 -2,725 310,833 36,521 20,405 13,378 497 1996 Total 1,795,196 81,411 455,056 14,356 674,729 -3,088 347,162 36,800 20,911 14,329 521	NA	1,864,057
1985 Total 1,402,128 100,202 291,946 NA 383,691 (†) 284,311 743 640 9,325 11 1990 Total 1,594,011 126,460 372,765 10,383 576,862 -3,508 292,866 32,522 13,260 15,434 367 1995 Total 1,709,426 74,554 496,058 13,870 673,402 -2,725 310,833 36,521 20,405 13,378 497 1996 Total 1,795,196 81,411 455,056 14,356 674,729 -3,088 347,162 36,800 20,911 14,329 521	NA NA	1,920,755 2,289,600
1990 Total *	NA 6	2,473,002
1996 Total	2,789	3,037,827
1997 Total 1,845,016 92,555 479,399 13,351 628,644 -4,040 356,453 36,948 21,709 14,726 511	3,164 3,234	3,353,487 3,444,188
	3,288	3,492,172
1998 Total	3,026	3,620,295
1999 Total	4,488	3,694,810
2000 Total	5,593 6,737	3,802,105 3,736,644
2002 Total	10,354	3,858,452
2003 Total	11,187	3,883,185
2004 Total	14,144 17,811	3,970,555 4,055,423
2006 Total 1,990,511 64,166 816,441 14,177 787,219 -6,558 289,246 38,762 16,099 14,568 508	26,589	4,064,702
2007 Total	34,450	4,156,745
2008 Total	55,363 73,886	4,119,388 3,950,331
2010 January	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	8,589	312,168
April	9,764 8,698	287,800 327,936
June	8,049	375,759
July 179,600 4,411 114,624 963 71,913 -557 24,517 3,308 1,640 1,274 161	6,724	409,725
August	6,686 7,106	408,884 346,045
October	7,100	307,921
November 135,185 2,079 69,227 907 62,655 -467 19,562 3,080 1,625 1,252 77	9,748	306,010
December 167,258 3,523 77,573 952 73,683 -530 23,169 3,275 1,650 1,330 44 Total	9,059 94,652	362,119 4,125,060
2011 January	8,550	363,105
February	10,452	313,293
March	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 1,318 191	11,772	323,627
June	10,985	367,727
July	7,489 7,474	418,693 406,541
August	6,869	337,961
October	10,525	308,727
November 121,463 1,783 75,441 943 64,474 -441 20,681 3,088 1,684 1,271 107	12,439	304,119
	10,656 120,177	335,753 4,100,656
2012 January	13,806	340,919
February	11,164 13,897	310,151 309,040
March	12,812	295.940
May 116,345 1,727 107,927 969 62,081 -343 28,542 2,997 1,713 1,422 511	12,573	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	8,724 8,287	416,515 396,108
September 125,767 1,864 108,206 893 64,511 -401 17,562 3,143 1,628 1,377 462	8,680	334,735
October	12,514	312,157
November 128,992 1,779 79,707 759 56,713 -390 18,834 3,216 1,633 1,429 314 December 134,230 1.757 84,103 858 68,584 -549 23,248 3,350 1,762 1,459 258	11,513	305,548
	14,175 140,089	334,335 4,054,485

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

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.

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

Solar thermal and photovoltaic (PV) energy.

Solar thermal and photovoltaic (PV) energy.

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

K Through 1988, 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.

Table 7.2b Electricity Net Generation: Electric Power Sector

(Subset of Table 7.2a; Million Kilowatthours)

					Renewable Energy								
		Fossil F	-										
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power ^f	Bior Wood ⁹	mass Waste ^h	Geo- thermal	Solar/ PV ⁱ	Wind	Total ^j
1973 Total 1975 Total 1980 Total 1985 Total	1,402,128	314,343 289,095 245,994 100,202	340,858 299,778 346,240 291,946	NA NA NA	83,479 172,505 251,116 383,691	(f) (f) (f) (f)	272,083 300,047 276,021 281,149	130 18 275 743	198 174 158 640	1,966 3,246 5,073 9,325	NA NA NA 11	NA NA NA	1,860,710 1,917,649 2,286,439 2,469,841
1990 Total* 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2008 Total 2008 Total	1,686,056 1,771,973 1,820,763 1,850,193 1,858,618 1,943,111 1,882,826 1,910,613 1,952,714 1,957,188 1,992,714 1,969,737 1,998,390 1,968,838 1,741,123	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 35,811	309,486 419,179 378,757 399,596 449,293 472,996 517,978 554,940 607,683 567,303 627,172 683,829 734,417 814,752 802,372 841,006	621 1,927 1,341 1,533 2,315 1,607 2,028 586 1,970 2,647 3,568 3,777 4,254 4,042 3,200 3,058	576,862 673,402 674,729 628,644 673,702 728,254 753,893 768,826 780,064 763,733 781,986 781,219 806,425 806,208	-3,508 -2,725 -3,088 -4,040 -4,467 -6,097 -5,539 -8,823 -8,743 -8,535 -6,558 -6,558 -6,558 -6,268 -6,288 -4,627	289,753 305,410 341,159 350,648 317,867 314,663 271,338 213,749 260,491 271,512 265,064 267,040 286,254 245,843 253,096 271,506	7,032 7,597 8,386 8,680 8,961 8,916 8,294 9,009 9,528 9,736 10,570 10,341 10,638 10,738	11,500 17,986 17,816 18,485 19,233 20,307 12,944 13,145 13,062 13,031 13,927 14,294 15,379 15,954	15,434 13,378 14,729 14,726 14,774 14,827 14,093 13,741 14,491 14,491 14,632 14,568 14,637 14,840 15,009	367 497 521 511 502 495 493 555 534 575 550 508 612 864 891	2,789 3,164 3,234 3,288 3,026 4,488 5,593 6,737 10,354 11,187 14,144 17,811 26,589 34,450 55,363 73,886	2,901,322 3,194,230 3,284,141 3,329,375 3,457,416 3,529,982 3,637,529 3,580,053 3,721,159 3,808,360 3,902,192 3,908,077 4,005,343 3,974,349 3,809,837
Petruary February March April May June July August September October November December Total	171,660 151,461 142,665 125,615 141,669 163,912 177,778 175,848 147,157 130,663 133,815 165,494	4,111 2,166 2,299 2,109 2,801 3,792 4,199 3,375 2,608 2,037 1,879 3,302 34,679	66,847 59,556 56,492 58,124 66,862 85,033 106,961 112,961 85,498 70,876 62,305 69,875 901,389	275 247 275 273 279 265 267 249 240 170 219 208 2,967	72,569 65,245 64,635 57,611 66,658 68,301 71,913 71,574 69,371 62,751 62,655 73,683 806,968	-565 -351 -325 -335 -441 -472 -557 -600 -421 -438 -467 -530	22,207 20,421 20,691 18,898 24,903 29,711 24,405 20,019 17,188 17,561 19,426 23,024 258,455	1,011 926 939 837 830 955 1,061 1,074 974 887 934 1,018	1,294 1,207 1,391 1,354 1,359 1,409 1,419 1,413 1,330 1,412 1,443	1,312 1,159 1,307 1,240 1,311 1,264 1,274 1,297 1,253 1,222 1,252 1,330	10 33 76 112 153 175 161 156 137 75 76 43 1,206	6,853 5,431 8,588 9,763 8,696 8,048 6,723 6,685 7,104 7,942 9,746 9,058 94,636	348,128 307,994 299,571 276,121 315,656 362,985 394,651 333,057 295,646 293,833 348,549 3,972,386
2011 January February March April May June July August September October November December Total	169,390 137,082 133,584 123,272 135,820 156,716 175,129 169,798 139,648 125,442 120,323 131,686 1,717,891	3,229 2,255 2,526 2,257 2,218 2,438 3,006 2,449 2,272 1,894 1,632 2,025 28,202	66,932 59,380 59,362 63,257 68,175 83,426 111,502 111,540 84,300 71,962 68,262 78,193 926,290	243 207 252 244 242 259 262 264 252 240 227 247 2,939	72,743 64,789 65,662 54,547 57,013 65,270 72,345 71,339 66,849 63,337 64,474 71,837 790,204	-426 -247 -349 -466 -418 -567 -708 -663 -553 -572 -441 -496	25,386 23,970 30,945 31,008 32,386 31,199 31,173 25,666 21,254 19,660 20,533 23,552 317,531	981 886 897 705 760 936 1,048 1,038 916 807 800 959 10,733	1,247 1,180 1,299 1,251 1,296 1,365 1,413 1,407 1,319 1,354 1,403 1,455 15,989	1,347 1,215 1,337 1,239 1,318 1,215 1,269 1,275 1,226 1,281 1,271 1,324	37 81 116 155 181 210 181 218 177 151 103 117 1,727	8,547 10,448 10,540 12,417 11,767 10,981 7,486 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 April May June July August September October November December Total	127,857 112,775 104,379 95,403 115,212 130,371 159,516 151,372 124,585 120,392 127,836 133,034 1,502,732	2,144 1,727 1,358 1,344 1,541 1,842 2,071 1,813 1,626 1,635 1,522 1,498 20,122	83,819 83,629 85,311 88,356 100,212 108,256 131,757 123,795 100,681 84,574 71,950 75,731 1,138,072	237 233 241 234 226 228 237 244 225 206 183 224 2,719	72,381 63,847 61,729 55,871 62,081 65,140 69,129 69,602 64,511 59,743 56,713 68,584 769,331	-330 -226 -268 -242 -343 -475 -587 -496 -401 -351 -390 -549	23,181 20,201 25,580 25,973 28,357 26,476 26,646 23,045 17,467 16,097 18,595 23,026 274,644	952 879 830 642 802 869 989 1,016 892 906 959 10,566	1,349 1,264 1,394 1,395 1,426 1,414 1,467 1,379 1,348 1,360 1,335 1,444	1,415 1,339 1,413 1,335 1,422 1,380 1,421 1,388 1,377 1,413 1,429 1,459	83 132 240 334 493 506 451 447 305 252 4,203	13,798 11,157 13,888 12,804 12,565 11,936 8,719 8,282 8,675 12,507 11,508 14,167 140,004	327,525 297,543 296,736 284,075 324,644 348,626 402,532 382,523 322,061 299,443 292,512 320,482 3,898,702

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

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

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

Sources: See end of section.

a 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, data are for electric utilities only. Beginning in 1989, data are for electric utilities and independent power producers.
NA=Not available.

Electricity Net Generation: Commercial and Industrial Sectors Table 7.2c

(Subset of Table 7.2a; Million Kilowatthours)

	Commercial Sector ^a						Industrial Sector ^b							
				Biomass						Hydro-	Biomass			
	Coalc	Petro- leum ^d	Natural Gas ^e	Waste ^f	Total	Coalc	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	electric Power ⁱ	Wood ^j	Wastef	Total ^k	
1973 Total 1975 Total 1975 Total 1985 Total 1985 Total 1990 Total 1995 Total 1997 Total 1997 Total 1998 Total 1998 Total 1999 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total	NA NA NA 796 998 1,051 1,040 985 995 1,097 995 1,206 1,353 1,310 1,371	NA NA NA NA 589 379 369 427 383 434 432 438 431 423 499 375 235	NA N	NA N	NA NA NA 5,837 8,232 9,030 8,701 8,749 7,496 7,415 7,496 8,492 8,371 8,273	NA NA NA 21,107 22,372 22,172 23,214 22,337 21,474 22,056 20,135 21,525 19,817 19,466 19,464 16,694	NA NA NA 7,008 6,030 5,649 6,206 6,088 5,597 5,293 5,285 5,368 4,223 4,223	NA NA NA 60,007 71,71,049 75,078 77,085 79,755 79,755 78,793 78,798 79,755 72,882 77,680 77,580	NA NA NA 9,641 11,943 13,015 11,814 11,770 11,270 8,454 9,493 12,953 11,684 9,687 9,923 9,411	3,347 3,106 3,161 2,975 5,304 5,878 5,685 5,349 4,758 4,135 3,825 4,222 3,248 3,195 2,899 1,590	NA NA NA 25,379 28,868 28,354 28,225 27,693 26,888 29,643 27,988 28,271 28,400 28,652 26,888 29,643 27,988 28,271 28,400 28,287	NA NA NA NA 949 900 686 839 596 846 715 797 733 572 631	3,347 3,106 3,161 3,161 130,830 151,025 151,017 154,097 154,132 156,264 156,673 149,175 152,580 154,530 154,530 154,530 148,254 147,739 148,254	
2008 Total 2009 Total	1,261 1,096	142 163	4,188 4,225	1,534 1,748	7,926 8,165	15,703 13,686	3,219 2,963	76,421 75,748	8,507 7,574	1,676 1,868	26,641 25,292	821 740	137,113 132,329	
Page 15 January February March April May June July August September October November December Total	116 102 91 80 84 97 110 105 89 80 69 88 1,111	13 11 8 9 12 10 18 11 9 7 4 12	367 339 351 326 326 350 459 490 421 419 401 476 4,725	137 111 134 144 149 150 146 152 148 133 134 136 1,672	709 623 661 645 666 699 812 838 750 712 683 793 8,592	1,544 1,481 1,649 1,258 1,519 1,482 1,713 1,792 1,499 1,527 1,301 1,677 18,441	225 197 163 169 181 187 194 189 165 165 209 2,258	6,959 6,303 6,588 6,194 6,477 6,885 7,205 7,701 7,085 6,443 6,520 7,223 81,583	634 578 735 669 738 700 696 812 713 637 688 744 8,343	169 162 188 187 164 132 107 99 76 117 130 134	2,114 1,967 2,149 2,094 2,061 2,137 2,246 2,243 2,182 2,114 2,145 2,255 25,706	72 64 67 80 69 68 75 78 62 84 79 71	12,120 11,118 11,936 11,034 11,614 12,075 12,718 13,395 12,238 11,562 11,493 12,777 144,082	
2011 January February March April May June July August September October November December Total	108 104 100 77 82 90 104 94 84 65 62 78 1,049	21 11 7 4 5 3 7 7 7 6 7 6 89	421 367 373 357 471 463 605 571 487 438 437 499 5,487	186 169 188 179 202 200 205 210 195 190 195 195 2,315	817 725 753 706 867 860 1,023 985 870 799 800 874 10,080	1,304 1,125 1,161 1,139 1,199 1,249 1,353 1,389 1,209 1,120 1,077 1,165 14,490	207 168 160 163 156 152 141 138 145 145 143 155 1,891	6,901 6,177 6,212 6,416 6,597 6,802 7,517 7,745 6,953 6,419 6,742 7,429 81,911	687 600 693 674 633 753 836 823 752 700 715 758 8,624	143 160 187 184 198 150 109 96 122 126 146 178 1,799	2,307 2,048 2,181 2,090 2,033 2,292 2,312 2,343 2,260 2,146 2,286 2,392 26,691	82 78 78 73 66 67 71 76 75 86 86 81	12,054 10,770 11,149 11,175 11,359 11,938 12,868 13,085 11,948 11,224 11,663 12,642 141,875	
Petron July September October November December Total	84 78 70 64 70 68 78 71 58 43 72 81	7 5 5 6 6 10 12 10 8 9 7 6	528 499 476 468 480 493 553 498 480 471 447 478 5,870	203 202 199 202 210 202 219 220 211 219 217 231 2,536	913 875 853 843 880 980 917 869 855 845 911 10,621	1,175 1,055 1,097 998 1,063 1,130 1,344 1,299 1,124 1,152 1,085 1,115 13,634	294 194 197 214 180 204 205 249 231 217 250 252 2,688	7,293 6,963 6,716 6,522 7,235 7,266 7,892 7,535 7,045 7,045 7,049 7,309 7,894	743 771 769 745 742 717 731 779 668 614 576 634 8,490	175 157 186 160 182 131 109 97 92 107 236 218 1,851	2,412 2,246 2,106 2,022 2,193 2,188 2,304 2,293 2,249 2,241 2,308 2,388 26,949	77 72 70 72 77 71 82 77 69 81 81 88 915	12,480 11,733 11,452 11,022 12,006 12,000 13,003 12,669 11,805 11,860 12,191 12,942 145,162	

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

NA=Not available.

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.

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, 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 tire-derived fuels)

fitre-derived fuels).

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

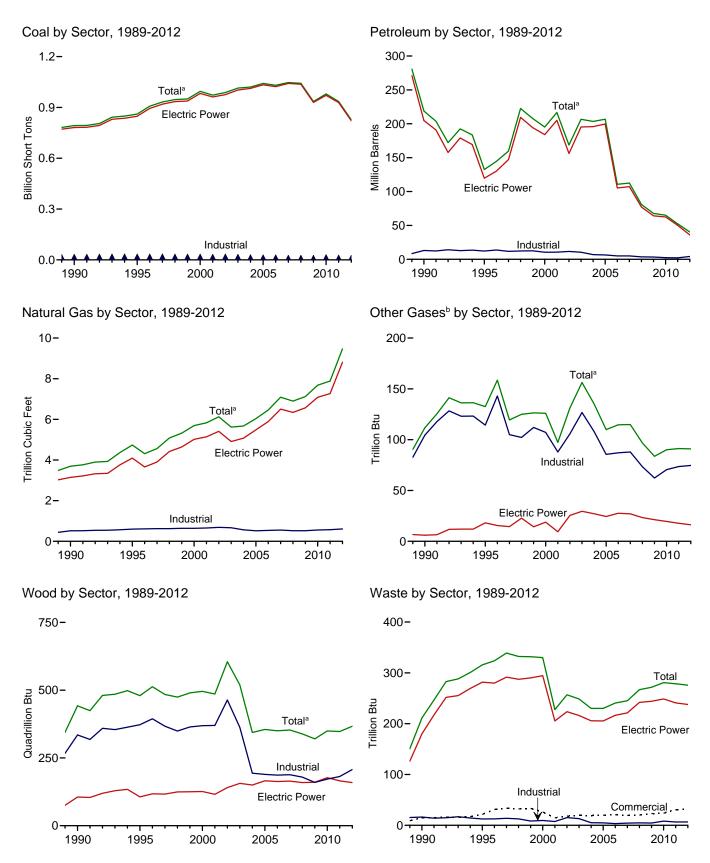
h Blast furnace gas, and other manufactured and waste gases derived from fossil fuels. Through 2010, also includes propane gas.

Conventional hydroelectric power.

Wood and wood-derived fuels.

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

Figure 7.3 Consumption of Selected Combustible Fuels for Electricity Generation



^a Includes commercial sector.

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

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

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases	Woodh	Waste ⁱ	Other
	Thousand Short Tons	TI	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total 1980 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	1 (s) 3	2 2 2	NA NA NA
1985 Total	693,841 792,457 860,594 907,209 931,949 946,295	14,635 18,143 19,615 20,252 20,309 25,062	158,779 190,652 95,507 106,055 118,741 172,728	NA 437 680 1,712 237 549	231 1,914 3,355 3,322 4,086 4,860	174,571 218,800 132,578 144,626 159,715 222,640	3,044 3,692 4,738 4,312 4,565 5,081	NA 112 133 159 119 125	442 480 513 484 475	7 211 316 324 339 332	NA 36 42 37 36 36
1999 Total	949,802 994,933 972,691 987,583 1,014,058 1,020,523	25,951 31,675 31,150 23,286 29,672 20,163	158,187 143,381 165,312 109,235 142,518 142,088	974 1,450 855 1,894 2,947 2,856	4,552 3,744 3,871 6,836 6,303 7,677	207,871 195,228 216,672 168,597 206,653 203,494	5,322 5,691 5,832 6,126 5,616 5,675	126 126 97 131 156 135	490 496 486 605 519 344	332 330 228 257 249 230	41 46 160 191 193 183
2005 Total 2006 Total 2007 Total 2008 Total 2009 Total	1,041,448 1,030,556 1,046,795 1,042,335 934,683	20,651 13,174 15,683 12,832 12,658	141,518 58,473 63,833 38,191 28,576	2,968 2,174 2,917 2,822 2,328	8,330 7,363 6,036 5,417 4,821	206,785 110,634 112,615 80,932 67,668	6,036 6,462 7,089 6,896 7,121	110 115 115 97 84	355 350 353 339 320	230 241 245 267 272	173 172 168 172 170
2010 January	90,767 80,209 76,544 67,037 76,061 87,395 94,993 94,786 79,573 70,918 72,756 88,645 979,684	2,485 869 785 726 1,050 1,244 1,347 1,093 905 787 876 1,883 14,050	2,860 1,075 1,245 1,160 1,997 3,087 3,681 2,987 1,789 1,113 982 2,021 23,997	241 212 147 126 121 154 200 164 151 129 143 266 2,056	433 404 438 382 415 493 524 423 394 362 317 408 4,994	7,751 4,174 4,370 3,923 5,244 6,950 7,849 6,358 4,813 3,840 3,588 6,210 65,071	570 502 479 494 582 731 923 972 723 594 519 591 7,680	7 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	30 28 29 27 27 29 31 32 30 28 29 31 350	22 20 24 23 24 24 24 23 23 23 24 24 24	15 13 15 15 16 16 16 16 15 15
Pebruary February March April May June July August September October November December Total	90,208 73,614 72,645 67,128 73,522 84,156 94,304 92,297 76,790 69,605 67,059 73,610 934,938	1,347 913 907 1,005 973 968 1,138 831 736 753 768 892	1,723 1,020 1,113 1,333 1,230 1,249 1,550 1,313 942 938 917 922 14,251	255 144 140 111 88 138 238 146 156 143 147 138	552 431 517 336 357 432 510 464 454 338 257 365 5,012	6,086 4,230 4,746 4,130 4,078 4,514 5,476 4,610 4,105 3,522 3,522 3,775 52,387	564 503 546 599 727 967 951 712 600 568 642 7,884	7 6 7 7 7 8 9 9 8 7 8 8 9	31 28 29 25 26 30 31 32 30 27 28 31 348	22 21 23 22 23 24 25 25 23 24 24 25 279	16 15 17 17 18 18 19 18 17 17 17 18 205
2012 January February March April July June July August September October November December Total	70,846 62,906 57,442 51,893 62,978 71,750 86,667 82,862 69,490 66,745 69,977 73,144 826,700	816 689 599 789 907 899 894 723 681 776 737 687 9,196	994 760 875 799 839 1,299 1,608 1,143 836 937 782 816	78 118 128 141 166 177 174 154 112 148 118 126 1,639	465 354 234 202 245 265 291 319 313 266 298 300 3,552	4,213 3,340 2,771 2,7741 3,138 3,698 4,131 3,617 3,196 3,188 40,285	675 673 702 742 844 911 1,123 1,034 834 699 609 618 9,465	8 8 8 8 8 8 7 7 7 6 7 91	33 31 28 26 29 30 32 33 31 29 31 33 367	22 21 23 23 24 23 25 23 22 23 22 23 24 276	15 14 15 14 16 15 16 15 15 15 16

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

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

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.

Anthracite, bituminous coal, subbituminous coal, lignite, 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 no. 4.

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

propane.

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

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.

Myood and wood-derived fuels.

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

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total 1980 Total 1988 Total 1990 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1998 Total 2000 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total	389,212 405,962 569,274 693,841 781,301 847,854 894,400 919,009 934,126 937,888 982,713 961,523 975,251 1,003,036 1,012,459 1,033,567 1,022,802 1,041,346	47,058 38,907 29,051 14,635 16,394 18,066 18,472 18,646 23,166 23,875 29,722 29,056 21,810 27,441 18,793 19,450 12,578 15,135 12,318	513,190 467,221 391,163 158,779 183,285 88,895 98,795 112,423 165,875 151,921 138,047 159,150 104,577 137,361 138,831 138,831 138,337 56,347 62,072 37,222	NA NA NA NA 25 441 567 130 411 514 403 374 1,937 2,511 1,783 2,496 2,608	507 70 179 231 1,008 2,452 2,457 3,201 3,999 3,607 3,155 3,308 5,705 5,719 7,135 7,877 6,905 5,523 5,000	562,781 506,479 421,110 174,571 204,745 119,663 130,168 147,202 209,447 194,345 183,946 205,119 156,154 195,336 195,809 199,760 105,235 107,316 77,149	3,660 3,158 3,682 3,044 4,094 3,660 3,903 4,416 4,644 5,142 5,402 5,409 5,075 5,485 5,891 6,502 6,342	NA NA NA 18 16 14 23 14 19 9 25 30 27 24 28 27 23	1 (s) 3 8 106 106 117 125 125 125 126 116 141 141 156 163 163	2 2 2 2 7 7 180 282 280 292 287 290 294 205 216 206 221 221 242	NA N
2010 January	929,692 90,080 79,537 75,772 66,559 75,311 86,725 94,194 93,922 78,881 70,205 72,206 87,854 971,245	2,441 833 756 695 1,021 1,220 1,306 1,066 880 762 849 1,847	27,768 2,804 1,023 1,214 1,132 1,964 3,059 3,643 2,962 1,760 1,076 949 1,973 23,560	2,110 219 196 130 112 104 137 185 149 136 112 125 244 1,848	4,485 404 379 415 360 390 463 495 392 371 337 290 383 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	21 2 2 2 2 2 2 2 2 2 1 1 1 1 1 20	160 16 15 15 14 13 15 16 16 15 13 15 177	200 188 211 200 21 211 222 222 211 200 211 222 249	9 8 9 9 10 10 10 10 10 10 10 10 10
2011 January	89,681 73,167 72,148 66,643 73,010 83,622 93,724 91,707 76,286 69,165 66,642 73,063 928,857	1,314 886 882 989 955 951 1,117 812 714 727 745 868 10,961	1,660 977 1,082 1,302 1,206 1,223 1,524 1,287 915 906 889 891 13,861	238 127 124 96 72 123 223 130 140 128 132 123 1,655	524 409 495 312 333 409 491 440 428 312 232 339 4,726	5,833 4,033 4,563 3,948 3,899 4,344 5,317 4,430 3,911 3,321 2,926 3,579 50,105	512 459 457 498 675 909 893 659 551 518 586 7,265	1 1 2 1 1 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1	15 14 14 11 12 14 16 16 14 13 12 15	19 18 20 19 20 21 21 21 20 20 21 22 24	10 10 11 11 11 12 12 12 11 11 11 11 12 133
Populary	70,382 62,486 57,010 51,504 62,569 71,310 86,138 82,344 69,048 66,287 69,550 72,738 821,365	797 674 582 766 885 871 867 696 656 749 717 669 8,929	958 725 845 773 808 1,276 1,579 1,119 812 914 760 792 11,362	62 102 119 113 158 159 166 147 101 125 112 115	382 306 183 153 196 215 237 247 247 213 223 226 2,827	3,727 3,032 2,463 2,415 2,831 3,380 3,796 3,195 2,807 2,851 2,704 2,706 35,907	620 621 652 693 789 856 1,063 977 781 645 553 559 8,810	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	15 14 12 10 12 13 15 15 14 12 13 14	19 17 20 20 21 20 21 20 19 20 20 21 238	11 10 10 10 11 11 11 11 11 11 11 11 11

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

tire-derived fuels)

tire-derived fuels).

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

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

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

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

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

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

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

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

Sources: See end of section.

Anthracite, biturinitious coai, substituting and are for gas turbine and internal combustion plant use of petroleum. For 1980-2000, electric utility data also include small amounts of kerosene and jet fuel.

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

oil no. 4.

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

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

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

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

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

Now do and wood-derived fuels.

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

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

		Commerc	ial Sector ^a				Indu	strial Sector	b		
			Natural	Biomass			Natural	Other	Bion	nass	
	Coalc	Petroleum ^d	Gas ^e	Waste ^f	Coalc	Petroleum ^d	Gas ^e	Gases	Woodh	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	n Btu	
1989 Total	414 417 569 656 630 440 481 514 532 477 582 377 377 347 361 369 317	1,165 953 649 645 790 802 931 823 1,023 834 894 766 585 333 258 166 190	18 28 43 42 39 41 39 37 36 33 38 33 34 35 34 33 34	9 15 21 31 34 32 33 26 15 18 19 20 21 19 20 23	9,707 10,740 12,171 12,153 12,311 11,728 11,432 11,706 10,636 11,855 10,440 7,687 7,504 7,408 5,089 5,075 4,674	8,482 13,103 12,265 13,813 11,723 12,392 12,595 10,459 10,530 11,608 10,424 6,919 6,440 5,066 5,041 3,617 3,328	444 517 601 610 623 625 639 640 654 685 668 566 518 536 536 554 520	83 104 114 143 105 102 112 107 88 106 127 108 85 87 88 87 88	267 335 373 394 367 349 364 369 370 464 362 194 189 187 188 179 160	15 16 13 13 14 13 8 10 7 15 13 5 5 3 4	37 36 40 35 36 35 39 45 44 43 46 41 46 45 41 39 42
Page 2010 January	32 28 26 23 27 30 29 26 23 21 26 314	18 16 12 11 14 13 26 15 13 11 7 15	3 3 3 3 3 4 4 4 3 3 3 4 4 4 4 3 3	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	654 643 746 456 727 643 769 835 666 690 529 765 8,125	252 212 182 171 190 204 213 207 171 195 208 217 2,422	48 43 44 42 44 47 50 53 48 44 43 48 555	5 5 6 6 6 6 6 7 6 5 6 6 7 0 7	14 13 14 14 14 15 15 15 14 14 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 4 4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Pebruary	40 39 37 25 25 27 32 29 26 21 21 26 347	27 16 11 5 5 5 14 12 13 10 11 9	4 3 3 3 4 4 5 5 4 4 4 4 4 4 4 4 7	3 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	487 409 460 460 487 507 548 562 479 419 397 521 5,735	226 180 173 177 174 165 145 168 181 191 179 187 2,145	48 43 43 45 47 48 53 54 49 45 47 51	6 5 5 6 7 7 7 6 6 6 6 7 7 7	16 14 15 14 14 16 16 15 15 15 16 16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Page 2012 January	29 27 25 22 24 26 30 28 24 20 26 28 310	9 7 8 10 9 15 18 16 12 13 11 9	4 4 4 4 4 5 5 4 4 4 4 4 4 4 4 4 4 4 4 4	3 3 2 3 2 3 2 3 3 3 3 3 3 3 3 3 3 2 3	435 393 407 366 385 413 500 491 418 438 401 378 5,026	476 301 300 316 298 303 318 407 377 324 412 412 4,243	50 48 46 45 51 51 55 53 50 50 50 51 55 606	6 7 7 6 6 6 6 7 6 5 5 6 7	18 17 15 16 17 17 18 18 17 17 18 19	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3

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

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

Notes: • Data are for fuels consumed to produce electricity. Through 1988, data are not available. • See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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-960B, "Power Plant Report." • 2001-2003: EIA, Form EIA-906, "Power Plant Report." and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

plants.

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

plants.

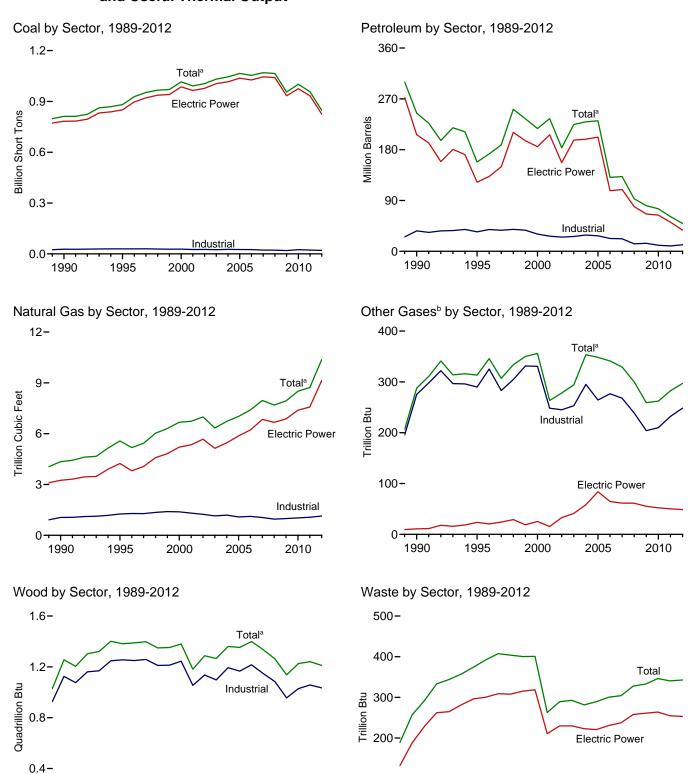
^c Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and coal

C Anthracite, Diurrilinous coal, Substitution 1 and 1 agricultural pyroducts, and other biomass. Inflough 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

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

h Wood and wood-derived fuels.

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



1995

1990

2000

Electric Power

2010

2005

2000

2005

2010

Commercial

Industrial

1995

100-

1990

^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.

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Th	nousand Barre	ls	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1975 Total 1980 Total 1985 Total	389,212 405,962 569,274 693,841	47,058 38,907 29,051 14,635	513,190 467,221 391,163 158,779	NA NA NA	507 70 179 231	562,781 506,479 421,110 174,571	3,660 3,158 3,682 3,044	NA NA NA	1 0 3 8	2 2 2	NA NA NA NA
1990 Total K	811,538 881,012 928,015 952,955 966,615 970,175	20,194 21,697 22,444 22,893 30,006 30,616	209,081 112,168 124,607 134,623 189,267 172,319	1,332 1,322 2,468 526 1,230 1,812	2,832 4,590 4,596 6,095 6,196 5,989	244,765 158,140 172,499 188,517 251,486 234,694	4,346 5,572 5,178 5,433 6,030 6,305	288 313 346 307 334 350	1,256 1,382 1,389 1,397 1,349 1,352	257 374 392 407 404 400	86 97 91 103 95 101
2000 Total 2001 Total 2002 Total 2003 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total	1,015,398 991,635 1,005,144 1,031,778 1,044,798 1,065,281 1,053,783 1,069,606 1,064,503	34,572 33,724 24,749 31,825 23,520 24,446 14,655 17,042 14,137	156,673 177,137 118,637 152,859 157,478 156,915 69,846 74,616 43,477	2,904 1,418 3,257 4,576 4,764 4,270 3,396 4,237 3,765	4,669 4,532 7,353 7,067 8,721 9,113 8,622 7,299 6,314	217,494 234,940 183,409 224,593 229,364 231,193 131,005 132,389 92,948	6,677 6,731 6,986 6,337 6,727 7,021 7,404 7,962 7,689	356 263 278 294 353 348 341 329 300	1,380 1,182 1,287 1,266 1,360 1,353 1,399 1,336	401 263 289 293 282 289 300 304 328	109 229 252 262 254 237 247 239
2009 Total2010 January	955,190 92,738	14,800 2,643	33,672 3,212	3,218	5,828 525	80,830 8,819	7,938 643	259 21	1,137	333	228
February March April May June	82,029 78,383 69,179 77,725 89,063	978 866 837 1,111 1,295	1,397 1,439 1,355 2,221 3,291	286 207 176 176 204	497 522 458 500 586	5,143 5,124 4,656 6,005 7,721	566 547 556 647 796	19 23 22 23 23	96 103 98 98 101	26 30 29 29 29	17 19 19 20 21
July	96,783 96,593 81,250 72,571 74,496	1,455 1,185 961 871 1,017	3,921 3,190 2,006 1,370 1,212	244 206 191 186 204	613 510 475 453 414	8,684 7,132 5,534 4,693 4,503	997 1,047 791 662 586	22 23 22 20 21	105 106 103 101 102	29 29 27 29 30	21 21 20 20 20
December Total	90,600 1,001,411	2,029 15,247	2,332 26,944	361 2,777	499 6,053	7,218 75,231	665 8,502	23 262	109 1,226	30 346	21 237
2011 January February March April May June July August September October November December Total	92,292 75,447 74,514 68,841 75,298 85,881 96,128 94,103 78,479 71,317 68,748 75,422 956,470	1,411 986 965 1,034 1,016 1,001 1,169 855 770 797 805 926 11,735	2,123 1,247 1,327 1,537 1,416 1,450 1,738 1,515 1,136 1,147 1,118 1,123	329 213 201 166 146 191 292 204 207 201 201 291 292	645 521 603 428 452 521 599 545 545 429 345 460 6,092	7,087 5,052 5,506 4,876 4,838 5,246 6,194 5,298 4,837 4,289 3,848 4,537 61,610	636 570 570 610 666 794 1,045 1,030 782 666 636 718	23 22 24 22 23 24 25 25 24 24 23 24 23 24	111 99 104 96 95 104 107 107 104 100 103 111 1,241	28 26 28 26 27 27 28 29 29 28 30 30 31	20 19 22 21 22 23 24 23 21 22 22 22 23 261
2012 January February March April May June July August September October November December Total	72,795 64,604 59,142 53,407 64,678 73,344 88,319 84,597 71,050 68,476 71,660 74,951 847,023	847 710 626 814 938 943 937 754 705 803 765 712 9.555	1,188 892 994 920 991 1,458 1,767 1,303 973 1,087 931 961	131 168 198 219 206 234 205 180 146 214 148 164 2,214	561 449 360 317 355 365 385 412 406 379 405 418	4,970 4,015 3,617 3,538 3,909 4,458 4,836 4,297 3,868 3,999 3,868 3,927 49,287	755 746 775 814 917 987 1,203 1,113 908 774 682 696 10,370	26 25 27 25 26 25 25 26 23 22 22 25 297	109 101 96 91 100 100 105 103 101 98 100 106	28 26 29 27 29 28 29 28 27 29 30 32 343	18 16 17 17 18 18 18 18 17 17 17

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

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

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

NA=Not available.

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

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

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.

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

Petroleum coke is converted from short contributions to barriers by intempring by 3.

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

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

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-blogenic sources, and tire-derived fuels).

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

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

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

				Petroleum					Bion	nass	
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ⁹	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	Ti	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total	389,212 405,962	47,058 38,907	513,190 467,221	NA NA	507 70	562,781 506,479	3,660 3,158	NA NA	1 (s)	2 2	NA NA
1980 Total 1985 Total	569,274 693.841	29,051 14,635	391,163 158.779	NA NA	179 231	421,110 174,571	3,682 3,044	NA NA	`´3 8	2 7	NA NA
1990 Total K	782,567	16,567	184,915	26	1,008	206,550	3,245	11	129	188	(s)
1995 Total 1996 Total	850,230 896,921	18,553 18,780	90,023 99.951	499 653	2,674 2,642	122,447 132,593	4,237 3,807	24 20	125 138	296 300	2 2
1997 Total	921,364	18,989	113,669	152	3,372	149,668	4,065	24	137	309	1
1998 Total	936,619	23,300	166,528	431	4,102	210,769	4,588	29	137	308	2
1999 Total 2000 Total	940,922 985,821	24,058 30,016	152,493 138,513	544 454	3,735 3,275	195,769 185,358	4,820 5,206	19 25	138 134	315 318	1 1
2001 Total	964,433	29,274	159,504	377	3,427	206,291	5,342	15	126	211	113
2002 Total	977,507	21,876	104,773	1,267	5,816	156,996	5,672	33	150	230	143
2003 Total	1,005,116 1.016,268	27,632 19,107	138,279 139.816	2,026 2,713	5,799 7,372	196,932 198,498	5,135 5,464	41 58	167 165	230 223	140 138
2004 Total 2005 Total	1,010,266	19,107	139,409	2,713	8,083	202,184	5,464 5.869	84	185	223	123
2006 Total	1,026,636	12,646	57,345	1,870	7,101	107,365	6,222	65	182	231	125
2007 Total	1,045,141	15,327	63,086	2,594	5,685	109,431	6,841	61	186	237	124
2008 Total 2009 Total	1,040,580 933,627	12,547 12,035	38,241 28,782	2,670 2,210	5,119 4,611	79,056 66,081	6,668 6,873	61 55	177 180	258 261	131 124
2010 January	90,452	2,459	2,887	222	413	7,636	546	5	17	21	10
February	79,884	851	1,061	219	389	4,076	480	4	16	20	9
March April	76,110 66,842	759 699	1,256 1,214	131 112	427 369	4,281 3,871	457 471	5 5	16 15	22 21	10 10
May	75,597	1,023	2.055	104	400	5,181	560	5	14	22	10
June	87,030	1,222	3,147	137	471	6,860	706	5	16	23	11
July	94,519 94.247	1,309 1,068	3,730 3,051	185 149	503 394	7,742 6,236	897 943	5 4	17 18	23 23	11 11
August September	79,176	883	1,845	136	372	4,726	697	4	16	23 22	10
October	70,492	772	1,161	112	346	3,773	570	3	15	22	10
November	72,514	890	1,035	126	301	3,557	497	4	16	23	10
December Total	88,189 975,052	1,854 13,790	2,062 24,503	245 1,877	391 4,777	6,118 64,055	564 7,387	4 52	17 196	23 264	11 124
2011 January	90,021	1,322	1,745	239	529	5,953	540	4	17	21	11
February	73,474	911	1,024	127	417	4,148	484	4	16	19	11
March April	72,458 66,930	885 991	1,153 1,384	124 96	506 321	4,692 4,078	482 521	5 4	15 12	21 20	12 12
May	73,338	957	1,286	72	344	4,034	572	4	13	21	12
June	83,908	954	1,303	123	419	4,474	699	4	16	22	12
July August _.	94,037 92.012	1,120 816	1,609 1.375	223 130	501 451	5,458 4,575	939 921	4 4	17 17	22 22	13 13
September	76,569	716	1,002	140	439	4,052	684	4	15	21	12
October	69,458	730	990	128	319	3,445	575	4	14	22	12
November	66,919 73,359	748 870	968 965	134 123	241 350	3,052 3,707	543 614	4	14 16	22 23	12 12
December Total	932,484	11, 021	14,803	1,658	4,837	51,667	7,574	50	182	255	143
2012 January	70,720	800	1,050	63	393	3,877	648	4	16	21	12
February	62,755	676	787	102	317	3,149	648	4	15	19	10
March April	57,300 51.751	585 769	895 836	119 113	194 162	2,568 2,526	677 720	4	14 11	21 20	11 11
May	62,868	890	889	158	207	2,971	817	4	13	22	12
June	71,595	874	1,362	159	221	3,497	885	4	15	21	12
July	86,429 82,643	871 699	1,656 1,199	166 147	246 256	3,922 3,324	1,093 1,007	4 4	16 16	22 21	12 12
August September	62,643 69,321	659	889	147	257	3,324 2,933	807	4	15	20	11
October	66,565	753	997	125	222	2,982	671	4	14	21	11
November December	69,798	720 673	841	112	232 236	2,832 2,841	578 585	3	15 16	22 23	11
	73.011	672	874	115	/3h	/ X41	2012	4	16	2.3	12

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

tire-derived fuels).

a Anthracite, biturininous coai, substituting and a Anthracite, biturininous coai, substituting and a 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, propage.

propane.

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

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

^g Blast furnace gas, 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 Batteriese, chemicals, hydrogen, pitch, purchased steam, sulfur, miscellaneous technologies, and, beginning in 2001, non-renewable waste (municipal solid waste from non-biogenic sources, and tire-derived fuels).

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

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

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

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

Sources: See end of section.

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

		Commerc	ial Sector ^a				Indu	strial Sector	b		
				Biomass					Biom	ass	
	Coalc	Petroleumd	Natural Gas ^e	Wastef	Coalc	Petroleumd	Natural Gas ^e	Other Gases	Woodh	Wastef	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillion	Btu	
1989 Total	1.125	1,967	30	22	24,867	25,444	914	195	926	35	85
1990 Total 1995 Total 1996 Total	1,191 1,419 1,660	2,056 1,245 1,246	46 78 82	28 40 53	27,781 29,363 29,434	36,159 34,448 38,661	1,055 1,258 1,289	275 290 325	1,125 1,255 1,249	41 38 39	86 95 89
1997 Total 1998 Total	1,738 1,443	1,584 1,807	87 87 84	58 54 54	29,853 28,553	37,265 38,910	1,282 1,355	283 305	1,259 1,211	41 42	102 93
1999 Total 2000 Total 2001 Total	1,490 1,547 1,448	1,613 1,615 1,832	85 79	47 25	27,763 28,031 25,755	37,312 30,520 26,817	1,401 1,386 1,310	331 331 248	1,213 1,244 1,054	31 35 27	99 108 101
2002 Total 2003 Total 2004 Total	1,405 1,816 1,917	1,250 1,449 2,009	74 58 72	26 29 34	26,232 24,846 26,613	25,163 26,212 28,857	1,240 1,144 1,191	245 253 295	1,136 1,097 1,193	34 34 24	92 103 94
2005 Total 2006 Total 2007 Total	1,922 1,886 1,927	1,630 935 752	68 68 70	34 36 31	25,875 25,262 22,537	27,380 22,706 22,207	1,084 1,115 1,050	264 277 268	1,166 1,216 1,148	34 33 36	94 102 98
2008 Total 2009 Total	2,021 1,798	671 521	66 76	34 36	21,902 19,766	13,222 14,228	955 990	239 204	1,084 955	35 35	60 82
2010 January	193 167	55 47	7 7	3	2,094 1,978	1,128 1,021	90 80	17 15	86 79	4	6 7
March April May	149 117 118	26 24 28	7 6 6	3 3 4	2,124 2,220 2,010	817 761 796	84 79 82	18 18 18	86 83 83	4 5 3	7 7 7
June July August	135 142 152	26 59 46	6 8 9	3 3 3	1,898 2,122 2,194	835 883 849	84 91 95	18 17 19	85 88 88	3 3 3	8 8 8
September October November	133 121 128	27 21 22	7 7 7	3 3 3	1,941 1,958 1,854	780 899 924	87 84 82	18 17 17	87 86 86	3 5 5	8 8 8 8
December	165 1,720	55 437	8 86	3 36	2,246 24,638	1,045 10,740	92 1,029	19 210	91 1,029	4 47	8 91
2011 January February	189 173	103 48	7 6	3	2,082 1.800	1,031 856	90 81	18 18	94 83	4	7 7
March April	164 124	26 8	6	3 3	1,891 1,787	788 791	82 83	19 18	88 84	4 3	8 8
May June July	124 130 145	12 9 23	7 7 9	4 4 4	1,836 1,843 1,946	791 764 714	87 88 97	19 20 20	82 88 90	3 3 3	8 8 9
August September October	129 122 110	20 23 14	9 8 7	4 4 4	1,962 1,788 1,748	703 762 830	99 91 85	20 20 20	90 88 86	3 3 4	8 7 8
November December Total		28 19 333	7 8 87	4 4 43	1,712 1,923 22,319	767 812 9,610	86 96 1,063	19 20 232	90 95 1,057	5 4 43	8 8 94
2012 January	162	27	9	4	1,913	1,065	98	21	93	4	4
February March April	141 135 115	20 23 16	8 8 7	4 4 3	1,708 1,707 1,542	847 1,026 997	90 90 87	21 22 21	86 82 80	4 4 4	3 4 3
May June	121 114 118	17 29 38	7 8 8	4 3 4	1,689 1,634 1,773	921 932 876	93 94 101	22 21 21	87 85 89	4 3 4	4 4 4
July August September	126 116	32 25	8	3 3	1,827 1,613	942 896	98 93	22 19	86 85	4	4
October November December	115 134 151	28 25 23	8 7 8	4 4 4	1,796 1,728 1,789	989 1,011 1,064	95 97 103	18 19 21	85 86 90	4 4 5	4 4 4
Total	1,549	302	94	44	20,717	11,566	1,139	248	1,034	45	45

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

tire-derived fuels).

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

Nood and wood-derived fuels.
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."

plants.

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

plants.

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

Antimacite, biturinifous coal, subbiturinifous coal, lightle, waste coal, and coal synfuel.

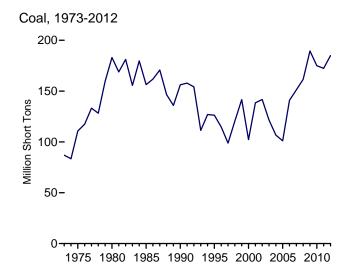
d Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, waste oil, and, beginning in 2011, propane.

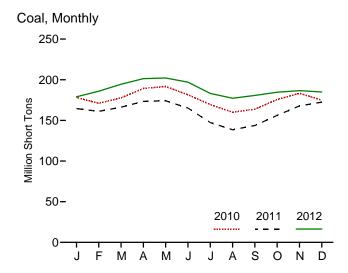
Natural gas, plus a small amount of supplemental gaseous fuels.

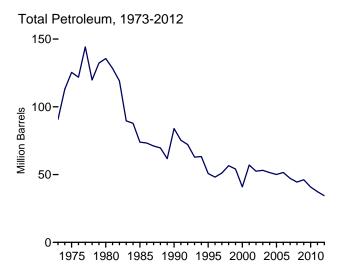
Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and the derived fuels).

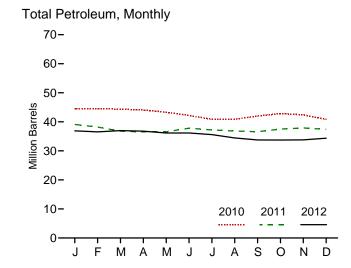
h Wood and wood-derived fuels.

Figure 7.5 Stocks of Coal and Petroleum: Electric Power Sector

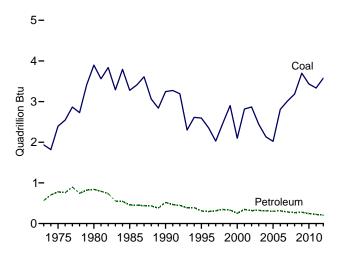




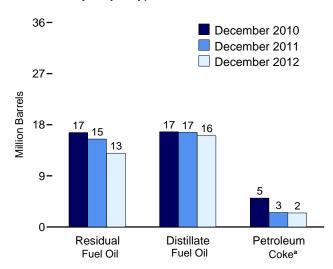




Coal and Petroleum Stocks, 1973-2012



Petroleum by Major Type, End of Month



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

Table 7.5 Stocks of Coal and Petroleum: Electric Power Sector

				Petroleum		
	Coal ^a	Distillate Fuel Oilb	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale
	Thousand Short Tons		Thousand Barrels		Thousand Short Tons	Thousand Barrel
973 Year	86,967	10,095	79,121	NA	312	90,776
975 Year	110,724	16,432	108,825	NA	31	125,413
980 Year	183,010	30,023	105,351	NA	52	135,635
985 Year	156,376	16,386	57,304	NA	49	73,933
990 Year	156,166	16,471	67,030	NA	94	83,970
95 Year		15,392	35,102	NA	65	50,821
996 Year	114,623	15,216	32,473	NA	91	48,146
997 Year	98,826	15,456	33,336	NA	469	51,138
998 Year	120,501	16,343	37,451	NA	559	56,591
999 Year ^f		17,995	34,256	NA	372	54,109
000 Year	102,296	15,127	24.748	NA	211	40.932
001 Year		20,486	34,594	NA	390	57,031
002 Year	141,714	17,413	25.723	800	1.711	52,490
003 Year	121,567	19,153	25,820	779	1,484	53,170
004 Year	106,669	19,275	26,596	879	937	51,434
005 Year		18,778	27,624	1.012	530	50,062
006 Year	140,964	18,013	28,823	1,380	674	51,583
007 Year	151,221	18,395	24,136	1,902	554	47,203
008 Year	161,589	17,761	21,088	1,955	739	44,498
009 Year		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	171,026	17,409	18.532	2,130	1,400	44.562
March	177,742	17,409	18,679	2,222	1,240	44,337
		17,333	18,353	2,103	1,243	44,090
April			17,935	2,226		
May		17,185			1,188	43,294
June		17,040	17,411	2,172	1,117	42,209
July	169,504	16,917	16,441	2,268	1,046	40,856
August	159,987	16,737	16,288	2,292	1,112	40,878
September	163,776	16,608	17,269	2,330	1,158	41,996
October	175,686	16,698	17,781	2,377	1,197	42,840
November	183,389	17,024	17,492	2,410	1,098	42,414
December	174,917	16,758	16,629	2,319	1,019	40,800
11 January	164,575	16,613	16,012	2,492	799	39,111
February		16,565	15,552	2,545	707	38,198
March	166,255	16,367	15,405	2,546	495	36,794
April	173,427	16,153	15,181	2,561	526	36,525
May	174,093	15,997	15,209	2,539	563	36,558
June		16,379	16,359	2,601	496	37,820
July		16,170	16,111	2,622	463	37,218
August	138,527	16,162	15,843	2,631	437	36,822
September	143.711	16,311	15.726	2,628	385	36,593
October	156,196	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
12 January	179.030	16,712	15,232	2.735	443	36.893
February	185,901	16,532	15,121	2,778	420	36,532
March	194,455	16,423	15,244	2,815	500	36,984
April		16,325	15,082	2,856	507	36,795
May	202,184	16,232	14.747	2,872	459	36,147
June	197.052	16,152	14,747	2,900	519	36,145
	183,119	16,581	13,728	2,941	474	35,617
July						
August		16,023	13,509	2,840	413	34,439
September	180,648	15,920	13,317	2,748	358	33,773
October	184,661	15,813	13,148	2,774	398	33,725
November	186,633	15,837	13,039	2,808	423	33,796
December	184,923	16,061	12,995	2,841	495	34,371

Anthracite, bituminous coal, subbituminous coal, and lignite.

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

are at end of period.

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

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

Columbia.

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

Sources: • 1973-September 1977: Federal Power Commission, Form FPC-4, "Monthly Power Plant Report." • October 1977-1981: Federal Energy Regulatory Commission, Form FPC-4, "Monthly Power Plant Report." • 1982-1988: U.S. Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." • 1989-1997: EIA, Form EIA-759, "Monthly Power Plant Report," • 1988-2000: EIA, 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-960, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report." • 2008 forward: EIA, Form EIA-923, "Power Plant Operations Report."

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

Georgia 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

<sup>Petroleum coke is converted from short tons to barrels by multiplying by 5.
Through 1998, data are for electric utilities only. Beginning in 1999, data are for electric utilities and independent power producers.

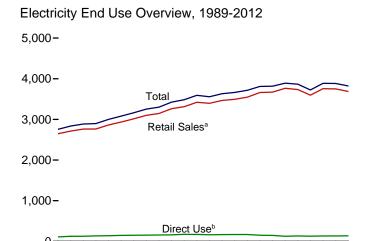
NA=Not available.</sup>

Figure 7.6 Electricity End Use (Billion Kilowatthours)

1995

Retail Sales^a Total, January-December

1990

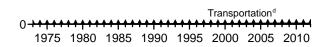


Retail Sales^a by Sector, 1973-2012 1,500 Residential Industrial

2000

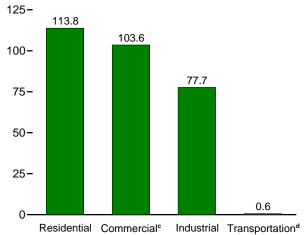
2005

2010

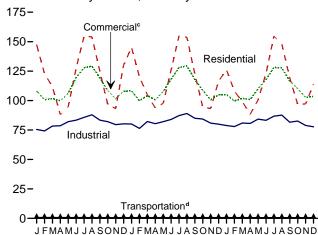


4,000 3,754 3,750 3,687 3,200 2,400 3,687 1,600 2010 2011 2012

Retail Sales^a by Sector, December 2012



Retail Sales^a by Sector, Monthly

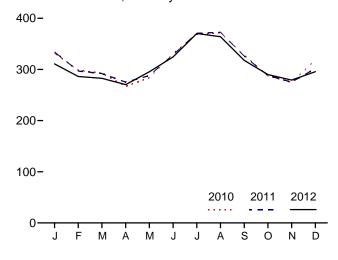


2011

2012

Retail Sales^a Total, Monthly

2010



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.

^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-

Table 7.6 Electricity End Use

(Million Kilowatthours)

			Retail Sales ^a					Discont Retail Sale	
	Residential	Commercialb	Industrialc	Transpor- tation ^d	Total Retail Sales ^e	Direct Use ^f	Total End Use ⁹	Commercial (Old) h	Other (Old) ⁱ
1973 Total	579,231	E 444,505	686,085	E 3,087	1,712,909	NA NA	1,712,909	388,266	59,326
1975 Total		E 468.296	687,680	^E 2,974	1,747,091	NA NA	1,747,091	403,049	68,222
1980 Total		558,643	815,067	3,244	2,094,449	NA NA	2,094,449	488,155	73,732
1985 Total	793,934	689,121	836,772	4,147	2,323,974	NA.	2,323,974	605,989	87,279
1990 Total	924,019	838,263	945,522	4,751	2,712,555	124,529	2,837,084	751,027	91,988
1995 Total	1,042,501	953,117	1,012,693	4,975	3,013,287	150,677	3,163,963	862,685	95,407
1996 Total	1,082,512	980,061	1,033,631	4,923	3,101,127	152,638	3,253,765	887,445	97,539
1997 Total	1,075,880	1,026,626	1,038,197	4,907	3,145,610	156,239	3,301,849	928,633	102,901
1998 Total	1,130,109	1,077,957	1,051,203	4,962	3,264,231	160,866	3,425,097	979,401	103,518
1999 Total	1,144,923	1,103,821	1,058,217	5,126	3,312,087	171,629	3,483,716	1,001,996	106,952
2000 Total		1,159,347	1,064,239	5,382	3,421,414	170,943	3,592,357	1,055,232	109,496
2001 Total		1,190,518	996,609	5,724	3,394,458	162,649	3,557,107	1,083,069	113,174
2002 Total	1,265,180	1,204,531	990,238	5,517	3,465,466	166,184	3,631,650	1,104,497	105,552
2003 Total	1,275,824	1,198,728	1,012,373	6,810	3,493,734	168,295	3,662,029		
2004 Total	1,291,982	1,230,425	1,017,850	7,224	3,547,479	168,470	3,715,949		
2005 Total	1,359,227	1,275,079	1,019,156	7,506	3,660,969	150,016	3,810,984		
2006 Total	1,351,520	1,299,744	1,011,298	7,358	3,669,919	146,927	3,816,845		
2007 Total		1,336,315	1,027,832	8,173	3,764,561	125,670	3,890,231		
2008 Total		1,335,981	1,009,300	7,700	3,732,962	132,197	3,865,159		
2009 Total	1,364,474	1,307,168	917,442	7,781	3,596,865	126,938	3,723,803		
2010 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		99,791	78,597	600	267,034	E 10,091	277,125		
May		106,176	82,088	606	283,712	E 10,611	294,323		
June		119,388	83,347	658	330,889	E 11,037	341,927		
July		127,925	85,725	667	369,006	E 11,690	380,696		
August		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 E 10,605	338,932		
October	96,688	108,461	82,046	615 607	287,811	E 10,605	298,416		
November December	93,166 130,015	101,524 108,031	79,575 80,264	633	274,871 318,943	E 11,725	285,392 330,668		
Total	1,445,708	1,330,199	970,873	7,712	3,754,493	131,910	3,886,403		
	445.054	100.040	00.077	740		E44.045	245 220		
2011 January		108,243	80,077 76,332	710 637	334,084 296,879	E 11,245 E 10,042	345,329 306,922		
February	104,921	99,789 104,263	82,196	664	290,079	E 10,398	302,442	==	
March April	93,700	104,203	80,356	629	275,190	E 10,380	285,570		
May	97,688	107,624	82,095	619	288,026	E 10,681	298,707		
June	125,983	118,169	83.941	643	328,736	E 11.181	339.917		
July	154,729	128,063	87,245	650	370,686	E 12,136	382,822		
August	153,739	129,371	89,014	625	372,749	E 12,292	385,041		
September		117,951	84,959	634	326,263	E 11,199	337,462		
October		108,655	84,287	616	288,144	E 10,504	298,647		
November		100,552	80,858	590	275,220	E 10,888	286,108		
December		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		
2012 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		101,930	80,911	619	282,613	E 10.750	293,363		
April		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		
November	97,174	102,546	78,877	580	279,178	E 11,389	290,567		
December		103,551	77,698	632	295,673	E 12,103	307,775		
Total	1,374,594	1,323,844	980,837	7,504	3,686,780	E 136,099	3,822,878	l	

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

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

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

^d Transportation sector, including sales to railreade and articles.

In 2003, includes agriculture and irrigation.

d Transportation sector, including sales to railroads and railways.
e The sum of "Residential," "Commercial," "Industrial," and "Transportation."
f Use of electricity that is 1) self-generated, 2) produced by either the same entity that consumes the power or an affiliate, and 3) used in direct support of a service or industrial process located within the same facility or group of facilities that house the generating equipment. Direct use is exclusive of station use.

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

h "Commercial (Old)" is a discontinued series—data are for the commercial

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

i "Other (Old)" is a discontinued series—data are for public street and highway lighting, interdepartmental sales, other sales to public authorities, agriculture and 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, and service) by Canada from the United States.

Imports and Exports, Electricity Trade with Mexico, 1990 Forward

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

T&D Losses and Unaccounted for

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

End Use

Table 7.6.

Table 7.2b Sources

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

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

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

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

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

2001–2003: EIA, Form EIA-906, "Power Plant Report." 2004–2007: EIA, Form EIA-906, "Power Plant Report," and Form EIA-920, "Combined Heat and Power Plant Report."

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

Table 7.2c Sources

Industrial Sector, Hydroelectric Power, 1973-1988

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

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

1979: FERC, Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and U.S. Energy Information Administration (EIA) estimates for all other plants.

1980–1988: Estimated by EIA as the average generation over the 6-year period of 1974–1979.

All Data, 1989 Forward

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

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

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

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

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

Table 7.3b Sources

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

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

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

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

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

2001–2003: EIA, Form EIA-906, "Power Plant Report." 2004–2007: EIA, Form EIA-906, "Power Plant Report,"

and Form EIA-920, "Combined Heat and Power Plant Report," 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*, February 2013, 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*, February 2013, 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/state/seds/sep_use/notes/use_elec.pdf. 2003 forward: EIA, *Electric Power Monthly*, February 2013, Table 5.1.

Direct Use, Annual

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

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

2001–2011: EIA, *Electric Power Annual 2011*, January 2013, Table 2.2.

2012: Sum of monthly estimates.

Direct Use, Monthly

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

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

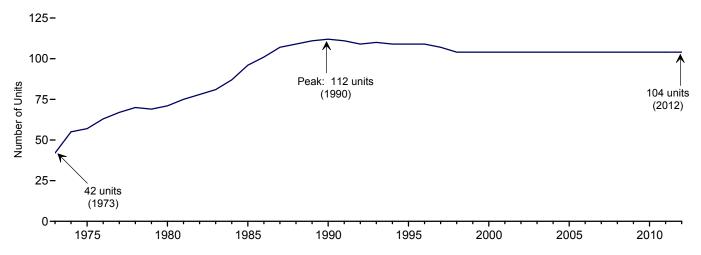
1973–2002: See sources for "Residential" and "Industrial."

THIS PAGE INTENTIONALLY LEFT BLANK

8. Nuclear Energy

Figure 8.1 Nuclear Energy Overview

Operable Units, End of Year, 1973-2012



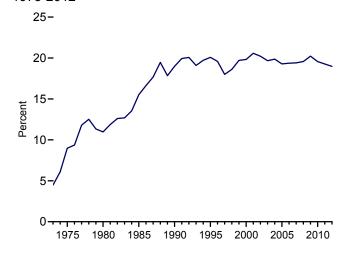
Electricity Net Generation, 1973-2012

5
4
Total

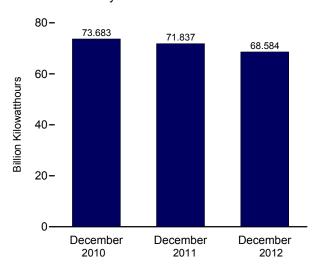
2
1
Nuclear Electric Power

1975 1980 1985 1990 1995 2000 2005 2010

Nuclear Share of Electricity Net Generation, 1973-2012



Nuclear Electricity Net Generation



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

Capacity Factor, Monthly

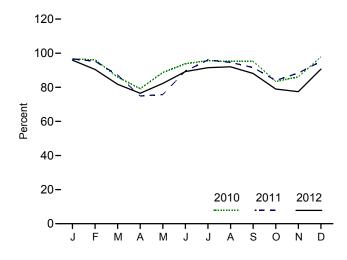


Table 8.1 Nuclear Energy Overview

	Total Operable Units ^{a,b}	Net Summer Capacity of Operable Units ^{b,c}	Nuclear Electricity Net Generation	Nuclear Share of Electricity Net Generation	Capacity Factor
	Number	Million Kilowatts	Million Kilowatthours	Pe	rcent
973 Total	42	22.683	83,479	4.5	53.5
	57	37.267		9.0	55.9
75 Total			172,505		
80 Total	71	51.810	251,116	11.0	56.3
85 Total	96	79.397	383,691	15.5	58.0
90 Total	112	99.624	576,862	19.0	66.0
95 Total	109	99.515	673.402	20.1	77.4
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
90 T-1-1	104			19.7	85.3
99 Total		97.411	728,254		
000 Total	104	97.860	753,893	19.8	88.1
01 Total	104	98.159	768,826	20.6	89.4
002 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
006 Total	104	100.334	787,219	19.4	89.6
	104		806,425	19.4	91.8
007 Total		100.266			
08 Total	104	100.755	806,208	19.6	91.1
09 Total	104	101.004	798,855	20.2	90.3
10 January	104	e E 101.002	72,569	20.1	E 96.6
February	104	E 101.000	65,245	20.4	E 96.1
March	104	E 100.998	64,635	20.7	E 86.0
April	104	E 100.996	57,611	20.0	^E 79.2
May	104	E 101.063	66,658	20.3	E 88.7
June	104	E 101.094	68,301	18.2	E 93.8
July	104	E 101.092	71,913	17.6	E 95.6
August	104	E 101.090	71,574	17.5	E 95.2
September	104	E 101.088	69.371	20.0	E 95.3
	104	E 101.104	62.751	20.4	E 83.4
October					
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
111 January	104	E 101.167	72,743	20.0	<u> </u>
February	104	<u> </u>	64,789	20.7	^E 95.3
March	104	E 101.167	65,662	20.6	E 87.2
April	104	E 101.167	54,547	18.0	E 74.9
May	104	E 101.167	57.013	17.6	E 75.7
June	104	E 101.281	65,270	17.7	E 89.5
July	104	E 101.281	72,345	17.3	E 96.0
August	104	E 101.351	71,339	17.5	E 94.6
	104	E 101.351		19.8	= 94.6 E 91.6
September		- 101.331 F404.354	66,849		
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 Total	104 104	101.419 101.419	71,837 790,204	21.4 19.3	95.2 89.1
			,		
112 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					E 79.0
October	104	E 101.673	59,743	19.1	
November	104	E 101.702	56,713	18.6	E 77.4
December	104	E 101.702	68,584	20.5	<u> </u>
Total	104	^E 101.702	769,331	19.0	^E 86.2

^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 For the definition of "Net Summer Capacity," see Note 2, "Nuclear Capacity," at end of section.

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≡Esurnate.

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.

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

Sources: See end of section.

at end of section.

^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

Nuclear Energy

- **Note 1. Operable Nuclear Reactors.** A reactor is generally defined as operable while it possessed a full-power license from the Nuclear Regulatory Commission or its predecessor the Atomic Energy Commission, or equivalent permission to operate, at the end of the year or month shown. The definition is liberal in that it does not exclude units retaining full-power licenses during long, non-routine shutdowns that for a time rendered them unable to generate electricity. Examples are:
- (a) In 1985 the five then-active Tennessee Valley Authority (TVA) units (Browns Ferry 1, 2, and 3, and Sequoyah 1 and 2) were shut down under a regulatory forced outage. All five units were idle for several years, restarting in 2007, 1991, 1995, 1988, and 1988, respectively and were counted as operable during the shutdowns.
- (b) Shippingport was shut down from 1974 through 1976 for conversion to a light-water breeder reactor, but is counted as operable from 1957 until its retirement in 1982.
- (c) Calvert Cliffs 2 was shut down in 1989 and 1990 for replacement of pressurizer heater sleeves but is counted as operable during those years.

Exceptions to the definition are Shoreham and Three Mile Island 2. Shoreham was granted a full-power license in April 1989, but was shut down two months later and never restarted. In 1991, the license was changed to Possession Only. Although not operable at the end of the year, Shoreham is counted as operable during 1989. A major accident closed Three Mile Island 2 in 1979, and although the unit retained its full-power license for several years, it is considered permanently shut down since that year.

- **Note 2. Nuclear Capacity.** Nuclear generating units may have more than one type of net capacity rating, including the following:
- (a) Net Summer Capacity—The steady hourly output that generating equipment is expected to supply to system load, exclusive of auxiliary power, as demonstrated by test at the

time of summer peak demand. Auxiliary power of a typical nuclear power plant is about 5 percent of gross generation.

(b) Net Design Capacity or Net Design Electrical Rating (DER)—The nominal net electrical output of a unit, specified by the utility and used for plant design.

The monthly capacity factors are calculated as the monthly nuclear electricity net generation divided by the maximum possible nuclear electricity net generation for that month. The maximum possible nuclear electricity net generation is the number of hours in the month (assuming 24-hour days, with no adjustment for changes to or from Daylight Savings Time) multiplied by the net summer capacity of operable nuclear generating units at the end of the month. That fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are calculated as the annual nuclear electricity net generation divided by the annual maximum possible nuclear electricity net generation (the sum of the monthly values for maximum possible nuclear electricity net generation).

Table 8.1 Sources

Total Operable Units and Net Summer Capacity of Operable Units

1973–1982: Compiled from various sources, primarily U.S. Department of Energy, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones."

1983 forward: U.S. Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," Form EIA-860M, "Monthly Update to the Annual Electric Generator Report," and monthly updates as appropriate. For a list of currently operable units, see http://www.eia.gov/nuclear/reactors/stats_table1.html.

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation

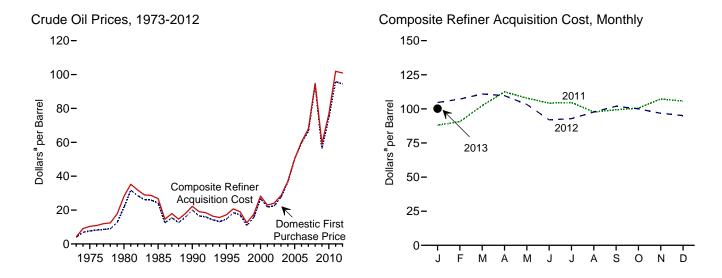
See Table 7.2a.

Capacity Factor

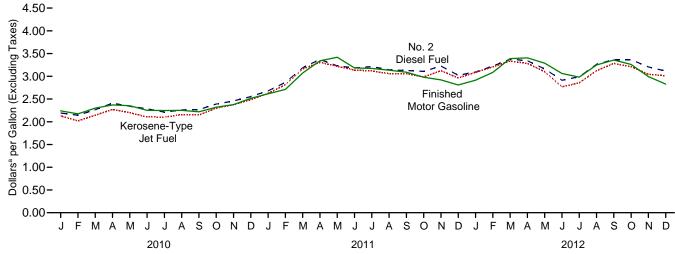
Calculated by EIA using the method described above in Note 2.

9. Energy Prices

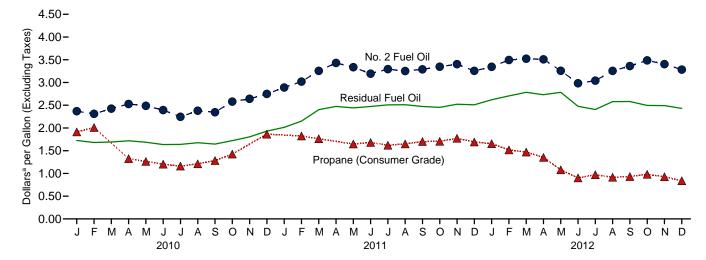
Figure 9.1 Petroleum Prices



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



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



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

Table 9.1 Crude Oil Price Summary

(Dollars^a per Barrel)

				R	efiner Acquisition Co	st ^b
	Domestic First Purchase Price ^c	F.O.B. Cost of Imports ^d	Landed Cost of Imports ^e	Domestic	Imported	Composite
973 Average	3.89	^f 5.21	^f 6.41	^E 4.17	^E 4.08	^E 4.15
975 Average	7.67	11.18	12.70	8.39	13.93	10.38
980 Average	21.59	32.37	33.67	24.23	33.89	28.07
985 Average	24.09	25.84	26.67	26.66	26.99	26.75
990 Average	20.03	20.37	21.13	22.59	21.76	22.22
95 Average	14.62	15.69	16.78	17.33	17.14	17.23
96 Average	18.46	19.32	20.31	20.77	20.64	20.71
97 Average	17.23	16.94	18.11	19.61	18.53	19.04
98 Average	10.87	10.76	11.84	13.18	12.04	12.52
99 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
01 Average	21.84	20.46	21.82	24.33	22.00	22.95
02 Average	22.51	22.63	23.91	24.65	23.71	24.10
03 Average	27.56	25.86	27.69	29.82	27.71	28.53
04 Average	36.77	33.75	36.07	38.97	35.90	36.98
05 Average	50.28	47.60	49.29	52.94	48.86	50.24
06 Average	59.69	57.03	59.11	62.62	59.02	60.24
07 Average	66.52	66.36	67.97	69.65	67.04	67.94
08 Average	94.04	90.32	93.33	98.47	92.77	94.74
09 Average	56.35	57.78	60.23	59.49	59.17	59.29
10 January	^R 72.87	72.96	R 74.84	76.04	75.07	75.48
February	72.74	^R 71.49	^R 75.07	75.91	73.73	74.58
March	75.77	75.41	77.65	78.52	76.77	77.43
April	78.80	78.27	R 79.32	82.12	80.03	80.83
May	^R 70.91	69.21	^R 72.03	75.23	71.15	72.66
June	70.77	^R 70.16	^R 72.63	R 73.92	71.91	72.66
July	71.37	^R 70.99	^R 73.50	R 74.52	R 73.27	73.73
August	72.07	71.27	^R 73.68	76.21	R 73.52	74.58
September	71.23	71.72	^R 74.18	^R 74.98	^R 73.15	73.85
October	76.02	75.52	R 77.27	^R 79.04	^R 76.90	R 77.76
November	79.20	^R 79.55	81.56	^R 82.31	^R 79.92	80.85
December	83.98	83.95	R 86.67	86.48	85.59	85.95
Average	74.71	^R 74.19	R 76.50	^R 78.01	R 75.86	76.69
11 January	85.66	R 86.81	R 89.47	R 88.70	R 87.61	R 88.04
February	86.69	R 92.20	R 94.28	89.50	R 91.42	R 90.66
March	99.19	R 104.17	R 104.73	R 102.41	R 102.43	102.43
April	108.80	111.52	R 112.43	R 111.70	R 113.02	R 112.51
May	102.46	R 105.81	R 108.18	R 107.63	R 107.98	R 107.84
June	97.30	R 104.33	R 105.18	R 102.51	R 105.38	104.23
July	97.82	R 105.59	R 106.22	102.67	105.94	104.68
August	89.00	97.72	R 99.30	R 95.90	R 99.00	97.70
September	90.22	R 100.82	101.03	96.89	101.05	99.39
October	92.28	R 101.91	102.55	98.34	R 101.99	100.57
November	100.18	105.79	R 106.00	106.69	107.67	107.28
December	98.71	103.09	105.62	104.51	106.52	105.69
Average	95.73	^R 101.66	^R 102.92	^R 100.71	R 102.63	R 101.87
12 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	99.63	98.70	98.58	97.07	97.71
September	95.98	101.08	101.31	102.17	101.82	101.97
October	92.25	R 97.75	R 99.18	99.07	100.92	100.02
November	89.65	R 92.23	R 95.62	R 95.28	R 98.07	R 96.78
December	R 89.83	R 93.86	R 92.83	R 96.56	R 93.70	R 95.06
Average	94.53	99.96	100.94	100.74	101.09	100.94
13 January	NA	NA	NA	E 102.13	E 98.83	E 100.16

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

b See Note 1, "Crude Oil Refinery Acquisition Costs," at end of section.

c See Note 2, "Crude Oil Domestic First Purchase Prices," at end of section.

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

e See Note 4, "Crude Oil Landed Costs," at end of section.

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

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

Notes: • Values for Domestic First Purchase Price and Refiner Acquisition Cost or the current two months and for F.O.B. and Landed Costs of Imports for the for the current two months and for F.O.B. and Landed Costs of Imports for the

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

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

Sources: See end of section.

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

(Dollarsa per Barrel)

			S	elected Count	ries			Persian		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC ^c
1973 Averaged	w	w	_	7.81	3.25	_	5.39	3.68	5.43	4.80
1975 Average	10.97	-	11.44	11.82	10.87	_	11.04	10.88	11.34	10.62
1980 Average		W	31.06	35.93	28.17	34.36	24.81	28.92	32.21	32.85
1985 Average	26.30	-	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
1990 Average		20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
1995 Average	16.58	16.73	15.64	17.40	W	16.94	13.86	W	15.36	16.02
1996 Average		21.33	19.14	21.27	19.28	19.43	17.73	19.22	18.94	19.65
1997 Average		18.85	16.72	19.43	15.16	18.59	15.33	15.24	16.26	17.51
1998 Average		12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
1999 Average	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
2000 Average	27.90	29.04	25.39	28.70	24.62	27.21	24.45	24.72	25.56	26.77
2001 Average		24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
2002 Average		24.64	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
2003 Average	28.22	28.89	24.83	29.40	25.03	28.76	23.81	25.17	25.36	26.21
2004 Average		37.73	31.55	38.71	34.08	37.30	31.78	33.08	33.95	33.58
2005 Average		51.89 50.77	43.00	55.95	47.96	54.48	46.39	47.21 56.02	49.60	45.79
2006 Average		59.77 67.93	52.91	65.69	56.09 W	66.03 69.96	55.80 64.10	56.02 69.93	59.18 69.58	55.35 62.69
2007 Average		91.17	61.35 84.61	76.64 102.06	93.03	96.33	88.06	91.44	93.15	87.15
2008 Average 2009 Average		57.90	56.47	64.61	57.87	65.63	55.58	59.53	58.53	57.16
2010 January	74.62	70.08	72.96	75.91	W	_	70.86	W	73.42	72.49
February		68.70	69.16	76.07	w	_	68.83	R 71.86	R 71.76	71.14
March		73.90	72.76	81.27	W	_	70.88	76.10	75.83	74.91
April		74.85	75.57	85.94	W	W	72.59	R 79.98	78.88	77.73
May		64.32	68.30	74.28	W		66.37	73.60	70.45	68.24
June		67.19	67.64	75.61	W	_	66.19	72.49	71.39	R 69.19
July		70.00	68.53	79.63	W	_	67.25	71.76	72.16	R 69.84
August		69.88	69.53	75.70	W	W	68.27	72.79	72.38	70.35
September		69.71	69.90	80.93	74.06	_	67.59	73.34	73.24	R 70.25
October		76.06	73.93	84.59	W	_	72.10	78.28	77.55	73.80
November		78.92	77.14	86.61	W	_	75.03	80.99	80.95	^R 78.48
December	. W	81.62	81.75	93.68	W	_	77.78	W	85.72	82.40
Average		72.56	72.46	80.83	76.44	W	70.30	75.65	75.23	73.24
2011 January	95.97	83.36	R 84.45	99.86	W	-	81.25	W	89.74	R 83.96
February		R 88.55	88.77	109.07	W	_	85.11	97.25	96.01	R 88.99
March		101.29	102.55	117.98	W	_	97.56	107.36	106.19	R 102.41
April	122.52	114.17	109.90	126.05	W	_	106.56	114.82	115.15	107.71
May		106.15	105.13	117.66	W	_	101.60	R 110.02	R 108.43	R 103.64
June		102.78 100.30	103.43	119.13	W	_	100.59	106.39	108.22	R 100.37
July			104.84 98.21	119.68	W	_	100.62	109.06 106.98	110.09	R 100.88
August		95.01 97.45	100.28	115.61 115.43	109.99	_	97.17 95.72	108.41	104.19 105.82	93.57 ^R 97.06
September October	109.74	102.37	100.28	114.46	W	_	96.93	105.62	105.62	R 98.64
November	112.49	106.97	107.94	115.35	w	_	105.44	106.51	103.20	104.17
December	111.26	103.10	105.96	W	w	_	105.75	104.48	106.42	100.80
Average		R 100.21	R 100.90	115.35	107.08	_	97.23	R 106.47	105.34	R 98.49
2012 January	111.10	106.69	107.79	114.12	W	_	105.08	107.51	107.51	101.40
February		114.47	110.14	124.31	W	_	110.37	111.12	113.85	103.42
March		118.46	114.81	128.10	W	_	112.76	118.06	117.06	104.75
April	118.84	114.06	110.54	W	W	_	109.33	115.02	113.85	101.42
May		101.27	103.12	110.79	W	_	101.45	105.16	105.28	96.74
June		91.81	90.60	98.96	91.90	_	87.64	90.55	90.63	85.28
July	. W	96.83	95.03	103.86	W	_	93.81	95.47	96.30	88.45
August	. W	106.16	101.12	114.62	W	_	99.94	104.87	104.18	95.13
September	112.75	108.59	102.49	111.74	107.14	_	101.00	105.58	105.05	97.60
October	. W	105.77	98.98	W	W	_	98.10	R 102.70	R _{101.29}	R 95.05
November		R 103.75	^R 93.45	_	W	_	^R 93.15	101.91	^R 95.94	R 89.93
December		101.24	94.20	W	W	_	93.39	102.93	98.39	89.20
Average		106.43	101.86	114.54	106.63	_	100.25	105.44	104.44	95.97

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

Web Page: See http://www.eia.gov/totalenergy/

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

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 ^c See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary.
 On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973–2008, also includes Indonesia; for 1973–1992 and again beginning in 2008, also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974–1995, also includes Gabon (although Gabon was a member of OPEC for only 1975–1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC."

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

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

individual company data.

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollarsa per Barrel)

				Selected	Countries						
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^b	Total OPEC ^c	Total Non-OPEC ^c
1973 Averaged 1975 Average 1980 Average 1985 Average 1990 Average 1995 Average 1997 Average 1997 Average 1998 Average 2000 Average 2001 Average 2001 Average 2003 Average 2004 Average 2005 Average 2005 Average 2006 Average 2007 Average 2007 Average 2007 Average 2007 Average 2008 Average 2008 Average 2009 Average 2008 Average 2008 Average 2008 Average 2008 Average	W 11.81 34.76 27.39 21.51 17.66 21.86 20.24 13.37 29.57 25.13 30.14 39.62 54.31 64.85 71.27 98.18 61.32	5.33 12.84 30.11 20.48 16.65 19.94 17.63 11.62 17.54 26.69 20.72 22.98 26.76 34.51 44.73 53.90 60.38 90.00 57.60	W - W - 22.34 17.45 22.02 19.71 13.26 18.09 29.68 25.88 25.28 30.55 39.03 53.42 62.13 70.91 93.43 58.50	12.61 31.77 25.63 19.64 16.19 19.64 17.30 11.04 16.12 26.03 19.37 22.09 25.48 32.25 43.47 53.76 62.31 85.97 57.35	9.08 12.70 37.15 28.96 23.33 18.25 21.95 20.64 14.14 17.63 30.04 26.55 26.45 31.07 40.95 57.55 68.26 78.01 104.83 68.01	5.37 12.50 29.80 24.72 21.82 16.84 20.49 17.52 11.16 17.48 26.58 20.98 24.77 27.50 37.11 50.31 59.19 70.78 94.75 62.14	- 35.68 28.36 22.65 17.91 20.88 20.64 13.55 18.26 29.26 25.32 26.35 30.62 39.28 67.44 72.47 96.95 63.87	5.99 12.36 25.92 24.43 20.31 14.81 18.59 16.35 10.16 15.58 26.05 19.81 21.93 25.70 33.79 47.87 57.37 66.13 90.76 57.78	5.91 12.64 30.59 25.50 20.55 16.78 20.45 17.44 11.18 17.37 26.77 20.73 24.13 27.54 36.53 49.68 58.92 69.83 93.59 62.15	6.85 12.70 33.56 26.86 21.23 16.61 20.14 17.73 11.46 16.94 27.29 21.52 23.83 27.70 36.84 51.36 61.21 71.14 95.49 61.90	5.64 12.70 33.99 26.53 20.98 16.95 20.47 18.45 12.22 17.51 27.80 22.17 23.97 27.68 35.29 47.31 57.14 63.96 90.59 58.58
Petron January February March April May June July August September October November December Average	R 77.57 R 79.11 R 80.82 R 81.79 R 75.28 76.54 R 77.43 78.40 80.49 85.33 86.98 91.77 R 80.61	72.59 73.37 76.82 78.36 69.16 R 69.17 R 70.41 R 68.62 69.23 R 75.39 80.76 72.80	74.26 73.11 76.08 76.33 66.52 69.64 71.61 71.49 70.85 76.72 80.24 82.76 74.25	73.23 69.48 73.07 75.03 68.71 68.02 69.31 69.95 70.47 74.73 77.55 82.37 72.86	R 78.62 79.25 83.68 R 86.65 76.90 78.14 81.07 79.15 81.58 86.01 89.15 95.44 R 83.14	76.63 R 77.32 77.57 R 79.52 76.01 R 75.49 R 76.12 77.15 81.81 84.62 R 90.61 R 79.29	R 80.49 77.84 79.07 R 80.54 W 77.67 76.60 79.52 W W 87.10 92.50 R 80.29	72.63 70.91 72.92 75.21 68.53 68.30 69.59 70.14 68.88 74.29 77.53 80.79 72.43	76.34 R 77.39 77.55 R 79.11 R 76.13 75.14 R 74.77 R 75.91 76.64 R 81.25 84.09 R 90.13 R 78.60	R 75.94 R 76.32 78.40 R 80.00 R 73.98 74.55 R 74.84 R 75.46 76.39 80.52 84.38 R 89.30 R 78.28	R 73.67 R 73.34 76.84 R 78.63 70.20 R 70.95 R 72.14 R 71.80 74.15 R 78.95 83.97 R 74.68
Petron January February March April May June July August September October November December Average	114.40 R 123.35 116.76 116.73 R 117.77 113.36 112.63 114.82 115.14 115.65	R 81.96 R 80.54 R 89.39 R 99.13 R 98.12 R 92.33 R 91.75 84.05 R 85.21 R 88.20 93.80 93.74 R 89.92	85.88 R 90.93 R 105.84 112.47 109.70 104.31 101.35 95.08 99.17 104.14 108.52 106.64 R 102.57	R 85.07 89.08 103.03 110.55 105.62 103.71 105.38 98.78 99.90 101.97 108.46 106.31	101.24 R 109.61 117.17 126.47 119.95 120.81 121.80 115.83 117.19 116.09 117.05	96.59 103.20 R 110.22 116.13 112.19 110.00 R 109.45 109.91 108.90 108.61 108.27	W W W 118.42 R 124.38 W W W W W W W W W W W W W W W W W W W	84.70 89.88 101.22 107.95 104.04 102.32 103.04 99.54 99.10 99.89 106.90 108.02 100.14	R 96.41 101.81 R 109.64 F 115.07 R 111.10 108.97 110.19 R 108.32 108.82 R 108.00 R 108.39 107.53 R 108.01	R 94.00 R 100.19 R 109.26 R 116.57 R 111.75 109.87 R 101.61 R 106.27 107.67 R 107.95 R 110.10 109.63	R 85.07 R 89.00 R 101.11 R 108.80 R 104.97 R 100.82 R 100.37 R 93.83 95.59 R 97.93 R 102.91 102.52 R 98.64
Petron July September October November Average Mareaus Mount of the september Average September Average September Average September Average September Average September September Average September	121.40 128.35 120.60 114.94 103.10 106.95 113.27 116.51 R 114.90 R 111.51 W	93.43 92.14 88.73 85.55 82.78 78.11 75.62 80.68 85.47 R 86.34 R 83.29 76.33 84.31	110.54 115.19 119.93 113.78 105.04 93.85 97.70 105.94 109.19 106.48 R 104.75 100.78 107.02	108.38 111.24 115.20 111.55 103.79 90.89 95.24 101.98 103.16 R 99.09 R 94.32 95.02 102.48	115.41 126.42 130.46 124.06 113.89 103.24 106.95 114.51 114.95 R 117.03 113.09 114.08 117.02	110.49 114.73 117.55 115.65 108.39 99.38 99.00 104.74 107.06 R 106.07 R 105.48 105.65 108.15	W W - W - W - W	106.23 111.72 114.29 110.58 103.02 89.41 94.91 101.38 102.97 99.31 R 94.67 94.53 101.68	110.61 114.22 117.14 115.98 108.52 99.24 99.02 104.40 106.26 R 105.73 R 104.67 104.55 107.78	110.32 115.76 118.26 116.21 108.26 97.29 99.48 105.29 107.02 R 105.79 R 101.55 101.47 107.56	101.31 103.02 103.98 99.94 95.20 87.15 88.10 92.29 95.82 R 93.77 R 91.46 85.89 95.10

Costs," at end of section. • Values for the current two months are preliminary.
• Prices through 1980 reflect the period of reporting; prices since then reflect the period of loading. • Annual averages are averages of the monthly prices, including prices not published, weighted by volume. • Cargoes that are purchased on a "netback" basis, or under similar contractual arrangements whereby the actual purchase price is not established at the time the crude oil is acquired for importation into the United States, are not included in the published data until the actual prices have been determined and reported a 12.5 geographic coverage is the 50 States 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, March 2013, Table 22.

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 ^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).
 ^c See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On this table, "Total OPEC" for all years includes Algeria, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela; for 1973–2008, also includes Indonesia; for 1973–1992 and again beginning in 2008, also includes Ecuador (although Ecuador rejoined OPEC in November 2007, on this table Ecuador is included in "Total Non-OPEC" for 2007); for 1974–1995, also includes Gabon (although Gabon was a member of OPEC for only 1975–1994); and beginning in 2007, also includes Angola. Data for all countries not included in "Total OPEC" are included in "Total Non-OPEC."
 ^d Based on October, November, and December data only.
 R=Revised. — =No data reported. W=Value withheld to avoid disclosure of individual company data.
 Notes: • See "Landed Costs" in Glossary, and Note 4, "Crude Oil Landed

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

(Dollars^a per Gallon, Including Taxes)

	Leaded Regular	Unleaded Regular	Unleaded Premium ^b	All Types ^c
973 Average	0.388	NA	NA	NA
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 NA	1.234	1.416	1.291
	NA 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
05 Average	NA	2.295	2.491	2.338
	NA NA	2.589	2.805	2.635
06 Average				
007 Average	NA	2.801	3.033	2.849
008 Average	NA	3.266	3.519	3.317
009 Average	NA	2.350	2.607	2.401
010 January	NA	2.731	2.987	2.779
February	NA	2.659	2.922	2.709
March	NA	2.780	3.035	2.829
	NA NA	2.858		2.906
April			3.113	
May	NA	2.869	3.124	2.915
June	NA	2.736	3.000	2.783
July	NA	2.736	2.997	2.783
August	NA	2.745	3.015	2.795
September	NA	2.704	2.968	2.754
October	NA	2.795	3.055	2.843
November	NA	2.852	3.109	2.899
December Average	NA NA	2.985 2.788	3.234 3.047	3.031 2.836
Average	NA.	2.700	3.047	2.000
111 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 NA	3.630	3.893	3.680
	NA NA	3.612	3.887	3.664
September				
October	NA	3.468	3.745	3.521
November	NA	3.423	3.700	3.475
December	NA	3.278	3.553	3.329
Average	NA	3.527	3.792	3.577
012 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 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
	NA NA	3.488	3.782	3.542
November				
December	NA	3.331	3.626	3.386
Average	NA	3.644	3.922	3.695
			0.040	0.407
113 January	NA	3.351	3.646	3.407

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

NA=Not available.

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.

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.

Geographic coverage for 1978 forward is 85 urban areas.

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

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

Table 9.5 Refiner Prices of Residual Fuel Oil

(Dollars^a per Gallon, Excluding Taxes)

	Sulfur Co	Il Fuel Oil ntent Less al to 1 Percent	Sulfur	al Fuel Oil Content an 1 Percent	Average		
	Sales for	Sales to	Sales for	Sales to	Sales for	Sales to	
	Resale	End Users	Resale	End Users	Resale	End Users	
978 Average	0.293	0.314	0.245	0.275	0.263	0.298	
80 Average	0.608	0.675	0.479	0.523	0.528	0.607	
85 Average	0.610	0.644	0.560	0.582	0.577	0.610	
90 Average	0.472	0.505	0.372	0.400	0.413	0.444	
95 Average	0.383	0.436	0.338	0.377	0.363	0.392	
96 Average	0.456	0.526	0.389	0.433	0.420	0.455	
	0.415						
97 Average		0.488	0.366	0.403	0.387	0.423	
98 Average	0.299	0.354	0.269	0.287	0.280	0.305	
99 Average	0.382	0.405	0.329	0.362	0.354	0.374	
00 Average	0.627	0.708	0.512	0.566	0.566	0.602	
01 Average	0.523	0.642	0.428	0.492	0.476	0.531	
02 Average	0.546	0.640	0.508	0.544	0.530	0.569	
03 Average	0.728	0.804	0.588	0.651	0.661	0.698	
04 Average	0.764	0.835	0.601	0.692	0.681	0.739	
05 Average	1.115	1.168	0.842	0.974	0.971	1.048	
06 Average	1.202	1.342	1.085	1.173	1.136	1.218	
007 Average	1.406	1.436	1.314	1.350	1.350	1.374	
08 Average	1.918	2.144	1.843	1.889	1.866	1.964	
09 Average	1.337	1.413	1.344	1.306	1.342	1.341	
10 January	1.767	1.852	1.705	1.660	1.721	1.725	
February	1.725	1.862	1.650	1.574	1.666	1.681	
March	1.739	1.862	1.700	1.609	1.711	1.692	
April	1.827	1.887	1.725	1.655	1.748	1.718	
May	1.675	1.898	1.675	1.601	1.675	1.686	
June	1.629	1.874	1.604	1.555	1.612	1.636	
July	1.686	1.858	1.604	1.536	1.629	1.639	
August	1.705	1.895	1.625	1.571	1.642	1.676	
	1.716	1.883	1.612	1.558	1.632	1.645	
September							
October	1.793	1.913	1.688	1.637	1.712	1.721	
November	1.865	2.025	1.741	1.701	1.768	1.804	
December	2.036	2.215	1.814	1.784	1.865	1.931	
Average	1.756	1.920	1.679	1.619	1.697	1.713	
11 January	NA	2.302	1.896	1.870	1.918	2.013	
February	2.100	2.451	2.079	2.019	2.086	2.150	
March	2.344	2.654	2.307	2.245	2.321	2.403	
April	2.555	2.741	2.427	2.370	2.448	2.475	
May	2.463	2.786	2.374	2.325	2.392	2.440	
June	2.467	2.905	2.377	2.312	2.402	2.473	
July	2.547	2.877	2.430	2.362	2.474	2.508	
	2.394	2.896	2.392	2.342	2.392	2.512	
August							
September	2.368	2.882	2.370	2.318	2.369	2.473	
October	2.512	2.891	2.375	2.276	2.406	2.454	
November	2.566	2.853	2.424	2.368	2.459	2.521	
December	2.473	2.891	2.335	2.348	2.371	2.509	
Average	2.389	2.736	2.316	2.257	2.336	2.401	
12 January	2.591	2.965	2.480	2.452	2.512	2.620	
February	2.739	3.070	2.632	2.556	2.654	2.705	
March	2.921	3.159	2.717	2.601	2.772	2.784	
April	2.805	3.201	2.624	2.596	2.670	2.731	
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	
November	2.385	2.895	R 2.283	2.346	R 2.300	2.492	

 ^a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
 R=Revised. NA=Not available.
 Notes: • Sales for resale are those made to purchasers other than ultimate

consumers. Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and commercial consumers. • Values for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note

^{6, &}quot;Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District of Columbia.

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

available data beginning in 1978.

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

Table 9.6 Refiner Prices of Petroleum Products for Resale

(Dollars^a per Gallon, Excluding Taxes)

	Finished Motor Gasoline ^b	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consume Grade)
						I.	
978 Average	0.434	0.537	0.386	0.404	0.369	0.365	0.237
980 Average	0.941	1.128	0.868	0.864	0.803	0.801	0.415
985 Average	0.835	1.130	0.794	0.874	0.776	0.772	0.398
990 Average	0.786	1.063	0.773	0.839	0.697	0.694	0.386
95 Average	0.626	0.975	0.539	0.580	0.511	0.538	0.344
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
98 Average	0.526	0.912	0.450	0.465	0.422	0.444	0.288
999 Average	0.645	1.007	0.533	0.550	0.493	0.546	0.342
	0.963	1.330	0.880	0.969	0.886	0.898	0.595
000 Average							
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
06 Average	1.969	2.490	1.961	2.007	1.834	2.012	1.031
007 Average	2.182	2.758	2.171	2.249	2.072	2.203	1.194
008 Average	2.586	3.342	3.020	2.851	2.745	2.994	1.437
009 Average	1.767	2.480	1.719	1.844	1.657	1.713	0.921
110 January	2.097	2.759	2.121	2.282	2.075	2.078	1.332
February	2.033	2.662	1.999	2.216	1.986	2.025	1.324
March	2.197	2.906	2.129	2.219	2.100	2.163	1.179
April	2.265	2.999	2.247	2.281	2.214	2.312	1.144
May	2.152	2.945	2.186	2.110	2.129	2.177	1.098
June	2.113	2.835	2.094	2.103	2.037	2.120	1.049
	2.113	2.891	2.100	2.046	2.001	2.098	1.012
July							
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
111 January	2.472	3.161	2.585	2.804	2.585	2.621	1.380
	2.584	3.248	2.783	2.974	2.737	2.820	1.401
February							
March	2.934	3.607	3.095	3.196	2.996	3.134	1.403
April	3.218	4.035	3.259	3.296	3.167	3.296	1.433
May	3.174	4.096	3.188	W	3.039	3.116	1.515
June	2.970	3.847	3.101	3.054	2.956	3.079	1.503
July	3.058	4.011	3.090	3.158	3.024	3.135	1.513
August	2.949	3.899	3.040	3.089	2.927	3.032	1.522
September	2.896	3.878	3.025	3.073	2.927	3.035	1.557
October	2.805	3.616	2.962	3.096	2.915	3.035	1.511
November	2.701	3.494	3.089	3.258	3.050	3.157	1.498
December	2.614	3.424	2.951	3.006	2.928	2.927	1.444
Average	2.867	3.739	3.014	3.065	2.907	3.034	1.467
12 January	2.747	3.576	3.059	3.197	3.027	3.018	1.341
February	2.936	3.788	3.186	3.293	3.166	3.163	1.282
March	3.203	4.052	3.296	3.306	3.211	3.308	1.293
April	3.189	4.157	3.255	3.243	3.153	3.252	1.163
May	3.016	4.004	3.076	3.008	2.976	3.039	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	3.278	0.910
October	2.941	4.002	3.182	3.250	_ 3.155	3.265	0.979
November	R 2.713	R 3.508	3.015	3.221	R 3.049	3.117	0.955
December	2.589	3.518	2.982	3.145	3.003	3.022	0.894

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

124

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are shown in Table 9.7; they are sales made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. • Values

for the current month are preliminary. • Prices prior to 1983 are U.S. Energy Information Administration (EIA) estimates. See Note 6, "Historical Petroleum Prices," at end of section. • Geographic coverage is the 50 States and the District

of Columbia.

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978.

Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 4. • 2010 forward: EIA, Petroleum Marketing Monthly, March 2013, Table 4.

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

Table 9.7 Refiner Prices of Petroleum Products to End Users

(Dollars^a per Gallon, Excluding Taxes)

	Finished Motor Gasoline ^b	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
1070 4	0.404	0.540	0.007	0.404	0.400	0.077	0.005
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
985 Average	0.912	1.201	0.796	1.030	0.849	0.789	0.717
990 Average	0.883	1.120	0.766	0.923	0.734	0.725	0.745
95 Average	0.765	1.005	0.540	0.589	0.562	0.560	0.492
96 Average	0.847	1.116	0.651	0.740	0.673	0.681	0.605
97 Average	0.839	1.128	0.613	0.745	0.636	0.642	0.552
98 Average	0.673	0.975	0.452	0.501	0.482	0.494	0.405
999 Average	0.781	1.059	0.543	0.605	0.558	0.584	0.458
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
02 Average	0.947	1.288	0.721	0.990	0.737	0.762	0.419
03 Average	1.156	1.493	0.872	1.224	0.933	0.944	0.577
004 Average	1.435	1.819	1.207	1.160	1.173	1.243	0.839
05 Average	1.829	2.231	1.735	1.957	1.705	1.786	1.089
006 Average	2.128	2.682	1.998	2.244	1.982	2.096	1.358
007 Average	2.345	2.849	2.165	2.263	2.241	2.267	1.489
008 Average	2.775	3.273	3.052	3.283	2.986	3.150	1.892
009 Average	1.888	2.442	1.704	2.675	1.962	1.834	1.220
JUS Average	1.000	2.442	1.704	2.075	1.902	1.034	1.220
10 January	2.240	2.914	2.129	2.986	2.369	2.192	1.913
February	2.173	2.855	2.018	2.974	2.310	2.144	2.009
March	2.301	3.103	2.144	2.978	2.425	2.265	NA
April	2.370	3.201	2.272	3.040	2.527	2.410	1.326
May	2.353	3.129	2.199	2.938	2.487	2.343	1.264
	2.251	2.981	2.105	2.965	2.393	2.284	1.204
June							
July	2.247	3.028	2.103	NA	2.246	2.212	1.162
August	2.250	2.967	2.158	2.772	2.379	2.260	1.211
September	2.219	2.893	2.148	2.898	2.346	2.269	1.283
October	2.319	3.000	2.298	3.058	2.580	2.389	1.425
November	2.378	3.095	2.374	3.130	2.641	2.457	NA
December	2.514	3.218	2.484	3.276	2.749	2.554	1.863
Average	2.301	3.028	2.201	3.063	2.462	2.314	1.481
44 (0.045	2 202	0.000	0.050	0.000	0.004	NIA
11 January	2.615	3.323	2.623	3.358	2.889	2.681	NA
February	2.712	3.374	2.818	3.506	3.020	2.867	1.823
March	3.072	3.767	3.161	3.697	3.255	3.189	1.763
April	3.340	4.132	3.306	3.796	3.430	3.370	NA
May	3.419	4.091	3.220	3.894	3.337	3.231	1.648
June	3.184	3.913	3.138	3.802	3.193	3.183	1.681
July	3.172	4.027	3.118	3.812	3.294	3.214	1.620
August	3.134	3.920	3.057	3.851	3.251	3.143	1.650
September	3.090	3.915	3.059	3.873	3.288	3.127	1.702
October	2.980	3.697	2.987	3.823	3.346	3.127	1.702
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
	3.405			3.916			1.352
April		4.313	3.283		3.509	3.342	
May	3.289	W	3.100	3.741	3.258	3.163	1.080
June	3.061	W	2.768	3.753	2.982	2.912	0.902
July	2.981	W	2.856	3.612	3.041	2.989	0.972
August	3.248	4.091	3.123	3.575	3.256	3.265	0.916
September	3.357	4.262	3.283	3.771	3.361	3.367	0.932
October	3.261	4.064	3.211	3.864	3.486	3.364	0.980
November	R 2.994	3.561	R 3.045	3.854	3.403	3.206	0.926
December	2.828	3.599	3.009	3.789	3.283	3.115	0.840
December	/ N/N	.1.099	.5 009	.5 / 89	.1 /8.1	3 115	U 840

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.

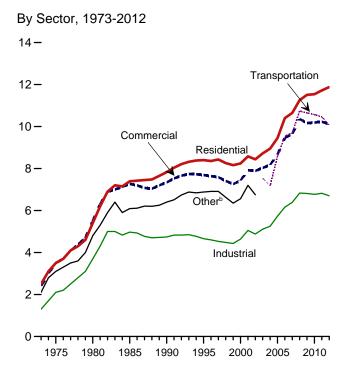
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#prices for all available data beginning in 1978.

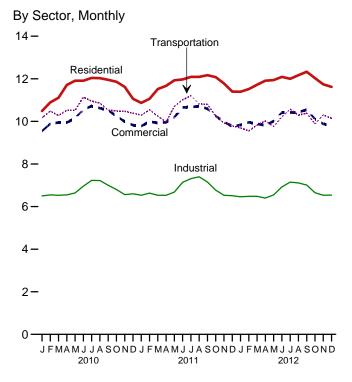
Sources: • 1978-2009: EIA, Petroleum Marketing Annual 2009, Table 2. • 2010 forward: EIA, Petroleum Marketing Monthly, March 2013, Table 2.

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

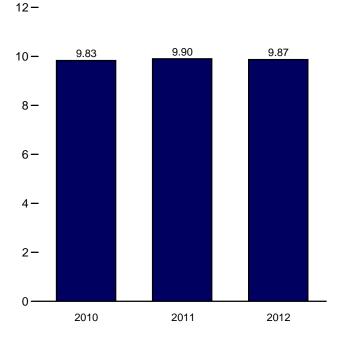
Notes: • Sales to end users are those made directly to ultimate consumers, including bulk consumers (such as agriculture, industry, and electric utilities) and residential and commercial consumers. Sales for resale are shown in Table 9.6; they are sales made to purchasers other than ultimate consumers.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

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



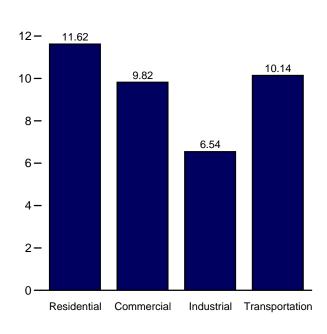


Total, January-December



By Sector, December 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

(Centsa per Kilowatthour, Including Taxes)

	Residential	Commercialb	Industrial ^c	Transportationd	Othere	Total
73 Average	2.50	2.40	1.30	NA	2.10	2.00
75 Average		3.50	2.10	NA.	3.10	2.90
30 Average		5.50	3.70	NA NA	4.80	4.70
		7.27	4.97	NA NA	6.09	6.44
5 Average		7.34	4.74	NA NA	6.40	6.57
0 Average						
5 Average		7.69	4.66	NA	6.88	6.89
6 Average		7.64	4.60	NA	6.91	6.86
7 Average		7.59	4.53	NA	6.91	6.85
8 Average		7.41	4.48	NA	6.63	6.74
9 Average		7.26	4.43	NA	6.35	6.64
0 Average	8.24	7.43	4.64	NA	6.56	6.81
1 Average	8.58	7.92	5.05	NA	7.20	7.29
2 Average		7.89	4.88	NA	6.75	7.20
3 Average		8.03	5.11	7.54		7.44
4 Average		8.17	5.25	7.18		7.61
5 Average		8.67	5.73	8.57		8.14
6 Average		9.46	6.16	9.54		8.90
7 Average		9.65	6.39	9.70		9.13
8 Average		10.36	6.83	10.74		9.74
9 Average	11.51	10.17	6.81	10.65		9.82
0 January		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		9.95	6.55	10.52		9.53
May		10.15	6.64	10.52		9.72
June		10.56	6.96	11.14		10.18
July		10.72	7.23	10.95		10.46
August		10.62	7.22	10.86		10.40
September		10.52	7.00	10.53		10.17
October		10.25	6.80	10.49		9.81
November		9.99	6.56	10.47		9.55
December		9.82	6.60	10.39		9.52
Average	11.54	10.19	6.77	10.57		9.83
1 January	10.87	9.78	6.53	10.29		9.48
February		9.99	6.63	10.55		9.56
March		9.93	6.53	10.24		9.55
April		9.96	6.53	9.97		9.54
May		10.19	6.68	10.70		9.78
June		10.66	7.14	11.01		10.26
July		10.67 10.72	7.31 7.40	11.21 10.82		10.47 10.49
August						
September		10.59	7.15	10.80		10.29
October		10.25	6.77	10.25		9.83
November		9.98	6.53	9.93		9.58
December		9.77	6.51	9.79		9.53
Average	11.72	10.23	6.82	10.46		9.90
2 January	11.39	9.83	6.46	9.69		9.61
February		9.96	6.48	9.55		9.60
March		9.88	6.48	9.83		9.56
April		9.83	6.40	10.02		9.49
		10.01	6.55	9.76		9.68
May						
June		10.42	6.92	10.22		10.15
July		10.42	7.15	10.57		10.31
August		10.43	7.11	10.29		10.34
September	12.33	10.55	7.01	10.39		10.31
October		10.11	6.65	9.88		9.76
November		9.88	6.53	10.30		9.58
December	11.62	9.82	6.54	10.14		9.65
December						

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

and railways.

NA=Not available. ——=Not applicable.

Notes: • Beginning in 2003, the category "Other" has been replaced by "Transportation," and the categories "Commercial" and "Industrial" have been redefined. • Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of energy service provider billing and accounting procedures. That lack of correspondence could result in uncharacteristic increases or decreases in the monthly prices. • Prices include State and local taxes, energy or demand charges, customer service charges, environmental surcharges, franchise fees, fuel adjustments, and other

miscellaneous charges applied to end-use customers during normal billing operations. Prices do not include deferred charges, credits, or other adjustments, such as fuel or revenue from purchased power, from previous reporting periods.

• See Note 7, "Electricity Retail Prices," at end of section for plant coverage, and for information on preliminary and final values.

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

Web Page: See http://www.eia.gov/batalenerg/idata/menthb//fforiage.for.ell.

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

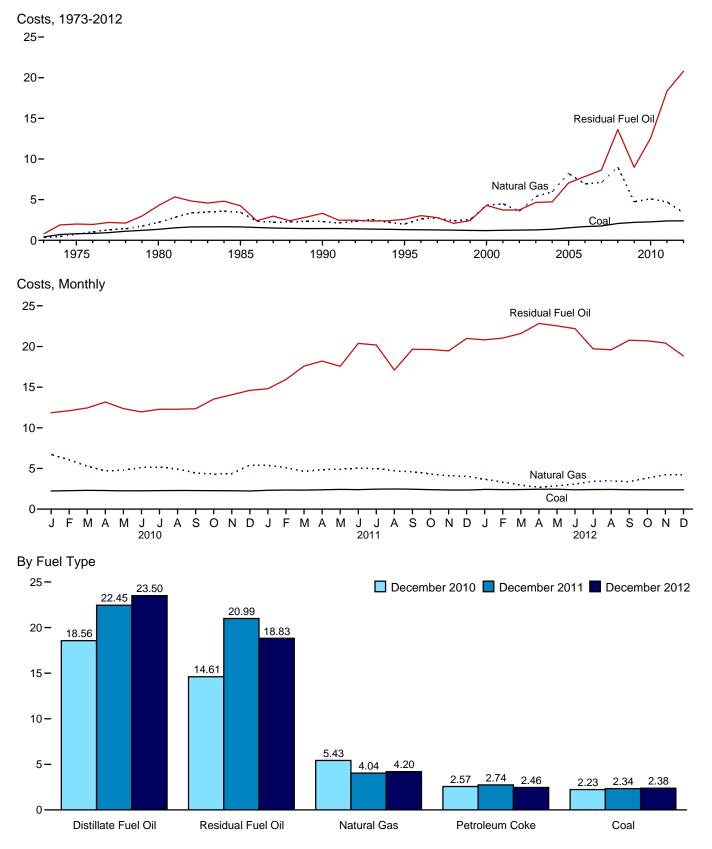
available data beginning in 1973.

Sources: • 1973-September 1977: Federal Power Commission, Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • October 1977-February 1980: Federal Energy Regulatory Commission (FERC), Form FPC-5, "Monthly Statement of Electric Operating Revenues and Income." • March 1980-1982: FERC, Form FERC-5, "Electric Utility Company Monthly Statement." • 1983: U.S. Energy Information Administration (EIA), Form EIA-826, "Electric Utility Company Monthly Statement." • 1984-2009: EIA, Form EIA-861, "Annual Electric Utility Report." • 2010 forward: EIA, Electric Power Monthly, February 2013, Table 5.3.

 ^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

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 Web Pag Glossary. Web Pag Source:

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

(Dollarsa per Million Btu, Including Taxes)

			Petrole	um			
	Coal	Residual Fuel Oil ^b	Distillate Fuel Oilc	Petroleum Coke	Total ^d	Natural Gas ^e	All Fossil Fuels
1973 Average	0.41	0.79	NA	NA	0.80	0.34	0.48
1975 Average	.81	2.01	NA NA	NA NA	2.02	.75	1.04
1980 Average	1.35	4.27	NA NA	NA NA	4.35	2.20	1.93
1985 Average	1.65	4.24	NA NA	NA NA	4.32	3.44	2.09
1990 Average	1.45	3.32	5.38	.80	3.35	2.32	1.69
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	.03 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	2.07	8.98	13.22	1.61	7.02	4.74	3.04
2000 Avolugo							
2010 January	2.23	11.85	15.73	1.72	9.72	6.71	3.74
February	2.27	12.11	15.69	1.80	9.51	6.07	3.45
March	2.31	12.44	16.42	2.09	8.95	5.29	3.16
April	2.29	13.17	17.10	2.18	7.95	4.71	3.01
May	2.26	12.36	16.54	2.22	9.47	4.79	3.12
June	2.25	11.96	16.12	2.15	9.26	5.12	3.34
July	2.27	12.28	15.89	2.42	9.63	5.18	3.51
August	2.30	12.28	16.24	2.65	9.18	4.92	3.39
September	2.28	12.34	16.53	2.67	9.35	4.45	3.10
October	2.27	13.53	17.14	2.43	9.13	4.30	2.94
November	2.26	14.06	17.43	2.22	10.86	4.35	2.94
December	2.23	14.61	18.56	2.57	11.29	5.43	3.32
Average	2.27	12.57	16.61	2.28	9.54	5.09	3.26
2011 January	2.32	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	2.43	21.04	23.73	2.77	12.70	3.32	2.83
March	2.40	21.60	24.80	2.43	12.31	2.96	2.73
April	2.44	22.83	24.30	2.43	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	2.75
	2.36	19.72		2.73	13.41		2.98
July	2.41		21.80			3.41	
August		19.59	23.15	2.51	13.24	3.48	2.97
September	2.39	20.77	24.30	2.43	10.33	3.38	2.87
October	2.38	20.70	24.85	2.07	12.24	3.81	3.00
November	2.38	20.43	24.37	2.46	12.27	4.23	3.10
December Average	2.38 2.40	18.83 20.78	23.50	2.46 2.54	11.44 12.60	4.20 3.40	3.13 2.90
			23.45				

Gas."

g Through 2001, data are for electric utilities only. Beginning in 2002, data also include independent power producers, and electric generating plants in the commercial and industrial sectors. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage.

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

Sources: See end of section.

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

For 1973–2001, electric utility data are for neavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).
 For 1973–2001, electric utility data are for light oil (fuel oil nos. 1 and 2).
 Distillate fuel oil, residual fuel oil, petroleum coke, jet fuel, kerosene, other petroleum, and waste oil. For 1973–1982, data do not include refined motor oil, bunker oil, and liquefied petroleum gases. For 1973-1989, data do not include

petroleum coke.

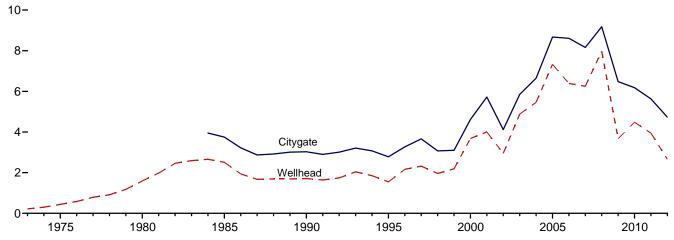
^e Natural gas, plus a small amount of supplemental gaseous fuels. For 1973-2000, data also include a small amount of blast furnace gas and other gases derived from fossil fuels.

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

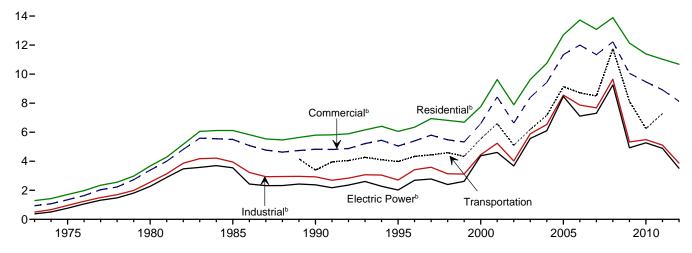
Figure 9.4 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)

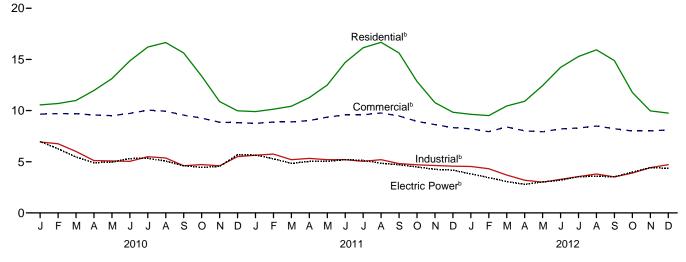
Selected Prices, 1973-2012



Consuming Sectors, 1973-2012



Consuming Sectors, Monthly



 $^{\rm a}\textsc{Prices}$ are not adjusted for inflation. See "Nominal Dollars" in Glossary. $^{\rm b}\textsc{Includes}$ taxes.

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

Table 9.10 Natural Gas Prices

(Dollars^a per Thousand Cubic Feet)

			Consuming Sectors ^b								
		Citv-	Res	idential	Com	mercial ^c	Ind	ustriald	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	.44 1.59 2.51 1.71 1.55 2.17 2.32	NA NA 3.75 3.03 2.78 3.27 3.66	1.29 1.71 3.68 6.12 5.80 6.06 6.34 6.94	NA NA NA 99.2 99.0 98.8	0.94 1.35 3.39 5.50 4.83 5.05 5.40 5.80	NA NA NA NA 86.6 76.7 77.6 70.8	0.50 .96 2.56 3.95 2.93 2.71 3.42 3.59	NA NA 68.8 35.2 24.5 19.4 18.1	NA NA NA 3.39 3.98 4.34 4.44	0.38 .77 2.27 3.55 2.38 2.02 2.69 2.78	92.1 96.1 96.9 94.0 76.8 71.4 68.4 68.0
1998 Average 1999 Average 2000 Average 2001 Average 2002 Average 2003 Average 2004 Average 2005 Average 2006 Average 2007 Average 2007 Average 2008 Average 2008 Average 2008 Average	1.96 2.19 3.68 4.00 2.95 4.88 5.46 7.33 6.39 6.25 7.97 3.67	3.07 3.10 4.62 5.72 4.12 5.85 6.65 8.67 8.61 8.16 9.18 6.48	6.82 6.69 7.76 9.63 7.89 9.63 10.75 12.70 13.73 13.08 13.89 12.14	97.7 95.2 92.6 92.4 97.9 97.5 97.7 98.1 98.0 97.5	5.48 5.33 6.59 8.43 6.63 8.40 9.43 11.34 12.00 11.34 12.23	67.0 66.1 63.9 66.0 77.4 78.2 78.0 82.1 80.8 80.4 79.7	3.14 3.12 4.45 5.24 4.02 5.89 6.53 8.56 7.87 7.68 9.65 5.33	16.1 18.8 19.8 20.8 22.7 22.1 23.6 24.0 23.4 22.2 20.4 18.8	4.59 4.34 5.54 6.60 5.10 6.19 7.16 9.14 8.72 8.50 11.75 8.13	2.40 2.62 4.38 4.61 e3.68 5.57 6.11 8.47 7.11 7.31 9.26 4.93	63.7 58.3 50.5 40.2 83.9 91.2 89.8 91.3 93.4 92.2 101.1
2010 January February March April May June July August September October November December Average	4.24 4.27 4.44 4.38 3.83 4.05 4.12	6.84 6.64 6.50 5.88 5.81 6.02 6.31 6.22 5.72 5.70 5.48 5.74 6.18	10.56 10.69 10.99 11.97 13.12 14.86 16.21 16.65 15.63 13.37 10.89 9.98 11.39	R 97.7 97.8 97.6 96.2 97.1 96.9 96.8 96.7 96.8 97.4 97.7	9.65 9.71 9.70 9.57 9.50 9.72 10.04 9.94 9.56 9.27 8.86 8.82 9.47	81.2 81.7 79.7 75.7 73.0 71.9 70.6 69.8 68.5 71.8 77.7 80.2 77.5	6.93 6.76 6.01 5.12 5.08 5.04 5.49 5.37 4.61 4.73 4.60 5.50 5.49	18.3 17.8 17.6 17.0 17.1 17.3 17.5 17.0 16.7 16.1 16.9 17.1	NA NA NA NA NA NA NA NA NA NA NA NA	6.98 6.27 5.47 4.91 4.96 5.31 5.34 5.06 4.61 4.45 4.55 5.68 5.27	101.0 100.5 101.0 100.9 100.9 100.6 100.6 100.7 101.3 101.0 101.3
2011 January February March 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	5.69 5.75 5.73 5.62 5.80 6.12 6.16 6.19 5.94 5.29 5.03 5.63	9.90 10.14 10.43 11.27 12.50 14.70 16.14 16.67 15.63 12.85 10.78 9.84 11.03	96.5 96.5 96.2 96.0 96.2 96.3 96.3 95.7 95.5 95.7 95.6 96.4 96.2	8.75 8.88 8.89 9.03 9.58 9.59 9.77 9.47 8.95 8.63 8.33 8.92	72.8 72.0 69.6 66.4 63.9 61.7 60.1 58.1 57.8 61.4 66.1 69.1 67.3	5.64 5.75 5.20 5.33 5.20 5.20 5.04 5.20 4.82 4.70 4.63 4.57 5.11	17.1 16.9 16.8 16.3 16.7 16.2 17.0 16.4 16.2 16.5 17.0 16.6	NA NA NA NA NA NA NA NA NA NA NA NA	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
2012 January February March April May June July August September October November December 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 E 3.03 E 3.35	R 4.85 R 4.73 4.84 R 4.19 R 4.30 R 4.63 R 4.88 R 5.13 R 4.74 R 4.65 R 4.79 4.79	9.64 9.51 10.45 10.91 12.44 14.22 15.29 15.94 14.89 11.77 9.97 9.75	96.2 96.1 96.2 95.5 95.6 95.6 95.1 95.1 95.2 95.5 95.8	8.22 7.94 8.40 8.02 7.93 8.21 8.30 8.49 8.23 8.00 R 8.02 8.11 8.13	R 70.5 R 69.2 R 67.3 R 63.7 60.8 R 60.7 59.1 57.1 57.6 R 60.7 65.8 68.6 64.7	4.54 4.32 3.70 3.19 3.01 3.28 3.55 3.80 3.52 3.90 4.42 4.72 3.87	R 16.4 16.6 R 16.4 15.8 16.1 16.0 16.4 17.2 17.1 17.0 17.5 16.7	NA NA 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 4.42 4.36 3.52	100.8 100.4 100.3 101.1 100.8 100.7 100.7 100.5 101.3 101.4 100.4 101.6 100.8

a Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.
b See Note 9, "Natural Gas Prices," at end of section.
c Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
d Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
e The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 2001, data are for electric utilities only; beginning in 2002, data also include independent power producers. See Note 8, "Costs of Fossil-Fuel Receipts at Electric Generating Plants," at end of section for plant coverage.
Includes taxes.
9 The percentage of the sector's consumption in Table 4.3 for which price

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

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

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

Notes: • Prices are for natural gas, plus a small amount of supplemental gaseous fuels. • Prices are intended to include all taxes. See Note 9, "Natural Gas Prices," at end of section. • Wellhead annual and year-to-date prices are simple averages of the monthly prices; all other annual and year-to-date prices are volume-weighted averages of the monthly prices. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

Energy Prices

Note 1. Crude Oil Domestic First Purchase Prices. The average domestic first purchase price represents the average price at which all domestic crude oil is purchased. Prior to February 1976, the price represented an estimate of the average of posted prices; beginning with February 1976, the price represents an average of actual first purchase prices. The data series was previously called "Actual Domestic Wellhead Price."

Note 2. Crude Oil F.O.B. Costs. F.O.B. literally means "Free on Board." It denotes a transaction whereby the seller makes the product available with an agreement on a given port at a given price; it is the responsibility of the buyer to arrange for the transportation and insurance.

Note 3. Crude Oil Landed Costs. The landed cost of imported crude oil from selected countries does not represent the total cost of all imported crude. Prior to April 1975, imported crude costs to U.S. company-owned refineries in the Caribbean were not included in the landed cost, and costs of crude oil from countries that export only small amounts to the United States were also excluded. Beginning in April 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.

Note 4. Crude Oil Refinery Acquisition Costs. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on U.S. Energy Information Administration (EIA) Form EIA-14, "Refiners' Monthly Cost Report." Those costs were previously published from data collected on Economic Regulatory Administration (ERA) Form ERA-49, "Domestic Crude Oil Entitlements Program Refiners Monthly Report." Form ERA-49 was discontinued with the decontrol of crude oil on January 28, 1981. Crude oil purchases and costs are defined for Form EIA-14 in accordance with conventions used for Form ERA-49. The respondents for the two forms are also essentially the same. However, due to possible different interpretations of the filing requirements and a different method for handling prior period adjustments, care must be taken when comparing the data collected on the two forms.

The refiner acquisition cost of crude oil is the average price paid by refiners for crude oil booked into their refineries in accordance with accounting procedures generally accepted and consistently and historically applied by the refiners concerned. Domestic crude oil is that oil produced in the United States or from the outer continental shelf as defined in 43 USC Section 1331. Imported crude oil is either that oil reported on Form ERA-51, "Transfer Pricing Report," or any crude oil that is not domestic oil. The composite cost is the weighted average of domestic and imported crude oil costs.

Crude oil costs and volumes reported on Form ERA-49 excluded unfinished oils but included the Strategic Petroleum Reserve (SPR). Crude oil costs and volumes reported

on Federal Energy Administration (FEA) Form FEA-P110-M-1, "Refiners' Monthly Cost Allocation Report," included unfinished oils but excluded SPR. Imported averages derived from Form ERA-49 exclude oil purchased for SPR, whereas the composite averages derived from Form ERA-49 include SPR. None of the prices derived from Form EIA-14 include either unfinished oils or SPR.

Note 5. Motor Gasoline Prices. Several different series of motor gasoline prices are published in this section. U.S. city average retail prices of motor gasoline are calculated monthly by the Bureau of Labor Statistics during the development of the Consumer Price Index (CPI). These prices include all Federal, State, and local taxes paid at the time of sale. From 1974–1977, prices were collected in 56 urban areas. From 1978 forward, prices are collected from a new sample of service stations in 85 urban areas selected to represent all urban consumers—about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-serve).

Refiner prices of finished motor gasoline for resale and to end users are determined by the EIA in a monthly survey of refiners and gas plant operators (Form EIA-782A). The prices do not include any Federal, State, or local taxes paid at the time of sale. Estimates of prices prior to January 1983 are based on Form FEA-P302-M-1/EIA-460, "Petroleum Industry Monthly Report for Product Prices," and also exclude all Federal, State, or local taxes paid at the time of sale. Sales for resale are those made to purchasers who are other-than-ultimate consumers. Sales to end users are sales made directly to the consumer of the product, including bulk consumers (such as agriculture, industry, and utilities) and residential and commercial consumers.

Note 6. Historical Petroleum Prices. Starting in January 1983, Form EIA-782, "Monthly Petroleum Product Sales Report," replaced 10 previous surveys. Every attempt was made to continue the most important price series. However, prices published through December 1982 and those published since January 1983 do not necessarily form continuous data series due to changes in survey forms, definitions, instructions, populations, samples, processing systems, and statistical procedures. To provide historical data, continuous series were generated for annual data 1978-1982 and for monthly data 1981 and 1982 by estimating the prices that would have been published had Form EIA-782 survey and system been in operation at that time. This form of estimation was performed after detailed adjustment was made for product and sales type matching and for discontinuity due to other factors. An important difference between the previous and present prices is the distinction between wholesale and resale and between retail and end user. The resale category continues to include sales among resellers. However, sales to bulk consumers, such as utility, industrial, and commercial accounts previously included in the wholesale category, are now counted as made to end users. The end-user category continues to include retail sales through company-owned and operated outlets but also includes sales to the bulk consumers such as agriculture, industry, and electric utilities. Additional information may be found in "Estimated Historic Time Series for the EIA-782," a feature article by Paula Weir, printed in the December 1983 [3] *Petroleum Marketing Monthly*, published by EIA.

Note 7. Electricity Retail Prices. Average annual retail prices of electricity have the following plant coverage: Through 1979, annual data are for Classes A and B privately owned electric utilities only. For 1980–1982, annual data are for selected Class A utilities whose electric operating revenues were \$100 million or more during the previous year. For 1983, annual data are for a selected sample of electric utilities. Beginning in 1984, data are for a census of electric utilities. Beginning in 1996, annual data also include energy service providers selling to retail customers.

Average monthly retail prices of electricity have the following plant coverage: Through 1985, monthly data are derived from selected privately owned electric utilities and, therefore, are not national averages. Beginning in 1986, monthly data are based on a sample of publicly and privately owned electric utilities. Beginning in 1996, monthly data also include energy service providers selling to retail customers.

Preliminary monthly data are from Form EIA-826, "Monthly Electric Sales and Revenue Report With State Distributions Report," which is a monthly collection of data from approximately 450 of the largest publicly and privately owned electric utilities as well as a census of energy service providers with retail sales in deregulated States; a model is then applied to the collected data to estimate for the entire universe of U.S. electric utilities. Preliminary annual data are the sum of the monthly revenues divided by the sum of the monthly sales. When final annual data become available each year from Form EIA-861, "Annual Electric Power Industry Report," their ratios to the preliminary Form EIA-826 values are used to derive adjusted final monthly values.

Note 8. Costs of Fossil-Fuel Receipts at Electric Generating Plants. Data for 1973–1982 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 25 megawatts or greater. From 1974–1982, peaking units were included in the data and counted towards the 25-megawatt-or-greater total. Data for 1983–1990 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 50 megawatts or greater. Data for 1991–2001 cover all regulated electric generating plants at which the generator nameplate capacity of all steam-electric units and combined-cycle units together totaled 50

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

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

Table 9.1 Sources

Domestic First Purchase Price

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

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

2010 forward: EIA, *Petroleum Marketing Monthly*, March 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*, March 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*, March 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

2010 forward: EIA, *Petroleum Marketing Monthly*, March 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*, February 2013, 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)*, February 2013, 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, February 2013, Table 3.

Percentage of Industrial Sector

1982–2006: EIA, NGA, annual reports. Calculated as the total amount of natural gas delivered to industrial consumers minus the amount delivered for the account of others, and then divided by the total amount delivered to industrial consumers. 2007 forward: EIA, NGM, February 2013, Table 3.

Percentage of Electric Power Sector

1973–2001: Calculated by EIA as the quantity of natural gas receipts by electric utilities reported on Form FERC-423, "Monthly Report of Cost and 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).

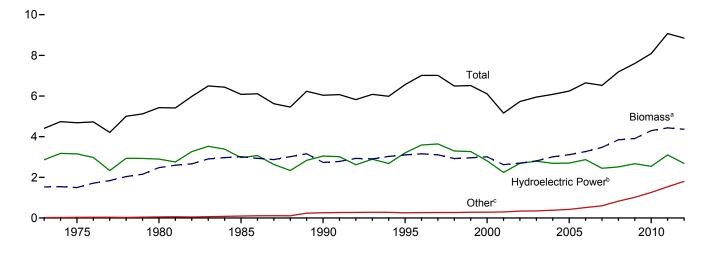
2002–2007: Calculated by EIA as the quantity of natural gas receipts by electric utilities and independent power producers reported on Form FERC-423, "Monthly Report of Cost and Quantity of Fuels for Electric Utility Plants," and EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report,"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

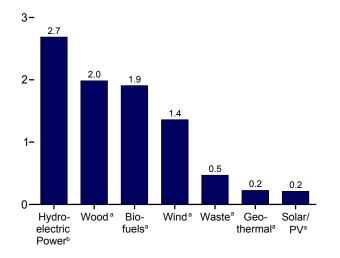
10. Renewable Energy

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

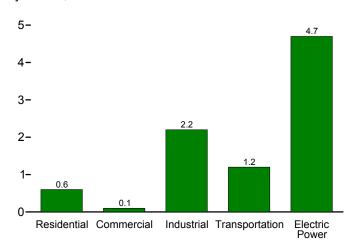
Total and Major Sources, 1973-2012



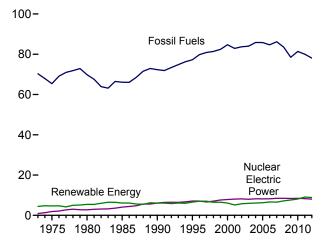
By Source, 2012



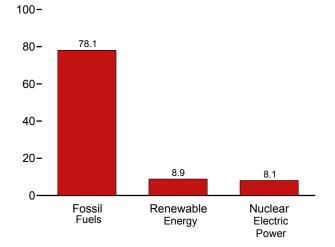
By Sector, 2012



Compared With Other Resources, 1973-2012



Compared With Other Resources, 2012



^a See Table 10.1 for definition.

^b Conventional hydroelectric power.

^c Geothermal, solar/PV, and wind.

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

Table 10.1 Renewable Energy Production and Consumption by Source

(Trillion Btu)

		Production	a					Consumpti	on			
	Bior	mass	Total	l le salara					Bion	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 NA	1,529 1,499	4,411 4,687	2,861 3,155	20 34	NA NA	NA NA	1,527 1,497	2 2	NA NA	1,529 1,499	4,411 4,687
1980 Total 1985 Total	NA 93	2,475 3,016	5,428 6.084	2,900 2.970	53 97	NA (s)	NA (s)	2,474 2.687	2 236	NA 93	2,475 3.016	5,428 6.084
1990 Total	111	2,735	6,041	3,046	171	5 9	29	2,216	408	111	2,735	6,041
1995 Total 1996 Total	198 141	3,099 3,155	6,558 7,012	3,205 3,590	152 163	69 70	33 33	2,370 2,437	531 577	200 143	3,101 3,157	6,560 7,014
1997 Total	186	3,108	7,018	3,640	167	70	34	2,371	551	184	3,105	7,016
1998 Total	202 211	2,929 2.965	6,494 6.517	3,297 3,268	168 171	69 68	31 46	2,184 2.214	542 540	201 209	2,927 2.963	6,493 6.516
2000 Total	233	3,006	6,104	2,811	164	66	57	2,262	540 511	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 2003 Total	308 402	2,705 2,805	5,734 5,947	2,689 2,793	171 173	63 62	105 113	1,995 2.002	402 401	303 404	2,701 2.807	5,729 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 2007 Total	720 978	3,216 3,461	6,599 6,509	2,869 2,446	181 186	68 76	264 341	2,099 2.070	397 413	771 991	3,267 3,474	6,649 6,523
2008 Total	1,387	3,864	7,202	2,511	192	89	546	2,040	436	1,372	3,849	7,186
2009 Total	1,584	3,928	7,616	2,669	200	98	721	1,891	453	1,568	3,912	7,600
2010 January	152	359	672	218	18	10	67	168	39	142	349	662
February March	142 158	332 366	610 682	201 204	16 18	9 10	53 84	154 168	35 40	136 149	326 357	605 673
April	152	351	661	186	17	10	95	160	39	149	348	657
May	157	358	717	245	18	11	85	162	39	155	356	715
June July	152 158	355 367	753 701	291 239	17 17	11 11	79 66	164 170	39 40	155 158	357 368	755 701
August	160	371	662	196	18	11	65	171	40	159	370	660
September	156	360 369	626	168	17	11	69	166	38 39	153	357	622
October November	163 164	369	646 682	173 191	17 17	10 10	77 95	166 165	39 40	160 157	366 363	643 676
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	169 151	385 346	747 710	248 234	18 17	12 12	83 102	177 158	39 36	153 145	369 339	731 703
February March	171	380	816	303	18	13	102	170	39	160	369	805
April	163	359	813	303	17	13	121	160	36	154	349	804
May June	170 168	369 375	832 824	317 312	18 17	14 14	114 107	161 168	38 39	164 168	363 374	826 824
July	171	384	792	304	18	14	73	172	40	162	374	782
August	174 166	387 372	742 677	250 208	18 17	14 13	73 67	173 167	40 38	174 160	386 365	741 670
September October	176	382	708	192	17	13	102	166	30 40	167	373	699
November	178	386	738	201	18	13	121	167	41	167	375	727
December Total	186 2,044	405 4,527	770 9,168	231 3,103	18 212	13 158	104 1,168	177 2,014	42 469	176 1,948	395 4,432	760 9,072
	177	390	785	227	19	15	134	174	39	154	367	763
2012 January February	164	362	701	198	18	15	108	162	36	154	351	690
March	172	373	795	250	19	17	135	162	40	163	365	786
April May	164 173	356 378	770 816	254 277	18 19	17 19	124 122	155 166	38 40	160 172	353 378	767 816
June	165	368	780	259	19	19	116	164	39	164	366	779
July	157 163	368 370	751 713	260 225	19 19	19 19	85 81	171 169	40 39	158 168	369 375	753 719
August September	152	370 353	645	171	19	19	84	164	39 38	150	375 352	644
October	156	359	676	157	19	19	122	164	40	161	364	681
November December	152 157	356 371	687 771	183 226	19 20	17 17	112 138	164 172	40 43	152 153	356 367	687 767
Total	1,951	4,406	8,893	2,687	227	212	1,361	1,985	471	1,909	4,364	8,851

^a Production equals consumption for all renewable energy sources except

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

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

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

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).

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					Co	mmercial	Sectora			
			Biomass		Hydro-					Bio	mass		
	Geo- thermal ^b	Solar/ PV ^C	Wood ^d	Total	electric Power ^e	Geo- thermal ^b	Solar/ PV ^f	Wind ^g	Wood ^d	Wasteh	Fuel Ethanol ⁱ	Total	Total
1973 Total 1975 Total 1980 Total 1985 Total	NA NA NA	NA NA NA NA	354 425 850 1,010	354 425 850 1,010	NA NA NA NA	NA NA NA	NA NA NA NA	NA NA NA NA	7 8 21 24	NA NA NA NA	NA NA NA (s)	7 8 21 24	7 8 21 24
1990 Total 1995 Total 1996 Total 1997 Total	6 7 7	56 64 65 64	580 520 540 430	641 591 612 502	1 1 1	3 5 5 6	- - -	- - - -	66 72 76 73	28 40 53 58	(s) (s) (s) (s)	94 113 129 131	98 118 135 138
1998 Total 1999 Total 2000 Total	8 9 9	64 63 61	380 390 420	452 461 489	1 1 1	7 7 8	- - -	- -	64 67 71	54 54 47 25	(s) (s) (s)	118 121 119	127 129 128
2001 Total 2002 Total 2003 Total 2004 Total	9 10 13 14	59 57 57 57	370 380 400 410	438 448 470 481	(s) 1 1	8 9 11 12	- - -	- - -	67 69 71 70	26 29 34	(s) (s) 1 1	92 95 101 105	101 104 113 118
2005 Total 2006 Total 2007 Total 2008 Total	18 22 26	58 63 70 80	430 380 410 450	504 462 502 557	1 1 1	14 14 14 15	- - (s)	- - - -	70 65 70 73	34 36 31 34	1 1 2 2	105 103 103 109	120 118 118 125
2009 Total 2010 January	33 3	89 10	430 36	552 48	(s)	17 2	(s) (s)	(s)	72 6	36 3	3 (s)	112 9	129 11
February March	3 3 3	9 10 9	32 36 35	44 48 47	(s) (s) (s)	1 2 2	(s) (s) (s)	(s) (s) (s)	5 6 6	3 3 3	(s) (s) (s)	8 9 9	10 11 11
May June July August	3 3 3	10 9 10 10	36 35 36 36	48 47 48 48	(s) (s) (s)	2 2 2 2	(s) (s) (s) (s)	(s) (s) (s) (s)	6 6 6	4 3 3 3	(s) (s) (s) (s)	10 9 9 10	12 11 11 11
September October November		9 10 9	35 36 35	47 48 47	(s) (s) (s)	2 2 2	(s) (s) (s)	(s) (s) (s)	6 6 6	3 3 3	(s) (s) (s)	9 9	11 11 11
December Total	3 37	10 114	36 420	48 571	(s) 1	2 19	(s) (s)	(s) (s)	6 72	3 36	(s) 3	9 111	11 130
2011 January February March	3	12 11 12	37 33 37	52 47 52	(s) (s) (s)	2 2 2	(s) (s) (s)	(s) (s) (s)	6 5 6	3 3 3	(s) (s) (s)	10 9 10	11 10 11
April	3	12 12 12 12	35 37 35 37	50 52 50 52	(s) (s) (s) (s)	2 2 2 2	(s) (s) (s) (s)	(s) (s) (s) (s)	6 6 6	3 4 4 4	(s) (s) (s) (s)	9 10 10 10	11 12 12 12
August September October	3 3 3	12 12 12	37 35 37	52 50 52	(s) (s) (s)	2 2	(s) (s) (s)	(s) (s) (s)	6 6 6	4 4 4	(s) (s) (s)	10 10 10	12 11 12
November December Total	3 3 40	12 12 140	35 37 430	50 52 610	(s) (s) (s)	2 2 2 20	(s) (s) 1	(s) (s) (s)	6 6 71	4 4 43	(s) (s) 3	10 10 R 116	^R 11 12 ^R 137
2012 January February March	3 3	14 13 14	36 34 36	54 51 54	(s) (s) (s)	2 2 2	(s) (s) (s)	(s) (s) (s)	6 6 6	4 4 4	(s) (s) (s)	10 10 10	12 11 12
April May June	3 3 3	14 14 14	35 36 35	52 54 52	(s) (s) (s)	2 2 2	(s) (s) (s)	(s) (s) (s)	6 6 6	3 4 3	(s) (s) (s)	R 9 10 9	11 12 11
July August September October	3 3 3 3	14 14 14 14	36 36 35 36	54 54 52 54	(s) (s) (s)	2 2 2 2	(s) (s) (s)	(s) (s) (s) (s)	6 6 6	4 3 3 4	(s) (s) (s) (s)	10 10 10 10	12 12 11 12
November December Total	3	14 14 170	35 36 430	52 54 639	(s) (s) (s)	2 2 20	(s) (s) (s) (s)	(s) (s) 1	6 6 71	4 4 44	(s) (s) 3	10 11 118	12 12 140

^a Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See Note, "Classification of Power Plants Into Energy-Use Sectors," at end of Section 7.
^b Geothermal heat pump and direct use energy.

Into Energy-Use Sectors," at end of Section 7.

^b Geothermal heat pump and direct use energy.

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

^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 menawatt or greater.

megawatt or greater.

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

rate-see Table A6).

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

non-terievable waste (infinitipal solid waste from the suggests)

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

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

Btu.

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

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

Sources: See end of section.

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

	TTIIIIOTT L	,			Industri	al Sectora					Trans	portation	Sector
							Biomass					Biomass	
	Hydro- electric Power ^b	Geo- thermal ^c	Solar/ PV ^d	Winde	Woodf	Waste ⁹	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 1995 Total 1997 Total 1997 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2006 Total 2007 Total 2008 Total 2008 Total 2009 Total	35 32 33 33 31 55 61 58 55 49 42 33 39 43 32 29 16 17	NAAA 233334455534445554	NA NA NA NA - - - - - - - - - - - - - -	NA NA NA - - - - - - - - - - - - - -	1,165 1,063 1,606 1,645 1,442 1,652 1,683 1,731 1,603 1,620 1,636 1,443 1,396 1,363 1,475 1,452 1,472 1,405 1,340 1,208	NA NA NA 230 192 195 224 184 180 171 145 129 146 142 132 148 130 144 144 155	NA NA NA 1 1 2 1 1 1 1 3 3 4 6 7 10 12 13	NA NA NA 42 49 86 61 80 86 90 99 108 130 169 203 230 285 377 532 617	1,165 1,063 1,600 1,918 1,684 1,936 1,996 1,872 1,881 1,676 1,676 1,676 1,877 1,837 1,837 1,837 1,837 1,936	1,200 1,096 1,693 1,951 1,717 1,992 2,033 2,057 1,928 1,720 1,725 1,825 1,873 1,930 1,930 1,930 1,930 1,930 1,949 2,049	NA NA NA 50 60 112 113 118 135 141 168 228 286 327 442 557 786 894	NA NA NA NA NA NA NA NA 1 2 2 3 3 12 33 40 42	NA NA NA 50 60 112 113 118 135 142 170 230 290 339 475 602 826 935
2010 January	2 2 2 2 2 1 1 1 1 1 1 1 1 1	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	-	109 100 110 105 106 107 111 111 110 110 108 114 1,301	15 13 15 15 14 13 14 14 13 15 15 15	1 1 1 1 1 1 1 1 1 1 1 1 1 1	60 56 62 60 62 60 62 63 61 64 65 67	185 170 188 181 183 182 188 190 185 190 190 R 197 R 2,229	187 172 190 183 185 183 190 191 R 186 192 191 199 2,250	81 76 83 84 89 90 91 91 86 91 88 92 R 1,041	(s) 3 2 4 3 2 3 3 4 3 3 3 3 4 3 3 3 4 4	81 79 85 87 92 93 94 90 94 91 91 94 R 1,075
Pebruary	1 2 2 2 2 1 1 1 1 1 1 1 2 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	117 104 112 106 105 111 113 113 111 109 112 118 1,332	15 14 15 13 14 14 14 15 15 15	1 1 1 1 1 1 1 2 1 1 1 1 1 7	66 59 65 62 64 63 64 65 62 65 66 69 771	200 178 193 183 185 189 192 193 R 187 191 195 204	202 180 196 185 187 191 194 195 189 193 197 206	82 R 81 87 82 90 92 86 95 83 89 86 91	3 4 6 8 8 10 10 12 13 11 13 14	86 84 93 90 98 R 103 96 107 96 100 99 105 R 1,158
2012 January	2 2 2 2 1 1 1 1 1 2 2 18	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	116 108 106 103 110 108 112 110 108 108 108 114 1,309	15 14 14 14 14 15 15 15 14 15 16	1 1 1 1 1 1 1 2 1 1 1 1 1	67 61 64 61 64 61 58 60 56 58 60 728	R 198 184 185 179 190 185 186 186 179 183 182 190 2,227	201 186 187 181 192 186 188 187 181 184 185 193 2,250	81 82 R 88 R 87 93 90 88 95 83 93 84 86 1,050	5 8 10 11 14 11 10 11 9 8 9 5	86 R 90 98 98 107 101 R 99 106 92 101 93 92 1,161

consumed by the industrial sector.

consumed by the industrial sector.

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

j The fuel ethanol (minus denaturant) portion of motor fuels, such as E10 and E85, consumed by the transportation sector.

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

Btu. Notes: • Data are estimates, except for industrial sector hydroelectric power in 1973-1978 and 1989 forward, solar/PV, and wind. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

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

b Conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).

C Geothermal heat pump and direct use energy.

d Photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6) at industrial plants with capacity of 1 meanwater or greater.

megawatt or greater.

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

rate—see Table A6).

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

Table 10.2c Renewable Energy Consumption: Electric Power Sector

(Trillion Btu)

	Hydro- electric	Geo-				Biomass		
	Powera	thermal ^b	Solar/PV ^c	Wind ^d	Woode	Wastef	Total	Total
973 Total	2,827	20	NA	NA	1	2	3	2,851
975 Total	3,122	34	NA	NA	(s)	2	2	3,158
980 Total	2,867	53	NA	NA	3	2	4	2,925
985 Total	2,937	97	(s)	(s)	8	7	14	3,049
990 Total ^g	3.014	161	4	29	129	188	317	3,524
	3,149	138	5	33	125	296	422	3,747
995 Total	3,149	148	5 5	33	138	300	422 438	
96 Total			5 5					4,153
997 Total	3,581	150	5 5	34	137	309	446	4,216
998 Total	3,241	151		31	137	308	444	3,872
999 Total	3,218	152	5	46	138	315	453	3,874
000 Total	2,768	144	5	57	134	318	453	3,427
001 Total	2,209	142	6	70	126	211	337	2,763
002 Total	2,650	147	6	105	150	230	380	3,288
003 Total	2,749	146	5	113	167	230	397	3,411
004 Total	2,655	148	6	142	165	223	388	3,339
005 Total	2,670	147	6	178	185	221	406	3,406
006 Total	2,839	145	5	264	182	231	412	3,665
007 Total	2,430	145	6	341	186	237	423	3,345
008 Total	2,494	146	9	546	177	258	435	3,630
009 Total	2,650	146	9	721	180	261	441	3,967
110 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	i	85	14	22	36	378
June	290	12	2	79	16	23	39	421
	238	12	2	66	17	23	40	358
July								
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	13	(s)	83	17	21	37	381
February	233	12	1	102	16	19	35	382
March	301	13	1	102	15	21	36	453
April	301	12	2	121	12	20	32	467
May	315	13	2	114	13	21	34	477
June	311	12	2	107	16	22	37	469
July	303	12	2	73	17	22	39	429
August	249	12	2	73	17	22	39	376
September	207	12	2	67	15	21	37	323
October	191	12	1	102	14	22	36	343
November	199	12	i	121	14	22	36	369
December	229	13	i	103	16	23	39	385
Total	3,085	149	17	1,167	182	255	437	4,855
12 January	225	14	1	134	16	21	37	410
February	196	13	i	108	15	19	34	353
March	249	14	ż	135	14	21	35	435
April	252	13	3	124	11	20	31	424
May	276	14	5	122	13	22	35	451
	257	13	5 5	116	15 15	21	36	428
June		13	5 5			22		428 401
July	259			85	16		38	
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
November	181	14	3	112	15	22	36	346
December	224	14	2	138	16	23	38	416
Total	2,668	163	41	1,360	176	253	429	4,661

^a Conventional hydroelectricity net generation (converted to Btu using the

available data beginning in 1973.

Sources: • Biomass: Table 7.4b. • All Other Data: Tables 7.2b and A6.

fossil-fuels heat rate—see Table A6).

^b Geothermal electricity net generation (converted to Btu using the fossil-fuels

Geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 Solar thermal and photovoltaic (PV) electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 Wind electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6).
 Wood and wood-derived fuels.
 Municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass. Through 2000, also includes non-renewable waste (municipal solid waste from non-biogenic sources, and

tire-derived fuels).

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.

Table 10.3 Fuel Ethanol Overview

		1.00000					Traded						Consump-
	Feed- stock ^a	Losses and Co- products ^b	Dena- turant ^c	Р	roductiond		Net Imports ^e	Stocks ^{d,f}	Stock Change ^{d,g}	Cor	sumption	d	tion Minus Denaturant ^h
	TBtu	TBtu	Mbbl	Mbbl	MMgal	TBtu	Mbbl	Mbbl	Mbbl	Mbbl	MMgal	TBtu	TBtu
1981 Total	13	6	40	1.978	83	7	NA.	NA.	NA	1,978	83	7	7
1985 Total	93	42	294	14,693	617	52	NA	NA	NA	14,693	617	52	51
1990 Total	111	49	356	17,802	748	63	NA	NA	NA	17,802	748	63	62
1995 Total	198	86	647	32,325	1,358	115	387	2,186	-207	32,919	1,383	117	114
1996 Total	141	61	464	23,178	973	83	313	2,065	-121	23,612	992	84	82
1997 Total	186	80	613	30,674	1,288	109	85	2,925	860	29,899	1,256	107	104
1998 Total	202	86	669	33,453	1,405	119	66	3,406	481	33,038	1,388	118	115
1999 Total	211	90	698	34,881	1,465	124	87	4,024	618	34,350	1,443	122	119
2000 Total	233	99	773	38,627	1,622	138	116	3,400	-624	39,367	1,653	140	137
2001 Total	253	108	841	42,028	1,765	150	315	4,298	898	41,445	1,741	148	144
2002 Total	307	130	1,019	50,956	2,140	182	306	6,200	1,902	49,360	2,073	176	171
2003 Total	400	169	1,335	66,772	2,804	238	292	5,978	-222	67,286	2,826	240	233
2004 Total	484	203 230	1,621	81,058	3,404 3,904	289	3,542	6,002	24	84,576	3,552	301 344	293
2005 Total	552 688	230 285	1,859 2,326	92,961 116,294	3,904 4.884	331 414	3,234 17,408	5,563 8,760	-439 3,197	96,634 130,505	4,059	344 465	335 453
2006 Total 2007 Total	914	205 376	2,326 3,105	155,263	6,521	553	10,457	10,535	1,775	163,945	5,481 6,886	584	569
2007 Total	1,300	576 531	4,433	221,637	9,309	790	12,610	14,226	3,691	230,556	9,683	821	800
2009 Total	1,517	616	5,688	260,424	10,938	928	4,720	16,594	2,368	262,776	11,037	936	910
2010 January	149	60	541	25.625	1.076	91	-234	18.251	1.657	23,734	997	85	82
February	138	56	496	23,802	1,000	85	-482	19,297	1,046	22,274	936	79	77
March	154	62	537	26,486	1,112	94	-1,104	20,222	925	24,457	1,027	87	85
April	147	59	522	25,384	1,066	90	-927	20,042	-180	24,637	1,035	88	85
May	152	61	534	26,244	1,102	93	-368	19,851	-191	26,067	1,095	93	90
June	149	60	522	25,632	1,077	91	-341	18,565	-1,286	26,577	1,116	95	92
July	154	62	543	26,584	1,117	95	-578	17,809	-756	26,762	1,124	95	93
August	157	63	538	26,964	1,132	96	-695	17,380	-429	26,698	1,121	95	93
September	152	61	533	26,221	1,101	93	-924	17,437	57	25,240	1,060	90	88
October	160	64	563	27,471	1,154	98	-830	17,278	-159	26,800	1,126	95	93
November	161	65	585	27,747	1,165	99	-923	18,150	872	25,952	1,090	92	90
December	165	67	592	28,457	1,195	101	-1,711	17,941	-209	26,955	1,132	96	93
Total	1,839	742	6,506	316,617	13,298	1,127	-9,115	17,941	1,347	306,155	12,858	1,090	1,061
2011 January	165	66	581	28,467	1,196	101	-1,359	20,826	2,885	24,223	1,017	86	84
February	146	59	535	25,300	1,063	90	-1,425	21,016	190	23,685	995	84	82
March	163	65	548	28,178	1,183	100	-2,003	21,593	577	25,598	1,075	91	89
April	154	62	508	26,538	1,115	94	-2,865	21,065	-528	24,201	1,016	86	84
May	160	64	550	27,720	1,164	99 97	-1,743	20,609	-456	26,433	1,110	94 96	92
June	158 159	63 64	540 555	27,224 27,541	1,143 1.157	97 98	-1,533 -2,731	19,217 18,788	-1,392 -429	27,083 25,239	1,137 1.060	96	94 88
July August	162	65	575	27,976	1,175	100	-2,731	18,123	-429 -665	25,239 27,976	1,060	100	97
September	154	62	525	26,588	1,117	95	-1,745	18,465	342	24,501	1,173	87	85
October	162	65	557	28,013	1,177	100	-2,388	18,038	-427	26,052	1,029	93	90
November	164	66	573	28.383	1,177	101	-2,300	18,308	270	25,202	1.058	90	87
December	172	69	602	29,718	1.248	106	-2.997	18,238	-70	26,791	1,125	95	93
Total	1,919	769	6,649	331,646	13,929	1,181	-24,365	18,238	297	306,984	12,893	1,093	1,065
2012 January	167	67	583	29,063	1,221	103	-1,789	21,753	ⁱ 3,492	23,782	999	85	82
February	154	61	528	26,653	1,119	95	-1,785	22,572	819	24,049	1,010	86	83
March	160	64	522	27,706	1,164	99	-1,626	22,952	380	25,700	1,079	91	89
April	152	61	494	26,368	1,107	94	-1,549	22,370	-582	25,401	1,067	90	88
May	160	64	520	27,718	1,164	99	-1,013	21,851	-519	27,224	1,143	97	95
June	154	61	503	26,611	1,118	95	-613	21,456	-395	26,393	1,109	94	92
July	146	58	504	25,329	1,064	90	-502	20,373	-1,083	25,910	1,088	92	90
August	151	60	526	26,194	1,100	93	654	19,369	-1,004	27,852	1,170	99	97
September	141	56	497	24,511	1,029	87	694	20,044	675	24,530	1,030	87	85
October	146	58	528	25,352	1,065	90	609	18,762	-1,282	27,243	1,144	97	94
November	145	58	527	25,189	1,058	90	997	20,174	1,412	24,774	1,041	88	86
December	150	60	534	25,971	1,091	92	-79	20,677	503	25,389	1,066	90	88
Total	1,825	727	6,266	316,665	13,300	1,127	-6,002	20,677	¹ 2,416	308,247	12,946	1,097	1,069

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

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 losses and co-products, are
estimates. • See "Denaturant," "Ethanol," "Fuel Ethanol," and "Fuel Ethanol Minus
Denaturant" in Glossary. • Totals may not equal sum of components due to
independent rounding. • Geographic coverage is the 50 States and the District of
Columbia. Columbia.

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

Sources: See end of section.

<sup>Total coin and other holinass inputs to the production of undenatured entation used for fuel ethanol.

*Description of the boundary of the production of the tenanol. 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</sup> cananor—urese are included in the industrial sector cor appropriate energy source.

^C The amount of denaturant in fuel ethanol produced.

^d Includes denaturant

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. $^{\rm h}$ 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.

 $^{^{\}rm i}$ 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."

Table 10.4 Biodiesel Overview

							Trade							
	Feed- stock ^a	Losses and Co- products ^b	P	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 1 2 4 12 32 63 88 67	(s) (s) (s) (s) (s) (s) 1	204 250 338 666 2,162 5,963 11,662 16,145 12,281	9 10 14 28 91 250 490 678 516	1 1 2 4 12 32 62 87 66	78 191 94 97 207 1,069 3,342 7,502 1,844	39 56 110 124 206 828 6,477 16,128 6,332	39 135 -16 -26 1 242 -3,135 -8,626 -4,489	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA	NA NA NA NA NA NA NA 669	243 385 322 640 2,163 6,204 8,528 7,519 7,750	10 16 14 27 91 261 358 316 326	1 2 2 3 12 33 46 40 42
Petron January February March March May June July August September October November December Total	3 4 4 4 4 4 4 4 3 3 44	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	633 696 804 814 760 644 657 653 723 676 528 588 8,177	27 29 34 34 32 27 28 27 30 28 22 25 343	3 4 4 4 3 4 4 3 3 4 4	41 31 60 45 80 54 32 52 69 18 30 34 546	296 139 433 227 251 304 199 225 131 132 57 109 2,503	-256 -108 -374 -182 -171 -249 -167 -173 -62 -114 -27 -75 -1,958	1,049 1,039 1,057 1,009 1,016 968 830 771 682 650 676 672 672	338 -10 18 -48 -7 -48 -138 -59 -89 -32 26 -4	0 0 0 0 0 0 0 0 0	40 599 412 680 582 443 628 539 749 594 475 517 6,258	2 25 17 29 24 19 26 23 31 25 20 22 26 3	(s) 3 2 4 3 2 3 3 4 3 3 3 3 34
Pebruary	5 8 9 10 11 12 12 12 14 14 14 14	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	842 961 1,419 1,692 1,838 1,938 2,183 2,273 2,284 2,508 2,494 2,604 23,035	35 40 60 71 77 81 92 95 96 105 109 967	5 8 9 10 10 12 12 13 13 14 123	49 37 53 52 48 48 62 65 65 65 82 66 234	217 88 197 222 192 117 142 71 193 132 131 39 1,740	-169 -51 -144 -169 -144 -69 -80 -7 -127 -49 -65 195 -879	1,016 1,217 1,381 1,408 1,576 1,524 1,748 1,834 1,617 1,965 1,877 2,012 2,012	9 39 201 164 27 168 -53 224 86 -216 347 -88 135	0 0 0 0 0 0 0 0 0	634 709 1,111 1,495 1,526 1,922 1,879 2,181 2,373 2,111 2,517 2,664 21,122	27 30 47 63 64 81 79 92 100 89 106 112 887	3 4 6 8 8 10 10 12 13 11 13 14 14
Pebruary	9 10 12 12 13 12 11 11 10 7 7 7 125	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1,700 1,837 2,193 2,180 2,373 2,162 2,065 2,140 1,935 1,781 1,356 1,360 23,082	71 77 92 92 100 91 87 90 81 75 57 969	9 10 12 12 13 12 11 11 10 7 7 7	44 58 55 49 94 102 160 43 81 33 9 68 797	248 119 149 221 306 375 408 386 282 200 65 143 2,903	-204 -62 -93 -171 -212 -273 -248 -342 -202 -167 -56 -75 -2,105	2,527 2,869 3,053 2,932 2,514 2,363 2,253 2,003 2,060 2,183 1,875 2,169 2,169	h 625 342 184 -121 -418 -151 -110 -250 57 123 -309 292 h 264	0 0 0 0 0 0 0 0	872 1,433 1,915 2,130 2,579 2,039 1,927 2,048 1,676 1,491 1,609 993 20,712	37 60 80 89 108 86 81 86 70 63 68 42 870	5 8 10 11 14 11 10 11 9 8 9 5 111

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

only (672 thousand barrels) that is shown under "Stocks."

^{In} 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."

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

Web Page: See http://www.eia.gov/totalenergy/data/monthly/#renewable for all available data beginning in 2001.

Sources: See end of section.

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

Net imports equal imports minus exports.

Net imports equal imports minus exports.
 Stocks are at end of period. Through 2010, includes stocks at bulk terminals only. Beginning in 2011, includes stocks at bulk terminals and biodiesel production

plants.

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

f Beginning in 2009, because of incomplete data coverage and different data

sources, "Balancing Item" is used to balance biodiesel supply and disposition.

^g Derived from the final 2010 stocks value for bulk terminals and biodiesel

production plants (977 thousand barrels), not the final 2010 value for bulk terminals

Renewable Energy

Note. Renewable Energy Production and Consump-

tion. In Tables 1.1, 1.3, and 10.1, renewable energy consumption consists of: conventional hydroelectricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6); geothermal electricity net generation (converted to Btu using the fossil-fuels heat rate—see Table A6), and geothermal heat pump and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fuels heat rate —see Table A6), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossilfuels heat rate—see Table A6); wood and wood-derived fuels consumption; biomass waste (municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural byproducts, and other biomass) consumption; fuel ethanol (minus denaturant) and biodiesel consumption; and losses and co-products from the production of fuel ethanol and biodiesel. In Tables 1.1, 1.2, and 10.1, renewable production is assumed to equal consumption for all renewable energy sources except biofuels (biofuels production comprises biomass inputs to the production of fuel ethanol and biodiesel).

Table 10.2a Sources

Residential Sector, Geothermal

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

Residential Sector, Solar/PV

1989–2009: U.S. Energy Information Administration (EIA) estimates based on Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey," and Form EIA-63B, "Annual Photovoltaic Module/Cell Manufacturers Survey." Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

2010 forward: EIA estimates based on Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report"; Form EIA-63A, "Annual Solar Thermal Collector Manufacturers Survey" (pre-2010 data); and SEIA/GTM Research, *U.S. Solar Market Insight: 2010 Year in Review.* Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for 2012 is derived using the average annual growth rate for 2009–2011.)

Residential Sector, Wood

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

1980 forward: EIA, Form EIA-457, "Residential Energy Consumption Survey"; and EIA estimates based on Form EIA-457 and regional heating degree-day data. Monthly estimates are created by dividing the annual estimates by the number of days in the year and then multiplying by the number of days in the month. (The annual estimate for the current year is set equal to that of the previous year.)

Commercial Sector, Hydroelectric Power

1989 forward: Commercial sector conventional hydroelectricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," and predecessor forms, are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Geothermal

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

Commercial Sector, Solar/PV

2008 forward: Commercial sector solar thermal and photovoltaic (PV) electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Wind

2009 forward: Commercial sector wind electricity net generation data from EIA, Form EIA-923, "Power Plant Operations Report," are converted to Btu by multiplying by the fossil-fuels heat rate—see Table A6.

Commercial Sector, Wood

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

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

1984: EIA estimate based on the 1983 value.

1985–1988: Values interpolated.

1989 forward: EIA, *Monthly Energy Review (MER)*, Tables 7.4a–7.4c; and EIA estimates based on Form EIA-871, "Commercial Buildings Energy Consumption Survey." Data for wood consumption at commercial combined-heat-and-power (CHP) plants are calculated as total wood consumption at electricity-only and CHP plants (MER, Table 7.4a) minus wood consumption in the electric power sector (MER, Table 7.4b) and at industrial CHP plants (MER, Table 7.4c). Annual estimates for wood consumption at other commercial plants are based on Form EIA-871 (the annual estimate for the current year is set equal to that of the previous year); monthly estimates are created by dividing

the annual estimates by the number of days in the year and then multiplying by the number of days in the month.

Commercial Sector, Biomass Waste

EIA, MER, Table 7.4c.

Commercial Sector, Fuel Ethanol (Minus Denaturant)

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

Table 10.2b Sources

Industrial Sector, Hydroelectric Power

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

Industrial Sector, Geothermal

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

Industrial Sector, Solar/PV

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

Industrial Sector, Wind

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

Industrial Sector, Wood

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

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

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

1985 and 1986: Values interpolated.

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

1988: Value interpolated.

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

Industrial Sector, Biomass Waste

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

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

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

1985 and 1986: Values interpolated.

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

1988: Value interpolated.

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

Industrial Sector, Fuel Ethanol (Minus Denaturant)

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

3.5), and then multiplied by fuel ethanol (minus denaturant) consumption (Table 10.3).

Industrial Sector, Losses and Co-products

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

Transportation Sector, Fuel Ethanol (Minus Denaturant)

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

Transportation Sector, Biodiesel

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

Table 10.3 Sources

Feedstock

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

Losses and Co-products

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

Denaturant

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

2009–2011: 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

2001–October 2012: For imports, U.S. Department of Agriculture, data for the following Harmonized Tariff 3824.90.40.20, Schedule codes: "Fatty Esters Animal/Vegetable Mixture" (data through June 2010); 3824.90.40.30, "Biodiesel/Mixes" (data 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.

November 2012 forward: EIA, *Petroleum Supply Monthly (PSM)*, monthly reports, Tables 37 and 49, data for biomass-based diesel fuel.

Stocks and Stock Change

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

2012: EIA, PSM, monthly reports, Table 1, data for renewable fuels except fuel ethanol.

Balancing Item

Calculated as biodiesel consumption and biodiesel stock change minus biodiesel production and biodiesel net imports.

Consumption

2001–2008: Calculated as biodiesel production plus biodiesel net imports.

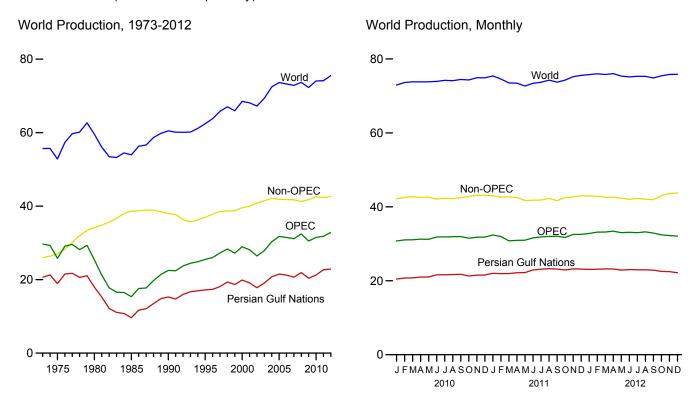
January and February 2009: EIA, PSA, Table 1, data for refinery and blender net inputs of renewable fuels except fuel ethanol.

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

11. International Petroleum

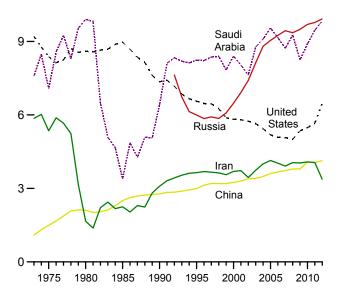
Figure 11.1a World Crude Oil Production Overview

(Million Barrels per Day)



Selected Producers, 1973-2012

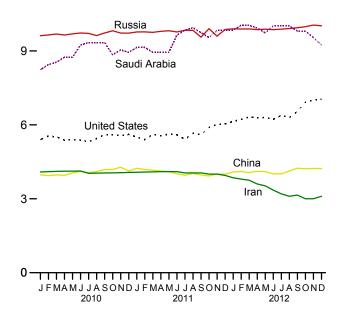
12-



Notes: • OPEC is the Organization of the Petroleum Exporting Countries. • The Persian Gulf Nations are Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates. Production from the Neutral Zone between Kuwait and Saudi Arabia is included in "Per-

Selected Producers, Monthly

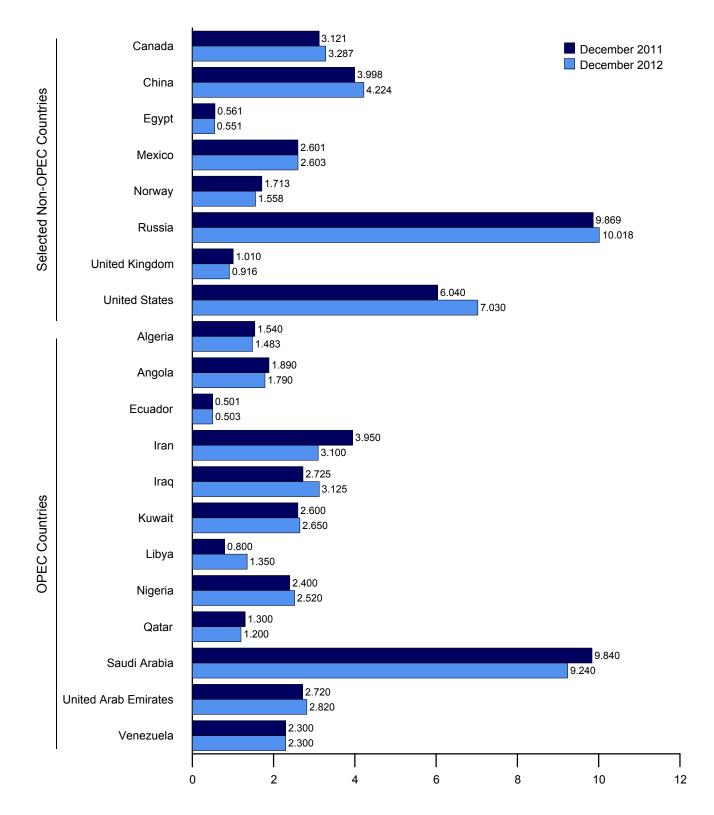
12-



sian Gulf Nations."

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

Figure 11.1b World Crude Oil Production by Selected Country (Million Barrels per Day)



Note: OPEC is the Organization of the Petroleum Exporting Countries. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Sources: Tables 11.1a and 11.1b.

Table 11.1a World Crude Oil Production: OPEC Members

(Thousand Barrels per Day)

			710 POI D	~ <i>)</i> /							1		1
	Algeria	Angola	Ecuador	Iran	Iraq	Kuwait ^a	Libya	Nigeria	Qatar	Saudi Arabia ^a	United Arab Emirates	Vene- zuela	Total OPEC ^b
1072 Averege	1,097	160	200	E 064	2.040	2 020	2 175	2.054	E70	7 506	4 522	2 266	20.664
1973 Average 1975 Average	983	162 165	209 161	5,861 5,350	2,018 2,262	3,020 2,084	2,175 1,480	2,054 1,783	570 438	7,596 7,075	1,533 1,664	3,366 2,346	29,661 25,790
1980 Average	1,106	150	204	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	25,383
1985 Average	1,036	231	281	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	15,367
1990 Average	1,180	475	285	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	22,498
1995 Average	1,162	646	392	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	25,500
1996 Average	1,227	709	396	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,003
1997 Average	1,259	714	388	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,274
1998 Average	1,226	735	375	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,346
1999 Average	1,177	745	373	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,199
2000 Average	1,214	746	395	3,696	2,571	2,079	1,410	2,165	737	8,404	2,368	3,155	28,940
2001 Average	1,265	742	412	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,114
2002 Average	1,349	896 903	393 411	3,444	2,023	1,894	1,319	2,118	679 715	7,634 9,775	2,082	2,604	26,435
2003 Average	1,516 1,582	1,052	528	3,743 4,001	1,308 2,011	2,136 2,376	1,421 1,515	2,275 2,329	715 783	8,775 9,101	2,348 2,478	2,335 2,557	27,885 30,313
2004 Average 2005 Average	1,692	1,250	532	4,139	1,878	2,529	1,633	2,627	835	9,550	2,535	2,565	31,766
2006 Average	1,699	1,413	536	4,028	1,996	2,535	1,681	2,440	850	9,152	2,636	2,511	31,476
2007 Average	1,708	1,744	511	3,912	2,086	2,464	1,702	2,350	851	8,722	2,603	R 2,490	R 31,143
2008 Average	1,705	1,981	505	4.050	2,375	2,586	1,736	2,165	924	9,261	2,681	R 2,464	R 32,433
2009 Average	1,585	1,907	486	4,037	2,391	2,350	1,650	2,208	927	8,250	2,413	R 2,319	R 30,522
2010 January	1,540	2,040	464	4,088	2,475	2,250	1,650	2,480	969	8,240	2,414	R 2,160	R 30,769
February	1,540	2,060	470	4,100	2,475	2,250	1,650	2,420	1,036	8,440	2,414	R 2,210	R 31,065
March	1,540	2,070	478	4,112	2,375	2,250	1,650	2,430	1,055	8,540	2,414	R 2,160	R 31,074
April	1,540	2,070	480	4,120	2,375	2,250	1,650	2,360	1,072	8,740	2,414	R 2,180	R 31,251
May	1,540	2,030	478	4,120	2,375	2,250	1,650	2,310	1,091	8,740	2,415	R 2,210	R 31,208
June	1,540	1,980	491	4,127	2,425	2,250	1,650	2,410	1,113	9,240	2,415	R 2,210	R 31,850
July	1,540	1,970	492	4,033	2,325	2,350	1,650	2,410	1,136	9,340	2,415	R 2,210	R 31,871
August	1,540	1,890	485	4,040	2,325	2,350	1,650	2,510	1,164	9,340	2,415	R 2,210	R 31,919
September	1,540	1,790	490	4,047	2,375	2,350	1,650	2,550	1,193	9,340	2,415	R 2,210	R 31,950
October	1,540	1,790	497	4,053	2,375	2,350	1,650	2,580	1,216	8,840	2,415	R 2,210	R 31,516
November	1,540 1.540	1,790 1,790	508 499	4,060 4,068	2,375 2,525	2,350 2,350	1,650	2,510 2,490	1,235 1,235	9,040 8,940	2,415 2,415	R 2,310 R 2,310	^R 31,783 ^R 31,812
December Average	1,540	1,939	486	4,080	2,323 2,399	2,300 2,300	1,650 1,650	2,490 2,455	1,127	8,900	2,415	R 2,216	R 31,507
				•		•			•	-	•		,
2011 January	1,540	1,790	500	4,076	2,625	2,350	1,650	2,616	1,280	9,140	2,520	R 2,300	R 32,387
February	1,540	1,790	509	4,084	2,525	2,350	1,340	2,604	1,280	9,140	2,520	R 2,300	R 31,982
March	1,540 1,540	1,790	501 504	4,092 4,100	2,525 2,525	2,450 2,550	300 200	2,460 2,520	1,290 1,300	8,940 8,940	2,620 2,720	R 2,300 R 2,300	R 30,808 R 30,939
April May	1,540	1,740 1,640	497	4,100	2,525	2,550	200	2,604	1,300	8.940	2,720	R 2,300	R 30,966
June	1,540	1,690	495	4,100	2,575	2,550	100	2,604	1,300	9,640	2,720	R 2,300	R 31,614
July	1,540	1,740	492	4,050	2,625	2,550	100	2,604	1,300	9,840	2,720	R 2,300	R 31,861
August	1,540	1,790	495	4,050	2,625	2,600	0	2,640	1,300	9,940	2,720	R 2,300	R 32,000
September	1,540	1,840	496	4,050	2,725	2,600	100	2,640	1,300	9,740	2,720	R 2,300	R 32,051
October	1,540	1,790	502	4,000	2,725	2,600	300	2,400	1,300	9,540	2,720	R 2,300	R 31,717
November	1,540	1,940	504	4,000	2,725	2,600	550	2,520	1,300	9,840	2,720	R 2,300	R 32,539
December	1,540	1,890	501	3,950	2,725	2,600	800	2,400	1,300	9,840	2,720	R 2,300	R 32,566
Average	1,540	1,786	500	4,054	2,626	2,530	465	2,550	1,296	9,458	2,679	R 2,300	^R 31,784
2012 January	1,550	1,890	504	3,850	2,675	2,650	1,000	2,520	1,300	9,840	2,720	R 2,300	R 32,799
February	1,550	1,940	503	3,800	2,575	2,650	1,200	2,580	1,300	10,040	2,720	R 2,300	R 33,158
March	1,550	1,790	499	3,750	2,725	2,640	1,350	2,520	1,200	10,030	2,820	R 2,300	R 33,174
April	1,550	1,890	500	3,600	2,965	2,640	1,400	2,640	1,190	9,930	2,820	R 2,300	R 33,425
May	1,550	1,840	498	3,525	2,925	2,640	1,400	2,580	1,200	9,730	2,820	R 2,300	R 33,008
June	1,544	1,790	502	3,350	2,975	2,630	1,400	2,580	1,200	10,020	2,820	R 2,300	R 33,111
July	1,546	1,740	508 512	3,200	3,075	2,625	1,400	2,580	1,200	10,015	2,820	R 2,300	R 33,009
August	1,548	1,840	512	3,100	3,175	2,625	1,450	2,640 R 2,460	1,200 1,200	10,015	2,820	R 2,300 R 2,300	R 33,225 R 32,911
September October	1,550 1,482	1,740 1,790	506 503	3,150 3,000	3,275 3,075	2,610 2,610	1,500 1,500	R 2,340	1,200	9,800 9,800	2,820 2,820	R 2,300	R 32,420
November	1,462	1,790	503 504	3,000	3,225	2,650	1,300	R 2,280	1,200	9,600	2,820	R 2,300	32,420
December	1,483	1,770	503	3,100	3,125	2,650	1,350	2,520	1,200	9,240	2,820	2,300	32,222
Average	1,532	1,817	504	3,367	2,983	2,635	1,367	2,520 2,520	1,216	9,832	2,804	2,300	32,877
A1010g0	.,002	.,011	304	0,001	_,505	2,000	.,501	2,520	.,2.0	5,002	2,004	2,500	52,011

^a Except for the period from August 1990 through May 1991, includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. In December 2012, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 520 thousand barrels per day. Data for Saudi Arabia include approximately 150 thousand barrels per day from the Abu Safah field produced on behalf of Bahrain.
^b See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC"

for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" 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

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	Non-OPE	Ca Producer	'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	15,278	1,553	2,774	873	2,553	1,630	10,975	NA	1,820	7,355	37,999	60,497
1995 Average	17,208	1,805	2,990	920	2,711	2,766		5,995	2,489	6,560	36,934	62,434
1996 Average	17,367	1,837	3,131	922	2,944	3,091		5,850	2,568	6,465	37,815	63,818
1997 Average	18,095	1,922	3,200	856	3,104	3,142		5,920	2,518	6,452	38,532	65,806
1998 Average	19,337	1,981	3,198	834	3,160	3,011		5,854	2,616	6,252	38,685	67,032
1999 Average	18,667	1,907	3,195	852	2,998	3,019		6,079	2,684	5,881	38,768	65,967
2000 Average	19,892	1,977	3,249	768	3,104	3,222		6,479	2,275	5,822	39,583	68,522
2001 Average	19,098	2,029	3,300	720	3,218	3,226		6,917	2,282	5,801	40,003	68,116
2002 Average	17,794	2,171	3,390	715	3,263	3,131		7,408	2,292	5,744	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	20,787	2,398	3,485	673	3,476	2,954		8,805	1,845	5,435	42,149	72,462
2005 Average	21,501	2,369	3,609	623	3,423	2,698		9,043	1,649	5,186	41,878	73,644
2006 Average	21,232	2,525	3,673	535	3,345	2,491		9,247	1,490	5,089	41,793	73,269
2007 Average	20,672	2,628	3,729	530	3,143	2,270		9,437	1,498	5,077	41,730	R 72,873
2008 Average	21,913	2,579	3,790	566	2,839	2,182		9,357	1,391	5,000	41,265	R 73,699
2009 Average	20,402	2,579	3,796	587	2,646	2,067		9,495	1,328	5,353	41,785	R 72,307
2010 January	20,471	2,499	3,971	579	2,660	2,060		9,615	1,379	5,399	42,159	R 72,928
February	20,750	2,714	3,940	578	2,655	2,038		9,648	1,274	5,546	42,558	R 73,622
March	20,781	2,621	3,973	577	2,641	1,983		9,683	1,429	5,513	42,753	R 73,827
April	21,007	2,693	3,953	576	2,639	1,967		9,646	1,378	5,377	42,552	R 73,803
May	21,025	2,742	4,049	576	2,639	1,921		9,691	1,297	5,398	42,624	R 73,832
June	21,604	2,770	4,105	575	2,592	1,611		9,727	1,076	5,384	42,090	R 73,940
July	21,634	2,762	4,060	575	2,618	1,864		9,710	1,055	5,313	42,338	R 74,209
August	21,669	2,779	4,104	574	2,604	1,648		9,623	1,070	5,445	42,215	R 74,133
September	21,755	2,646	4,187	574	2,615	1,637		9,725	1,194	5,608	42,491	R 74,441
October	21,284	2,688	4,186	573	2,615	1,952		9,816	1,195	5,596	42,795	R 74,312
November	21,510	2,937	4,281	573	2,556	1,868		9,723	1,248	5,558	43,138	^R 74,921 ^R 74,897
December	21,568	2,929	4,126	572	2,620	1,886		9,719	1,207	5,614	43,084	R 74,09 7
Average	21,257	2,732	4,078	575	2,621	1,869		9,694	1,233	5,479	42,567	
2011 January	22,026	2,869	4,238	572	2,632	1,905		9,769	1,316	R 5,504	R 43,009	R 75,396
February	21,934	2,906	4,188	571	2,602	1,861		9,773	1,085	R 5,398	R 42,604	R 74,586
March	21,952	2,854	4,160	570	2,620	1,808		9,753	1,073	R 5,609	R 42,705	R 73,513
April	22,170	2,848	4,127	569	2,621	1,874		9,795	1,164	R 5,560	R 42,508	R 73,447
May	22,220	2,564	4,106	568	2,603	1,607		9,818	1,017	R 5,628	R 41,718	R 72,684
June	22,920	2,664	4,017	567	2,592	1,660		9,770	1,018	R 5,591	R 41,789	R 73,403
July	23,120	2,916	3,956	566	2,580	1,737		9,837	946	R 5,418	R 41,839	R 73,700
August	23,270	3,067	4,027	565 564	2,598	1,714		9,832	767 890	^R 5,655 ^R 5.601	^R 42,270 ^R 41,673	^R 74,271 ^R 73,724
September	23,170	2,987	3,964		2,534	1,636		9,557		R 5,896	R 42,552	
October	22,920	3,030	3,926	563	2,598	1,756		9,902	998			R 74,269
November	23,220	3,021	4,006	562	2,573	1,764		9,595	1,039	^R 6,017 ^R 6,040	R 42,665	R 75,205
December Average	23,170 22,678	3,121 2,904	3,998 4,059	561 566	2,601 2,596	1,713 1,752		9,869 9,774	1,010 1,026	R 5,662	^R 42,979 ^R 42,360	^R 75,545 ^R 74,144
2012 January	23,070	3,105	4,089	560	2,562	1,761		9,894	999	RE 6,138	R 42,965	R 75,764
February	23,120	3,237	4,109	560	2,588	1,745		9,889	1,016	RE 6,222	R 42.835	^R 75,993
March	23,200	3.042	4.066	560	2,596	1.715		9.891	968	RE 6,318	R 42,614	R 75,788
April	23,180	3,145	4,111	560	2,586	1,720		9,861	981	RE 6,279	R 42,602	R 76,028
May	22,875	3,029	4,105	560	2,587	1,699		9,882	893	RE 6,302	R 42,357	R 75,365
June	23,030	2,994	4,015	556	2,584	1,583		9,861	949	E 6,228	42,029	R 75,140
July	22,970	3,097	4,010	554	2,568	1,553		9,882	954	RE 6,385	R 42,301	R 75,310
August	22,970	R 3,054	4,128	554	2,596	1,570		9,907	742	RE 6,300	R 42,059	R 75,284
September	22,890	R 3.002	4,242	553	R 2,599	1,309		9,941	609	RE 6,550	R 41,955	R 74,867
October	22,540	R 3,164	4,217	R 551	2,581	1,549		9,984	688	RE 6,913	R 43,023	^R 75,442
November	22,470	R 3,259	4,232	^R 551	2,618	1,517		10,048	865	RE 7.013	R 43,601	R 75,823
December	22,170	3,287	4.224	551	2,603	1,558		10,018	916	E 7,030	43.768	75,850
Average	22,872	3,117	4,129	556	2,589	1,607		9,922	881	E 6,474	42,676	75,553
	,	-,	,		,	,		- ,		- ,	,	- /

^a See "Organization of the Petroleum Exporting Countries (OPEC)" in Glossary. On Tables 11.1a and 11.1b, countries are classified as "OPEC" or "Non-OPEC" in all years based on their status in the most current year. For example, Ecuador rejoined OPEC in 2007, and is thus included in "Total OPEC" for all years; and Indonesia left OPEC at the end of 2008, and is thus included in "Total Non-OPEC" for all years.

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

for all years.

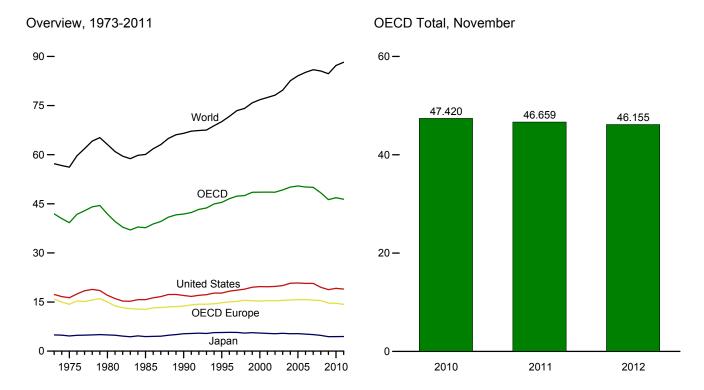
^b Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, United Arab Emirates, and the Neutral Zone (between Kuwait and Saudi Arabia).

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

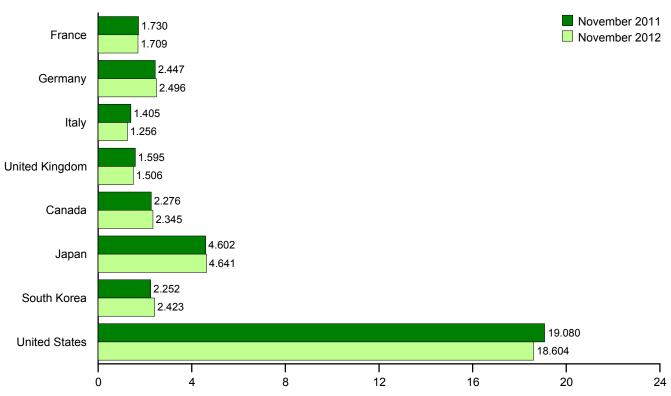
Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973.

Sources: See end of section.

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



By Selected OECD Country



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

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

	France	Carmanua	ltalı.	United	OECD	Canada	laman	South	United	Other	OECDd	World
	France	Germany ^a	Italy	Kingdom	Europeb	Canada	Japan	Korea	States	OECDc	OECD	world
1973 Average	2,601	3,324	2,068	2,341	15,879	1,729	4,949	281	17,308	1,768	41,913	57,237
1975 Average	2,252	2,957	1,855	1,911	14,314	1,779	4,621	311	16,322	1,885	39,232	56,198
1980 Average	2,256	3,082	1,934	1,725	14,995	1,873	4,960	537	17,056	2,449	41,870	63,113
1985 Average	1,753	2,651	1,705	1,617	12,772	1,514	4,436	552	15,726	2,699	37,699	60,083
1990 Average	1,826	2,682	1,868	1,776	13,762	1,722	5,315	1,048	16,988	3,040	41,875	66,533
1995 Average	1,920	2,882	1,942	1,816	14,762	1,799	5,693	2,008	17,725	3,452	45,439	70,099
1996 Average	1,949	2,922	1,920	1,852	15,055	1,853	5,739	2,101	18,309	3,509	46,566	71,714
1997 Average	1,969	2,917	1,934	1,810	15,195	1,940	5,702	2,255	18,620	3,629	47,342	73,464
1998 Average	2,043	2,923	1,943	1,792	15,500	1,931	5,507	1,917	18,917	3,757	47,529	74,117
1999 Average	2,031	2,836	1,891	1,811	15,409	2,016	5,642	2,084	19,519	3,844	48,514	75,833
2000 Average	2,000	2,767	1,854	1,765	15,276	2,014	5,515	2,135	19,701	3,902	48,543	76,788
2001 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
2002 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
2003 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
2005 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
2006 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
2007 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	15,457	2,225	4,795	2,142	19,498	4,237	48,355	85,554
2009 Average	1,868	2,453	1,544	1,641	14,667	2,153	4,406	2,188	18,771	4,095	46,280	84,741
2010 January	1,756	2,161	1,369	1,586	13,543	2,128	4,779	2,361	18,652	3,840	45,302	NA
February	1,955	2,454	1,535	1,688	14,798	2,256	5,002	2,383	18,850	4,217	47,506	NA
March	1,913	2,505	1,563	1,683	14,874	2,149	4,738	2,253	19,099	4,030	47,144	NA
April	1,845	2,260	1,520	1,646	14,274	2,180	4,327	2,249	19,044	4,120	46,193	NA
May	1,693	2,354	1,451	1,615	13,921	2,202	3,841	2,170	18,866	4,047	45,047	NA
June	1,836	2,510	1,578	1,599	14,757	2,346	3,967	2,177	19,537	4,200	46,984	NA
July	1,829	2,571	1,658	1,631	14,934	2,205	4,170	2,111	19,319	4,128	46,866	NA
August	1,741	2,547	1,506	1,643	14,535	2,378	4,388	2,221	19,662	4,007	47,191	NA
September	1,945	2,747	1,624	1,640	15,339	2,325	4,441	2,192	19,438	4,030	47,765	NA
October	1,753	2,622	1,532	1,667	14,942	2,249	4,035	2,225	18,974	4,007	46,432	NA
November	1,788	2,585	1,567	1,647	15,030	2,317	4,595	2,392	18,977	4,110	47,420	NA
December	1,939	2,324	1,630	1,526	14,621	2,360	5,005	2,495	19,722	4,204	48,407	NA
Average	1,831	2,470	1,544	1,630	14,627	2,258	4,437	2,268	19,180	4,077	46,847	87,251
2011 January	1,773	2,230	1,352	1,600	R 13,648	2,255	4,899	2,429	18,993	3,821	R 46,045	NA
February	1,916	2,433	1,554	1,652	R 14,809	2,315	5,067	2,349	18,873	4,261	R 47,675	NA
March	1,789	2,393	1,445	1,635	R 14,353	2,390	4,551	2,295	19,329	4,270	R 47,188	NA
April	1,747	2,258	1,461	1,621	R 13,942	2,144	3,994	2,011	18,650	4,079	R 44,820	NA
May	1,734	2,403	1,425	1,555	R 14,017	2,184	3,787	2,022	18,479	4,092	R 44,581	NA
June	1,786	2,270	1,510	1,687	R 14,441	2,340	3,943	2,112	19,253	4,218	R 46,307	NA
July	1,799	2,409	1,477	1,562	R 14,395	2,321	4,226	2,188	18,778	4,166	R 46,074	NA
August	1,804	2,638	1,400	1,617	R 14,657	2,456	4,425	2,212	19,415	4,230	R 47,395	NA
September	1,919	2,551	1,541	1,671	R 14,970	2,302	4,278	2,241	18,892	4,216	R 46,898	NA
October	1,777	2,508	1,465	1,578	R 14,346	2,190	4,394	2,216	18,844	4,016	R 46,006	NA
November	1,730	2,447	1,405	1,595	R 14,167	2,276	4,602	2,252	19,080	4,282	R 46,659	NA
December	1,737	2,262	1,423	1,531	R 13,755	2,298	5,429	2,436	18,803	4,317	R 47,038	NA R an an
Average	1,792	2,400	1,454	1,608	^R 14,287	2,289	4,464	2,230	18,949	4,163	^R 46,382	R 88,232
2012 January	1,745	2,133	1,263	1,440	13,079	2,167	5,161	2,366	18,280	R 4,112	R 45,164	NA
February	1,950	2,483	1,306	1,565	14,442	2,163	5,550	2,410	18,760	4,287	47,611	NA
March	1,725	2,219	1,316	1,614	13,686	2,384	5,156	2,153	18,213	4,342	45,934	NA
April	1,686	2,231	1,293	1,600	13,546	2,299	4,390	2,099	18,330	4,133	44,796	NA
May	1,671	2,305	1,304	1,517	13,603	2,364	4,367	2,181	18,707	4,207	45,430	NA
June	1,780	2,466	1,367	1,526	14,097	2,301	4,129	2,304	18,915	4,188 R 4 100	45,934 R 45,705	NA
July	1,800	2,425	1,380	1,507	13,978	2,368	4,372	2,196	18,601	^R 4,190 ^R 4,343	^R 45,705 ^R 46.566	NA
August	1,663	2,285	1,328	1,475	13,637 R 12,757	2,495	4,629	2,235	19,226			NA
September	1,726	2,339	1,315	1,525	R 13,757	R 2,276	4,443	2,265	18,173	4,056	R 44,969	NA
October	1,807	2,510	1,357	R 1,422	R 14,114	R 2,227	4,422	2,199	18,722	R 4,327	R 46,012	NA
November 11-Month Average	1,709 1,750	2,496 2,353	1,256 1,317	1,506 1,518	13,803 13,791	2,345 2,309	4,641 4,658	2,423 2,256	18,604 18,594	4,340 4,230	46,155 45,837	NA NA
	•				,				,			
2011 11-Month Average 2010 11-Month Average	1,797 1,822	2,413 2,483	1,456 1,536	1,615 1,640	14,336 14,627	2,288 2,248	4,375 4,384	2,211 2,247	18,963 19,130	4,149 4,065	46,322 46,702	NA NA

^a Data are for unified Germany, i.e., the former East Germany and West

R=Revised. NA=Not available.

Notes:
• Totals may not equal sum of components due to independent

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;

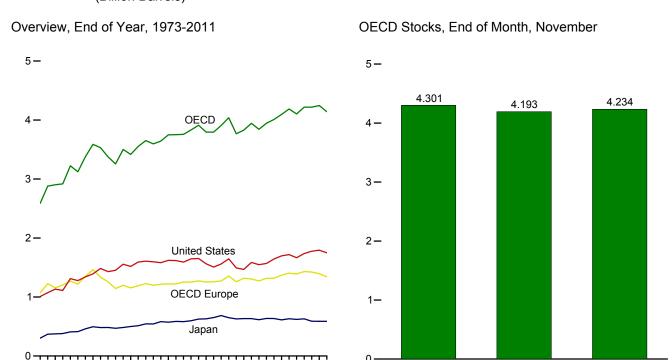
Office Occol Consists of Australia, New Zealand, and the U.S. Tehnlones, for 1984 forward, Mexico; and, for 2000 forward, Chile, Estonia, and Israel.
^d The Organization for Economic Cooperation and Development (OECD) consists of "OECD Europe," Canada, Japan, South Korea, the United States, and "Other OECD."

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

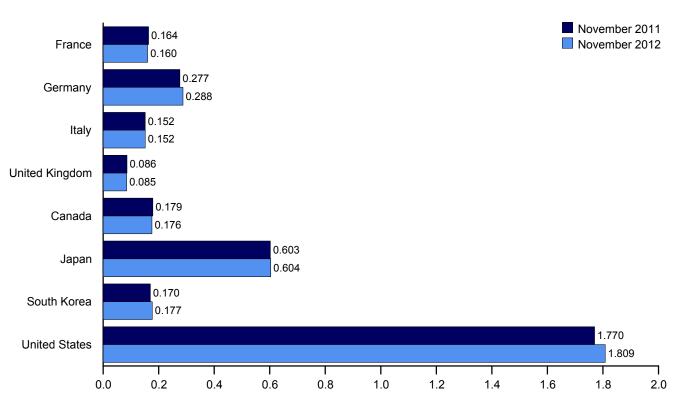
Columbia. Web Page: See http://www.eia.gov/totalenergy/data/monthly/#international for all available data beginning in 1973.

Sources: • United States: Table 3.1. • Chile, East Germany, Former Czechoslovakia, Hungary, Mexico, Poland, South Korea, Non-OECD Countries, U.S. Territories, and World: 1973-1979—U.S. Energy Information Administration (EIA), International Energy Database. • Countries Other Than United States: 1980-2008—EIA, International Energy Statistics (IES). • OECD Countries, and U.S. Territories: 2009 forward—EIA, ISD. • World: 2009 forward—EIA, Short Term Energy Outlook, March 2013, Table 3a. • All Other Data:—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues.

Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)



By Selected OECD Country, End of Month



Note: OECD is the Organization for Economic Cooperation and Development. Web Page: http://www.eia.gov/totalenergy/data/monthly/#international. Source: Table 11.3.

Table 11.3 Petroleum Stocks in OECD Countries

(Million Barrels)

	France	Germanya	Italy	United Kingdom	OECD Europe ^b	Canada	Japan	South Korea	United States	Other OECD ^c	OECD ^d
	Trance	Germany	italy	Killguolii	Luiopes	Canaua	Japan	Rolea	States	OLCD	OLOD-
1973 Year	201	181	152	156	1,070	140	303	NA	1,008	67	2,588
1975 Year	225	187	143	165	1,154	174	375	NA	1,133	67	2,903
1980 Year	243	319	170	168	1,464	164	495	NA	1,392	72	3,587
1985 Year	139	277	156	131	1,154	112	500	13	1,519	119	3,417
1990 Year	143	280	171	103	1,222	143	572	64	1,621	126	3,749
1995 Year	155	302	162	101	1,256	132	631	92	1,563	122	3,795
1996 Year	154	303	152	103	1,259	127	651	123	1,507	127	3,794
1997 Year	161	299	147	100	1,271	144	685	124	1,560	123	3,907
1998 Year 1999 Year	169 160	323 290	153 148	104 101	1,355 1.258	139 141	649 629	129 132	1,647 1.493	120 114	4,039 3.766
2000 Year	170	290 272	157	100	1,236	141	634	140	1,493	126	3,829
2000 Tear	165	273	151	113	1,306	154	634	143	1,586	120	3,944
2002 Year	170	253	156	104	1,273	155	615	140	1,548	112	3,843
2003 Year	179	273	153	100	1,316	165	636	155	1,568	105	3,945
2004 Year	177	267	154	101	1,319	154	635	149	1,645	108	4.010
2005 Year	185	283	151	95	1.371	168	612	135	1.698	112	4.095
2006 Year	182	283	153	103	1,404	169	631	152	1,720	113	4,187
2007 Year	180	275	152	92	1,389	163	621	143	1,665	121	4,103
2008 Year	179	279	148	93	1,431	162	630	135	1,737	124	4,218
2009 Year	175	284	146	89	1,424	157	589	155	1,776	117	4,218
2010 January	182	295	147	91	1,464	160	593	162	1,786	122	4,287
February	175	290	153	93	1,447	161	587	163	1,785	128	4,271
March	172	289	149	88	1,428	167	581	164	1,787	127	4,255
April	172	284	155	90	1,439	168	590	166	1,810	123	4,296
May	173	286	150	94	1,446	164	599	166	1,830	120	4,326
June	170	280	153	90	1,429	166	597	167	1,842	131	4,332
July	168	282	146	90	1,412	173	598	170	1,855	127	4,335
August	171	289	153	87	1,429	182	597	169	1,862	127	4,365
September	163	286	146	89	1,389	180	582	174	1,861	123	4,308
October	161 170	285 287	152 148	88 86	1,401 1,393	183	599 604	170 171	1,847	125	4,324
November December	170 168	287 287	153	83	1,395	184 184	588	165	1,827 1,794	121 119	4,301 4,245
December	100	201	133	03	1,393	104	300	103	1,794	119	4,243
2011 January	173	291	160	90	1,435	174	596	168	1,809	117	4,299
February	170	288	151	89	1,405	169	591	162	1,780	121	4,229
March	167	286	152	87	1,394	172	575	170	1,776	116	4,203
April	163	291	152	89	1,383	179	601	173	1,779	123	4,237
May	168	288	149	85	1,382	177	599	170	1,807	122	4,257
June	167 164	286 290	151 151	79 81	1,376 1,366	177 177	593 599	175 173	1,809	120 122	4,250 4,253
July August	162	283	152	83	1,370	177	598	173	1,816 1,796	123	4,233
September	160	277	150	78	1,349	176	601	174	1,781	119	4,233
October	165	278	150	79	1,338	178	599	174	1,769	118	4,176
November	164	277	152	86	1,354	179	603	170	1,770	116	4,193
December	165	279	148	80	1,342	178	589	167	1,750	116	R 4,141
2012 January	166	284	152	84	1.366	178	594	164	1.772	119	4.192
February	165	283	151	84	1,363	180	583	171	1,765	110	4,173
March	165	281	152	82	1,374	175	580	164	1,778	113	4,183
April	163	280	151	85	1,365	176	592	174	1,777	115	4,198
May	162	281	150	82	1,347	172	597	183	1,794	117	4,209
June	164	280	148	82	R 1,351	171	601	177	1,808	112	4,220
July	163	286	146	80	1,361	173	608	181	1,809	117	4,249
August	168	285	152	_ 82	1,379	^R 176	603	179	1,801	115	R 4,253
September	164	284	157	^R 75	R 1,360	177	606	184	1,818	_ 118	4,263
October	160	^R 284	154	^R 75	^R 1,342	^R 177	614	180	1,810	^R 115	^R 4,237
November	160	288	152	85	1,357	176	604	177	1,809	111	4,234

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

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

Sources: • United States: Table 3.4. • U.S. Territories: 1983 forward—U.S. Energy Information Administration, International Energy Database.

• All Other Data: 1973-1982—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances, various issues. 1983—IEA, Monthly Oil and Gas Statistics Database. 1984 forward—IEA, Monthly Oil Data Service, February 13, 2012.

^a Through December 1983, the data for Germany are for the former West Germany only. Beginning with January 1984, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, 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,

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

¹⁹⁸⁴ forward, Mexico; and, for 2000 forward, Chile, Estonia, and Israel.

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

International Petroleum

Tables 11.1a and 11.1b Sources

United States

Table 3.1.

All Other Countries and World, Annual Data

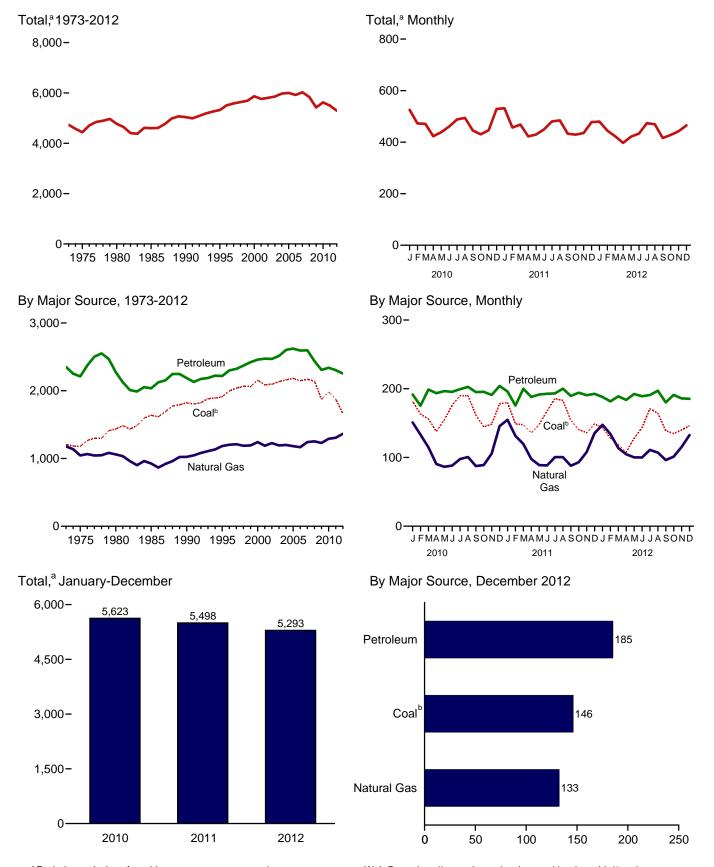
1973–1979: U.S. Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8. 1980 forward: EIA, International Energy Database, March 2013.

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, March 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.

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

^b Includes coal coke net imports.

Carbon Dioxide Emissions From Energy Consumption by Source Table 12.1

		1	Petroleum											
								Petrole	um	ı	ı			
	Coalb	Natural Gas ^c	Aviation Gasoline	Distillate Fuel Oil ^d	Jet Fuel	Kero- sene	LPG ^e	Lubri- cants	Motor Gasoline ^f	Petroleum Coke	Residual Fuel Oil	Otherg	Total	Total ^{h,i}
1973 Total 1975 Total 1980 Total 1985 Total 1995 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2007 Total 2007 Total 2008 Total 2008 Total	1,207 1,181 1,436 1,638 1,821 1,913 1,995 2,040 2,062 2,062 2,088 2,095 2,160 2,182 2,147 2,172 2,139 1,876	1,178 1,046 1,061 926 1,024 1,183 1,204 1,219 1,193 1,193 1,188 1,227 1,193 1,200 1,183 1,200 1,183 1,168 1,243 1,253 1,253	65 44 33 33 33 32 22 22 22 22 22 22 22 22 22	480 443 446 445 470 498 525 534 538 555 580 598 587 610 632 640 648 652 615 564	155 146 156 178 223 222 234 238 245 254 243 237 240 246 240 238 226 204	32 24 24 17 6 8 9 10 11 6 8 8 10 10 8 5 2	92 82 87 87 80 86 87 82 90 97 88 91 87 87 84 80 87 87 88	13 11 13 12 13 13 12 13 14 14 14 13 12 11 12 12 12 11 10	911 911 900 930 988 1,044 1,063 1,075 1,107 1,135 1,151 1,183 1,183 1,214 1,214 1,224 1,227 1,166 1,157	54 51 49 54 70 76 79 80 93 96 86 89 96 107 106 100 93 87	508 443 453 216 220 152 152 142 158 148 163 144 125 138 155 165 122 129 111	100 97 142 93 127 121 139 145 128 133 118 135 130 144 143 150 132	2,350 2,212 2,275 2,036 2,187 2,216 2,302 2,323 2,372 2,459 2,474 2,470 2,603 2,623 2,523 2,596 2,437 2,307	4,735 4,439 4,771 4,600 5,039 5,323 5,510 5,685 5,688 5,761 5,804 5,855 5,975 5,975 5,999 5,920 6,023 5,841 R 5,424
Petron January	182 163 156 138 155 176 190 190 161 145 148 178 1,982	151 133 115 90 86 88 98 101 88 106 146 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 17 18 19 19 19 18 18 17 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) 1	9 8 7 5 5 6 6 6 7 7 9	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 8 7 6 7 8 8 6 7 7	9 7 8 9 8 7 8 7 8 8 9	9 9 11 11 11 10 10 11 10 9 10 10	192 175 199 194 197 196 203 195 196 191 204 2,339	525 473 471 423 438 461 488 494 445 430 446 529 5,623
Pebruary	180 149 148 136 148 168 186 183 154 141 136 149	155 131 120 98 89 88 101 101 88 93 108 135 1,306	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	52 47 53 48 49 50 47 53 50 53 52 51 603	17 15 17 18 18 19 18 19 17 17 17 17	(s) 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	10 8 8 6 6 6 6 7 6 7 8 9	1 1 1 1 1 1 1 1 1 1 1	91 84 95 92 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 82	10 8 11 10 8 9 11 10 10 11 10 11	196 176 200 188 192 193 200 190 194 191 193 2,304	532 457 468 R 422 430 450 R 480 485 R 432 429 435 478 5,498
Petron June 1	143 128 119 108 128 143 171 164 139 135 140 146 1,664	148 134 114 105 100 100 111 107 96 101 115 133 1,364	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	50 49 49 47 49 47 47 49 47 50 50 46 579	16 16 17 16 18 19 18 17 17 17 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	8 8 7 6 7 6 7 7 8 8 9	1 1 1 1 1 1 1 1 1 1 1	89 87 93 92 97 94 95 99 90 94 89 90 1,110	7 5 6 7 7 6 6 7 7 7	6 6 6 4 5 6 5 4 4 4 3 6 1	11 10 9 9 9 10 10 11 11 8 11 11 13	188 182 189 184 192 189 191 197 180 191 186 185 2,254	480 445 422 397 421 433 474 470 416 428 442 465 5,293

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

^b Includes coal coke net imports.

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

Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary.

• See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section.

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

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

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

Sources: See end of section.

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

Liquefied petroleum gases.

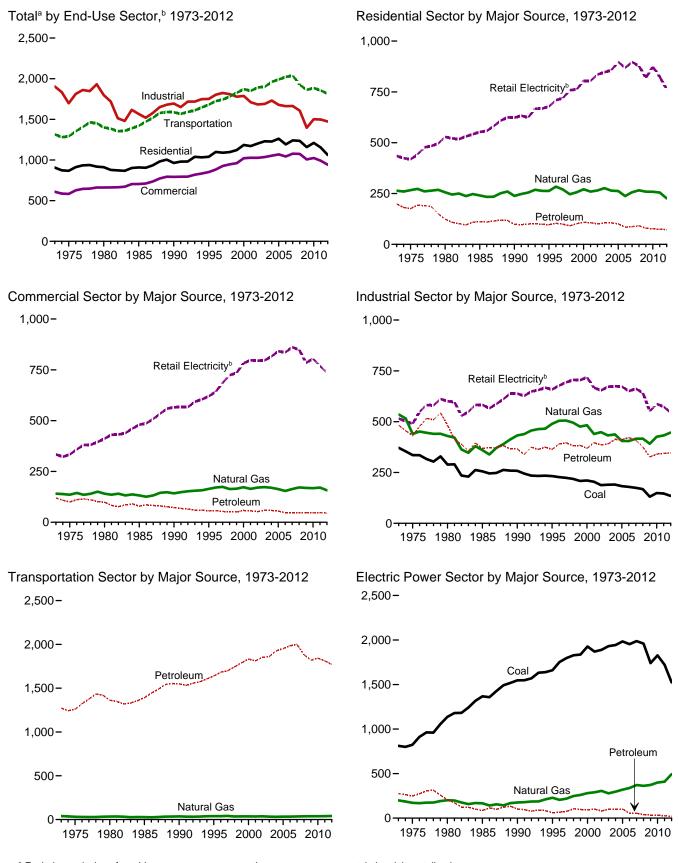
Finished motor gasoline, excluding fuel ethanol.

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

h Includes electric power sector use of geothermal energy and non-biomass waste. See Table 12.6.

Excludes emissions from biomass energy consumption. See Table 12.7.

Figure 12.2 Carbon Dioxide Emissions From Energy Consumption by Sector (Million Metric Tons of Carbon Dioxide)



^a Excludes emissions from biomass energy consumption.

total electricity retail sales.

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

^b Emissions from energy consumption in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of

Table 12.2 Carbon Dioxide Emissions From Energy Consumption: Residential Sector

				Petrole	eum			
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Total	Retail Elec- tricity ^e	Total ^f
1973 Total1975 Total	9 6	264 266	147 132	16 12	36 32	199 176	435 419	907 867
1980 Total	3	256	96	8	20	124	529	911
1985 Total	4	241	80	11	20	111	553	909
1990 Total	3	238	72	5	22	98	624	963
1995 Total	2	263	66	5	25	96	678	1,039
1996 Total	2	284	68	<u>6</u>	30	104	710	1,099
1997 Total	2	270 247	64 56	7 8	29 27	99 91	719 759	1,090 1,097
1998 Total 1999 Total	1	247 257	61	8	33	102	762	1,097
2000 Total	1	271	66	7	35 35	102	805	1,122
2001 Total	i	259	66	7	33	106	805	1,172
2002 Total	i	265	63	4	34	101	835	1,203
2003 Total	1	276	66	5	34	106	847	1,230
2004 Total	1	264	68	6	32	106	856	1,228
2005 Total	1	262	62	6	32	101	897	1,261
2006 Total	1	237	52	5	28	85	869	1,192
2007 Total	1	257	53	3	31	_ 87	897	1,241
2008 Total	1	266	R 55	2	35	R 92	878	R 1,236
2009 Total	1	259	R 43	2	35	R 79	819	R 1,158
2010 January	(s)	51	6	(s)	3	R 9	91	151
February	(s)	43 31	R 5 R 3	(s)	3 3	9 R 6	74	R 125
March	(s) (s)	17	2	(s)	2	5	65 51	103 ^R 72
April		11	3	(s)	2	5 5	59	75
May June	(s) (s)	7	3	(s) (s)	2 2	5 6	79	75 92
July	(s)	6	2	(s)	3	5	97	108
August	(s)	6	2	(s)	3	5	96	107
September	(s)	6	2	(s)	3	5	72	83
October	(s)	11	3	(s)	3	6	56	73
November	(s)	24	3	(s)	3	R 6	56	87
December	(s)	46	6	(s)	3	R9	81	137
Total	1	259	R 41	2	33	R 77	875	R 1,211
2011 January	(s)	52	_ 5	(s)	4	R 8	87	148
February	(s)	42	R 4	(s)	3	8 7	67	R 116
March	(s)	33	R ₃	(s)	3		59	98
April	(s)	19 11	R ₂	(s)	3	5 4	53 57	^R 76 73
May June	(s) (s)	7	2 R 2	(s) (s)	3	5	75	R 87
July	(s)	6	2	(s)	3	5	95	106
August	(s)	6	3	(s)	3	6	92	104
September	(s)	7	3	(s)	3	6	68	81
October	(s)	12	R3	(s)	3	R 6	53	72
November	(s)	23	4	(s)	3	7	53	83
December	(s)	37	R ₅	(s)	3	9	66	R 112
Total	1	255	R 38	1	35	R 75	823	^R 1,154
2012 January	(s)	43	R 5	(s)	3	R 8	69	R 120
February	(s)	36	R4	(s)	3	R7	58	R 101
March	(s)	22	4	(s)	3	R 6	51	R 79
April	(s)	15	3	(s)	3	R 5 R 5	45	R 65
May	(s)	9 7	3 3	(s)	3	R 5	55 69	70 ^R 81
June	(s) (s)	6	R 2	(s) (s)	3	R 5	93	^ 81 104
July August	(S)	6	R 3	(S) (S)	3	R 6	85 85	R 97
September	(s)	6	R 2	(s)	3	R 5	65	77
October	(s)	13	R 2	(s)	3	R 5	54	R 72
November	(s)	26	3	(s)	3	6	57	89
December	(s)	36	3	(s)	3	6 7	65	108

^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.

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.

Equation performs gases.

Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.

Excludes emissions from biomass energy consumption. See Table 12.7.

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

Table 12.3 Carbon Dioxide Emissions From Energy Consumption: Commercial Sector

	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Kerosene	LPG ^d	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1980 Total 1985 Total 1990 Total 1995 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 2008 Total 2008 Total	15 14 11 13 12 11 12 12 9 9 9 9 8 10 9 6 7 7	141 136 141 132 142 164 171 174 165 173 164 170 173 170 163 154 164 171 169	47 43 38 46 39 35 35 32 31 32 36 37 32 35 34 33 29 28 R 28	5 4 3 2 1 2 2 2 2 2 2 2 1 1 1 1 2 1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	9 8 6 6 7 8 8 7 9 9 9 10 10 8 8 8 10 9	6 8 7 8 1 2 3 3 2 3 3 3 4 3 3 3 4 3 3 4 3 4 4 3 4 4 4 4	NA AA A O (S)	52 39 44 18 11 11 9 7 6 7 6 9 10 9 6 6	120 100 98 79 73 56 57 54 51 58 57 52 59 58 55 48 47 R 47	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 R 1,075
2010 January February March April May June July August September October November December Total	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s)	27 24 18 12 9 7 7 7 7 7 10 16 25	4 R2 2 2 2 2 2 1 2 2 4 8	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) 0 0 (s) (s) (s) (s) (s)	1 1 (s)	6 6 4 3 3 8 3 3 8 3 8 4 6 8 8	66 60 59 57 66 74 80 81 69 63 61 68	R 100 R 90 82 R 72 78 85 90 91 79 R 76 81 R 99
2011 January February March April May June July August September October November December Total	1 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	29 23 20 13 9 7 7 7 8 11 15 21	4 R 3 3 2 1 2 2 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 1 1 1 1 1 1 1 1 1	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	(s) (s) (s) 0 0 0 0 0 0 0 (s) (s) (s)	1 R (S)	R 5 5 4 3 2 3 3 4 4 4 4 4 6 6 R 47	65 55 58 57 63 70 79 77 66 61 57 60 769	R 99 85 83 73 75 81 89 77 77 77 87 87
2012 January February March April May June July August September October November December Total	(s) (s) (s) (s) (s) (s) (s) (s) (s) 1	24 21 14 11 8 7 7 7 8 11 R 17 21 157	4 3 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R (S) R (S) S (S) S (S) S (S) S (S) S (S) S (S) S (S) S (S)	6 F 4 R 3 R 3 R 3 R 3 A 4 3 3 4 4 4 45	57 53 52 51 61 66 77 74 64 61 60 59 735	R 87 80 71 66 R 72 77 87 85 75 R 76 R 80 85 942

Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 Natural gas, excluding supplemental gaseous fuels.
 Distillate fuel oil, excluding biodiesel.
 Liquefied petroleum gases.
 Finished motor gasoline, excluding fuel ethanol.

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

Notes: • Data are estimates for carbon dioxide emissions from energy consumption. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

Sources: See end of section.

Table 12.4 Carbon Dioxide Emissions From Energy Consumption: Industrial Sector

		Coal						Petroleun	n					
	Coal	Coke Net Imports	Natural Gas ^b	Distillate Fuel Oil ^c	Kero- sene	LPG ^d	Lubri- cants	Motor Gasoline ^e	Petroleum Coke	Residual Fuel Oil	Other ^f	Total	Retail Elec- tricity ^g	Total ^h
1973 Total	371 336 289 256 258 233 227 224 219 208 211 204 188 190 191 183 179 175 168 131	-1 2 -4 -2 1 7 3 5 8 7 7 6 6 16 5 7 3 3 -2 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3 -3	536 440 429 360 432 489 505 505 495 475 483 440 448 432 437 405 405 417 391	106 97 96 81 84 82 87 88 88 86 87 95 88 83 88 92 92 92 92 87	11 9 13 3 1 1 1 1 1 2 1 2 2 3 2 2 (s) (s)	44 399 61 59 37 48 50 47 52 45 47 42 43 43 43 32 33	7 6 7 7 6 7 7 7 7 7 6 6 6 6 6 6 6 6 6 6	18 16 11 15 13 14 14 15 14 11 11 21 22 23 26 25 26 21 17	52 51 48 67 67 71 70 80 85 76 79 79 78 84 84 81 84 82 77	144 117 105 57 31 25 24 21 16 14 17 14 13 16 18 20 16 13 R 13 R 9	100 97 142 93 127 121 139 145 128 133 118 130 142 144 143 152 152	483 431 483 369 366 364 391 396 382 383 369 396 390 413 412 421 421 421 8376 8326	515 490 601 583 638 659 678 694 704 719 667 672 673 650 660 662 551	1,904 1,697 1,798 1,566 1,695 1,751 1,803 1,824 1,803 1,778 1,788 1,718 1,690 1,731 1,662 1,662 1,667 R 1,396
Pebruary	12 12 13 12 12 12 13 13 13 14 13	(s) (s) (s) (s) (s) (s) (s) (s) (s) -1	39 36 37 34 34 33 34 34 35 36 40 426	6698655797899R884	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	4 3 2 2 2 2 2 2 2 3 3 4 35	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R1 R1 R1 2 2 2 2 R1 2 R1 2 R1 2 R1	4 4 6 6 5 6 6 7 7 5 6 6 6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9 9 11 11 11 10 10 11 10 9 10 10	R 26 26 32 R 29 27 R 26 25 30 R 30 27 R 29 32	46 44 46 45 51 52 54 55 48 47 48 50 587	124 119 128 121 124 125 132 125 121 R 125 134 R 1,502
Petron January	13 12 13 12 12 12 12 12 12 12 12 13 147	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	40 36 38 35 35 33 34 35 34 36 37 40 432	9 7 10 7 7 7 7 7 8 9 6 8	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	5 4 3 3 3 3 3 3 4 4 4 41	(S) (S) 1 (S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 R1 R1 R1 R1 R1 R1 R1 R1 R1 R1	5 4 5 5 7 5 7 5 6 6 3 63	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 8 11 10 8 9 11 10 10 11 10 11	32 25 33 28 27 27 R 26 30 28 R 30 32 26	48 42 46 45 48 50 54 53 47 47 46 45 574	133 R 117 130 120 123 122 125 R 131 R 122 125 126 124 R 1,498
Page 1 Pa	12 12 12 11 11 11 11 11 12 11 11 135	(s) (s) (s) 1 (s) (s) (s) (s) (s) (s) (s) (s) (s)	41 38 37 36 36 35 36 36 36 37 38 40 447	R 10 R 8 R 10 R 8 R 10 R 8 R 10 R 10 R 1	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	4 4 3 3 3 3 3 3 4 4 4 4 4	(S) (S) (S) (S) (S) (S) (S) (S) (S) (S)	1 R1 R1 2 R1 R1 R1 1 R1 1 1	5 4 5 5 6 6 5 7 6 6 6 6 6 6 6	1 R 1 1 R 1 R 1 R 1 (s) (s) (s) (s) 7	11 10 9 9 9 10 10 11 8 11 11 13	R 31 30 R 28 R 27 R 29 R 26 R 29 R 26 R 31 R 31 R 32	43 42 41 41 46 47 52 50 45 46 46 44 545	R 126 R 122 R 120 R 115 R 122 R 120 R 125 R 127 R 127 R 126 126 126 1,473

a Metric tons of carbon dioxide can be converted to metric tons of carbon Metric toris of carbon disorder can be converted equivalent by multiplying by 12/44.
 Natural gas, excluding supplemental gaseous fuels.
 Distillate fuel oil, excluding biodiesel.

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 including the nonfuel use of fossil fuels. See "Section 12 Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia

and the District of Columbia.

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

Sources: See end of section.

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

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.

Be Emissions from energy consumption (for electricity and a small amount of useful thermal output) in the electric power sector are allocated to the end-use sectors in proportion to each sector's share of total electricity retail sales. See Tables 7.6 and 12.6.

Excludes emissions from biomass energy consumption. See Table 12.7.

Table 12.5 Carbon Dioxide Emissions From Energy Consumption: Transportation Sector

			Petroleum									
	Coal	Natural Gas ^b	Aviation Gasoline	Distillate Fuel Oil ^c	Jet Fuel	LPG ^d	Lubri- cants	Motor Gasoline ^e	Residual Fuel Oil	Total	Retail Elec- tricity ^f	Total ^g
1973 Total 1975 Total 1980 Total 1985 Total 1990 Total 1990 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 2000 Total 2001 Total 2001 Total 2002 Total 2002 Total 2003 Total 2004 Total 2005 Total 2006 Total 2007 Total 2007 Total 2008 Total 2008 Total 2008 Total 2008 Total	(s) (s) (hhhhhhhhhhhhhhhhhhhhhhhhhhhhhhh	39 32 34 28 36 38 39 41 35 36 36 35 37 33 33 33 33 35 37	6543333322332222222222222222222222222222	163 155 204 232 268 307 327 342 352 366 378 387 394 414 434 444 469 472 R 427	152 145 155 178 223 222 234 238 245 254 243 237 231 240 246 240 238 226 204	3 3 1 2 1 1 1 1 1 1 1 1 1 1 1 1 2 1 2 1	666676666777766666556555	886 889 881 908 967 1,029 1,047 1,057 1,090 1,115 1,127 1,158 1,161 1,185 1,186 1,194 1,201 1,146 1,137	57 56 110 62 80 72 67 56 53 52 70 46 53 45 58 66 71 78 8	1,273 1,258 1,363 1,391 1,548 1,639 1,683 1,743 1,749 1,833 1,813 1,851 1,861 1,926 1,953 1,984 1,999 R 1,882	2223333333444555555555555	1,315 1,292 1,400 1,421 1,588 1,681 1,725 1,744 1,782 1,828 1,872 1,852 1,899 1,962 1,991 2,020 2,040 R 1,924 R 1,863
2010 January February March April May June July August September October November December Total	(h h) (h h h h h h h h h h h h h h h	4 4 3 3 3 3 3 3 3 3 3 3 3 4 4 38	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	31 30 8 36 8 36 8 37 8 37 38 39 37 37 35 8 36 8 36 8 429	17 15 18 17 18 19 19 19 18 18 17 17	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	91 82 94 94 97 R 96 99 98 94 R 96 90 94 R 1,125	6567656566666 R 70	R 146 133 154 154 159 156 162 R 162 155 157 149 R 154 R 1,843	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 151 R 138 R 158 R 157 R 162 R 160 165 R 158 160 R 153 R 159 R 1,886
2011 January	(5 4 4 3 3 3 3 3 3 3 3 3 4 4 39	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 34 31 R 37 36 38 38 38 40 37 38 40 37 38 8 40 37	17 15 17 18 18 19 17 17 17 17 209	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) 1 (s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	89 82 93 R 91 93 93 96 94 90 92 87 92 R 1,093	6655553465556 R R 61	R 147 135 R 154 150 R 156 156 157 158 150 152 R 146 150 R 1,811	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 152 139 R 158 R 155 R 159 159 160 R 162 153 R 156 R 150 R 155 R 1,855
2012 January	(h h) (h h h) (h h h) (h h h) (h h h h	4 4 3 3 3 3 3 3 3 3 3 3 4 4	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	32 R 32 R 34 35 37 R 36 R 37 38 R 35 R 37 35 34	16 16 17 16 18 19 18 17 17 17 206	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	87 R 86 R 92 P 91 95 93 R 94 97 88 92 R 88 89 1,089	5 4 5 5 3 4 5 4 3 3 3 3 2 45	141 R 138 149 147 154 R 152 R 152 R 157 144 150 R 143 142 1,771	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	R 146 142 152 151 157 R 155 R 155 R 158 161 R 147 153 147 146 1,816

Metric tons of carbon dioxide can be converted to metric tons of carbon equivalent by multiplying by 12/44.
 Natural gas, excluding supplemental gaseous fuels.
 Distillate fuel oil, excluding biodiesel.
 Liquefied petroleum gases.
 Finished motor gasoline, excluding fuel ethanol.
 Finished motor gasoline, excluding fuel ethanol.

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

Notes: • Data are estimates for carbon dioxide emissions from energy consumption, including the nonfuel use of fossil fuels. See "Section 12 Methodology and Sources" at end of section. • See "Carbon Dioxide" in Glossary. • See Note 1, "Emissions of Carbon Dioxide and Other Greenhouse Gases," at end of section. • Data exclude emissions from biomass energy consumption. See Table 12.7 and Note 2, "Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion," at end of section. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

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

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

Sources: See end of section.

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.

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

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

				Petro	eum				
	Coal	Natural Gas ^b	Distillate Fuel Oil ^c	Petroleum Coke	Residual Fuel Oil	Total	Geo- thermal	Non- Biomass Waste ^d	Totale
1973 Total	812	199	20	2	254	276	NA NA	NA	1,286
1975 Total	824	172	17	(s)	231	248	NA	NA	1,244
1980 Total	1,137	200	12	(5)	194	207	NA NA	NA	1,544
1985 Total	1,367	166	1 6	i	79	86	NA NA	NA	1,619
1990 Total	1,548	176	7	3	92	102	(s)	6	1,831
1995 Total	1,661	228	8	8	45	61	(s)	10	1,960
1996 Total	1.752	205	8	8	50	66	(s)	10	2.033
1997 Total	1,752	203 219	8	10	56	75	(s)	10	2,033
	1,828	248	10	13	82	105) }	10	2,101
1998 Total	1,836	260	10	11	76	97	\ \ <u>\</u>	10	2,192
1999 Total		281			69	91	(S)		
2000 Total	1,927		13	10			(s)	10	2,310
2001 Total	1,870	290	12	11	79	102	(S)	11	2,273
2002 Total	1,890	306	9	18	52	79	(s)	13	2,288
2003 Total	1,931	278	12	18	69	98	(s)	11	2,319
2004 Total	1,943	297	8	23	69	100	(s)	11	2,352
2005 Total	1,984	319	8	25	69	102	(s)	11	2,417
2006 Total	1,954	338	5	22	28	56	(s)	12	2,359
2007 Total	1,987	372	7	17	31	55	(s)	11	2,426
2008 Total	1,959	362	5	16	19	40	(s)	12	2,374
2009 Total	1,741	373	5	14	14	34	(s)	11	2,159
2010 January	170	30	1	1	1	4	(s)	1	204
February	150	26	(s)	1	1	2	(s)	1	179
March	143	25	(s)	1	1	2	(s)	1	171
April	125	25	(s)	1	1	2	(s)	1	154
May	142	30	(s)	1	1	3	(s)	1	176
June	163	38	1 1	1	2	4	(s)	1	206
July	177	48	1	2	2	4	l (s)	1	231
August	177	51	(s)	1	2	3	l (s)	1	232
September	148	38	(s)	1	1	2	l (s)	1	189
October	132	31	(s)	1	1	2	(s)	1	166
November	136	27	(s)	1	1	2	(s)	1	166
December	165	31	1 (0)	i	i	3	(s)	i	200
Total	1,828	399	6	15	12	33	(s)	11	2,271
2011 January	166	29	1	2	1	3	(s)	1	200
February	136	26	(s)	1	1	2	(s)	1	165
March	134	26	(s)	2	1	3	l (s)	1	163
April	124	28	(s)	1	1	2	l (s)	1	155
May	135	31	(s)	1	1	2	l (s)	1	169
June	155	38	(s)	1	1	2	l (s)	1	196
July	174	51	(s)	2	1	3	(s)	1	228
August	170	50	(s)	1	i	2	(s)	1	223
September	141	37	(s)	i	(s)	2	(s)	1	181
October	128	31	(s)	i	(s)	2	(s)	i	162
November	124	29	(s)	i	(s)	2	(s)	i	155
December	136	33		i	(s)	2	(s)	i	172
Total	1,723	409	5	15	7	27	(s)	11	2,170
2012 January	131	35	(s)	1	1	2	(s)	1	169
February	116	35	(s)	i	(s)	2	(s)	i	153
March	106	37	(s)	i	(s)	1	\s\	i	145
April	96	39	(s)	(s)	(s)	i	(s)	i	137
May	116	44	(s)	1	(s)	i	(s)	i	163
June	132	48	(s)	1	(3)	2	\}\	1	183
	160	46 59		1	1	2	\}	1	222
July		59 54	(s)	1	1	2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1	
August	153		(s)	Ţ	T (-)		(S)	1	210
September	128	44	(s)	1	(s)	2	(s)	1	174
October	123	36	(s)	1	(s)	1	(s)	1	162
November	129	31	(s)	1	(s)	1	(s)	1	163
December	135	32	(s)	1	(s)	1	(s)	1	169
Total	1,524	494		9	6	19	(s)	11	2,048

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

b Natural gas, excluding supplemental gaseous fuels.
c Distillate fuel oil, excluding biodiesel.
d Municipal solid waste from non-biogenic sources, and tire-derived fuels.
e Excludes emissions from biomass energy consumption. See Table 12.7.
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						
	Woodb	Biomass Waste ^c	Fuel Ethanol ^d	Bio- diesel	Total	Resi- dential	Com- mercial ^e	Indus- trial ^f	Trans- portation	Electric Power ^g	Total	
1973 Total 1975 Total 1980 Total 1980 Total 1980 Total 1990 Total 1995 Total 1995 Total 1997 Total 1997 Total 1998 Total 2000 Total 2001 Total 2002 Total 2003 Total 2004 Total 2005 Total 2005 Total 2006 Total 2007 Total 2008 Total 2008 Total	143 140 232 252 208 222 229 222 205 208 212 188 187 188 199 200 197 194 191	(s) (s) (s) 14 24 30 32 30 29 27 33 36 36 36 37 40 41	NA NA 3 4 8 6 7 8 8 9 10 12 12 20 23 31 39 55 62	NAA	143 141 232 270 237 260 266 259 242 245 248 231 235 240 255 261 266 274 289 284	33 40 80 95 54 49 51 40 36 37 39 35 36 38 40 36 38 40 36	1 1 2 2 8 9 10 10 9 9 9 9 9 9 9 10 10 10 10 9 9	109 100 150 168 147 166 170 172 160 161 161 147 144 141 155 151 146 140	NA NA NA 3 4 8 6 7 8 8 9 10 12 16 20 23 33 34 41 57 64	(s) (s) (s) 1 23 28 30 30 30 30 29 31 35 37 38 39 40 41	143 141 232 270 237 260 266 259 242 245 248 231 235 240 255 261 266 274 289 284	
2010 January February March April May June July August September October November Total	16 14 16 15 15 16 16 16 16 16	4 3 4 4 4 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4	6 5 6 6 6 6 6 6 6 6 73	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)	25 23 25 25 25 25 26 26 25 26 25 27 304	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 1 1 1 1 1 1 1 1 1 1	12 11 12 11 11 11 12 12 12 12 12 12 12	6 5 6 6 6 6 6 6 6 6 6 7	4 3 4 3 3 4 4 4 4 3 3 4 4 4 4 4 4 4 4 4	25 23 25 25 25 25 26 26 25 26 25 27 304	
2011 January February March April May June July August September October November December Total	17 15 16 15 15 16 16 16 16 16 17	4 3 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	6 6 6 6 6 7 6 6 6 6 6	(s) (s) (s) 1 1 1 1 1 1 1 8	26 24 26 25 25 26 27 27 26 26 28 313	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 1 1 1 1 1 1 1 1 1 1	12 11 12 11 11 12 12 12 12 12 12 13	6 6 6 7 7 7 7 7 7 7 7 7	3 3 3 3 3 4 4 3 3 3 4 4 4 4 4 4 4 4 4 4	26 24 26 25 25 26 27 27 26 26 28 313	
Page 2012 January February March April May June July August September October November December Total	16 15 15 14 16 15 16 15 15 15 16 186	4 3 4 3 4 4 3 4 4 4 4 4 4 4 4 4	6 6 6 6 6 7 6 6 6 6 7 7	(s) 1 1 1 1 1 1 1 1 1 (s) 8	26 25 26 25 27 26 27 27 25 26 26 26 310	3 3 3 3 3 3 3 3 3 3 3 3	1 1 1 1 1 1 1 1 1 1 1 1	12 11 11 12 11 12 12 12 11 12 12 12 12	6 6 7 7 7 7 7 6 7 6 80	3 3 3 3 3 4 3 3 3 3 4 4 3 3	26 25 26 25 27 26 27 27 25 26 26 26 310	

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

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.

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

Environment

Note 1. Emissions of Carbon Dioxide and Other Greenhouse Gases. Greenhouse gases are those gases—such as water vapor, carbon dioxide (CO₂), methane, nitrous oxide, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride—that are transparent to solar (shortwave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Energy-related carbon dioxide emissions account for about 98 percent of U.S. CO₂ emissions. The vast majority of CO₂ emissions come from fossil fuel combustion, with smaller amounts from the nonfuel use of fossil fuels, as well as from electricity generation using geothermal energy and non-biomass waste. Other sources of CO₂ emissions include industrial processes, such as cement and limestone production. Data in the U.S. Energy Information Administration's (EIA) *Monthly Energy Review (MER)* Tables 12.1–12.6 are estimates for U.S. CO₂ emissions from energy consumption, including the nonfuel use of fossil fuels (excluded are estimates for CO₂ emissions from biomass energy consumption, which appear in Table 12.7).

For annual U.S. estimates for emissions of CO₂ from all sources, as well as for emissions of other greenhouse gases, see EIA's *Emissions of Greenhouse Gases Report* at http://www.eia.gov/environment/emissions/ghg report/.

Note 2. Accounting for Carbon Dioxide Emissions From Biomass Energy Combustion. Carbon dioxide (CO₂) emissions from the combustion of biomass to produce energy are excluded from the energy-related CO₂ emissions reported in MER Tables 12.1-12.6, but appear in Table 12.7. According to current international convention (see the Intergovernmental Panel on Climate Change's "2006 IPCC Guidelines for National Greenhouse Gas Inventories"), carbon released through biomass combustion is excluded from reported energy-related emissions. The release of carbon from biomass combustion is assumed to be balanced by the uptake of carbon when the feedstock is grown, resulting in zero net emissions over some period of time. (This is not to say that biomass energy is carbon-neutral. Energy inputs are required in order to grow, fertilize, and harvest the feedstock and to produce and process the biomass into fuels.)

However, analysts have debated whether increased use of biomass energy may result in a decline in terrestrial carbon stocks, leading to a net positive release of carbon rather than the zero net release assumed by its exclusion from reported energy-related emissions. For example, the clearing of forests for biofuel crops could result in an initial release of carbon that is not fully recaptured in subsequent use of the land for agriculture.

To reflect the potential net emissions, the international convention for greenhouse gas inventories is to report biomass emissions in the category "agriculture, forestry, and other land use," usually based on estimates of net changes in carbon stocks over time.

This indirect accounting of CO₂ emissions from biomass can potentially lead to confusion in accounting for and understanding the flow of CO₂ emissions within energy and nonenergy systems. In recognition of this issue, reporting of CO₂ emissions from biomass combustion alongside other energy-related CO₂ emissions offers an alternative accounting treatment. It is important, however, to avoid misinterpreting emissions from fossil energy and biomass energy sources as necessarily additive. Instead, the combined total of direct CO₂ emissions from biomass and energy-related CO₂ emissions implicitly assumes that none of the carbon emitted was previously or subsequently reabsorbed in terrestrial sinks or that other emissions sources offset any such sequestration.

Section 12 Methodology and Sources

To estimate carbon dioxide emissions from energy consumption for the *Monthly Energy Review (MER)*, Tables 12.1–12.7, the U.S. Energy Information Administration (EIA) uses the following methodology and sources:

Step 1. Determine Fuel Consumption

Coal—Coal sectoral (residential, commercial, coke plants, other industrial, transportation, electric power) consumption data in thousand short tons are from MER Table 6.2. Coal sectoral consumption data are converted to trillion Btu by multiplying by the coal heat content factors in MER Table A5

Coal Coke Net Imports—Coal coke net imports data in trillion Btu are derived from coal coke imports and exports data in MER Tables 1.4a and 1.4b.

Natural Gas (excluding supplemental gaseous fuels)—Natural gas sectoral consumption data in trillion Btu are from MER Tables 2.2–2.6.

Petroleum—Total and sectoral consumption (product supplied) data in thousand barrels per day for asphalt and road oil, aviation gasoline, distillate fuel oil, jet fuel, kerosene, liquefied petroleum gases (LPG), lubricants, motor gasoline, petroleum coke, and residual fuel oil are from MER Tables 3.5 and 3.7a-3.7c. For the component products of LPG (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene) and "other petroleum" (aviation gasoline blending components, crude oil, motor gasoline blending components, naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, special naphthas, still gas, unfinished oils, waxes, and miscellaneous petroleum products), consumption (product supplied) data in thousand barrels per day are from EIA's Petroleum Supply Annual (PSA), Petroleum Supply Monthly (PSM), and earlier

publications (see sources for MER Table 3.5). Petroleum consumption data by product are converted to trillion Btu by multiplying by the petroleum heat content factors in MER Table A1 (Table A3 for motor gasoline).

Biomass—Sectoral consumption data in trillion Btu for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are from MER Tables 10.2a–10.2c.

Step 2. Remove Biofuels From Petroleum

Distillate Fuel Oil—Beginning in 2009, the distillate fuel oil data (for total and transportation sector) in Step 1 include biodiesel, a non-fossil renewable fuel. To remove the biodiesel portion from distillate fuel oil, data in thousand barrels per day for refinery and blender net inputs of renewable diesel fuel (from the PSA/PSM) are converted to trillion Btu by multiplying by the biodiesel heat content factor in MER Table A3, and then subtracted from the distillate fuel oil consumption values.

Motor Gasoline—Beginning in 1993, the motor gasoline data (for total, commercial sector, industrial sector, and transportation sector) in Step 1 include fuel ethanol, a nonfossil renewable fuel. To remove the fuel ethanol portion from motor gasoline, data in trillion Btu for fuel ethanol consumption (from MER Tables 10.2a, 10.2b, and 10.3) are subtracted from the motor gasoline consumption values. (Note that about 2 percent of fuel ethanol is fossilbased petroleum denaturant, to make the fuel ethanol For 1993-2008, petroleum denaturant is undrinkable. double counted in the PSA product supplied statistics, in both the original product category—e.g., pentanes plus—and also in the finished motor gasoline category; for this time period for MER Section 12, petroleum denaturant is removed along with the fuel ethanol from motor gasoline, but left in the original product. Beginning in 2009, petroleum denaturant is counted only in the PSA/PSM product supplied statistics for motor gasoline; for this time period for MER Section 12, petroleum denaturant is left in motor gasoline.)

Step 3. Remove Carbon Sequestered by Nonfuel Use

The following fuels have industrial nonfuel uses as chemical feedstocks and other products: coal, natural gas, asphalt and road oil, distillate fuel oil, liquefied petroleum gases (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene), lubricants (which have industrial and transportation nonfuel uses), naphthas for petrochemical feedstock use, other oils for petrochemical feedstock use, pentanes plus, petroleum coke, residual fuel oil, special naphthas, still gas, waxes, and miscellaneous petroleum products. In the nonfuel use of these fuels, some of the carbon is sequestered, and is thus subtracted from the fuel consumption values in Steps 1 and 2.

Estimates of annual nonfuel use and associated carbon sequestration are developed by EIA using the methodology

detailed in "Documentation for *Emissions of Greenhouse Gases in the United States* 2008" at http://www.eia.gov/oiaf/1605/ggrpt/documentation/pdf/0638(2006).pdf.

To obtain monthly estimates of nonfuel use and associated carbon sequestration, monthly patterns for industrial consumption and product supplied data series are used. For coal nonfuel use, the monthly pattern for coke plants coal consumption from MER Table 6.2 is used. For natural gas, the monthly pattern for other industrial non-CHP natural gas consumption from MER Table 4.3 is used. For distillate fuel oil, petroleum coke, and residual fuel oil, the monthly patterns for industrial consumption from MER Table 3.7b are used. For the other petroleum products, the monthly patterns for product supplied from the PSA and PSM are used.

Step 4. Determine Carbon Dioxide Emissions From Energy Consumption

Carbon dioxide (CO₂) emissions data in million metric tons are calculated by multiplying consumption values in trillion Btu from Steps 1 and 2 (minus the carbon sequestered in nonfuel use in Step 3) by the CO₂ emissions factors at http://www.eia.gov/oiaf/1605/ggrpt/excel/CO2_coeffs_09_v2.xls. Beginning in 2010, the 2009 factors are used.

Coal—CO₂ emissions for coal are calculated for each sector (residential, commercial, coke plants, other industrial, transportation, electric power). Total coal emissions are the sum of the sectoral coal emissions.

Coal Coke Net Imports—CO₂ emissions for coal coke net imports are calculated.

Natural Gas—CO₂ emissions for natural gas are calculated for each sector (residential, commercial, industrial, transportation, electric power). Total natural gas emissions are the sum of the sectoral natural gas emissions.

Petroleum—CO₂ emissions are calculated for each petroleum product. Total petroleum emissions are the sum of the product emissions. Total LPG emissions are the sum of the emissions for the component products (ethane/ethylene, propane/propylene, normal butane/butylene, and isobutane/isobutylene); residential, commercial, and transportation sector LPG emissions are estimated by multiplying consumption values in trillion Btu from MER Tables 3.8a and 3.8c by the propane emissions factor; industrial sector LPG emissions are estimated as total LPG emissions minus emissions by the other sectors.

Geothermal and Non-Biomass Waste—Annual CO₂ emissions data for geothermal and non-biomass waste are EIA estimates based on Form EIA-923, "Power Plant Operations Report" (and predecessor forms). Monthly estimates are created by dividing the annual data by the number of days in the year and then multiplying by the number of days in the month. (Annual estimates for the current year are set equal to those of the previous year.)

Biomass—CO₂ emissions for wood, biomass waste, fuel ethanol (minus denaturant), and biodiesel are calculated for each sector. Total emissions for each biomass fuel are the sum of the sectoral emissions. The following factors, in million metric tons CO₂ per quadrillion Btu, are used: wood—93.80; biomass waste—90.70; fuel ethanol—68.44; and biodiesel—73.84. For 1973–1988, the biomass portion

of waste in MER Tables 10.2a–10.2c is estimated as 67 percent; for 1989–2000, the biomass portion of waste is estimated as 67 percent in 1989 to 58 percent in 2000, based on the biogenic shares of total municipal solid waste shown in EIA's "Methodolology for Allocating Municipal Solid Waste to Biogenic and Non-Biogenic Energy," Table 1 at http://www.eia.gov/cneaf/solar.renewables/page/mswaste/msw.pdf.

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 butane-propane mixture, the thermal conversion factor for butane is weighted 1.5 times the thermal conversion factor for propane.

In general, the annual thermal conversion factors presented in Tables A2 through A6 are computed from final annual data or from the best available data and labeled "preliminary." Often, the previous year's factor is used as a preliminary value until data become available to calculate the factor appropriate to the year. The source of each factor is described in the section entitled "Thermal Conversion Factor Source Documentation," which follows Table A6 in this appendix.

Table A1. Approximate Heat Content of Petroleum Products (Million Btu per Barrel)

Petroleum Product	Heat Content	Petroleum Product	Heat Content
Asphalt	6.636	Pentanes Plus	4.620
Aviation Gasoline	5.048	Petrochemical Feedstocks	
Butane	4.326	Naptha Less Than 401°F	5.248
Butane-Propane Mixture ^a	4.130	Other Oils Equal to or Greater Than 401°F	5.825
Distillate Fuel Oil ^b	5.825	Still Gas	6.000
Ethane	3.082	Petroleum Coke	6.024
Ethane-Propane Mixture ^c	3.308	Plant Condensate	5.418
Isobutane	3.974	Propane	3.836
Jet Fuel, Kerosene Type	5.670	Residual Fuel Oil	6.287
Jet Fuel, Naphtha Type	5.355	Road Oil	6.636
Kerosene	5.670	Special Naphthas	5.248
Lubricants	6.065	Still Gas	6.000
Motor Gasolined		Unfinished Oils	5.825
Conventional	5.253	Unfractionated Stream	5.418
Reformulated	5.150	Waxes	5.537
Oxygenated	5.150	Miscellaneous	5.796
Natural Gasoline and Isopentane	4.620		

^a 60 percent butane and 40 percent propane.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

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

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

^b Does not include biodiesel. See Table A3 for biodiesel heat contents.

^{° 70} percent ethane and 30 percent propane.

^d See Table A3 for motor gasoline weighted heat contents beginning in 1994, and for fuel ethanol heat contents.

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

	Production			Imports			Exports	
	Crude Oil ^a	Natural Gas Plant Liquids	Crude Oil ^a	Petroleum Products	Total	Crude Oil ^a	Petroleum Products	Total
973	5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752
974		4.011	5.827	5.959	5.884	5.800	5.773	5.774
975		3.984	5.821	5.935	5.858	5.800	5.747	5.748
976		3.964	5.808	5.980	5.856	5.800	5.743	5.745
977		3.941	5.810	5.908	5.834	5.800	5.796	5.797
978		3.925	5.802	5.955	5.839	5.800	5.814	5.808
79		3.955	5.810	5.811	5.810	5.800	5.864	5.832
980		3.914	5.812	5.748	5.796	5.800	5.841	5.820
981		3.930	5.818	5.659	5.775	5.800	5.837	5.821
982		3.872	5.826	5.664	5.775	5.800	5.829	5.820
183		3.839	5.825	5.677	5.774	5.800	5.800	5.800
84		3.812	5.823	5.613	5.745	5.800	5.867	5.850
985		3.815	5.832	5.572	5.736	5.800	5.819	5.814
86		3.797	5.903	5.624	5.808	5.800	5.839	5.832
87	5.800	3.804	5.901	5.599	5.820	5.800	5.860	5.858
88	5.800	3.800	5.900	5.618	5.820	5.800	5.842	5.840
89	5.800	3.826	5.906	5.641	5.833	5.800	5.869	5.857
90	5.800	3.822	5.934	5.614	5.849	5.800	5.838	5.833
91	5.800	3.807	5.948	5.636	5.873	5.800	5.827	5.823
992	5.800	3.804	5.953	5.623	5.877	5.800	5.774	5.777
93		3.801	5.954	5.620	5.883	5.800	5.777	5.779
94		3.794	5.950	5.534	5.861	5.800	5.777	5.779
95		3.796	5.938	5.483	5.855	5.800	5.740	5.746
96		3.777	5.947	5.468	5.847	5.800	5.728	5.736
97		3.762	5.954	5.469	5.862	5.800	5.726	5.734
98		3.769	5.953	5.462	5.861	5.800	5.710	5.720
99		3.744	5.942	5.421	5.840	5.800	5.684	5.699
00		3.733	5.959	5.432	5.849	5.800	5.651	5.658
01		3.735	5.976	5.443	5.862	5.800	5.751	5.752
02		3.729	5.971	5.451	5.863	5.800	5.687	5.688
03		3.739	5.970	5.438	5.857	5.800	5.739	5.740
04		3.724	5.981	5.475	5.863	5.800	5.753	5.754
05		3.724	5.977	5.474	5.845	5.800	5.741	5.743
06		3.712	5.980	5.454	5.842	5.800	5.723	5.724
07		3.701	5.985	5.503	5.862	5.800	5.749	5.750
80		3.706	5.990	5.479	5.866	5.800	5.762	5.762
09	5.800	3.692	5.988	5.525	5.882	5.800	5.737	5.738
10		3.674	5.989	5.557	5.894	5.800	5.670	5.672
)11		3.672	6.008	5.507	5.896	5.800	5.596	5.599
)12 ^P		R 3.684	^R 6.021	R 5.485	^R 5.915	5.800	^R 5.584	R 5.588

a Includes lease condensate.
 R=Revised. P=Preliminary.
 Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.
 Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices.
 Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A3. Approximate Heat Content of Petroleum Consumption and Biofuels Production (Million Btu per Barrel)

	Total Petroleum ^a Consumption by Sector					Liquefied			Fuel		Biodicasi	
	Resi- dential	Com- mercial ^b	Indus- trial ^b	Trans- portation ^{b,c}	Electric Power ^{d,e}	Total ^{b,c}	Petroleum Gases Con- sumption ^f	Motor Gasoline Con- sumption ⁹	Fuel Ethanol ^h	Ethanol Feed- stock Factor	Biodiesel	Biodiesel Feed- stock Factor
1973	5.258	5.689	5.557	5.396	6.245	5.515	3.746	5.253	NA	NA	NA	NA
1974	5.253	5.683	5.525	5.394	6.238	5.504	3.730	5.253	NA NA	NA	NA NA	NA
1975	5.253	5.649	5.513	5.392	6.250	5.494	3.715	5.253	NA NA	NA	NA NA	NA
1976	5.277	5.672	5.523	5.396	6.251	5.504	3.713	5.253	NA NA	NA	NA NA	NA
1970												
1977	5.285	5.682	5.539	5.401	6.249	5.518	3.677	5.253	NA 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	NA
1979	5.365	5.717	5.409	5.429	6.258	5.494	3.680	5.253	NA	NA	NA	NA
1980	5.321	5.751	5.366	5.441	6.254	5.479	3.674	5.253	3.563	6.586	NA	NA
1981	5.283	5.693	5.299	5.433	6.258	5.448	3.643	5.253	3.563	6.562	NA	NA
1982	5.266	5.698	5.247	5.423	6.258	5.415	3.615	5.253	3.563	6.539	NA	NA
1983	5.140	5.591	5.254	5.416	6.255	5.406	3.614	5.253	3.563	6.515	NA	NA
1984	5.307	5.657	5.207	5.418	6.251	5.395	3.599	5.253	3.563	6.492	NA	NA
1985	5.263	5.598	5.199	5.423	6.247	5.387	3.603	5.253	3.563	6.469	NA	NA
1986	5.268	5.632	5.269	5.426	6.257	5.418	3.640	5.253	3.563	6.446	NA	NA
1987	5.239	5.594	5.233	5.429	6.249	5.403	3.659	5.253	3.563	6.423	NA	NA
1988	5.257	5.597	5.228	5.433	6.250	5.410	3.652	5.253	3.563	6.400	NA	NA
1989	5.194	5.549	5.219	5.438	^d 6.240	5.410	3.683	5.253	3.563	6.377	NA	NA
1990	5.145	5.553	5.253	5.442	6.244	5.411	3.625	5.253	3.563	6.355	NA	NA
1991	5.094	5.528	5.167	5.441	6.246	5.384	3.614	5.253	3.563	6.332	NA	NA
1992	5.124	5.513	5.168	5.443	6.238	5.378	3.624	5.253	3.563	6.309	NA	NA
1993	5.102	^b 5.505	^b 5.178	^b 5.436	6.230	^b 5.379	3.606	5.253	3.563	6.287	NA	NA
1994	5.098	5.515	5.150	5.424	6.213	5.361	3.635	5.230	3.563	6.264	NA	NA
1995	5.063	5.478	5.121	5.417	6.188	5.341	3.623	5.215	3.563	6.242	NA	NA
1996	4.998	5.433	5.114	5.420	6.195	5.336	3.613	5.216	3.563	6.220	NA	NA
1997	4.989	5.391	5.120	5.416	6.199	5.336	3.616	5.213	3.563	6.198	NA	NA
1998	4.975	5.365	5.137	5.413	6.210	5.349	3.614	5.212	3.563	6.176	NA	NA
1999	4.902	5.291	5.092	5.413	6.205	5.328	3.616	5.211	3.563	6.167	NA	NA
2000	4.908	5.316	5.057	5.422	6.189	5.326	3.607	5.210	3.563	6.159	NA.	NA
2001	4.937	5.325	5.142	5.412	6.199	5.345	3.614	5.210	3.563	6.151	5.359	5.433
2002	4.886	5.293	5.093	5.411	6.173	5.324	3.613	5.208	3.563	6.143	5.359	5.433
2003	4.907	5.307	5.142	5.409	6.182	5.340	3.629	5.207	3.563	6.116	5.359	5.433
2004	4.953	5.328	5.144	5.421	6.192	5.350	3.618	5.215	3.563	6.089	5.359	5.433
2005	4.916	5.364	5.178	5.427	6.188	5.365	3.620	5.218	3.563	6.063	5.359	5.433
2006	4.894	5.304	5.176	5.431	6.143	5.353	3.620	5.218	3.563	6.036	5.359	5.433 5.433
					6.151				3.563			5.433 5.433
2007	4.850 R 4.790	5.298 R 5.496	5.127 ^R 5.154	5.434 R 5 424		5.346	3.591	5.219		6.009	5.359	
2008	R 4.790	R 5.186		R 5.424	6.123	5.339	3.600	5.218	3.563	5.983	5.359	5.433
2009	4.079 R 4.070	R 5.250	R 5.019	^c 5.414	6.105	^c 5.301	3.558	5.218	3.563	5.957	5.359	5.433
2010	R 4.679	R 5.228	R 4.985	R 5.423	6.084	5.297	3.557	5.218	3.561	5.931	5.359	5.433
2011	R 4.615	R 5.219	R 4.957	R 5.425	6.058	5.286	3.541	5.218	3.560	5.905	5.359	5.433
2012	RE 4.587	RE 5.185	RE 4.941	RE 5.416	RP 6.064	RP 5.272	RP 3.539	RP 5.219	P 3.560	5.880	5.359	5.433
2013	RE 4.587	^{RE} 5.185	^{RE} 4.941	^{RE} 5.416	RE 6.064	RE 5.272	RE 3.539	^{RE} 5.219	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.

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

Note: The heat content values in this table are for gross heat contents. See "Heat Content" in Glossary.

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

Sources: See "Thermal Conversion Factor Source Documentation." which follows Table A6.

Beginning in 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.

Quantity-weighted averages of the major components of liquefied petroleum gases are calculated by using heat content values shown in Table A1.

⁹ There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a quantity-weighted factor—quantity-weighted averages of the major components of motor gasoline, including fuel ethanol, are calculated by using heat content values shown in Table A1.
h Includes denaturant (petroleum added to ethanol to make it undrinkable). Fuel ethanol factors are weighted average heat contents for undenatured ethanol (3.539) million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as

denaturant (5.253 million Btu per barrel). The factor for 2009 is used as the estimated factor for 1980–2008.

Corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol), used as the factor to estimate total biomass inputs to the production of undenatured ethanol. Observed ethanol yields (gallons undenatured ethanol per bushel of corn) are 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; yields in other years are estimated. Corn is assumed to have a gross heat content of 0.392 million Btu per bushel. Undenatured ethanol is assumed to have a gross

heat content of 3.539 million Btu per barrel.

j Soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel), used as the factor to estimate total biomass inputs to the production of biodiesel. It is assumed that 7.65 pounds of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. Soybean oil is assumed to have a gross heat content of 16,909 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.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Production			Consumption ^a			
	Marketed	Dry	End-Use Sectors ^b	Electric Power Sector ^c	Total	Imports	Exports
973	1,093	1,021	1,020	1,024	1,021	1,026	1,023
974	1,097	1,024	1,024	1,022	1,024	1,027	1,016
975	1,095	1,021	1,020	1,026	1,021	1,026	1,014
976	1.093	1.020	1.019	1.023	1.020	1.025	1.013
77	1,093	1,021	1,019	1,029	1,021	1,026	1,013
78	1,088	1,019	1,016	1,034	1,019	1.030	1,013
79	1,092	1,021	1,018	1,034	1,021	1,037	1,013
80	1,098	1,021	1,018	1,035	1,026	1,022	1,013
81	1,103	1.027	1,024	1,035	1.027	1,014	1,013
182	1,107	1,027	1,025	1,036	1,027	1,014	1,011
83	1,115	1,031	1,020	1,030	1,031	1,024	1,010
184	1,109	1,031	1,031	1,035	1,031	1,005	1,010
	1,109	1,031	1,030	1,038	1,031		1,010
985	,	1,032	1,029		1,032	1,002	1,008
86	1,110			1,034		997	
87	1,112	1,031	1,031	1,032	1,031	999	1,011
988	1,109	1,029	1,029	1,028	1,029	1,002	1,018
189	1,107	1,031	1,031	^c 1,028	1,031	1,004	1,019
90	1,105	1,029	1,030	1,027	1,029	1,012	1,018
91	1,108	1,030	1,031	1,025	1,030	1,014	1,022
92	1,110	1,030	1,031	1,025	1,030	1,011	1,018
93	1,106	1,027	1,028	1,025	1,027	1,020	1,016
94	1,105	1,028	1,029	1,025	1,028	1,022	1,011
95	1,106	1,026	1,027	1,021	1,026	1,021	1,011
96	1,109	1,026	1,027	1,020	1,026	1,022	1,011
97	1,107	1,026	1,027	1,020	1,026	1,023	1,011
98	1,109	1,031	1,033	1,024	1,031	1,023	1,011
99	1,107	1,027	1,028	1,022	1,027	1,022	1,006
000	1,107	1,025	1,026	1,021	1,025	1,023	1,006
01	1,105	1,028	1,029	1,026	1,028	1,023	1,010
02	1,103	1,024	1,025	1,020	1,024	1,022	1,008
003	1,103	1,028	1,029	1,025	1,028	1,025	1,009
04	1,104	1,026	1,026	1,027	1,026	1,025	1,009
05	1,104	1,028	1,028	1,028	1,028	1,025	1,009
06	1,103	1,028	1,028	1,028	1,028	1,025	1,009
07	1.102	1.027	1.027	1.027	1.027	1.025	1.009
008	1,100	1,027	1,027	1,027	1,027	1,025	1,009
009	1.101	1.025	1.025	1.025	1.025	1.025	1,009
010	1,098	1,023	1,023	1,023	1,023	1,025	1,009
)11	1.094	1.022	1,023	1,022	1,023	1,025	1,009
012	E 1,094	E 1,022	E 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. bullo. Through 1968, data are for electric utilities only, beginning in 1969, data are for electric utilities. E=Estimate.

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

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

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A5. Approximate Heat Content of Coal and Coal Coke

(Million Btu per Short Ton)

	Coal									
				C	onsumption					
		Waste	Residential and	Industria	l Sector	Electric				Imports
	Production ^a	Coal Supplied ^b	Commercial Sectors	Coke Plants	Other ^c	Power Sector ^{d,e}	Total	Imports	Exports	Imports and Exports
1973	. 23.376	NA	22.831	26.780	22.586	22.246	23.057	25.000	26.596	24.800
1974		NA	22,479	26.778	22,419	21.781	22.677	25.000	26.700	24.800
1975		NA	22.261	26.782	22.436	21.642	22.506	25.000	26.562	24.800
1976		NA	22.774	26.781	22.530	21.679	22.498	25.000	26.601	24.800
1977		NA	22.919	26.787	22.322	21.508	22.265	25.000	26.548	24.800
1978		NA	22.466	26.789	22.207	21.275	22.017	25.000	26.478	24.800
1979		NA	22.242	26.788	22.452	21.364	22.100	25.000	26.548	24.800
1980		NA	22.543	26.790	22.432	21.295	21.947	25.000	26.384	24.800
1981		NA	22.474	26.794	22.585	21.085	21.713	25.000	26.160	24.800
1982		NA	22.695	26.797	22.712	21.194	21.674	25.000	26.223	24.800
1983		NA	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800
1984		NA	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800
1985		NA	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
1986		NA	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800
1987	. 21.922	NA	23.404	26.799	22.381	21.136	21.517	25.000	26.291	24.800
1988		. NA	23.571	26.799	22.360	20.900	21.328	25.000	26.299	24.800
1989	. 21.765	^b 10.391	23.650	26.800	22.347	^d 20.898	21.307	25.000	26.160	24.800
1990	. 21.822	9.303	23.137	26.799	22.457	20.779	21.197	25.000	26.202	24.800
1991	. 21.681	10.758	23.114	26.799	22.460	20.730	21.120	25.000	26.188	24.800
1992		10.396	23.105	26.799	22.250	20.709	21.068	25.000	26.161	24.800
1993		10.638	22.994	26.800	22.123	20.677	21.010	25.000	26.335	24.800
1994		11.097	23.112	26.800	22.068	20.589	20.929	25.000	26.329	24.800
1995		11.722	23.118	26.800	21.950	20.543	20.880	25.000	26.180	24.800
1996		12.147	23.011	26.800	22.105	20.547	20.870	25.000	26.174	24.800
1997		12.158	22.494	26.800	22.172	20.518	20.830	25.000	26.251	24.800
1998		12.639	21.620	27.426	23.164	20.516	20.881	25.000	26.800	24.800
1999		12.552	23.880	27.426	22.489	20.490	20.818	25.000	26.081	24.800
2000		12.360	25.020	27.426	22.433	20.511	20.828	25.000	26.117	24.800
2001		12.169	24.909	27.426	22.622	20.337	20.671	25.000	25.998	24.800
		12.165	22.962	27.426	22.622	20.238	20.541	25.000	26.062	24.800
2002										
2003		12.360	22.242	27.425	22.468	20.082	20.387	25.000	25.972	24.800
2004		12.266	22.324	27.426	22.473	19.980	20.290	25.000	26.108	24.800
2005		12.093	22.342	26.279	22.178	19.988	20.246	25.000	25.494	24.800
2006		12.080	22.066	26.271	22.050	19.931	20.181	25.000	25.453	24.800
2007		12.090	22.069	26.329	22.371	19.909	20.168	25.000	25.466	24.800
2008		12.121	21.887	26.281	22.348	19.713	19.977	25.000	25.399	24.800
2009		12.076	22.059	26.334	21.893	19.521	19.742	25.000	25.633	24.800
2010		11.960	21.826	26.296	21.005	19.623	19.829	25.000	25.713	24.800
2011		_ 11.604	_ 21.179	_ 26.300	_ 21.738	_ 19.341	_ 19.605	_ 25.000	_ 25.645	_ 24.800
2012	. 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

Note: The values in this table are for gross heat contents. See "Heat Content" in Glossary.

Web Page: http://www.eia.gov/lotalenergy/data/monthly/#appendices.
Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

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 by 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 by Waste coal included in "Consumption."

industrial sectors. Beginning in 1989, waste coal supplied is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."

C Includes transportation. Excludes coal synfuel plants.

d Electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the

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

^e Electric power sector factors are for anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and, beginning in 1998, coal synfuel.

E=Estimate. NA=Not available.

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

(Btu per Kilowatthour)

	Approximate Heat Rates ^a for Electricity Net Generation								
		Fossil	Fuels ^b	,	Nuclear ^h	Noncombustible			
	Coalc	Petroleum ^d	Natural Gas ^e	Total Fossil Fuels ^{f,g}		Renewable Energy ^{9,i}	Heat Content ^j of Electricity ^k		
1973	NA	NA	NA	10.389	10.903	10.389	3.412		
1974	NA NA	NA NA	NA NA	10,369	11,161	10,369	3,412		
1975	NA NA	NA NA	NA NA	10,442	11,013	10,442	3,412		
1976	NA	NA	NA	10,373	11,047	10,373	3,412		
1977	NA	NA	NA	10,435	10,769	10,435	3,412		
1978	NA	NA	NA	10,361	10,941	10,361	3,412		
1979	NA	NA	NA	10,353	10,879	10,353	3,412		
1980	NA	NA	NA	10,388	10,908	10,388	3,412		
1981	NA	NA	NA	10,453	11,030	10,453	3,412		
1982	NA	NA	NA	10,454	11,073	10,454	3,412		
1983	NA	NA	NA	10,520	10,905	10,520	3,412		
1984	NA	NA	NA	10,440	10,843	10,440	3,412		
1985	NA	NA	NA	10,447	10,622	10,447	3,412		
1986	NA	NA	NA	10,446	10,579	10,446	3,412		
1987	NA	NA	NA	10,419	10,442	10,419	3,412		
1988	NA	NA	NA	10.324	10,602	10.324	3,412		
1989	NA	NA	NA	10.432	10.583	10.432	3,412		
1990	NA	NA	NA	10,402	10.582	10.402	3,412		
1991	NA NA	NA	NA	10,436	10.484	10.436	3,412		
1992	NA NA	NA NA	NA NA	10,342	10,471	10,342	3,412		
1993	NA NA	NA NA	NA NA	10,309	10.504	10,309	3,412		
1994	NA NA	NA NA	NA NA	10,316	10,304	10,316	3,412		
					-, -		- /		
1995	NA	NA	NA	10,312	10,507	10,312	3,412		
1996	NA	NA	NA	10,340	10,503	10,340	3,412		
1997	NA	NA	NA	10,213	10,494	10,213	3,412		
1998	NA	NA	NA	10,197	10,491	10,197	3,412		
1999	NA	NA	NA	10,226	10,450	10,226	3,412		
2000	NA	NA	NA	10,201	10,429	10,201	3,412		
2001	10,378	10,742	10,051	^b 10,333	10,443	10,333	3,412		
2002	10,314	10,641	9,533	10,173	10,442	10,173	3,412		
2003	10,297	10,610	9,207	10,125	10,421	10,125	3,412		
2004	10,331	10,571	8,647	10,016	10,427	10,016	3,412		
2005	10,373	10,631	8,551	9,999	10,436	9,999	3,412		
2006	10,351	10,809	8,471	9,919	10,436	9,919	3,412		
2007	10,375	10,794	8,403	9,884	10,485	9,884	3,412		
2008	10.378	11.015	8.305	9.854	10.453	9.854	3,412		
2009	10.414	10.923	8.160	9.760	10,460	9.760	3,412		
2010	10,415	10,984	8,185	9,756	10,452	9,756	3,412		
2011	10,444	10,829	8,152	9,716	10,464	9,716	3,412		
2012	E 10,444	E 10,829	E 8,152	E 9.716	E 10,464	E 9.716	3,412		
٠٠١٤	10,444	10,023	0,132	3,710	10,404	3,710	3,412		

^a The values in columns 1–6 of this table are for net heat rates. See "Heat Rate" in Glossary.

b Through 2000, heat rates are for fossil-fueled steam-electric plants at electric utilities. Beginning in 2001, heat rates are for all fossil-fueled plants at electric utilities and electricity-only independent power producers.

Includes anthracite, bituminous coal, subbituminous coal, lignite, and, beginning in 2002, waste coal and coal synfuel.
 Includes distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.
 Includes natural gas and supplemental gaseous fuels.

f Includes coal, petroleum, natural gas, and, beginning in 2001, other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil

fuels).

g The fossil-fuels heat rate is used as the thermal conversion factor for electricity net generation from noncombustible renewable energy (hydro, geothermal, solar thermal, photovoltaic, and wind) to approximate the quantity of fossil fuels replaced by these sources. Through 2000, also used as the thermal conversion factor for wood

and waste electricity net generation at electric utilities; beginning in 2001, Btu data for wood and waste at electric utilities are available from surveys.

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

i Technology-based geothermal heat rates are no longer used in Btu calculations in this report. For technology-based geothermal heat rates for 1960–2010, see the Annual Energy Review 2010, Table A6.

See "Heat Content" in Glossary.

k The value of 3,412 Btu per kilowatthour is a constant. It is used as the thermal conversion factor for electricity retail sales, and electricity imports and exports. E=Estimate. NA=Not available.

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

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

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The U.S. Energy Information Administration (EIA) adopted the thermal conversion factor of 6.636 million British thermal units (Btu) per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Aviation Gasoline. EIA adopted the thermal conversion factor of 5.048 million Btu per barrel as adopted by the Bureau of Mines from the Texas Eastern Transmission Corporation publication *Competition and Growth in American Energy Markets* 1947–1985, a 1968 release of historical and projected statistics.

Butane. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Butane-Propane Mixture. EIA adopted the Bureau of Mines calculation of 4.130 million Btu per barrel based on an assumed mixture of 60 percent butane and 40 percent propane. See **Butane** and **Propane**.

Crude Oil Exports. Assumed by EIA to be 5.800 million Btu per barrel or equal to the thermal conversion factor for crude oil produced in the United States. See **Crude Oil Production**.

Crude Oil Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil imported weighted by the quantities imported. Thermal conversion factors for each type were calculated on a foreign country basis, by determining the average American Petroleum Institute (API) gravity of crude oil imported from each foreign country from Form ERA-60 in 1977 and converting average API gravity to average Btu content by using National Bureau of Standards, Miscellaneous Publication No. 97, *Thermal Properties of Petroleum Products*, 1933.

Crude Oil Production. EIA adopted the thermal conversion factor of 5.800 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Distillate Fuel Oil. EIA adopted the Bureau of Mines thermal conversion factor of 5.825 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Ethane. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Ethane-Propane Mixture. EIA calculation of 3.308 million Btu per barrel based on an assumed mixture of 70 percent ethane and 30 percent propane. See **Ethane** and **Propane**.

Isobutane. EIA adopted the Bureau of Mines thermal conversion factor of 3.974 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Jet Fuel, Kerosene-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel for "Jet Fuel, Commercial" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics.

Jet Fuel, Naphtha-Type. EIA adopted the Bureau of Mines thermal conversion factor of 5.355 million Btu per barrel for "Jet Fuel, Military" as published by the Texas Eastern Transmission Corporation in the report *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics.

Kerosene. EIA adopted the Bureau of Mines thermal conversion factor of 5.670 million Btu per barrel as reported in a Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Liquefied Petroleum Gases Consumption. Calculated annually by EIA as the average of the thermal conversion factors for all liquefied petroleum gases consumed (see Table A1) weighted by the quantities consumed. The component products of liquefied petroleum gases are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. For 1973–1980, quantities consumed are from EIA, Energy Data Reports, "Petroleum Statement, Annual," Table 1. For 1981 forward, quantities consumed are from EIA, Petroleum Supply Annual, Table 2.

Lubricants. EIA adopted the thermal conversion factor of 6.065 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Miscellaneous Products. EIA adopted the thermal conversion factor of 5.796 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Motor Gasoline Consumption. 1973–1993: EIA adopted the Bureau of Mines thermal conversion factor of 5.253 million Btu per barrel for "Gasoline, Motor Fuel" as published by the Texas Eastern Transmission Corporation in Appendix V of *Competition and Growth in American Energy Markets 1947–1985*, a 1968 release of historical and projected statistics. 1994 forward: EIA calculated national annual quantity-weighted average conversion factors for conventional, reformulated, and oxygenated motor gasolines (see Table A3). The factor for conventional motor gasoline is 5.253 million Btu per barrel, as used for

previous years. The factors for reformulated and oxygenated gasolines, both currently 5.150 million Btu per barrel, are based on data published in Environmental Protection Agency, Office of Mobile Sources, National Vehicle and Fuel Emissions Laboratory report EPA 420-F-95-003, "Fuel Economy Impact Analysis of Reformulated Gasoline." See Fuel Ethanol (Denatured).

Natural Gas Plant Liquids Production. Calculated annually by EIA as the average of the thermal conversion factors for each natural gas plant liquid produced weighted by the quantities produced.

Natural Gasoline. EIA adopted the thermal conversion factor of 4.620 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Pentanes Plus. EIA assumed the thermal conversion factor to be 4.620 million Btu or equal to that for natural gasoline. See **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha less than 401° F. Assumed by EIA to be 5.248 million Btu per barrel, equal to the thermal conversion factor for special naphthas. See **Special Naphthas**.

Petrochemical Feedstocks, Other Oils equal to or greater than 401° F. Assumed by EIA to be 5.825 million Btu per barrel, equal to the thermal conversion factor for distillate fuel oil. See **Distillate Fuel Oil**.

Petrochemical Feedstocks, Still Gas. Assumed by EIA to be 6.000 million Btu per barrel, equal to the thermal conversion factor for still gas. See **Still Gas**.

Petroleum Coke. EIA adopted the thermal conversion factor of 6.024 million Btu per barrel as reported in Btu per short ton in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950." The Bureau of Mines calculated this factor by dividing 30.120 million Btu per short ton, as given in the referenced Bureau of Mines internal memorandum, by 5.0 barrels per short ton, as given in the Bureau of Mines Form 6-1300-M and successor EIA forms.

Petroleum Consumption, Commercial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the commercial sector weighted by the estimated quantities consumed by the commercial sector. The quantities of petroleum products consumed by the commercial sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/state/seds/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Electric Power Sector. Calculated annually by EIA as the average of the thermal

conversion factors for all petroleum products consumed by the electric power sector weighted by the quantities consumed by the electric power sector. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Petroleum Consumption, Industrial Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the industrial sector weighted by the estimated quantities consumed by the industrial sector. The quantities of petroleum products consumed by the industrial sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/state/seds/sep use/notes/use petrol.pdf.

Petroleum Consumption, Residential Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential sector weighted by the estimated quantities consumed by the residential sector. The quantities of petroleum products consumed by the residential sector are estimated in the State Energy Data System—see documentation at http://www.eia.gov/state/seds/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Total. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed weighted by the quantities consumed.

Petroleum Consumption, Transportation Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the transportation sector weighted by the estimated quantities consumed by the transportation sector. The quantities of petroleum products consumed by the transportation sector are estimated in the State Energy Data System—see documentation at

http://www.eia.gov/state/seds/sep_use/notes/use_petrol.pdf.

Petroleum Products Exports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported weighted by the quantities exported.

Petroleum Products Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantities imported.

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the

Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of asphalt (see **Asphalt**) and was first published by the Bureau of Mines in the *Petroleum Statement, Annual, 1970*.

Special Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, which was assumed to be equal to that of the total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement*, *Annual*, 1970.

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel, first published in the *Petroleum Statement, Annual, 1970*.

Total Petroleum Exports. Calculated annually by EIA as the average of the thermal conversion factors for crude oil and each petroleum product exported weighted by the quantities exported. See **Crude Oil Exports** and **Petroleum Products Exports**.

Total Petroleum Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil and petroleum product imported weighted by the quantities imported. See **Crude Oil Imports** and **Petroleum Products Imports**.

Unfinished Oils. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see **Distillate Fuel Oil**) and first published it in EIA's *Annual Report to Congress, Volume* 3, 1977.

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for plant condensate (see **Plant Condensate**) and first published it in EIA's *Annual Report to Congress, Volume* 2, 1981.

Waxes. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Approximate Heat Content of Biofuels

Biodiesel. EIA estimated the thermal conversion factor for biodiesel to be 5.359 million Btu per barrel, or 17,253 Btu per pound.

Biodiesel Feedstock. EIA used soybean oil input to the production of biodiesel (million Btu soybean oil per barrel biodiesel) as the factor to estimate total biomass inputs to the production of biodiesel. EIA assumed that 7.65 pounds

of soybean oil are needed to produce one gallon of biodiesel, and 5.433 million Btu of soybean oil are needed to produce one barrel of biodiesel. EIA also assumed that soybean oil has a gross heat content of 16,909 Btu per pound, or 5.483 million Btu per barrel.

Ethanol (Undenatured). EIA adopted the thermal conversion factor of 3.539 million Btu per barrel published in "Oxygenate Flexibility for Future Fuels," a paper presented by William J. Piel of the ARCO Chemical Company at the National Conference on Reformulated Gasolines and Clean Air Act Implementation, Washington, D.C., October 1991.

Fuel Ethanol (Denatured). 1981–2008: EIA used the 2009 factor. 2009 forward: Calculated by EIA as the annual quantity-weighted average of the thermal conversion factors for undenatured ethanol (3.539 million Btu per barrel), pentanes plus used as denaturant (4.620 million Btu per barrel), and conventional motor gasoline and motor gasoline blending components used as denaturant (5.253 million Btu per barrel). The quantity of ethanol consumed is from EIA's Petroleum Supply Annual (PSA) and Petroleum Supply Monthly (PSM), Table 1, data for renewable fuels and oxygenate plant net production of fuel ethanol. The quantity of pentanes plus used as denaturant is from PSA/PSM, Table 1, data for renewable fuels and oxygenate plant net production of pentanes plus, multiplied by -1. The quantity of conventional motor gasoline and motor gasoline blending components used as denaturant is from PSA/PSM, Table 1, data for renewable fuels and oxygenate plant net production of conventional motor gasoline and motor gasoline blending components, multiplied by -1.

Fuel Ethanol Feedstock. EIA used corn input to the production of undenatured ethanol (million Btu corn per barrel undenatured ethanol) as the annual factor to estimate total biomass inputs to the production of undenatured ethanol. U.S. Department of Agriculture observed ethanol yields (gallons undenatured ethanol per bushel of corn) were 2.5 in 1980, 2.666 in 1998, 2.68 in 2002, and 2.764 in 2009; EIA estimated the ethanol yields in other years. EIA also assumed that corn has a gross heat content of 0.392 million Btu per bushel.

Approximate Heat Content of Natural Gas

Natural Gas Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of natural gas consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Natural Gas Consumption, End-Use Sectors. Calculated annually by EIA by dividing the heat content of natural gas consumed by the end-use sectors (residential, commercial,

industrial, and transportation) by the quantity consumed. Data are from Form EIA-176, "Annual Report of Natural and Supplemental Gas Supply and Disposition."

Natural Gas Consumption, Total. 1973–1979: EIA adopted the thermal conversion factor calculated annually by the American Gas Association (AGA) and published in *Gas Facts*, an AGA annual publication. 1980 forward: Calculated annually by EIA by dividing the total heat content of natural gas consumed by the total quantity consumed.

Natural Gas Exports. Calculated annually by EIA by dividing the heat content of natural gas exported by the quantity exported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Imports. Calculated annually by EIA by dividing the heat content of natural gas imported by the quantity imported. For 1973–1995, data are from Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." Beginning in 1996, data are from U.S. Department of Energy, Office of Fossil Energy, *Natural Gas Imports and Exports*.

Natural Gas Production, Dry. Assumed by EIA to be equal to the thermal conversion factor for dry natural gas consumed. See **Natural Gas Consumption, Total**.

Natural Gas Production, Marketed. Calculated annually by EIA by dividing the heat content of dry natural gas produced (see Natural Gas Production, Dry) and natural gas plant liquids produced (see Natural Gas Plant Liquids Production) by the total quantity of marketed natural gas produced.

Approximate Heat Content of Coal and Coal Coke

Coal Coke Imports and Exports. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Coal Consumption, Electric Power Sector. Calculated annually by EIA by dividing the heat content of coal consumed by the electric power sector by the quantity consumed. Data are from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Industrial Sector, Coke Plants. Calculated annually by EIA by dividing the heat content of coal consumed by coke plants by the quantity consumed. Data are from Form EIA-5, "Quarterly Coal Consumption and Quality Report—Coke Plants."

Coal Consumption, Industrial Sector, Other. Calculated annually by EIA by dividing the heat content of coal

consumed by manufacturing plants by the quantity consumed. Data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants."

Coal Consumption, Residential and Commercial Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the residential and commercial sectors by the quantity consumed. Through 1999, data are from Form EIA-6, "Coal Distribution Report." Beginning in 2000, data are for commercial combined-heat-and-power (CHP) plants from Form EIA-923, "Power Plant Operations Report," and predecessor forms.

Coal Consumption, Total. Calculated annually by EIA by dividing the total heat content of coal consumed by all sectors by the total quantity consumed.

Coal Exports. Calculated annually by EIA by dividing the heat content of steam coal and metallurgical coal exported by the quantity exported. Data are from U.S. Department of Commerce, Bureau of the Census, "Monthly Report EM 545."

Coal Imports. Assumed by EIA to be 25.000 million Btu per short ton.

Coal Production. Calculated annually by EIA to balance the heat content of coal supply (production and imports) and the heat content of coal disposition (exports, stock change, and consumption).

Waste Coal Supplied. Calculated annually by EIA by dividing the total heat content of waste coal supplied by the quantity supplied. For 1989–1997, data are from Form EIA-867, "Annual Nonutility Power Producer Report." For 1998–2000, data are from Form EIA-860B, "Annual Electric Generator Report—Nonutility." For 2001 forward, data are from Form EIA-3, "Quarterly Coal Consumption and Quality Report—Manufacturing Plants"; Form EIA-923, "Power Plant Operations Report"; and predecessor forms.

Approximate Heat Rates for Electricity

Electricity Net Generation, Coal. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using anthracite, bituminous coal, subbituminous coal, lignite, and beginning in 2002, waste coal and coal synfuel.

Electricity Net Generation, Natural Gas. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using natural gas and supplemental gaseous fuels.

Electricity Net Generation, Noncombustible Renewable Energy. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydro, geothermal, solar thermal, photovoltaic, and wind energy sources. Therefore, EIA calculates a rate factor that is equal to the annual average heat rate factor for fossil-fueled power plants in the United States (see "Electricity Net Generation, Total Fossil Fuels"). By using that factor it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption, such as droughts.

Electricity Net Generation, Nuclear. 1973-1984: Calculated annually by dividing the total heat content consumed in nuclear generating units by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation were reported on Form FERC-1, "Annual Report of Major Electric Utilities, Licensees, and Others"; Form EIA-412, "Annual Report of Public Electric Utilities"; and predecessor forms. For 1982, the factors were published in EIA, Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215. For 1983 and 1984, the factors were published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 13. 1985 forward: Calculated annually by EIA by using the heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms).

Electricity Net Generation, Petroleum. 2001 forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using distillate fuel oil, residual fuel oil, jet fuel, kerosene, petroleum coke, and waste oil.

Electricity Net Generation, Total Fossil Fuels. 1973-1988: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as published in EIA, Electric Plant Cost and Power Production Expenses 1991, Table 9. 1989–2000: Calculated annually by EIA by using the heat rate data reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and net generation data reported on Form EIA-759, "Monthly Power Plant Report." The computation includes data for all electric utility steam-electric plants using fossil fuels. forward: Calculated annually by EIA by using fuel consumption and net generation data reported on Form EIA-923, "Power Plant Operations Report," and predecessor forms. The computation includes data for electric utilities and electricity-only independent power producers using coal, petroleum, natural gas, and other gases (blast furnace gas, propane gas, and other manufactured and waste gases derived from fossil fuels).

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).

Table B1. Metric Conversion Factors

Type of Unit	U.S. Unit		Equivalent in	Metric Units
Mass	1 short ton (2,000 lb)	=	0.907 184 7	metric tons (t)
	1 long ton	=	1.016 047	metric tons (t)
	1 pound (lb)	=	0.453 592 37ª	kilograms (kg)
	1 pound uranium oxide (lb U ₃ O ₈)	=	0.384 647 ^b	kilograms uranium (kgU)
	1 ounce, avoirdupois (avdp oz)	=	28.349 52	grams (g)
Volume	1 barrel of oil (bbl)	=	0.158 987 3	cubic meters (m³)
	1 cubic yard (yd³)	=	0.764 555	cubic meters (m³)
	1 cubic foot (ft³)	=	0.028 316 85	cubic meters (m³)
	1 U.S. gallon (gal)	=	3.785 412	liters (L)
	1 ounce, fluid (fl oz)	=	29.573 53	milliliters (mL)
	1 cubic inch (in³)	=	16.387 06	milliliters (mL)
Length	1 mile (mi)	=	1.609 344ª	kilometers (km)
_	1 yard (yd)	=	0.914 4 ^a	meters (m)
	1 foot (ft)	=	0.304 8 ^a	meters (m)
	1 inch (in)	=	2.54 ^a	centimeters (cm)
Area	1 acre	=	0.404 69	hectares (ha)
	1 square mile (mi ²)	=	2.589 988	square kilometers (km²)
ength Area	1 square yard (yd²)	=	0.836 127 4	square meters (m ²)
	1 square foot (ft²)	=	0.092 903 04°	square meters (m²)
	1 square inch (in²)	=	6.451 6ª	square centimeters (cm ²)
Energy	1 British thermal unit (Btu) ^c	=	1,055.055 852 62ª	joules (J)
	1 calorie (cal)	=	4.186 8ª	joules (J)
	1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)
Temperature ^d	32 degrees Fahrenheit (°F)	=	O ^a	degrees Celsius (°C)
-	212 degrees Fahrenheit (°F)	=	100 ^a	degrees Celsius (°C)

^aExact conversion.

Sources: • General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 1993), pp. 9-11, 13, and 16. • U.S. Department of Commerce, National Institute of Standards and Technology, Special Publications 330, 811, and 814. • American National Standards Institute/Institute of Electrical and Electronic Engineers, ANSI/IEEE Std 268-1992, pp. 28 and 29.

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

The Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. To convert degrees Fahrenheit (°F) to degrees Celsius (°C) exactly, subtract 32, then multiply by 5/9.

Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, see http://physics.nist.gov/cuu/Units/index.html.

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

Table B2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10¹	deka	da	10 ⁻¹	deci	d
10 ²	hecto	h	10-2	centi	С
10 ³	kilo	k	10 ⁻³	milli	m
10 ⁶	mega	M	10 ⁻⁶	micro	μ
10 ⁹	giga	G	10-9	nano	n
10 ¹²	tera	Т	10 ⁻¹²	pico	р
10 ¹⁵	peta	Р	10 ⁻¹⁵	femto	f
10 ¹⁸	exa	E	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	Z
10 ²⁴	yotta	Υ	10 ⁻²⁴	yocto	у

Web Page: http://www.eia.gov/totalenergy/data/monthly/#appendices. Source: U.S. Department of Commerce, National Institute of Standards and Technology, *The International System of Units (SI)*, NIST Special Publication 330, 1991 Edition (Washington, DC, August 1991), p.10.

Table B3. Other Physical Conversion Factors

Energy Source	Original Unit		Equivalent in Final Units				
Petroleum	1 barrel (bbl)	=	42ª	U.S. gallons (gal)			
Coal	1 short ton	=	2,000ª	pounds (lb)			
	1 long ton	=	2,240 ^a	pounds (lb)			
	1 metric ton (t)	=	1,000 ^a	kilograms (kg)			
Wood	1 cord (cd)	=	1.25 ^b	shorts tons			
	1 cord (cd)	=	128ª	cubic feet (ft3)			

^aExact conversion.

Source: U.S. Department of Commerce, National Institute of Standards and Technology, Specifications, Tolerances, and Other Technical Requirements for Weighing and Measuring Devices, NIST Handbook 44, 1994 Edition (Washington, DC, October 1993), pp. B-10, C-17 and C-21.

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

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

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 (C₄H₈) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

Carbon Dioxide (CO₂): A colorless, odorless, non-poisonous gas that is a normal part of Earth's atmosphere. Carbon dioxide is a product of **fossil-fuel** combustion as well as other processes. It is considered a **greenhouse gas** as it traps heat (infrared energy) radiated by the Earth into the atmosphere and thereby contributes to the potential for **global warming**. The **global warming potential** (GWP) of other greenhouse gases is measured in relation to that of carbon dioxide, which by international scientific convention is assigned a value of one (1).

Chained Dollars: A measure used to express real prices. Real prices are those that have been adjusted to remove the effect of changes in the purchasing power of the dollar; they usually reflect buying power relative to a reference year. Prior to 1996, real prices were expressed in constant dollars, a measure based on the weights of goods and services in a single year, usually a recent year. In 1996, the U.S. Department of Commerce introduced the chained-dollar measure. The new measure is based on the average weights of goods and services in successive pairs of years. It is "chained" because the second year in each pair, with its weights, becomes the first year of the next pair. The advantage of using the chained-dollar measure is that it is more closely related to any given period and is therefore subject to less distortion over time.

CIF: See Cost, Insurance, Freight.

Citygate: A point or measuring station at which a distribution gas utility receives gas from a natural gas pipeline company or transmission system.

Climate Change: A term used to refer to all forms of climatic inconsistency, but especially to significant change from one prevailing climatic condition to another. In some cases, "climate change" has been used synonymously with the term "global warming"; scientists, however, tend to use the term in a wider sense inclusive of natural changes in climate, including climatic cooling.

Coal: A readily combustible black or brownish-black rock whose composition, including inherent moisture, consists of more than 50 percent by weight and more than 70 percent by volume of carbonaceous material. It is formed from plant remains that have been compacted, hardened, chemically altered, and metamorphosed by heat and pressure over geologic time. See Anthracite, Bituminous Coal, Lignite, Subbituminous Coal, Waste Coal, and Coal Synfuel.

Coal Coke: See Coke, Coal.

Coal Stocks: Coal quantities that are held in storage for future use and disposition. Note: When coal data are collected for a particular reporting period (month, quarter, or year), coal stocks are commonly measured as of the last day of the period.

Coal Synfuel: Coal-based solid fuel that has been processed by a **coal synfuel plant**; and coal-based fuels such as briquettes, pellets, or extrusions, which are formed from fresh or recycled coal and binding materials.

Coal Synfuel Plant: A plant engaged in the chemical transformation of **coal** into **coal synfuel**.

Coke, Coal: A solid carbonaceous residue derived from low-ash, low-sulfur bituminous coal from which the volatile constituents are driven off by baking in an oven at temperatures as high as 2,000° F so that the fixed carbon and residual ash are fused together. Coke is used as a fuel and as a reducing agent in smelting iron ore in a blast furnace. Coke (coal) has a heating value of 24.8 million Btu per ton.

Coke, Petroleum: A residue high in carbon content and low in hydrogen that is the final product of thermal decomposition in the condensation process in cracking. This product is reported as marketable coke or catalyst coke. The conversion is 5 barrels (42 U.S. gallons each) per short ton. Coke (petroleum) has a heating value of 6.024 million Btu per barrel.

Coking Coal: Bituminous coal suitable for making coke. See **Coke**, **Coal**.

Combined-Heat-and-Power (CHP) Plant: A plant designed to produce both heat and electricity from a single heat source. Note: This term is being used in place of the term "cogenerator" that was used by EIA in the past. CHP better describes the facilities because some of the plants included do not produce heat and power in a sequential fashion and, as a result, do not meet the legal definition of cogeneration specified in the Public Utility Regulatory Policies Act (PURPA).

Commercial Sector: An energy-consuming sector that consists of service-providing facilities and equipment of: businesses; Federal, State, and local governments; and other private and public organizations, such as religious,

social, or fraternal groups. The commercial sector includes institutional living quarters. It also includes sewage treatment facilities. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a wide variety of other equipment. *Note*: This sector includes generators that produce electricity and/or useful thermal output primarily to support the activities of the abovementioned commercial establishments. Various EIA programs differ in sectoral coverage-for more information see http://www.eia.gov/neic/datadefinitions/Guideforwebcom.htm. See End-Use Sectors and Energy-Use Sectors.

Completion: The installation of permanent equipment for the production of oil or gas. If a well is equipped to produce only oil or gas from one zone or reservoir, the definition of a well (classified as an oil well or gas well) and the definition of a completion are identical. However, if a well is equipped to produce oil and/or gas separately from more than one reservoir, a well is not synonymous with a completion.

Conventional Gasoline: Finished motor gasoline not included in the oxygenated or reformulated gasoline categories. *Note*: This category excludes reformulated gasoline blendstock for oxygenate blending (RBOB) as well as other blendstock.

Conventional Hydroelectric Power: Hydroelectric power generated from flowing water that is not created by hydroelectric pumped storage.

Conversion Factor: A factor for converting data between one unit of measurement and another (such as between **short tons** and **British thermal units**, or between **barrels** and gallons). (See http://www.eia.gov/totalenergy/data/monthly/#appendices for further information on conversion factors.) See **Btu Conversion Factor** and **Thermal Conversion Factor**.

Cost, Insurance, Freight (CIF): A sales transaction in which the seller pays for the transportation and insurance of the goods to the port of destination specified by the buyer.

Crude Oil: A mixture of hydrocarbons that exists in liquid phase in natural underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Depending upon the characteristics of the crude stream, it may also include: 1) small amounts of hydrocarbons that exist in gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and are subsequently commingled with the crude stream without being separately measured. Lease condensate recovered as a liquid from natural gas wells in lease or field separation facilities and later mixed into the crude stream is also included; 2) small amounts of nonhydrocarbons produced with the oil, such as sulfur and

various metals; and 3) drip gases, and liquid hydrocarbons produced from tar sands, oil sands, gilsonite, and oil shale.

Liquids produced at natural gas processing plants are excluded. Crude oil is refined to produce a wide array of petroleum products, including heating oils; gasoline, diesel and jet fuels; lubricants; asphalt; ethane, propane, and butane; and many other products used for their energy or chemical content.

Crude Oil F.O.B. Price: The crude oil price actually charged at the oil-producing country's port of loading. Includes deductions for any rebates and discounts or additions of premiums, where applicable. It is the actual price paid with no adjustment for credit terms.

Crude Oil (Including Lease Condensate): A mixture of hydrocarbons that exists in liquid phase in underground reservoirs and remains liquid at atmospheric pressure after passing through surface separating facilities. Included are lease condensate and liquid hydrocarbons produced from tar sands, gilsonite, and oil shale. Drip gases are also included, but topped crude oil (residual oil) and other unfinished oils are excluded. Where identifiable, liquids produced at natural gas processing plants and mixed with crude oil are likewise excluded.

Crude Oil Landed Cost: The price of crude oil at the port of discharge, including charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. The cost does not include charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage).

Crude Oil Refinery Input: The total crude oil put into processing units at refineries.

Crude Oil Stocks: Stocks of crude oil and lease condensate held at refineries, in pipelines, at pipeline terminals, and on leases.

Crude Oil Used Directly: Crude oil consumed as fuel by crude oil pipelines and on crude oil leases.

Crude Oil Well: A well completed for the production of crude oil from one or more oil zones or reservoirs. Wells producing both crude oil and natural gas are classified as oil wells.

Cubic Foot (Natural Gas): A unit of volume equal to 1 cubic foot at a pressure base of 14.73 pounds standard per square inch absolute and a temperature base of 60° F.

Degree-Day Normals: Simple arithmetic averages of monthly or annual degree-days over a long period of time (usually the 30-year period 1961-1990). The averages may be simple degree-day normals or population-weighted degree-day normals.

Degree-Days, Cooling (CDD): A measure of how warm a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the base temperature (65 degrees) from the average of the day's high and low temperatures, with negative values set equal to zero. Each day's cooling degree-days are summed to create a cooling degree-day measure for a specified reference period. Cooling degree-days are used in energy analysis as an indicator of air conditioning energy requirements or use.

Degree-Days, Heating (HDD): A measure of how cold a location is over a period of time relative to a base temperature, most commonly specified as 65 degrees Fahrenheit. The measure is computed for each day by subtracting the average of the day's high and low temperatures from the base temperature (65 degrees), with negative values set equal to zero. Each day's heating degree-days are summed to create a heating degree-day measure for a specified reference period. Heating degree-days are used in energy analysis as an indicator of space heating energy requirements or use.

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degreeday readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

Denaturant: Petroleum, typically **pentanes plus** or **conventional motor gasoline**, added to **fuel ethanol** to make it unfit for human consumption. Fuel ethanol is denatured, usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent denaturant. See **Fuel Ethanol** and **Fuel Ethanol Minus Denaturant**.

Design Electrical Rating, Net: The nominal net electrical output of a nuclear unit as specified by the electric utility for the purpose of plant design.

Development Well: A well drilled within the proved area of an oil or gas reservoir to the depth of a stratigraphic horizon known to be productive.

Diesel Fuel: A fuel composed of **distillate fuel oils** obtained in petroleum refining operation or blends of such distillate fuel oils with **residual fuel oil** used in motor vehicles. The boiling point and specific gravity are higher for diesel fuels than for gasoline.

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

Distillate Fuel Oil: A general classification for one of the **petroleum** fractions produced in conventional distillation operations. It includes **diesel fuels** and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and **electricity generation**.

Dry Hole: An exploratory or development well found to be incapable of producing either oil or gas in sufficient quantities to justify completion as an oil or gas well.

Dry Natural Gas Production: See Natural Gas (Dry) **Production**.

E85: A fuel containing a mixture of 85 percent **ethanol** and 15 percent **motor gasoline**.

Electric Power Plant: A station containing prime movers, electric generators, and auxiliary equipment for converting mechanical, chemical, and/or fission energy into electric energy.

Electric Power Sector: An energy-consuming sector that consists of electricity-only and combined-heat-and-power (CHP) plants whose primary business is to sell electricity, or electricity and heat, to the public-i.e., North American Industry Classification System 22 plants. See also Combined-Heat-and-Power (CHP) Plant, Electricity-Only Plant, Electric Utility, and Independent Power Producer.

Electric Utility: Any entity that generates, transmits, or distributes electricity and recovers the cost of its generation, transmission or distribution assets and operations, either directly or indirectly, through cost-based rates set by a separate regulatory authority (e.g., State Public Service Commission), or is owned by a governmental unit or the consumers that the entity serves. Examples of these entities include: investor-owned entities, public power districts, public utility districts, municipalities, rural electric cooperatives, and State and Federal agencies. Electric utilities may have Federal Energy Regulatory Commission approval for interconnection agreements and wholesale trade tariffs covering either cost-of-service and/or market-based rates

under the authority of the Federal Power Act. See **Electric Power Sector**.

Electrical System Energy Losses: The amount of energy lost during generation, transmission, and distribution of electricity, including plant and unaccounted-for uses.

Electricity: A form of energy characterized by the presence and motion of elementary charged particles generated by friction, induction, or chemical change.

Electricity Generation: The process of producing electric energy, or the amount of electric energy produced by transforming other forms of energy, commonly expressed in **kilowatthours** (kWh) or megawatthours (Mwh).

Electricity Generation, Gross: The total amount of electric energy produced by generating units and measured at the generating terminal in **kilowatthours** (kWh) or megawatthours (MWh).

Electricity Generation, Net: The amount of gross electricity generation less station use (the electric energy consumed at the generating station(s) for station service or auxiliaries). *Note*: Electricity required for pumping at hydroelectric pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Electricity-Only Plant: A plant designed to produce electricity only. See also Combined-Heat-and-Power (CHP) Plant.

Electricity Retail Sales: The amount of electricity sold to customers purchasing electricity for their own use and not for resale.

End-Use Sectors: The **residential**, **commercial**, **industrial**, and **transportation** sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power or as an input in the manufacturing process.

Energy Service Provider: An energy entity that provides service to a retail or end-use customer.

Energy-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and

analyze energy use. The sectors most commonly referred to in EIA are: residential, commercial, industrial, transportation, and electric power.

Ethane: A normally gaseous straight-chain hydrocarbon (C_2H_6) . It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethanol (C_2H_3OH): A clear, colorless, flammable alcohol. Ethanol is typically produced biologically from biomass feedstocks such as agricultural crops and cellulosic residues from agricultural crops or wood. Ethanol can also be produced chemically from ethylene. See Biomass, Fuel Ethanol, and Fuel Ethanol Minus Denaturant.

Ethylene: An olefinic hydrocarbon (C2H4) recovered from refinery processes or petrochemical processes.

Exploratory Well: A well drilled to find and produce oil or gas in an area previously considered an unproductive area, to find a new reservoir in a known field (i.e., one previously found to be producing oil or gas in another reservoir), or to extend the limit of a known oil or gas reservoir.

Exports: Shipments of goods from within the 50 States and the District of Columbia to U.S. possessions and territories or to foreign countries.

Extraction Loss: The reduction in volume of natural gas due to the removal of natural gas liquid constituents, such as ethane, propane, and butane, at natural gas processing plants.

Federal Energy Administration (FEA): A predecessor of the U.S. Energy Information Administration.

Federal Energy Regulatory Commission (FERC): The Federal agency with jurisdiction over interstate electricity sales, wholesale electric rates, hydroelectric licensing, natural gas pricing, oil pipeline rates, and gas pipeline certification. FERC is an independent regulatory agency within the U.S. Department of Energy and is the successor to the Federal Power Commission.

Federal Power Commission (FPC): The predecessor agency of the Federal Energy Regulatory Commission. The Federal Power Commission was created by an Act of Congress under the Federal Water Power Act on June 10, 1920. It was charged originally with regulating the electric power and natural gas industries. It was abolished on September 30, 1977, when the U.S. Department of Energy was created. Its functions were divided between the U.S. Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

First Purchase Price: The price for domestic crude oil reported by the company that owns the crude oil the first time it is removed from the lease boundary.

Flared Natural Gas: Natural gas burned in flares on the base site or at gas processing plants.

F.O.B. (Free on Board): A sales transaction in which the seller makes the product available for pick up at a specified port or terminal at a specified price and the buyer pays for the subsequent transportation and insurance.

Footage Drilled: Total footage for wells in various categories, as reported for any specified period, includes (1) the deepest total depth (length of well bores) of all wells drilled from the surface, (2) the total of all bypassed footage drilled in connection with reported wells, and (3) all new footage drilled for directional sidetrack wells. Footage reported for directional sidetrack wells does not include footage in the common bore, which is reported as footage for the original well. In the case of old wells drilled deeper, the reported footage is that which was drilled below the total depth of the old well.

Former U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Fossil Fuel: An energy source formed in the Earth's crust from decayed organic material, such as petroleum, coal, and natural gas.

Fossil-Fueled Steam-Electric Power Plant: An electricity generation plant in which the prime mover is a turbine rotated by high-pressure steam produced in a boiler by heat from burning fossil fuels.

Fuel Ethanol: Ethanol intended for fuel use. Fuel ethanol in the United States must be anhydrous (less than 1 percent water). Fuel ethanol is denatured (made unfit for human consumption), usually prior to transport from the ethanol production facility, by adding 2 to 5 volume percent petroleum, typically pentanes plus or conventional motor gasoline. Fuel ethanol is used principally for blending in low concentrations with motor gasoline as an oxygenate or octane enhancer. In high concentrations, it is used to fuel alternative-fuel vehicles specially designed for its use. See Alternative-Fuel Vehicle, Denaturant, E85, Ethanol, Fuel Ethanol Minus Denaturant, and Oxygenates.

Fuel Ethanol Minus Denaturant: An unobserved quantity of anhydrous, biomass-derived, undenatured ethanol for fuel use. The quantity is obtained by subtracting the estimated denaturant volume from fuel ethanol volume. Fuel ethanol minus denaturant is counted as renewable energy, while denaturant is counted as nonrenewable fuel. See Denaturant, Ethanol, Fuel Ethanol, Nonrenewable Fuels, Oxygenates, and Renewable Energy.

Full-Power Operation: Operation of a nuclear generating unit at 100 percent of its design capacity. Full-power operation precedes commercial operation.

Gasohol: A blend of finished motor gasoline containing alcohol (generally **ethanol** but sometimes methanol) at a concentration between 5.7 percent and 10 percent by volume. See **Motor Gasoline**, **Oxygenated**.

Gas Well: A well completed for the production of natural gas from one or more gas zones or reservoirs. (Wells producing both crude oil and natural gas are classified as oil wells.)

Geothermal Energy: Hot water or steam extracted from geothermal reservoirs in the earth's crust and used for geothermal heat pumps, water heating, or electricity generation.

Global Warming: An increase in the near-surface temperature of the Earth. Global warming has occurred in the distant past as the result of natural influences, but the term is today most often used to refer to the warming some scientists predict will occur as a result of increased anthropogenic emissions of greenhouse gases. See Climate Change.

Global Warming Potential (GWP): An index used to compare the relative radiative forcing of different gases without directly calculating the changes in atmospheric concentrations. GWPs are calculated as the ratio of the radiative forcing that would result from the emission of one kilogram of a greenhouse gas to that from the emission of one kilogram of carbon dioxide over a fixed period of time, such as 100 years.

Greenhouse Gases: Those gases, such as water vapor, **carbon dioxide**, nitrous oxide, **methane**, hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulfur hexafluoride, that are transparent to solar (short-wave) radiation but opaque to long-wave (infrared) radiation, thus preventing long-wave radiant energy from leaving Earth's atmosphere. The net effect is a trapping of absorbed radiation and a tendency to warm the planet's surface.

Gross Domestic Product (GDP): The total value of goods and services produced by labor and property located in the United States. As long as the labor and property are located in the United States, the supplier (that is, the workers and, for property, the owners) may be either U.S. residents or residents of foreign countries.

GT/IC: Gas turbine and internal combustion plants.

Heat Content: The amount of heat energy available to be released by the transformation or use of a specified physical unit of an energy form (e.g., a ton of coal, a barrel of oil, a kilowatthour of electricity, a cubic foot of natural gas, or a pound of steam). The amount of heat energy is commonly expressed in **British thermal units (Btu)**. *Note*: Heat content of combustible energy forms can be expressed in terms of either gross heat content (higher or upper heating value) or net heat content (lower heating value), depending upon whether or not the available heat energy includes or

excludes the energy used to vaporize water (contained in the original energy form or created during the combustion process). The U.S. Energy Information Administration typically uses gross heat content values.

Heat Rate: A measure of generating station thermal efficiency commonly stated as **Btu** per **kilowatthour**. *Note:* Heat rates can be expressed as either gross or net heat rates, depending whether the electricity output is gross or net generation. Heat rates are typically expressed as net heat rates.

Hydrocarbon: An organic chemical compound of hydrogen and carbon in the gaseous, liquid, or solid phase. The molecular structure of hydrocarbon compounds varies from the simplest (methane, the primary constituent of natural gas) to the very heavy and very complex.

Hydroelectric Power: The production of electricity from the kinetic energy of falling water.

Hydroelectric Power Plant: A plant in which the turbine generators are driven by falling water.

Hydroelectric Pumped Storage: Hydroelectricity that is generated during peak load periods by using water previously pumped into an elevated storage reservoir during off-peak periods when excess generating capacity is available to do so. When additional generating capacity is needed, the water can be released from the reservoir through a conduit to turbine generators located in a power plant at a lower level.

Hydrogen (H): The lightest of all gases, hydrogen occurs chiefly in combination with oxygen in water. It also exists in acids, bases, **alcohols**, **petroleum**, and other **hydrocarbons**.

Imports: Receipts of goods into the 50 States and the District of Columbia from U.S. possessions and territories or from foreign countries.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for the generation of electricity for use primarily by the public, and that is not an **electric utility**.

Industrial Sector: An energy-consuming sector that consists of all facilities and equipment used for producing, processing, or assembling goods. The industrial sector encompasses the following types of activity: manufacturing (NAICS codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); and construction (NAICS code 23). Overall energy use in this sector is largely for process heat and cooling and powering machinery, with lesser amounts used for facility heating, air conditioning, and lighting. Fossil fuels are also used as raw material inputs to manufactured products. *Note:* This sector includes generators that produce electricity and/or useful thermal output primarily to support the

above-mentioned industrial activities. Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebind.htm. See End-Use Sectors and Energy-Use Sectors.

Injections (Natural Gas): Natural gas injected into storage reservoirs.

Isobutane: A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams. See **Butane**.

Isobutylene: An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isopentane: A saturated branched-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Jet Fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Jet Fuel, Kerosene-Type: A kerosene-based product with a maximum distillation temperature of 400° F at the 10-percent recovery point and a final maximum boiling point of 572° F. Fuel specifications are provided in ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It issued primarily for commercial turbojet and turboprop aircraft engines.

Jet Fuel, Naphtha-Type: A fuel in the heavy naphtha boiling range, with an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290° to 470° F and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used by the military for turbojet and turboprop engines.

Kerosene: A petroleum distillate having a maximum distillation temperature of 401° F at the 10-percent recovery point, a final boiling point of 572° F, and a minimum flash point of 100° F. Included are the two grades designated in ASTM D3699 (No. 1-K and No. 2-K) and all grades of kerosene called range or stove oil. Kerosene is used in space heaters, cook stoves, and water heaters; it is suitable for use as an illuminant when burned in wick lamps.

Kilowatt: A unit of electrical power equal to 1,000 watts.

Kilowatthour (kWh): A measure of electricity defined as a unit of work or energy, measured as 1 **kilowatt** (1,000 **watts**) of power expended for 1 hour. One kilowatthour is equivalent to 3,412 Btu. See **Watthour**.

Landed Costs: The dollar-per-barrel price of crude oil at the port of discharge. Included are the charges associated

with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Not included are charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage charges).

Lease and Plant Fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and used as fuel in natural gas processing plants.

Lease Condensate: A mixture consisting primarily of pentanes and heavier hydrocarbons, which is recovered as a liquid from natural gas in lease or field separation facilities. Note: This category excludes natural gas liquids, such as butane and propane, which are recovered at natural gas processing plants or facilities.

Lignite: The lowest rank of **coal**, often referred to as brown coal, used almost exclusively as fuel for steam-electric power generation. It is brownish-black and has a high inherent moisture content, sometimes as high as 45 percent. The heat content of lignite ranges from 9 to 17 million **Btu** per **short ton** on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States averages 13 million Btu per short ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Liquefied Natural Gas (LNG): Natural gas (primarily methane) that has been liquefied by reducing its temperature to -260° F at atmospheric pressure.

Liquefied Petroleum Gases (LPG): Ethane, ethylene, propane, propylene, normal butane, butylene, and isobutane produced at refineries or natural gas processing plants, including plants that fractionate new natural gas plant liquids.

Low-Power Testing: The period of time between a nuclear generating unit's initial fuel loading date and the issuance of its operating (full-power) license. The maximum level of operation during that period is 5 percent of the unit's design thermal rating.

Lubricants: Substances used to reduce friction between bearing surfaces or as process materials either incorporated into other materials used as processing aids in the manufacturing of other products or as carriers of other materials. Petroleum lubricants may be produced either from distillates or residues. Other substances may be added to impart or improve certain required properties. Excluded are byproducts of lubricating oil refining, such as aromatic extracts derived from solvent extraction or tars derived from deasphalting. Included are all grades of lubricating oils from spindle oil to cylinder oil and those used in greases. Lubricant categories are paraffinic and naphthenic.

Marketed Production (Natural Gas): Gross withdrawals less gas used for repressuring, quantities vented and

flared, and nonhydrocarbon gases removed in treating or processing operations. Includes all quantities of gas used in field and processing operations.

Methane: A colorless, flammable, odorless, hydrocarbon gas (CH₄) that is the principal constituent of natural gas. It is also an important source of hydrogen in various industrial processes.

Methyl Tertiary Butyl Ether (MTBE): An ether, (CH₃)₃COCH₃, intended for motor gasoline blending. See **Oxygenates**.

Methanol: A light, volatile alcohol (CH₃OH) eligible for motor gasoline blending. See **Oxygenates**.

Miscellaneous Petroleum Products: All finished petroleum products not classified elsewhere-for example, petrolatum, lube refining byproducts (aromatic extracts and tars), absorption oils, ram-jet fuel, petroleum rocket fuels, synthetic natural gas feedstocks, and specialty oils.

Motor Gasoline Blending: Mechanical mixing of motor gasoline blending components and oxygenates as required, to produce finished motor gasoline. Finished motor gasoline may be further mixed with other motor gasoline blending components or oxygenates, resulting in increased volumes of finished motor gasoline and/or changes in the formulation of finished motor gasoline (e.g., conventional motor gasoline mixed with MTBE to produce oxygenated motor gasoline).

Motor Gasoline Blending Components: Naphtha (e.g., straight-run gasoline, alkylate, reformate, benzene, toluene, xylene) used for blending or compounding into finished motor gasoline. These components include reformulated gasoline blendstock (RBOB) but exclude oxygenates (alcohols, ethers), butane, and pentanes plus. *Note*: oxygenates are reported as individual components and are included in the total for other hydrocarbons, hydrogens, and oxygenates.

Motor Gasoline, Finished: A complex mixture of relatively volatile hydrocarbons with or without small quantities of additives, blended to form a fuel suitable for use in sparkignition. Motor gasoline, as defined in ASTM Specification D-4814 or Federal Specification VV-G-1690C, is characterized as having a boiling range of 122°F to 158°F at the 10-percent recovery point to 365°F to 374°F at the 90-percent recovery point. "Motor gasoline" includes conventional gasoline, all types of oxygenated gasoline including gasohol, and reformulated gasoline, but excludes aviation gasoline. Note: Volumetric data on blending components, as well as oxygenates, are not counted in data on finished motor gasoline until the blending components are blended into the gasoline.

Motor Gasoline Grades: The classification of gasoline by octane ratings. Each type of gasoline (conventional, oxygenated, and reformulated) is classified by three

grades: regular, midgrade, and premium. *Note*: Gasoline sales are reported by grade in accordance with their classification at the time of sale. In general, automotive octane requirements are lower at high altitudes. Therefore, in some areas of the United States, such as the Rocky Mountain States, the octane ratings for the gasoline grades may be 2 or more octane points lower.

Regular Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 85 and less than 88. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Midgrade Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than or equal to 88 and less than or equal to 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Premium Gasoline: Gasoline having an antiknock index, i.e., octane rating, greater than 90. Note: Octane requirements may vary by altitude. See **Motor Gasoline Grades**.

Motor Gasoline, Oxygenated: Finished motor gasoline, other than reformulated gasoline, having an oxygen content of 2.7 percent or higher by weight and required by the U.S. Environmental Protection Agency (EPA) to be sold in areas designated by EPA as carbon monoxide (CO) nonattainment areas. Note: Oxygenated gasoline excludes oxygenated fuels program reformulated gasoline (OPRG) and reformulated gasoline blendstock for oxygenate blending (RBOB). Data on gasohol that has at least 2.7 percent oxygen, by weight, and is intended for sale inside CO nonattainment areas are included in data on oxygenated gasoline. Other data on gasohol are included in data on conventional gasoline.

Motor Gasoline, Reformulated: Finished motor gasoline formulated for use in motor vehicles, the composition and properties of which meet the requirements of the reformulated gasoline regulations promulgated by the U.S. Environmental Protection Agency under Section 211(k) of the Clean Air Act. Note: This category includes oxygenated fuels program reformulated gasoline (OPRG) but excludes reformulated gasoline blendstock for oxygenate blending (RBOB).

Motor Gasoline Retail Prices: Motor gasoline prices calculated each month by the Bureau of Labor Statistics (BLS) in conjunction with the construction of the Consumer Price Index (CPI). Those prices are collected in 85 urban areas selected to represent all urban consumers-about 80 percent of the total U.S. population. The service stations are selected initially, and on a replacement basis, in such a way that they represent the purchasing habits of the CPI population. Service stations in the current sample include those providing all types of service (i.e., full-, mini-, and self-service.

Motor Gasoline (Total): For stock level data, a sum including finished motor gasoline stocks plus stocks of

motor gasoline blending components but excluding stocks of oxygenates.

MTBE: See Methyl Tertiary Butyl Ether.

NAICS (North American Industry Classification System): A coding system developed jointly by the United States, Canada, and Mexico to classify businesses and industries according to the type of economic activity in which they are engaged. NAICS replaces the Standard Industrial Classification (SIC) codes. For additional information on NAICS, go to

http://www.census.gov/eos/www/naics/.

Naphtha: A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400° F.

Natural Gas: A gaseous mixture of hydrocarbon compounds, primarily methane, used as a fuel for electricity generation and in a variety of ways in buildings, and as raw material input and fuel for industrial processes.

Natural Gas, Dry: Natural gas which remains after: 1) the liquefiable hydrocarbon portion has been removed from the gas stream (i.e., gas after lease, field, and/or plant separation); and 2) any volumes of nonhydrocarbon gases have been removed where they occur in sufficient quantity to render the gas unmarketable. *Note:* Dry natural gas is also known as consumer-grade natural gas. The parameters for measurement are cubic feet at 60 degrees Fahrenheit and 14.73 pounds per square inch absolute.

Natural Gas (Dry) Production: The process of producing consumer-grade natural gas. Natural gas withdrawn from reservoirs is reduced by volumes used at the production (lease) site and by processing losses. Volumes used at the production site include 1) the volume returned to reservoirs in cycling, repressuring of oil reservoirs, and conservation operations; and 2) gas vented and flared. Processing losses include 1) nonhydrocarbon gases (e.g., water vapor, carbon dioxide, helium, hydrogen sulfide, and nitrogen) removed from the gas stream; and 2) gas converted to liquid form, such as lease condensate and plant liquids. Volumes of dry gas withdrawn from gas storage reservoirs are not considered part of production. Dry natural gas production equals marketed production less extraction loss.

Natural Gas Marketed Production: Gross withdrawals of natural gas from production reservoirs, less gas used for reservoir repressuring; nonhydrocarbon gases removed in treating and processing operations; and quantities vented and flared.

Natural Gas Plant Liquids (NGPL): Natural gas liquids recovered from natural gas in processing plants and, in some situations, from natural gas field facilities, as well as those extracted by fractionators. Natural gas plant

liquids are defined according to the published specifications of the Gas Processors Association and the American Society for Testing and Material as follows: ethane, propane, normal butane, isobutane, pentanes plus, and other products from natural gas processing plants (i.e., products meeting the standards for finished petroleum products produced at natural gas processing plants, such as finished motor gasoline, finished aviation gasoline, special naphthas, kerosene, distillate fuel oil, and miscellaneous products).

Natural Gas Wellhead Price: The wellhead price of natural gas is calculated by dividing the total reported value at the wellhead by the total quantity produced as reported by the appropriate agencies of individual producing States and the U.S. Minerals Management Service. The price includes all costs prior to shipment from the lease, including gathering and compression costs, in addition to State production, severance, and similar charges.

Natural Gasoline: A mixture of hydrocarbons (mostly pentanes and heavier) extracted from natural gas that meets vapor pressure, end-point, and other specifications for natural gasoline set by the Gas Processors Association. Includes isopentane, which is a saturated branch-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Net Summer Capacity: The maximum output, commonly expressed in **kilowatts** (kW) or megawatts (MW), that generating equipment can supply to system load, as demonstrated by a multi-hour test, at the time of summer peak demand (period of June 1 through September 30). This output reflects a reduction in capacity due to electricity use for station service or auxiliaries.

Neutral Zone: A 6,200 square-mile area shared equally between Kuwait and Saudi Arabia under a 1992 agreement. The Neutral Zone contains an estimated 5 billion barrels of oil and 8 trillion cubic feet of natural gas.

Nominal Dollars: A measure used to express **nominal price**.

Nominal Price: The price paid for a product or service at the time of the transaction. Nominal prices are those that have not been adjusted to remove the effect of changes in the purchasing power of the dollar; they reflect buying power in the year in which the transaction occurred.

Non-Biomass Waste: Material of non-biological origin that is a byproduct or a discarded product. "Non-biomass waste" includes municipal solid waste from non-biogenic sources, such as plastics, and tire-derived fuels.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

Nonrenewable Fuels: Fuels that cannot be easily made or "renewed," such as **crude oil**, **natural gas**, and **coal**.

Nuclear Electric Power (Nuclear Power): Electricity generated by the use of the thermal energy released from the fission of nuclear fuel in a reactor.

Nuclear Electric Power Plant: A single-unit or multiunit facility in which heat produced in one or more reactors by the fissioning of nuclear fuel is used to drive one or more steam turbines.

Nuclear Reactor: An apparatus in which a nuclear fission chain reaction can be initiated, controlled, and sustained at a specific rate. A reactor includes fuel (fissionable material), moderating material to control the rate of fission, a heavy-walled pressure vessel to house reactor components, shielding to protect personnel, a system to conduct heat away from the reactor, and instrumentation for monitoring and controlling the reactor's systems.

OECD: See Organization for Economic Cooperation and Development.

Offshore: That geographic area that lies seaward of the coastline. In general, the coastline is the line of ordinary low water along with that portion of the coast that is in direct contact with the open sea or the line marking the seaward limit of inland water.

Oil: See Crude Oil.

OPEC: See Organization of the Petroleum Exporting Countries.

Operable Unit (Nuclear): In the United States, a nuclear generating unit that has completed low-power testing and been issued a full-power operating license by the Nuclear Regulatory Commission, or equivalent permission to operate.

Organization for Economic Cooperation and Development (OECD): An international organization helping governments tackle the economic, social and governance challenges of a globalized economy. Its membership comprises about 30 member countries. With active relationships with some 70 other countries, non-governmental organizations (NGOs) and civil society, it has a global reach. For details about the organization, see http://www.oecd.org.

Organization of the Petroleum Exporting Countries (OPEC): An intergovernmental organization whose stated objective is to "coordinate and unify the petroleum policies of member countries." It was created at the Baghdad Conference on September 10–14, 1960. Current members (with years of membership) include Algeria (1969–present), Angola (2007–present), Ecuador (1973–1992 and 2007–present), Iran (1960–present), Iraq (1960–present), Kuwait (1960–present), Libya (1962–present), Nigeria

(1971–present), Qatar (1961–present), Saudi Arabia (1960–present), United Arab Emirates (1967–present), and Venezuela (1960–present). Countries no longer members of OPEC include Gabon (1975–1994) and Indonesia (1962–2008).

Oxygenates: Substances which, when added to gasoline, increase the amount of oxygen in that gasoline blend. Ethanol, Methyl Tertiary Butyl Ether (MTBE), Ethyl Tertiary Butyl Ether (ETBE), and methanol are common oxygenates.

PAD Districts: Petroleum Administration for Defense Districts. Geographic aggregations of the 50 States and the District of Columbia into five districts for the Petroleum Administration for Defense in 1950. The districts were originally instituted for economic and geographic reasons as Petroleum Administration for War (PAW) Districts, which were established in 1942.

Pentanes Plus: A mixture of hydrocarbons, mostly pentanes and heavier, extracted from natural gas. Includes isopentane, natural gasoline, and plant condensate.

Petrochemical Feedstocks: Chemical feedstocks derived from petroleum principally for the manufacture of chemicals, synthetic rubber, and a variety of plastics.

Petroleum: A broadly defined class of liquid hydrocarbon mixtures. Included are crude oil, lease condensate, unfinished oils, refined products obtained from the processing of crude oil, and natural gas plant liquids. Note: Volumes of finished petroleum products include nonhydrocarbon compounds, such as additives and detergents, after they have been blended into the products.

Petroleum Coke: See Coke, Petroleum.

Petroleum Consumption: See **Products Supplied** (Petroleum).

Petroleum Imports: Imports of petroleum into the 50 States and the District of Columbia from foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. territories and possessions. Included are imports for the Strategic Petroleum Reserve and withdrawals from bonded warehouses for onshore consumption, offshore bunker use, and military use. Excluded are receipts of foreign petroleum into bonded warehouses and into U.S. territories and U.S. Foreign Trade Zones.

Petroleum Products: Products obtained from the processing of crude oil (including lease condensate), natural gas, and other hydrocarbon compounds. Petroleum products include unfinished oils, liquefied petroleum gases, pentanes plus, aviation gasoline, motor gasoline, naphtha-type jet fuel, kerosene-type jet fuel, kerosene, distillate fuel oil, residual fuel oil, petrochemical feedstocks, special naphthas,

lubricants, waxes, petroleum coke, asphalt, road oil, still gas, and miscellaneous products.

Petroleum Stocks, Primary: For individual products, quantities that are held at refineries, in pipelines, and at bulk terminals that have a capacity of 50,000 barrels or more, or that are in transit thereto. Stocks held by product retailers and resellers, as well as tertiary stocks held at the point of consumption, are excluded. Stocks of individual products held at gas processing plants are excluded from individual product estimates but are included in other oils estimates and total.

Photovoltaic Energy: Direct-current electricity generated from sunlight through solid-state semiconductor devices that have no moving parts.

Pipeline Fuel: Gas consumed in the operation of pipelines, primarily in compressors.

Plant Condensate: One of the natural gas liquids, mostly pentanes and heavier hydrocarbons, recovered and separated as liquid at gas inlet separators or scrubbers in processing plants.

Primary Energy: Energy in the form that it is first accounted for in a statistical energy balance, before any transformation to secondary or tertiary forms of energy. For example, **coal** can be converted to synthetic gas, which can be converted to **electricity**; in this example, coal is primary energy, synthetic gas is secondary energy, and electricity is tertiary energy. See **Primary Energy Production** and **Primary Energy Consumption**.

Primary Energy Consumption: Consumption of primary energy. (Energy sources that are produced from other energy sources-e.g., coal coke from coal-are included in primary energy consumption only if their energy content has not already been included as part of the original energy source. Thus, U.S. primary energy consumption does include net imports of coal coke, but not the coal coke produced from domestic coal.) The U.S. Energy Information Administration includes the following in U.S. primary energy consumption: coal consumption; coal coke net imports; petroleum consumption (petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel); dry natural gas—excluding supplemental gaseous fuels—consumption; nuclear electricity net generation (converted to **Btu** using the nuclear plants **heat rate**); hydroelectricity conventional net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using

the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste consumption; fuel ethanol and biodiesel consumption; losses and co-products from the production of fuel ethanol and biodiesel; and electricity net imports (converted to Btu using the electricity heat content of 3,412 Btu per kilowatthour). See Total Energy Consumption.

Primary Energy Production: Production of primary The U.S. Energy Information Administration includes the following in U.S. primary energy production: coal production, waste coal supplied, and coal refuse recovery; crude oil and lease condensate production; natural gas plant liquids production; dry natural gas-excluding supplemental gaseous fuels-production; nuclear electricity net generation (converted to Btu using the nuclear plants heat rate); conventional hydroelectricity net generation (converted to Btu using the fossil-fueled plants heat rate); geothermal electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and geothermal heat pump energy and geothermal direct use energy; solar thermal and photovoltaic electricity net generation (converted to Btu using the fossil-fueled plants heat rate), and solar thermal direct use energy; wind electricity net generation (converted to Btu using the fossil-fueled plants heat rate); wood and wood-derived fuels consumption; biomass waste consumption; and biofuels feedstock.

Prime Mover: The engine, turbine, water wheel, or similar machine that drives an electric generator; or, for reporting purposes, a device that converts energy to electricity directly.

Products Supplied (Petroleum): Approximately represents consumption of petroleum products because it measures the disappearance of these products from primary sources, i.e., refineries, natural gas-processing plants, blending plants, pipelines, and bulk terminals. In general, product supplied of each product in any given period is computed as follows: field production, plus refinery production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports.

Propane: A normally gaseous straight-chain hydrocarbon (C_3H_8). It is a colorless paraffinic gas that boils at a temperature of -43.67° F. It is extracted from natural gas or refinery gas streams. It includes all products designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial propane and HD-5 propane.

Propylene: An olefinic hydrocarbon (C₃H₆) recovered from refinery or petrochemical processes.

Real Dollars: These are dollars that have been adjusted for inflation. See **Real Price**.

Real Price: A price that has been adjusted to remove the effect of changes in the purchasing power of the dollar. Real prices, which are expressed in constant dollars, usually reflect buying power relative to a base year.

Refiner Acquisition Cost of Crude Oil: The cost of crude oil to the refiner, including transportation and fees. The composite cost is the weighted average of domestic and imported crude oil costs.

Refinery and Blender Net Inputs: Raw materials, unfinished oils, and blending components processed at refineries, or blended at refineries or petroleum storage terminals to produce finished petroleum products. Included are gross inputs of crude oil, natural gas plant liquids, other hydrocarbon raw materials, hydrogen, oxygenates (excluding fuel ethanol), and renewable fuels (including fuel ethanol). Also included are net inputs of unfinished oils, motor gasoline blending components, and aviation gasoline blending components. Net inputs are calculated as gross inputs minus gross production. Negative net inputs indicate gross inputs are less than gross production. Examples of negative net inputs include reformulated gasoline blendstock for oxygenate blending (RBOB) produced at refineries for shipment to blending terminals, and unfinished oils produced and added to inventory in advance of scheduled maintenance of a refinery crude oil distillation unit.

Refinery and Blender Net Production: Liquefied refinery gases, and finished petroleum products produced at a refinery or petroleum storage terminal blending facility. Net production equals gross production minus gross inputs. Negative net production indicates gross production is less than gross inputs for a finished petroleum product. Examples of negative net production include reclassification of one finished product to another finished product, or reclassification of a finished product to unfinished oils or blending components.

Refinery (Petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

Refuse Mine: A surface site where **coal** is recovered from previously mined coal. It may also be known as a silt bank, culm bank, refuse bank, slurry dam, or dredge operation.

Refuse Recovery: The recapture of **coal** from a **refuse mine** or the coal recaptured by that process. The resulting product has been cleaned to reduce the concentration of noncombustible materials.

Renewable Energy: Energy obtained from sources that are essentially inexhaustible (unlike, for example, the fossil fuels, of which there is a finite supply). Renewable sources of energy include conventional hydrolectric power, biomass, geothermal, solar, and wind.

Repressuring: The injection of a pressurized fluid (such as air, gas, or water) into oil and gas reservoir formations to effect greater ultimate recovery.

Residential Sector: An energy-consuming sector that consists of living quarters for private households. Common uses of energy associated with this sector include space heating, water heating, air conditioning, lighting, refrigeration, cooking, and running a variety of other appliances. The residential sector excludes institutional living quarters. *Note:* Various EIA programs differ in sectoral coverage for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebres.htm. See **End-Use Sectors** and **Energy-Use Sectors**.

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC (Standard Industrial Classification): A set of codes developed by the U.S. Office of Management and Budget which categorizes industries into groups with similar economic activities. Replaced by NAICS (North American Industry Classification System).

Solar Energy: See **Solar Thermal Energy** and **Photovoltaic Energy**.

Solar Thermal Energy: The radiant energy of the sun that can be converted into other forms of energy, such as heat or **electricity**.

Special Naphthas: All finished products within the naphtha boiling ranges that are used as paint thinner, cleaners or solvents. Those products are refined to a specified flash point. Special naphthas include all commercial hexane and cleaning solvents conforming to ASTM Specifications D1836 and D484, respectively. Naphthas to be blended or marketed as motor gasoline or aviation gasoline, or that are to be used as petrochemical and synthetic natural gas (SNG) feedstocks, are excluded.

Station Use: Energy that is used to operate an **electric power plant**. It includes energy consumed for plant lighting, power, and auxiliary facilities, regardless of whether the energy is produced at the plant or comes from another source.

Steam Coal: All nonmetallurgical coal.

Steam-Electric Power Plant: A plant in which the prime mover is a steam turbine. The steam used to drive the turbine is produced in a boiler where fossil fuels are burned.

Still Gas (Refinery Gas): Any form or mixture of gas produced in refineries by distillation, cracking, reforming, and other processes. The principal constituents are methane, ethane, ethylene, normal butane, butylene, propane, and propylene. It is used primarily as refinery fuel and, petrochemical feedstock.

Stocks: See Coal Stocks, Crude Oil Stocks, or Petroleum Stocks, Primary.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Subbituminous Coal: A coal whose properties range from those of lignite to those of bituminous coal and used primarily as fuel for steam-electric power generation. It may be dull, dark brown to black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per short ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 17 to 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

Supplemental Gaseous Fuels: Synthetic natural gas, propane-air, coke oven gas, refinery gas, biomass gas, air injected for Btu stabilization, and manufactured gas commingled and distributed with natural gas.

Synthetic Natural Gas (SNG): (Also referred to as substitute natural gas) A manufactured product, chemically similar in most respects to **natural gas**, resulting from the conversion or reforming of **hydrocarbons** that may easily be substituted for or interchanged with pipeline-quality natural gas.

Thermal Conversion Factor: A factor for converting data between physical units of measure (such as barrels, cubic feet, or short tons) and thermal units of measure (such as British thermal units, calories, or joules); or for converting data between different thermal units of measure. See Btu Conversion Factor.

Total Energy Consumption: Primary energy consumption in the end-use sectors, plus electricity retail sales and electrical system energy losses.

Transportation Sector: An energy-consuming sector that consists of all vehicles whose primary purpose is transporting people and/or goods from one physical location to another. Included are automobiles; trucks; buses; motorcycles; trains, subways, and other rail vehicles; aircraft; and ships, barges, and other waterborne vehicles. Vehicles whose primary purpose is not transportation (e.g., construction cranes and bulldozers, farming vehicles, and warehouse tractors and forklifts) are classified in the sector of their primary use. Note: Various EIA programs differ in sectoral coverage-for more information see

http://www.eia.gov/neic/datadefinitions/Guideforwebtrans.htm See End-Use Sectors and Energy-Use Sectors.

Underground Storage: The storage of natural gas in underground reservoirs at a different location from which it was produced.

Unfinished Oils: All oils requiring further refinery processing except those requiring only mechanical blending. Includes naphthas and lighter oils, kerosene and light gas oils, heavy gas oils, and residuum.

Unfractionated Stream: Mixtures of unsegregated natural gas liquid components, excluding those in plant condensate. This product is extracted from natural gas.

Union of Soviet Socialist Republics (U.S.S.R.): A political entity that consisted of 15 constituent republics: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. The U.S.S.R. ceased to exist as of December 31, 1991.

United States: The 50 States and the District of Columbia. Note: The United States has varying degrees of jurisdiction over a number of territories and other political entities outside the 50 States and the District of Columbia, including Puerto Rico, the U.S. Virgin Islands, Guam, American Samoa, Johnston Atoll, Midway Islands, Wake Island, and the Northern Mariana Islands. EIA data programs may include data from some or all of these areas in U.S. totals. For these programs, data products will contain notes explaining the extent of geographic coverage included under the term "United States."

Useful Thermal Output: The thermal energy made available in a combined-heat-and-power system for use in any industrial or commercial process, heating or cooling application, or delivered to other end users, i.e., total thermal energy made available for processes and applications other than electrical generation.

U.S.S.R.: See Union of Soviet Socialist Republics (U.S.S.R.).

Vented Natural Gas: Gas released into the air on the production site or at processing plants.

Vessel Bunkering: Includes sales for the fueling of commercial or private boats, such as pleasure craft, fishing boats, tugboats, and ocean-going vessels, including vessels operated by oil companies. Excluded are volumes sold to the U.S. Armed Forces.

Waste Coal: Usable material that is a byproduct of previous coal processing operations. Waste coal is usually composed of mixed coal, soil, and rock (mine waste). Most waste coal is burned as-is in unconventional fluidized-bed combustors. For some uses, waste coal may be partially cleaned by removing some extraneous noncombustible constituents. Examples of waste coal include fine coal, coal obtained from a refuse bank or slurry dam, anthracite culm, bituminous gob, and lignite waste.

Waste: See Biomass Waste and Non-Biomass Waste.

Watt (W): The unit of electrical power equal to one ampere under a pressure of one volt. A watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to one watt of power supplied to, or taken from, an electric circuit steadily for one hour.

Waxes: Solid or semisolid material derived from petroleum distillates or residues. Waxes are light-colored, more or less translucent crystalline masses, slightly greasy to the touch, consisting of a mixture of solid hydrocarbons in which the paraffin series predominates. Included are all marketable waxes, whether crude scale or fully refined. Waxes are used primarily as industrial coating for surface protection.

Wellhead Price: The value of crude oil or natural gas at the mouth of the well.

Wind Energy: Kinetic energy present in wind motion that can be converted to mechanical energy for driving pumps, mills, and electric power generators.

Wood and Wood-Derived Fuels: Wood and products derived from wood that are used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, paper pellets, railroad ties, utility poles, black liquor, red liquor, sludge wood, spent sulfite liquor, and other wood-based solids and liquids.

Working Gas: The volume of gas in a reservoir that is in addition to the base gas. It may or may not be completely withdrawn during any particular withdrawal season. Conditions permitting, the total working capacity could be used more than once during any season.