

Monthly Energy Review

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

Publication of this report 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), that:

"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 in other EIA publications.

Related publications: Other monthly EIA reports are *Petroleum Supply Monthly*, *Petroleum Marketing Monthly*, *Natural Gas Monthly*, *Electric Power Monthly*, and *International Petroleum Monthly*. All are available on the Web at: http://www.eia.doe.gov.

Readers of the *MER* may also be interested in EIA's *Annual Energy Review*, where many of the same data series are provided annually beginning with 1949. Contact our National Energy Information Center at 202-586-8800 for more information or go to: http://www.eia.doe.gov/aer.

Ordering Information

Complimentary subscriptions and single issues are available to certain groups of subscribers, such as public and academic libraries; Federal, State, local, and foreign governments; EIA survey respondents; and the media. For further information and for answers to questions on energy statistics, contact:

National Energy Information Center, EI–30 Energy Information Administration Forrestal Building, Room 1E–238 Washington, DC 20585 202–586–8800

9:00 a.m. to 5:00 p.m., Eastern time, M-F

Fax: 202-586-0727

Internet E-Mail: infoctr@eia.doe.gov

This and other EIA publications may be **purchased** from the U.S. Government Printing Office:

Internet U.S. Government Online Bookstore
 Phone DC Metro Area: 202-512-1800

Toll-Free: 866-512-1800

7:30 a.m. - 9:00 p.m., Eastern time, M-F

• Fax 202-512-2250

 Mail Superintendent of Documents P.O. Box 371954

Pittsburgh. PA 15250-7954

Teletype 710-822-822-9413; ANSWERBACK USGPO WSH

For additional information see:

http://bookstore.gpo.gov/support/index.html.

The Monthly Energy Review (ISSN 0095-7356) is published monthly by the Energy Information Administration, 1000 Independence Avenue, SW, Washington, DC 20585, and sells for \$147.00 per year (price subject to change without advance notice). Periodical postage paid at Washington, DC 20066-9998, and additional mailing offices. POSTMASTER: Send address changes to Monthly Energy Review, Energy Information Administration, EI-30, 1000 Independence Avenue, SW, Washington, DC 20585-0623.

Electronic Access

The *MER* is available on EIA's Web site in a variety of formats at: http://www.eia.doe.gov/mer

- Tables: Excel (XLS) files and Portable Document Format (PDF) files.
- Database Files (unrounded monthly data 1973 forward by table): ASCII comma-delimited files.
- Graph pages, MER sections, and complete MER: PDF files.

Cover Image: Optical glass fibers, though many times thinner than a human hair, carry vastly greater quantities of data than metallic wires, occupy less space, and are more secure. First introduced in the 1970s, high-purity optical fibers are capable of transmitting data over long distances and have replaced wires in many telecommunications, computing, and electronics applications.

Timing of release: *MER* data are normally released in the afternoon of the third-to-last workday of each month and are usually available electronically the following day.

Released for Printing: November 23, 2004



Printed with soy ink on recycled paper.

Monthly Energy Review

November 2004

Energy Information Administration
Office of Energy Markets and End Use
U.S. Department of Energy
Washington, DC 20585

This report was prepared by the Energy Information Administration, the independent statistical and analytical agency within the U.S. Department of Energy. The information contained herein should be attributed to the Energy Information Administration and should not be construed as advocating or reflecting any policy of the Department of Energy or any other organization.

Contacts

The *Monthly Energy Review* is prepared by the Energy Information Administration, Office of Energy Markets and End Use, Integrated Energy Statistics Division, Domestic Energy Statistics Team, under the direction of Katherine E. Seiferlein, 202-586-5695 (kitty.seiferlein@eia.doe.gov). Questions and comments specifically related to the *Monthly Energy Review* may be addressed to Diane D. Perritt, 202-586-2788 (diane.perritt@eia.doe.gov), or Michelle Burch, 202-586-5850 (michelle.burch@eia.doe.gov).

For assistance in acquiring data, please contact the **National Energy Information Center at 202-586-8800 or infoctr@eia.doe.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
Section	2.	Energy Consumption by Sector	Dianne R. Dunn	dianne.dunn@eia.doe.gov 202-586-2792 dianne.dunn@eia.doe.gov
Section	3.	Petroleum	Michael Conner	202-586-1795 michael.conner@eia.doe.gov
Section	4.	Natural Gas	Roy Kass	202-586-4790 nathaniel.kass@eia.doe.gov
Section	5.	Crude Oil and Natural Gas Resource Development	Robert F. King	202-586-4787 robert.king@eia.doe.gov
Section	6.	Coal	Mary L. Lilly	202-287-1742 mary.lilly@eia.doe.gov
Section	7.	Electricity	Melvin E. Johnson	202-287-1754 melvin.johnson@eia.doe.gov
Section	8.	Nuclear Energy	John R. Moens	202-287-1976 john.moens@eia.doe.gov
Section	9.	Energy Prices		
		Petroleum	Patricia Wells	202-586-4885 patricia.wells@eia.doe.gov
		Natural Gas	Roy Kass	202-586-4790 nathaniel.kass@eia.doe.gov
		Average Retail Prices of Electricity		ssell 202-287-1747 ene.harris-russell@eia.doe.gov
		Cost of Fuel at Electric Generating Plants	Stephen Scott	202-287-1737 stephen.scott@eia.doe.gov
Section	10.	Renewable Energy	Louise Guey-Lee	202-287-1731 louise.guey-lee@eia.doe.gov
Section	11.	International Petroleum		
		World Crude Oil Production	Patricia Smith	202-586-6925 patricia.smith@eia.doe.gov
		Petroleum Consumption and Stocks		202-586-1446 athy.washington@eia.doe.gov

Contents

			Page
Energy Plug:	Oil	Market Basics	ix
Section	1.	Energy Overview	1
Section	2.	Energy Consumption by Sector.	23
Section	3.	Petroleum	41
Section	4.	Natural Gas	71
Section	5.	Crude Oil and Natural Gas Resource Development	81
Section	6.	Coal	87
Section	7.	Electricity	95
Section	8.	Nuclear Energy	. 117
Section	9.	Energy Prices.	. 121
Section	10.	Renewable Energy	. 141
Section	11.	International Petroleum	. 149
Appendix	A.	Thermal Conversion Factors	. 159
Appendix	B.	Metric and Other Physical Conversion Factors	. 169
Appendix	C.	List of Energy Plugs	. 173
Glossary			. 175

Tables

		Page
Section	1.	Energy Overview
1.1		Energy Overview
1.2		Energy Production by Source. 5
1.3		Energy Consumption by Source. 7
1.4		Energy Net Imports by Source. 9
1.5		Merchandise Trade Value
1.6		Cost of Fuels to End Users in Constant (1982-1984) Dollars.
1.7		Overview of U.S. Petroleum Trade
1.8		Energy Consumption per Dollar of Gross Domestic Product
1.9		Motor Vehicle Mileage, Fuel Consumption, and Fuel Rates
1.10		Heating Degree-Days by Census Division
1.11		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
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
Section	3.	Petroleum
3.1	••	Petroleum Overview
3.1		3.1a Field Production, Stock Change, Petroleum Products Supplied, and Stocks
		3.1b Imports, Exports, and Net Imports
2.2		
3.2		Crude Oil Supply and Disposition
		3.2a Supply
		3.2b Disposition and Stocks
3.3		Petroleum Imports From
		3.3a Bahrain, Iran, Iraq, and Kuwait
		3.3b Qatar, Saudi Arabia, U.A.E., and Total Persian Gulf
		3.3c Algeria, Ecuador, Gabon, Indonesia, and Libya
		3.3d Nigeria, Venezuela, Total Other OPEC, and Total OPEC
		3.3e Angola, Australia, Bahamas, Brazil, Canada, and China
		3.3f Colombia, Ecuador, Gabon, Italy, Malaysia, and Mexico
		3.3g Netherlands, Netherlands Antilles, Norway, Puerto Rico, Russia, and Spain
		3.3h Trinidad and Tobago, United Kingdom, U.S. Virgin Islands, Other Non-OPEC,
		Total Non-OPEC, and Total Imports
3.4		Finished Motor Gasoline Supply and Disposition
3.5		Distillate Fuel Oil Supply and Disposition
3.6		Residual Fuel Oil Supply and Disposition
3.7		Jet Fuel Supply and Disposition
3.8		Liquefied Petroleum Gases Supply and Disposition
3.9		Propane and Propylene Supply and Disposition
3.10		Other Petroleum Products Supply and Disposition
Section	4	Natural Gas
4.1	-7.	Natural Gas Overview
4.1		
		Natural Gas Production
4.3		Natural Gas Trade by Country
4.4		Natural Gas Consumption by Sector
4.5		Natural Gas in Underground Storage

Tables (Continued)

		I	Page
Section	5.	Crude Oil and Natural Gas Resource Development	
5.1		Crude Oil and Natural Gas Drilling Activity Measurements	
5.2		Crude Oil and Natural Gas Wells Drilled.	
5.3		Maximum U.S. Active Seismic Crew Counts	85
Section	6.	Coal	
6.1		Coal Overview.	. 89
6.2		Coal Consumption by Sector.	
6.3		Coal Stocks by Sector.	91
Section	7.	Electricity	
7.1		Electricity Overview.	97
7.2		Electricity Net Generation	
		7.2a Total (All Sectors)	. 99
		7.2b Electric Power Sector	100
		7.2c Commercial and Industrial Sectors	101
7.3		Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output	
		7.3a Total (All Sectors)	103
		7.3b Electric Power Sector	104
		Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output	
		7.3c Commercial and Industrial Sectors	105
		Consumption of Combustible Fuels for Electricity Generation	
		7.3d Total (All Sectors)	107
		7.3e Electric Power Sector	108
		Estimated Consumption of Selected Combustible Fuels for Electricity Generation	
		7.3f Commercial and Industrial Sectors	109
7.4		Stocks of Coal and Petroleum: Electric Power Sector.	111
7.5		Electricity End Use.	113
Section	8.	Nuclear Energy	
8.1		Nuclear Energy Overview.	119
Section	9.	Energy Prices	
9.1		Crude Oil Price Summary	123
9.2		F.O.B. Costs of Crude Oil Imports From Selected Countries.	124
9.3		Landed Costs of Crude Oil Imports From Selected Countries.	
9.4		Motor Gasoline Retail Prices, U.S. City Average.	
9.5		Refiner Prices of Residual Fuel Oil.	
9.6		Refiner Prices of Petroleum Products for Resale.	
9.7		Refiner Prices of Petroleum Products to End Users.	129
9.8		No. 2 Distillate Prices to Residences	
		9.8a Northeastern States	
		9.8b Selected South Atlantic and Midwestern States	
		9.8c Selected Western States and U.S. Average	
9.9		Average Retail Prices of Electricity	
9.10		Cost of Fossil-Fuel Receipts at Electric Generating Plants.	
9.11		Natural Gas Prices.	137

Tables (Continued)

Section	10. Renewable Energy	
10.1	Renewable Energy Consumption by Source	143
10.2	Estimated Renewable Energy Consumption	
	10.2a Residential and Commercial Sectors	144
	10.2b Industrial and Transportation Sectors	145
	Renewable Energy Consumption	
	10.2c Electric Power Sector	146
Section	11. International Petroleum	
11.1	Crude Oil Production	
	11.1a OPEC Members.	
	11.1b Persian Gulf Nations, Non-OPEC, and World	
11.2	Petroleum Consumption in OECD Countries.	
11.3	Petroleum Stocks in OECD Countries.	157
Appendi	x A. Thermal Conversion Factors	
A1.	Approximate Heat Content of Petroleum Products	159
A2.	Approximate Heat Content of Crude Oil, Total Petroleum, and Natural Gas Plant Liquids	160
A3.	Approximate Heat Content of Petroleum Product Weighted Averages	161
A4.	Approximate Heat Content of Natural Gas	162
A5.	Approximate Heat Content of Coal and Coal Coke	163
A6.	Approximate Heat Rates for Electricity	164
Appendi	x B. Metric and Other Physical Conversion Factors	
B1.	Metric Conversion Factors	170
B2.	Metric Prefixes	171
В3.	Other Physical Conversion Factors	171

Figures

a	_	Page
Section	1.	Energy Overview
1.1		Energy Overview
1.2 1.3		Energy Production
1.3		Energy Consumption. 6
1.4		Energy Net Imports. 8 Merchandise Trade Value. 10
1.5		Cost of Fuels to End Users in Constant (1982-1984) Dollars
1.7		Overview of U.S. Petroleum Trade.
1.7		Energy Consumption per Dollar of Gross Domestic Product
1.8		Motor Vehicle Fuel Rates
1.9		venicle ruci Rates
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
Section	3	Petroleum
3.1	٠.	Petroleum
5.1		3.1a Overview and Production
		3.1b Products Supplied, Imports, and Stocks
3.2		Finished Motor Gasoline
3.3		Distillate Fuel Oil. 58
3.4		Residual Fuel Oil. 60
3.5		Jet Fuel. 62
3.6		Liquefied Petroleum Gases
3.7		Propane and Propylene
~ .		
Section	4.	Natural Gas
4.1		Natural Gas. 72
Section	5.	Crude Oil and Natural Gas Resource Development
5.1		Crude Oil and Natural Gas Resource Development Indicators
		•
Section	6.	Coal
6.1		Coal
Section	7.	Electricity
7.1		Electricity Overview
7.2		Electricity Net Generation
7.3		Consumption of Selected Combustible Fuels
		7.3a For Electricity Generation and Useful Thermal Output
		7.3b For Electricity Generation
7.4		Stocks of Coal and Petroleum: Electric Power Sector
7.5		Electricity End Use
Continu	0	Nyaloon Engagy
Section 8.1	o.	Nuclear Energy Nuclear Energy Overview
0.1		- 1 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1

Figures (Continued)

			Page
Section	9.	Energy Prices	Ü
9.1		Petroleum Prices.	. 122
9.2		Average Retail Prices of Electricity	133
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.	. 142
Section	11.	International Petroleum	
11.1		Crude Oil Production	
		11.1a Overview	. 152
		11.1b By Selected Country	. 153
11.2		Petroleum Consumption in OECD Countries	
11.3		Petroleum Stocks in OECD Countries.	

Energy Plug

Oil Market Basics

"Oil Market Basics" is a Web-based primer on oil markets from the Energy Information Administration (EIA). Text, graphs, and illustrations guide readers through petroleum industry concepts including exploration and production, demand, trade, refining, stocks, pricing, and important trends and patterns in the data. By design, "Oil Market Basics" does not provide the most current energy data, but includes more than 400 links to EIA's petroleum data and many non-EIA sources of related information. "Oil Market Basics" is divided into 6 main sections.

Supply provides an overview of oil exploration and production. Topics in the supply section include:

- what oil is and where it comes from;
- drilling for oil;
- how oil is produced;
- global supply by region;
- U.S. oil production.

Demand examines how oil is used. Petroleum products can be burned to produce energy, or used as a raw material to create petrochemicals and products such as plastics, polyurethane, solvents, and other goods. Topics include:

- global oil consumption;
- U.S. consumption by sector, product, and region;
- how oil consumption is measured.

Trade looks at petroleum trade and transportation. In terms of volume, value, and carrying capacity, there is more trade in petroleum—crude oil and products—than any other commodity. Topics include:

- global patterns of oil trade;
- trade volume and value;
- tankers and pipelines;
- import dependency;
- U.S. trade flows.

Refining focuses on processes used to manufacture finished petroleum products out of crude oil. Topics in the refining section include:

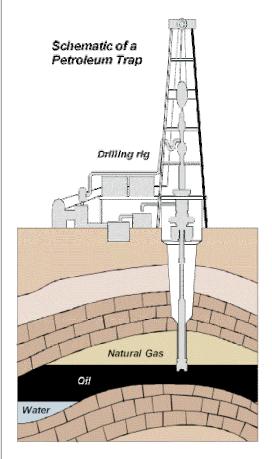
- simple distillation (the core refining process);
- downstream processing;
- crude oil quality;
- U.S. and world refining capacity;
- refinery profitability;
- industry structure.

Stocks are a critical component in the oil supply chain. Commercial stocks are needed to keep the global supply system operating smoothly.

Strategic stocks act as a buffer against severe supply interruptions. Topics in this section include:

- why stocks are important;
- seasonal variations in commercial stocks;
- issues relating to inventory costs and profits.

Prices presents the basic factors that influence day-to-day pricing of crude oil and peroleum products, and factors that can cause severe market disruptions. This section also describes several different types of transactions that are common in oil markets, and analyzes the sources of seasonal price swings.



Source: Energy Information Administration.

"Oil Market Basics" is available on the EIA Web site at eia.doe.gov. Under "By Fuel," select "Petroleum" and then this title. Questions about the contents of "Oil Market Basics" should be directed to Laurie Falter, Office of Oil and Gas, at laurie.falter@eia.doe.gov or 202–586–1805. For general information about energy, contact the National Energy Information Center at infoctr@eia.doe.gov or 202–586–8800.

Section 1. Energy Overview

Energy production during August 2004 totaled 6.0 quadrillion Btu, a 1.6-percent increase compared with the level of production during August 2003. Production of coal increased 5.9 percent; crude oil decreased 5.7 percent; conventional hydroelectric power decreased 5.2 percent; and natural gas (dry) increased slightly, compared with the level of production during August 2003.

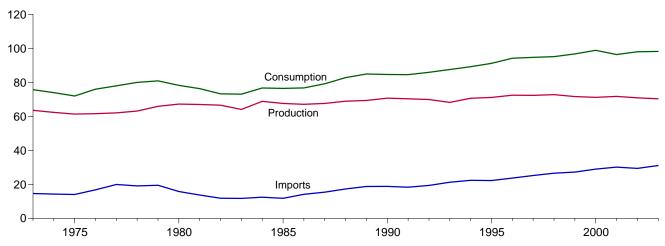
Energy consumption during August 2004 totaled 8.3 quadrillion Btu, a 0.8-percent decrease compared with the level of consumption during August 2003. Consumption of natural gas decreased 4.3 percent; nuclear electric power

increased 2.9 percent; coal decreased 2.2 percent; and petroleum increased 0.7 percent, compared with the level 1 year earlier.

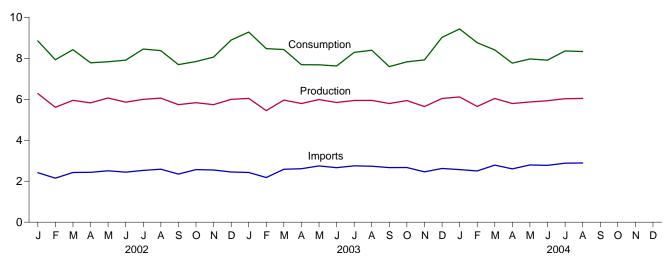
Net imports of energy during August 2004 totaled 2.5 quadrillion Btu, 5.7 percent above the level of net imports 1 year earlier. Coal net exports decreased 21.8 percent; petroleum products net imports increased 8.8 percent; crude oil net imports increased 4.2 percent; and natural gas net imports increased 4.1 percent, compared with the level in August 2003.

Figure 1.1 Energy Overview (Quadrillion Btu)

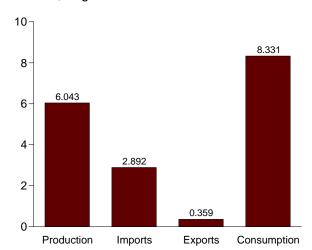
Consumption, Production, and Imports, 1973-2003



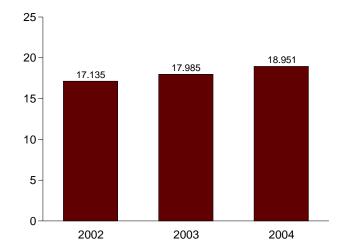
Consumption, Production, and Imports, Monthly



Overview, August 2004



Net Imports, January-August



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.

Sources: Tables 1.1 and 1.4.

Table 1.1 Energy Overview

(Quadrillion Btu)

	Production	Imports	Exports	Adjustments ^a	Consumption
1973 Total	63.585	14.613	2.033	-0.456	75.708
1974 Total	62.372	14.304	2.203	482	73.991
1975 Total	61.357	14.032	2.323	-1.067	71.999
1976 Total	61.602	16.760	2.172	178	76.012
1977 Total	62.052	19.948	2.052	-1.948	78.000
1978 Total	63.137	19.106	1.920	337	79.986
1979 Total	65.948	19.460	2.855	-1.649	80.903
1980 Total	67.241	15.796	3.695	-1.054	78.289
1981 Total	67.007	13.719	4.307	077	76.342
1982 Total	66.574	11.861	4.608	575	73.253
1983 Total	64.106	11.752	3.693	.935	73.101
1984 Total	68.832	12.471	3.786	781	76.736
1985 Total	67.647	11.781	4.196	1.238	76.469
1986 Total	67.087	14.151	4.021	435	76.782
1987 Total	67.608	15.398	3.812	.032	79.225
1988 Total	68.951	17.296	4.366	.964	82.844
1989 Total	69.364	18.766	4.661	1.487	84.957
1990 Total	70.729	18.817	4.752	126	84.668
1991 Total	70.362	18.335	5.141	1.040	84.595
1992 Total	69.933	19.372	4.937	1.581	85.949
1993 Total	68.260	21.273	4.258	2.303	87.578
1994 Total	70.676	22.390	4.061	.243	89.248
1995 Total	71.156	22.260	4.511	2.315	91.221
1996 Total	72.472	23.702	4.633	2.683	94.224
1997 Total	72.389	25.215	4.514	1.637	94.727
1998 Total	72.787	26.581	4.299	.078	95.146
1999 Total	71.652	27.252	3.715	1.585	96.774
2000 Total	71.218	28.973	4.006	2.720	98.905
2001 Total	71.792	30.157	3.770	-1.800	96.378
2002 January	6.278	2.414	.292	.449	8.849
February	5.607	2.148	.290	.463	7.928
March	5.947	2.427	.266	.313	8.421
April	5.826	2.434	.292	186	7.782
May	6.063	2.510	.294	449	7.830
June	5.858	2.442	.308	082	7.910
July	5.997	2.528	.270	.197	8.452
August	6.052	2.588	.344	.077	8.374
September	5.739	2.349	.301	096	7.691
October	5.833	2.566	.333	223	7.843
November	5.736	2.550	.313	.083	8.057
December	5.995	2.450	.359	.802	8.888
Total	70.933	29.406	3.661	1.348	98.026
2003 January	6.041	2.428	.377	1.189	9.281
February	5.445	2.180	.300	1.145	8.470
March	5.959	2.584	.316	^R .201	R 8.428
April	5.794	2.612	.333	^R 385	7.688
May	5.984	2.746	.357	^R 691	^R 7.683
June	5.844	2.660	.351	528	7.625
July	5.939	2.751	.339	064	^R 8.287
August	5.946	2.730	.334	R .052	R 8.394
September	5.792	2.665	.325	537	7.594
October	5.938	2.668	.349	^R 431	^R 7.826
November	5.645	2.457	.338	R .157	^R 7.921
December	6.040	2.623	.345	к.704	^R 9.022
Total	70.367	31.107	4.065	R .812	R 98.220
2004 January	6.112	2.567	R .289	R _{1.042}	9.432
February	5.647	2.502	R .303	R .913	^R 8.758
March	6.038	R 2.787	R .379	R037	R 8.409
April	_ 5.791	R 2.604	R .401	^R 229	^R 7.765
May	^R 5.866	R 2.795	R .380	^R 315	^R 7.966
June	^R 5.928	R 2.774	R .380	R415	7.908
July	6.026	R 2.879	.357	^R 190	R 8.358
August	6.043	2.892	.359	245	8.331
8-Month Total	47.451	21.800	2.849	.526	66.928
2003 8-Month Total	46.952	20.693	2.708	.919	65.856

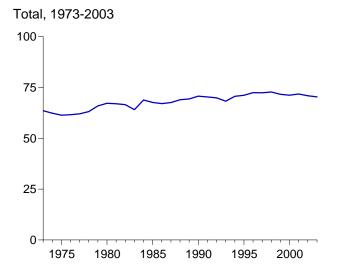
^a A balancing item. Includes stock changes, losses, gains, miscellaneous blending components, and unaccounted-for supply. R=Revised.

Notes: • For definitions, see Notes 1 through 4 at end of section.

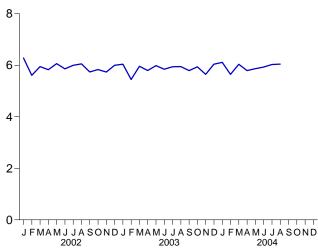
Totals may not equal sum of components due to independent rounding.

[•] Geographic coverage is the 50 States and the District of Columbia. Web Page: http://www.eia.doe.gov/emeu/mer/overview.html. Sources: • Production: Table 1.2. • Consumption: Table 1.3. • Imports and Exports: Tables 3.1b, 4.3, 6.1, 7.1, A2-A6, and Section 2, "Energy Consumption Notes and Sources," Note 5.

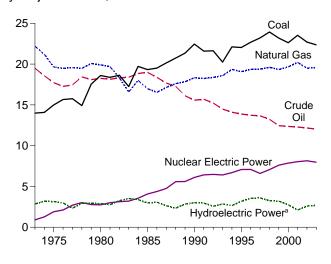
Figure 1.2 Energy Production (Quadrillion Btu)



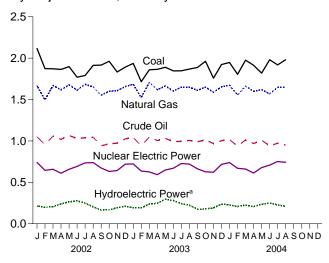




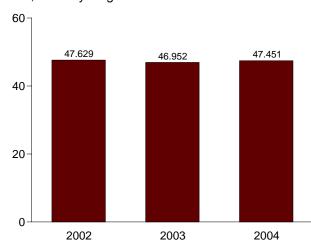
By Major Sources, 1973-2003



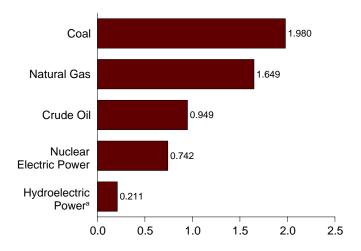
By Major Sources, Monthly



Total, January-August



By Major Sources, August 2004



^aConventional and pumped storage hydroelectric power. Note: Because vertical scales differ, graphs should not be compared.

Web Page: http://www.eia.doe.gov/emeu/mer/overview.html. Source: Table 1.2.

Table 1.2 Energy Production by Source

(Quadrillion Btu)

	Fossil Fuels								Renewab	le Energy	а		
	Coal	Natural Gas (Dry)	Crude Oil ^b	Natural Gas Plant Liquids	Total	Nuclear Electric Power	Hydro- electric Pumped Storage ^C	Conventional Hydroelectric Power	Wood, Waste, Alcohol ^d	Geo- thermal	Solar and Wind	Total	Total
1973 Total 1974 Total 1975 Total 1976 Total 1976 Total 1977 Total 1978 Total 1979 Total 1980 Total 1981 Total 1982 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1987 Total 1988 Total 1989 Total 1999 Total 1999 Total 1999 Total 1991 Total 1992 Total 1993 Total 1994 Total 1995 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 1997 Total 1998 Total 1997 Total 1998 Total 1998 Total	13.992 14.074 14.989 15.654 15.755 14.910 17.540 18.598 18.377 18.639 17.247 19.719 19.325 19.509 20.141 20.738 21.346 22.456 21.594 21.629 20.249 22.111 22.029 22.684 23.211 23.935 23.186	22.187 21.210 19.640 19.480 19.565 19.485 20.076 19.908 19.699 18.319 16.593 18.008 16.541 17.136 17.136 17.136 18.329 18.375 18.384 19.348 19.348 19.344 19.344 19.344 19.613 19.613	19.493 18.575 17.729 17.262 17.454 18.434 18.104 18.249 18.146 18.309 18.392 18.848 18.992 18.376 17.675 17.279 16.117 15.571 15.701 15.223 13.658 13.235 12.451 12.358	2.569 2.471 2.374 2.327 2.245 2.286 2.254 2.307 2.191 2.184 2.274 2.241 2.149 2.215 2.260 2.158 2.175 2.306 2.363 2.408 2.391 2.442 2.523 2.495 2.420 2.528	58.241 56.331 54.733 55.101 55.074 58.006 59.008 58.529 57.458 54.416 58.849 57.539 56.575 57.167 57.829 57.590 55.736 57.952 57.440 58.529 57.590 55.736 57.952 57.440 58.758 59.204 57.505 57.254	0.910 1.272 1.900 2.111 2.702 3.024 2.776 2.739 3.008 3.131 3.203 3.553 4.076 4.380 4.754 5.587 5.602 6.104 6.422 6.479 6.410 6.694 7.075 7.068 7.610 7.862	(e)	2.861 3.177 3.155 2.976 2.333 2.937 2.931 2.900 2.758 3.266 3.527 3.386 2.970 3.071 2.635 2.334 2.837 3.046 3.016 2.617 2.892 2.683 3.205 3.590 3.640 3.297 3.268 2.811	1.529 1.540 1.499 1.713 1.838 2.038 2.152 2.485 2.590 2.615 2.831 2.880 2.864 2.841 2.823 2.937 3.062 2.662 2.702 2.847 2.803 2.939 3.068 3.127 3.006 2.835 2.885 2.8907	0.043 .053 .070 .078 .077 .064 .084 .110 .123 .105 .129 .165 .198 .219 .229 .217 .317 .336 .346 .349 .349 .35 .349 .35 .328 .331	NA N	4.433 4.769 4.723 4.768 4.249 5.039 5.166 5.494 5.471 5.985 6.488 6.431 6.033 6.132 5.687 5.489 6.133 6.158 5.907 6.294 6.133 6.158 5.905 6.665 6.665 6.665 6.561 6.5561	63.585 62.372 61.357 61.602 62.052 63.137 65.948 67.241 67.007 66.574 64.106 68.832 67.647 67.608 68.832 67.647 67.087 67.608 68.951 69.364 70.729 70.362 69.363 70.676 71.156 72.472 72.389 72.787 71.652 71.218
2001 Total	23.529 2.117 1.873 1.871 1.864 1.897 1.770 1.791 1.912 1.916 1.962 1.833 1.891 22.698	20.205 1.669 1.496 1.669 1.617 1.677 1.613 1.684 1.652 1.554 1.601 1.607 1.657	12.282 1.051 .954 1.058 1.019 1.065 1.029 1.037 1.045 .942 .964 .974 1.025 12.163	2.547 .211 .198 .220 .215 .224 .209 .213 .224 .212 .217 .212 .203 2.559	58.563 5.048 4.521 4.818 4.716 4.863 4.622 4.725 4.833 4.624 4.745 4.625 4.777 56.915	8.033 .740 .644 .658 .610 .658 .693 .735 .739 .673 .631 .642 .719	090 008 006 007 006 009 010 009 009 007 007 008	2.201 .204 .213 .245 .270 .285 .258 .213 .173 .174 .200 .219 2.675	2.640 .234 .207 .223 .220 .233 .224 .246 .233 .238 .249 .238 .249	.311 .029 .026 .028 .025 .028 .026 .029 .029 .027 .028 .027 .028 .027	.134 .013 .012 .014 .016 .016 .017 .015 .016 .013 .013 .012	5.286 .497 .449 .478 .506 .547 .552 .547 .490 .450 .464 .476 .506 5.963	71.792 6.278 5.607 5.947 5.826 6.063 5.858 5.997 6.052 5.739 5.833 5.736 70.933
2003 January	1.936 1.716 1.859 1.865 1.890 1.846 1.847 1.869 1.887 1.962 1.758 1.923 22.358	E 1.684 E 1.525 E 1.706 E 1.618 E 1.665 E 1.602 E 1.651 E 1.648 E 1.650 E 1.588 E 1.654 E 1.654	E 1.040 E .940 E 1.046 E 1.005 E 1.031 E .992 E .994 E 1.006 E .989 E 1.013 E .968 E 1.003	.204 .190 .200 .191 .181 .177 .191 .197 .198 .211 .206 .200 2.346	4.864 4.371 4.812 4.678 4.767 4.617 4.682 4.721 4.685 4.836 4.519 4.779 56.332	.722 .636 .626 .593 .649 .670 .727 .721 .664 .627 .622 .716 7.973	008 008 006 006 008 008 008 008 007 007	.199 .198 .246 .253 .302 .288 .249 .231 .184 .185 .199 .244 2.779	.225 .212 .241 .234 .232 .235 .247 .243 .227 .256 .270 .263 2.885	.027 .025 .027 .025 .025 .026 .026 .026 .026 .026 .026 .029	.011 .012 .016 .015 .015 .015 .013 .014 .014 .015 .016	.462 .446 .529 .528 .574 .564 .537 .513 .451 .482 .511 .552 6.150	6.041 5.445 5.959 5.794 5.984 5.844 5.939 5.946 5.792 5.938 5.645 6.040 70.367
2004 January	1.948 1.804 1.975 1.914 1.820 1.981 1.919 1.980 15.342 14.828 15.095	E 1.673 E 1.554 E 1.662 E 1.599 RE 1.620 RE 1.568 E 1.648 E 1.649 E 12.973 E 13.098 13.076	E 1.015 E .939 E 1.011 E .969 E 1.009 E .940 E .972 E .949 E 7.804 E 8.053 8.259	.209 .195 .212 .200 .208 .195 .210 .216 1.644	4.845 4.493 4.861 4.682 R 4.657 R 4.684 4.749 4.794 37.763 37.512 38.145	.739 .669 .661 .612 .678 .708 .751 .742 5.559 5.344	008 006 007 007 007 007 008 056	.235 .214 .233 .213 .242 .255 .235 .219 1.846 1.967 1.909	.257 .235 .245 .246 .245 .241 .252 .252 1.974 1.868 1.820	.030 .028 .028 .027 .028 .028 .029 .029 .226	.014 .015 .017 .018 .022 .019 .017 .016 .138	.536 .491 .524 .504 .538 .544 .533 .515 4.185 4.155 4.067	6.112 5.647 6.038 5.791 R 5.866 R 5.928 6.026 6.043 47.451 46.952 47.629

a End-use consumption and electricity net generation.
 b Includes lease condensate.

c Pumped storage facility production minus energy used for pumping.
d "Alcohol" is ethanol blended into motor gasoline.
e Included in "Conventional Hydroelectric Power."
R=Revised. E=Estimate. NA=Not available. (s)=Less than +0.5 trillion Btu and greater than -0.5 trillion Btu.

Notes: • See Note 1 at end of section. • Totals may not equal sum of

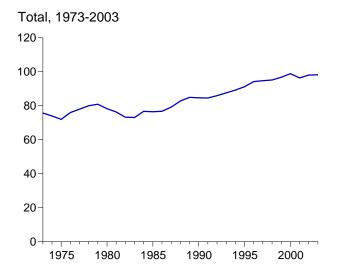
components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

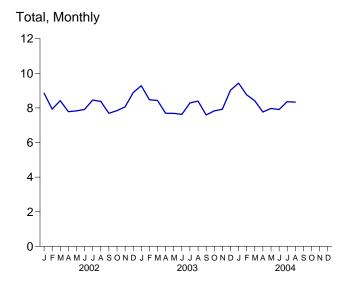
Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.

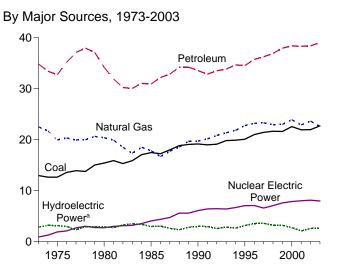
Sources: • Coal: Tables 6.1 and A5. • Natural Gas (Dry): Tables 4.1 and A4. • Crude Oil and Natural Gas Plant Liquids: Tables 3.1a and A2.

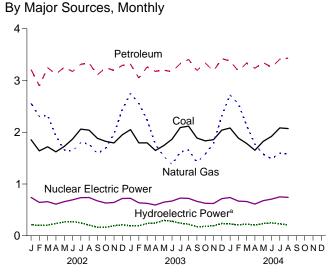
• Nuclear Electric Power and Hydroelectric Pumped Storage: Tables 7.2a and A6. • Penewable Energy: Table 10.1 A6. • Renewable Energy: Table 10.1.

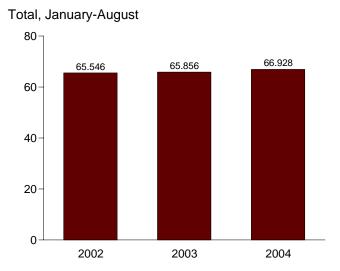
Figure 1.3 Energy Consumption (Quadrillion Btu)



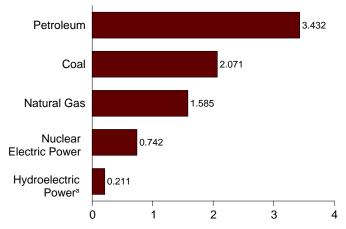








By Major Sources, August 2004



^aConventional and pumped storage hydroelectric power. Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/overview.html. Source: Table 1.3.

Table 1.3 Energy Consumption by Source

(Quadrillion Btu)

	Fossil Fuels							Renewa	ble Energy	a		
	Coal	Natural Gas ^b	Petro- leum ^{c,d}	Totale	Nuclear Electric Power	Hydro- electric Pumped Storage ^f	Conventional Hydroelectric Power	Wood, Waste, Alcohol ^{d,g}	Geo- thermal	Solar and Wind	Total	Total ^{d,h}
1973 Total 1974 Total 1975 Total 1976 Total 1976 Total 1977 Total 1978 Total 1978 Total 1978 Total 1980 Total 1981 Total 1982 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1987 Total 1989 Total 1999 Total 1991 Total 1992 Total 1993 Total 1994 Total 1995 Total 1995 Total 1995 Total 1996 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1998 Total 1999 Total	12.971 12.663 12.663 13.584 13.922 13.766 15.040 15.423 15.908 15.322 15.894 17.071 17.478 17.260 18.008 19.070 19.173 18.992 19.122 19.835 19.909 21.002 21.445 21.656 21.623 22.580 21.952	22.512 21.732 19.948 20.345 19.931 20.000 20.666 20.394 19.928 18.505 17.357 18.507 17.834 16.708 17.744 18.552 19.712 19.730 20.149 20.835 21.351 21.842 22.784 23.197 23.328 22.936 23.010 23.916 22.906	34.840 33.455 32.731 35.175 37.122 37.965 37.123 34.202 31.931 30.231 30.054 31.051 30.922 32.196 32.865 34.222 34.211 33.553 32.845 34.222 34.211 33.553 32.845 33.527 d3.3.841 34.670 34.553 35.757 36.266 36.934 37.960 38.404 38.333	70.316 67.936 65.355 69.104 70.989 71.856 72.892 69.984 67.750 64.036 63.290 66.617 66.221 66.148 68.626 71.660 73.023 72.460 73.519 75.055 76.480 77.488 79.979 81.086 81.592 82.650 84.965 83.221	0.910 1.272 1.900 2.111 2.702 3.024 2.776 2.739 3.008 3.131 3.203 3.553 4.754 4.380 4.754 5.602 6.402 6.479 6.410 6.694 7.075 7.087 7.087 7.087 7.088 7.610 7.862 8.033	(i) (i) (i) (i) (i) (i) (i) (i) (i) (i)	2.861 3.177 3.155 2.976 2.333 2.937 2.931 2.900 2.758 3.266 3.527 3.386 2.970 3.071 2.635 2.334 2.837 3.046 3.016 2.617 2.892 2.683 3.205 3.590 3.640 3.297 3.268 2.811 2.201	1.529 1.540 1.499 1.713 1.838 2.038 2.152 2.485 2.590 2.615 2.831 2.880 2.864 2.841 2.823 2.937 3.062 2.662 2.702 2.862 2.702 2.847 d2.803 3.127 3.068 3.127 3.068 3.127 3.068 3.127 3.068 3.127 3.068 3.127 3.068 3.127 3.068 3.127 3.068 3.127 3.068	0.043 .053 .070 .078 .077 .064 .084 .110 .123 .105 .129 .165 .198 .219 .229 .217 .317 .336 .349 .344 .338 .394 .316 .325 .328	NA NA NA NA NA NA NA NA NA (s) (s) (s) (s) .077 .089 .097 .104 .104 .104 .101 .115 .115 .115	4.433 4.769 4.769 4.768 4.249 5.039 5.166 5.494 5.471 5.985 6.488 6.431 6.033 6.132 5.687 5.489 6.133 6.158 5.907 6.156 6.065 6.669 7.137 7.075 6.561 6.599 6.158 5.296	75.708 73.991 71.999 76.012 78.000 79.986 80.903 78.289 76.3253 73.101 76.736 76.469 76.782 79.225 82.844 84.957 84.668 85.949 d87.578 89.221 94.224 94.727 95.146 96.774 98.905
2002 January February March April May June July August September October November December Total	1.855 1.640 1.719 1.622 1.724 1.868 2.061 2.041 1.882 1.824 1.794 1.951 21.980	2.558 2.306 2.323 1.934 1.657 1.635 1.798 1.773 1.586 1.689 1.964 2.440 23.662	3.211 2.899 3.247 3.123 3.256 3.174 3.313 3.337 3.108 3.248 3.193 3.292 38.401	7.623 6.847 7.298 6.677 6.641 6.680 7.182 7.158 6.585 6.767 6.961 7.685	.740 .644 .658 .610 .658 .693 .735 .739 .673 .631 .642 .719	090 008 006 007 006 005 009 010 009 007 007 007	.221 .204 .213 .245 .270 .285 .258 .213 .173 .174 .200 .219	.234 .207 .223 .220 .233 .224 .246 .233 .238 .249 .238 .249	.029 .026 .028 .025 .028 .026 .029 .029 .027 .028 .027 .028	.013 .012 .014 .016 .016 .017 .015 .016 .013 .013 .012 .013	.497 .449 .478 .506 .547 .552 .547 .490 .450 .464 .476 .506 5.963	8.849 7.928 8.421 7.782 7.830 7.910 8.452 8.374 7.691 7.843 8.057 8.888 98.026
2003 January	2.051 1.795 1.794 1.647 1.741 1.866 2.091 2.117 1.888 1.833 1.856 2.040 22.720	2.750 2.556 2.239 1.762 1.539 1.375 1.618 R 1.656 1.422 R 1.574 R 2.316 R 22.584	3.314 3.046 3.262 3.177 3.202 3.171 3.326 3.408 3.193 3.341 3.184 3.423 39.047	8.116 R 7.410 7.299 R 6.589 6.484 R 6.415 R 7.040 7.182 6.507 R 6.752 R 6.822 R 7.786 R 84.403	.722 .636 .626 .593 .649 .670 .727 .721 .664 .627 .622 .716 7.973	008 008 006 006 008 008 008 008 008 007 007	.199 .198 .246 .253 .302 .288 .249 .231 .184 .185 .199 .244	.225 .212 .241 .234 .232 .235 .247 .243 .227 .256 .270 .263 2.885	.027 .025 .027 .025 .025 .026 .026 .026 .026 .026 .026 .026	.011 .012 .016 .016 .015 .015 .013 .014 .014 .015 .016	.462 .446 .529 .528 .574 .564 .537 .513 .451 .482 .511 .552 6.150	9.281 8.470 R 8.428 7.683 7.625 R 8.287 R 3.394 F 7.826 R 7.826 R 7.826 R 99.022
2004 January	2.083 1.887 1.782 1.653 1.824 1.922 R 2.084 2.071 15.304 15.103 14.530	2.726 2.549 R 2.130 R 1.767 R 1.575 1.487 R 1.591 1.585 15.410 15.493 15.984	3.376 3.182 3.337 3.237 3.345 3.257 3.410 3.432 26.578 25.906 25.561	R 8.188 7.627 7.259 R 6.680 R 6.782 R 6.686 R 7.095 7.094 57.412 56.536 56.106	.739 .669 .661 .612 .678 .708 .751 .742 5.559 5.344	008 006 007 007 007 007 008 056	.235 .214 .233 .213 .242 .255 .235 .219 1.846 1.967 1.909	.257 .235 .245 .246 .245 .241 .252 .252 .252 1.974 1.868 1.820	.030 .028 .028 .027 .028 .029 .029 .029 .226	.014 .015 .017 .018 .022 .019 .017 .016 .138	.536 .491 .524 .504 .538 .544 .533 .515 4.185 4.155	9.432 R 8.758 R 8.409 R 7.765 R 7.966 7.908 R 8.358 8.331 66.928 65.856 65.546

^a End-use consumption and electricity net generation.
^b Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.
^c Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel. Beginning in 1993, also includes ethanol blended into motor

gasoline.

d Beginning in 1993, ethanol blended into motor gasoline is included in both "Petroleum" and "Wood, Waste, Alcohol," but is counted only once in total consumption.

e Includes coal coke net imports. See Table 1.4.

f Pumped storage facility production minus energy used for pumping.

g "Alcohol" is ethanol blended into motor gasoline.

h Includes coal coke net imports and electricity net imports, which are not

separately displayed. See Table 1.4.

¹ Included in conventional hydroelectric power.

R=Revised. NA=Not available. (s)=Less than +0.5 trillion Btu and greater than -0.5 trillion Btu.

Notes: • See Note 2 at end of section.

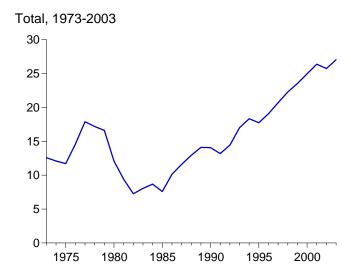
Notes: • See Note 2 at end of section.

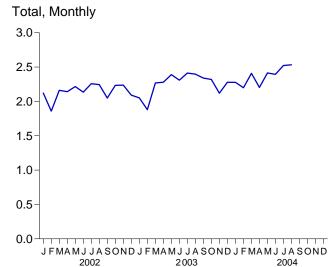
• Totals may not equal sum of Geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.
Sources: • Coal: Tables 6.1 and A5. • Natural Gas: Tables 4.1 and A4.
• Petroleum: Tables 3.1a and A3. • Nuclear Electric Power and Hydroelectric Pumped Storage: Tables 7.2a and A6. • Renewable Energy: Table 10.1. • Net Imports of Coal Coke and Electricity: Table 1.4.

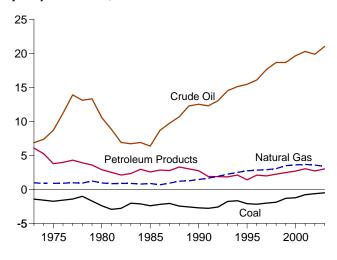
Figure 1.4 Energy Net Imports

(Quadrillion Btu, Except as noted)

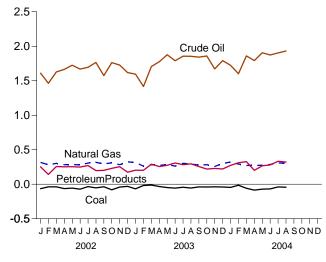




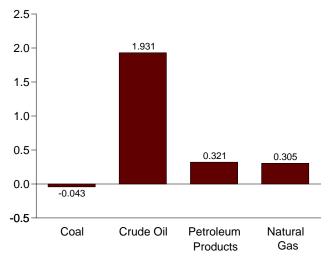
By Major Sources, 1973-2003



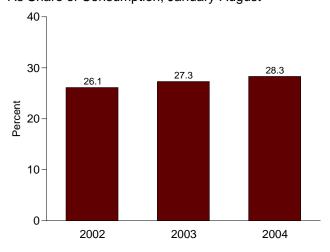
By Major Sources, Monthly



By Major Sources, August 2004



As Share of Consumption, January-August



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.

Sources: Tables 1.3 and 1.4.

Table 1.4 Energy Net Imports by Source

(Quadrillion Btu)

	Coal	Coal Coke	Natural Gas	Crude Oil ^a	Petroleum Products ^b	Electricity	Total
1973 Total	-1.422	-0.007	0.981	6.883	6.097	0.049	12.580
1974 Total	-1.568	.056	.907	7.389	5.273	.043	12.101
1975 Total	-1.738	.014	.904	8.708	3.800	.021	11.709
1976 Total	-1.567	(s)	.922	11.221	3.982	.029	14.588
1977 Total	-1.401	.015	.981	13.921	4.321	.059	17.896
1978 Total	-1.004	.125	.941	13.125	3.932	.067	17.186
1979 Total	-1.702	.063	1.243	13.328	3.603	.069	16.605
1980 Total	-2.391	035	.957	10.586	2.912	.071	12.101
1981 Total	-2.918	016	.857	8.854	2.522	.113	9,412
1982 Total	-2.768	022	.898	6.917	2.128	.100	7.253
1983 Total	-2.013	016	.885	6.731	2.351	.121	8.059
984 Total	-2.119	011	.792	6.918	2.970	.135	8.685
985 Total	-2.389	013	.896	6.381	2.570	.140	7.584
986 Total	-2.193	017	.686	8.676	2.855	.122	10.130
987 Total	-2.049	.009	.937	9.748	2.784	.158	11.586
	-2.446	.040	1.221	10.698	3.308	.108	12.929
988 Total	-2.446 -2.566		1.278	12.296		.037	
989 Total		.030			3.029		14.105
990 Total	-2.705	.005	1.464	12.536	2.757	.008	14.065
991 Total	-2.769	.010	1.666	12.308	1.912	.067	13.194
992 Total	-2.587	.035	1.941	13.065	1.895	.087	14.435
993 Total	-1.758	.027	2.255	14.542	1.854	.095	17.014
994 Total	-1.657	.058	2.518	15.131	2.126	.153	18.329
995 Total	-2.081	.061	2.745	15.469	1.422	.134	17.750
996 Total	-2.165	.023	2.847	16.108	2.119	.137	19.069
997 Total	-2.006	.046	2.904	17.648	1.993	.116	20.701
998 Total	-1.874	.067	3.064	18.684	2.252	.088	22.281
999 Total	-1.298	.058	3.500	18.686	2.493	.099	23.537
000 Total	-1.215	.065	3.623	19.676	2.701	.115	24.967
001 Total	771	.029	3.691	20.305	3.056	.075	26.386
002 January	065	.000	.316	1.610	.252	.009	2.122
February	038	.003	.282	1.463	.142	.007	1.858
March	038	.008	.301	1.627	.256	.006	2.161
April	063	001	.283	1.665	.253	.006	2.142
May	056	.004	.287	1.724	.254	.003	2.216
June	072	.002	.280	1.669	.248	.007	2.134
July	035	.009	.307	1.694	.270	.012	2.258
August	053	.007	.317	1.765	.197	.010	2.244
September	037	.009	.296	1.575	.200	.006	2.048
October	081	.006	.309	1.764	.230	.005	2.233
November	042	.010	.283	1.728	.254	.004	2.237
December	031	.003	.324	1.618	.175	.003	2.091
Total	610	.061	3.583	19.901	2.732	.078	25.745
003 January	067	.001	.313	1.596	.203	.005	2.051
February	018	.013	.262	1.416	.202	.004	1.880
March	012	.004	.282	1.706	.290	001	2.268
April	033	.004	.273	1.776	.257	.003	2.279
May	048	.002	.284	1.876	.274	.001	2.389
June	057	.004	.263	1.790	.308	.001	2.309
July	044	.005	.303	1.856	.283	.010	2.412
August	055	.001	.293	1.854	.295	.008	2.396
September	039	.004	.278	1.842	.256	002	2.340
October	040	.004	.283	1.860	.219	006	2.319
November	038	.003	.258	1.671	.228	003	2.120
December	040	.006	.299	1.792	.221	.001	2.278
Total	491	.051	3.391	21.034	3.035	.022	27.042
004 January	046	.004	R .322	1.724	.273	(s)	R 2.278
February	014	.009	R .291	1.602	.312	.000	R 2.198
March	058	.010	R .272	1.861	.327	003	R 2.408
April	085	.024	RE .272	1.793	.201	(s)	R 2.203
May	072	.037	RE .276	1.906	.267	.001	^R 2.414
June	068	.020	RE .287	1.874	.280	.002	R 2.395
July	039	.009	RE .307	1.903	.332	.010	R 2.522
August	043	.007	E.305	1.931	.321	.012	2.532
8-Month Total	426	.120	E 2.331	14.593	2.311	.021	18.951
003 8-Month Total	334	.033	2.273	13.870	2.111	.032	17.985 17.135
002 8-Month Total	420	.032	2.372	13.218	1.873	.060	

 ^a Crude oil and lease condensate. Includes imports into the Strategic Petroleum Reserve, which began in 1977.
 ^b Petroleum products, unfinished oils, pentanes plus, and gasoline blending

components.

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

Notes: • See Notes 3 and 4 at end of section. • Net imports equal imports inus exports. Minus sign indicates exports are greater than imports. minus exports.

Totals may not equal sum of components due to independent rounding.
 Geographic coverage is the 50 States and the District of Columbia.
 Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.

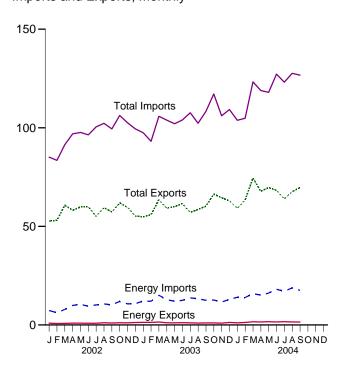
Sources: • Coal: Tables 6.1 and A5. • Coal Coke: Section 2, "Energy Consumption Notes and Sources," Note 5, and Table A5. • Natural Gas: Tables 4.1 and A4. • Crude Oil and Petroleum Products: Tables 3.1b, A2, and A3. • Electricity: Tables 7.1 and A6.

Figure 1.5 Merchandise Trade Value (Billion Dollars)

Imports and Exports, 1974-2003

1,400 – 1,200 – 1,000 – 800 – 600 – Total Imports 400 – Total Exports Energy Exports Energy Imports

Imports and Exports, Monthly



Trade Balance, 1974-2003

1980

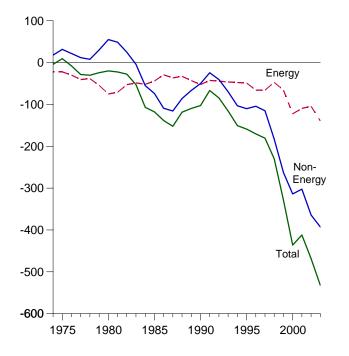
1985

1990

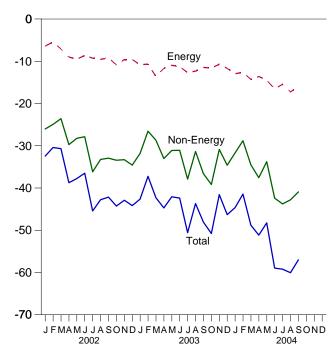
1995

2000

1975



Trade Balance, Monthly



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/overview.html. Source: Table 1.5.

Table 1.5 Merchandise Trade Value

(Million Dollars)

		Petroleum	a		Energyb	,	Non- Energy	Total Merchandise			
	Exports	Imports	Balance	Exports	Imports	Balance	Balance	Exports	Imports	Balance	
974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884	
975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551	
976 Total	998	32,226	-31,228	4,226	33,996	-29,770	21,950	116,794	124,614	-7,820	
977 Total	1,276	42,368	-41,093	4,184	44,537	-40,354	12,001	123,182	151,534	-28,353	
978 Total	1,561	39,526	-37,965	3,881	42,096	-38,215	8,010	145,847	176,052	-30,205	
979 Total	1,914	56,715	-54,801	5,621	59,998	-54,377	30,455	186,363	210,285	-23,922	
980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696	
981 Total	3,696	76,659	-72,963	10,279	81,360	-71,081	48,814	238,715	260,982	-22,267	
982 Total	5,947	60,458	-54,511	12,729	65,409	-52,680	25,170	216,442	243,952	-27,510	
983 Total	4,557	53,217	-48,659	9,500	57,952	-48,452	-3,957	205,639	258,048	-52,409	
984 Total	4,470	56.924	-52,454	9,311	60,980	-51,669	-55,033	223,976	330,678	-106,703	
85 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712	
86 Total	3,640	35,142	-31,503	8,115	37,310	-29,195	-109,084	227,159	365,438	-138,279	
987 Total	3,922	42,285	-38,363	7,713	44,220	-36,506	-115,613	254,122	406,241	-152,119	
988 Total	3,693	38,787	-35,094	8,235	41,042	-32,806	-85,720	322,426	440,952	-118,526	
89 Total	5,021	49,704	-44,683	9,869	52,779	-42,910	-66,490	363,812	473,211	-109,399	
990 Total	6,901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496	
991 Total	6,954	51,350	-44,396	12,233	54,629	-42,548	-24,175	421,730	488,453	-66,723	
992 Total	6,412	51,217	-44,805	11,254	55,256	-44,002	-40.500	448,164	532,665	-84,501	
93 Total	6,215	51,217	-44,831	9,756	55,256 55,900	-44,002 -46,144	-40,500 -69,425	465,091	580,659	-115,568	
994 Total	5,659	50,835	-45,176	8,911	56,391	-47,480	-103,149	512,626	663,256	-150,629	
95 Total	6,321	54,368	-48,047	10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801	
996 Total	7,984	72,022	-64,038	12,181	78,086	-65,905	-104,309	625,075	795,289	-170,214	
997 Total	8,592	71,152	-62,560	12,682	78,277	-65,595	-114,927	689,182	869,704	-180,522	
998 Total	6,574	50,264	-43,690	10,251	57,323	-47,072	-182,686	682,138	911,896	-229,758	
999 Total	7,118	67,173	-60,055	9,880	75,803	-65,923	-262,898	695,797	1,024,618	-328,821	
000 Total	10,192	119,251	-109,059	13,179	135,367	-122,188	-313,916	781,918	1,218,022	-436,104	
001 Total	8,868	102,747	-93,879	12,494	121,923	-109,429	-302,470	729,100	1,140,999	-411,899	
02 January	639	6,348	-5,709	908	7,321	-6,413	-26,031	52,667	85,111	-32,444	
February	597	5,427	-4,830	744	6,200	-5,456	-24,955	53,061	83,473	-30,411	
March	593	6,914	-6,321	782	7,878	-7,096	-23,591	60.728	91,415	-30,687	
April	676	8,907	-8,231	910	9,917	-9,007	-29,738	58,146	96,891	-38,745	
May	664	9,365	-8,701	903	10,423	-9,520	-28,245	59,884	97,649	-37,765	
June	603	8,465	-7,862	883	9,522	-8,639	-27,856	59,920	96,415	-36,495	
July	664	9,086	-8,422	883	10,153	-9,270	-36,170	55,032	100,472	-45,440	
August	822	9,637	-8,815	1,121	10,667	-9,546	-33,241	59,491	102,277	-42,787	
September	726	9,119	-8,393	979	10,191	-9,212	-32,939	57,277	99,429	-42,151	
October	827	10,712	-9,885	1,104	11,961	-10,857	-33,419	61,975	106,251	-44,276	
November	779	9,328	-8,549	1,085	10,682	-9,597	-33,297	59,671	102,564	-42,894	
December	979	9,354	-8,375	1,239	10,831	-9,592	-34,577	55,249	99,418	-44,169	
Total	8,569	102,663	-94,094	11,541	115,748	-104,207	-364,056	693,103	1,161,366	-468,263	
003 January	1,028	10,435	-9,407	1,302	12,129	-10,827	-31,810	54,854	97,491	-42,637	
February	983	10,258	-9,275	1,331	12,018	-10,687	-26,550	55,917	93,154	-37,237	
March	991	12,634	-11,643	1,467	15,086	-13,619	-28,699	63,524	105,842	-42,318	
April	868	11,095	-10,227	1,111	12,796	-11,685	-33,022	59,162	103,869	-44,707	
May	837	10,399	-9,562	1,072	12,030	-10,958	-31,127	59,983	102,068	-42,085	
June	834	10,790	-9,956	1,163	12,460	-11,297	-31,090	61,570	103,958	-42,387	
July	787	11,844	-11,057	1,060	13,732	-12,672	-37,889	57,070	107,631	-50,561	
August	748	11,595	-10,847	969	13,732	-12,331	-31,365	58,611	107,031	-43,696	
September	783	10,958	-10,047	1,049	12,506	-12,331	-36,626	60,239	108,322	-48,083	
October	782	11,134	-10,173	1,049	12,500	-11,607	-39.162	66,389	117,158	-50,769	
November	692	10,189	-10,332 -9,497	930	11,630	-10,700	-39,162	64,492	106.066	-30,769	
December	876	11,102	-10,226	1.266	12,956	-11,690	-34,606	62.959	109,255	-46,296	
Total	10,209	132,433	-10,226 - 122,224	13,768	153,298	-139,530	-392,820	724,771	1,257,121	-532,350	
O4 lanuari	740	44.075	11 150	4.000	14.000	12.044	24 700	E0 1E1	102.000	44.640	
004 January	719	11,875	-11,156	1,088	14,029	-12,941	-31,708	59,151	103,800	-44,649	
February	898	11,696	-10,798	1,261	13,899	-12,638	-28,809	63,388	104,835	-41,447	
March	1,101	13,991	-12,890	1,597	15,875	-14,278	-34,533	74,475	123,287	-48,811	
April	987	13,058	-12,071	1,524	15,129	-13,605	-37,551	67,760	118,917	-51,156	
May	1,133	14,143	-13,010	1,662	16,163	-14,501	-33,760	69,704	117,965	-48,261	
June	1,009	15,705	-14,696	1,521	18,073	-16,552	-42,395	68,273	127,220	-58,947	
July	1,051	14,625	-13,574	1,657	17,104	-15,447	-43,763	63,906	123,117	-59,210	
August	1,167	16,527	-15,360	1,538	18,789	-17,251	R -42,801	R 67,556	R 127,608	R -60,052	
September	1,130	15,400	-14,270	1,488	17,558	-16,070	-40,930	69,699	126,699	-57,000	
9-Month Total	9,195	127,020	-117,825	13,336	146,619	-133,283	-336,250	603,913	1,073,447	-469,534	
003 9-Month Total	7,859	100,008	-92,149	10,524	116,057	-105,533	-288,178	530,932	924,642	-393,711	
002 9-Month Total	5,984	73,268	-67,284	8,113	82,272	-74,159	-262,766	516,208	853,132	-336,924	

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

b Petroleum, coal, natural gas, and electricity.

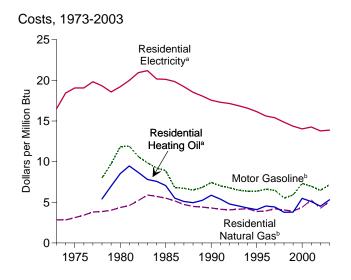
nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 States, the District of Columbia, Puerto Rico, and the Virgin Islands.

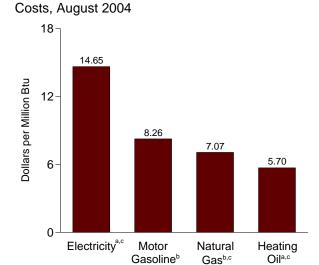
Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.
Source: U.S. Department of Commerce, Bureau of the Census, Foreign Trade Division. For details, see "Sources for Table 1.5" at the end of this section.

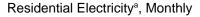
R=Revised.
Notes: • Monthly data are not adjusted for seasonal variations. • See Note 5 at end of section.
• Totals may not equal sum of components due to independent rounding.
• The U.S. import statistics reflect both government and

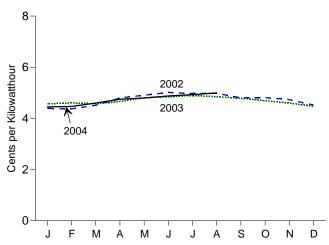
section.

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

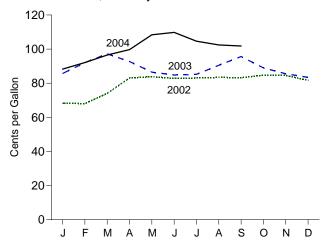




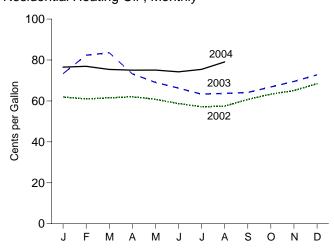




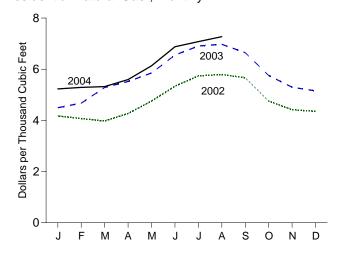
Motor Gasoline^b, Monthly



Residential Heating Oila, Monthly



Residential Natural Gasb, Monthly



^aExcludes taxes.

 ${}^{\text{c}}\text{Residential}.$

Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eai.doe.gov/emeu/mer/overview.html. Source: Table 1.6.

blncludes taxes.

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

	Consumer Price Index (Urban) ^a	Motor G	asoline ^b		dential ng Oil ^c	Resid Natura	ential I Gas ^b	Resid Electr	
	Index 1982-1984=100	Cents per Gallon	Dollars per Million Btu	Cents per Gallon	Dollars per Million Btu	Cents per Thousand Cubic Feet	Dollars per Million Btu	Cents per Kilowatthour	Dollars pe Million Bto
1973 Average	44.4	NA	NA	NA	NA	290.5	2.85	5.6	16.50
1974 Average	49.3	NA	NA	NA	NA	290.1	2.83	6.3	18.43
1975 Average	53.8	NA	NA	NA	NA	317.8	3.12	6.5	19.07
1976 Average	56.9	NA	NA	NA	NA	348.0	3.41	6.5	19.06
1977 Average	60.6	NA	NA	NA	NA	387.8	3.81	6.8	19.83
978 Average	65.2	100.0	8.00	75.2	5.42	392.6	3.86	6.6	19.33
979 Average	72.6	121.5	9.71	97.0	6.99	410.5	4.03	6.3	18.57
980 Average	82.4	148.2	11.85	118.2	8.52	446.6	4.36	6.6	19.21
981 Average	90.9	148.8	11.90	131.4	9.47	471.9	4.60	6.8	19.99
982 Average	96.5	132.7	10.61	120.2	8.67	535.8	5.22	7.2	20.96
983 Average	99.6	123.0	9.83	108.2	7.80	608.4	5.90	7.2	21.19
984 Average	103.9	115.3	9.22	105.0	7.57	589.0	5.72	6.88	20.17 20.13
985 Average	107.6 109.6	111.2 84.9	8.89 6.79	97.9 76.3	7.06 5.50	568.8 531.9	5.52 5.17	6.87	19.84
986 Average							4.73	6.77	
987 Average	113.6	84.2	6.74	70.7	5.10	487.7		6.56	19.22
988 Average	118.3 124.0	81.4 85.5	6.51 6.83	68.7 72.6	4.96 5.23	462.4 454.8	4.49 4.41	6.32 6.17	18.53 18.08
989 Average	130.7	93.1	7.44	81.3	5.86	443.8	4.41	5.99	17.56
990 Average	136.2	87.8	7.44 7.02	74.8	5.39	443.6 427.3	4.14	5.90	17.30
991 Average	140.3	84.8	6.78	66.6	4.80	419.8	4.07	5.85	17.15
992 Average	144.5	81.2	6.49	63.0	4.55	426.3	4.07 4.15	5.76	16.88
993 Average	148.2	79.2	6.36	59.6	4.30	432.5	4.20	5.65	16.57
994 Average	152.4	79.2 79.1	6.37	56.9	4.10	397.6	3.87	5.51	16.15
995 Average 996 Average	156.9	82.1	6.61	63.0	4.54	404.1	3.93	5.33	15.62
	160.5	80.4	6.48	61.3	4.42	432.4	4.21	5.25	15.39
997 Average 998 Average	163.0	68.4	5.51	52.3	3.77	418.4	4.05	5.07	14.85
	166.6	73.3	5.91	52.5 52.6	3.79	401.6	3.91	4.90	14.36
999 Average	172.2	90.8	7.32	76.1	5.49	450.6	4.39	4.79	14.02
2001 Average	177.1	86.4	6.97	70.6	5.09	543.8	5.27	4.87	14.02
_									
2002 January	177.1	68.3	5.51	61.9	4.47	417.3	4.05	4.57	13.39
February	177.8	68.1	5.49	61.0	4.40	407.2	3.95	4.61	13.50
March	178.8	74.0	5.97	61.5	4.44	397.7	3.86	4.57	13.39
April	179.8	83.0	6.70	62.1	4.48	427.1	4.15	4.66	13.66
May	179.8	83.9	6.76	60.8	4.38	475.5	4.62	4.81	14.08
June	179.9	82.8	6.67	58.8	4.24	533.6	5.18	4.85	14.21
July	180.1	83.1	6.70	57.1	4.12	574.1	5.57	4.89	14.34
August	180.7	83.5	6.73	57.4	4.14	579.4	5.63	4.85	14.21
September	181.0	83.3	6.71	60.7	4.38	566.9	5.50	4.78	14.02
October	181.3	84.7	6.83	63.3	4.57	475.5	4.62	4.69	13.76
November	181.3	84.6	6.82	65.1	4.69	441.8	4.29	4.60	13.48
December	180.9	81.6	6.58	68.4	4.93	435.6	4.23	4.48	13.12
Average	179.9	80.1	6.46	62.8	4.52	439.7	4.27	4.70	13.78
2003 January	181.7	85.7	6.91	73.3	5.29	R 449.6	R 4.37	4.39	12.87
February	183.1	92.1	7.43	82.4	5.94	R 467.5	R 4.54	4.37	12.81
March	184.2	97.2	7.84	83.6	6.02	^R 528.8	R 5.14	4.51	13.22
April	183.8	92.7	7.48	73.2	5.28	R 552.2	R 5.37	4.80	14.06
May	183.5	86.5	6.98	69.0	4.98	R 585.3	^R 5.69	4.90	14.37
June	183.7	84.8	6.84	66.2	4.78	R 655.4	R 6.37	5.01	14.69
July	183.9	85.2	6.87	63.3	4.56	R 690.6	^R 6.71	4.98	14.58
August	184.6	90.5	7.30	63.7	4.59	R 697.7	R 6.78	4.98	14.59
September	185.2	95.6	7.71	64.1	4.63	^R 664.7	^R 6.46	4.81	14.08
October	185.0	89.0	7.18	66.8	4.82	^R 575.7	^R 5.59	4.81	14.10
November	184.5	85.5	6.90	69.5	5.01	^R 529.5	^R 5.15	4.74	13.88
December	184.3	83.5	6.73	72.8	5.25	^R 515.5	^R 5.01	4.53	13.26
Average	184.0	89.0	7.18	73.6	5.31	R 522.8	R 5.08	4.73	13.87
004 January	405.0	00.0	7.40	70.5	F 50	E00.0	F 00	4 45	40.04
004 January	185.2	88.3	7.12	76.5	5.52	523.2	5.08	4.45	13.04
February	186.2	92.1	7.43	76.9	5.55	529.0	5.14	4.47	13.10
March	187.4	96.5	7.79	75.4	5.44	532.0	5.17	4.60	13.48
April	188.0	99.7	8.04	75.1	5.41	559.6	5.44	4.75	13.92
May	189.1	108.4	8.74	75.1	5.41	613.4	5.96	4.80	14.06
June	189.7	109.8	8.86	74.2	5.35	687.9	6.69	4.88	14.29
July	189.4	104.6	8.44	^R 75.4	5.44	^R 708.0	6.88	4.93	14.45
August	189.5	102.4	8.26	79.1	5.70	727.2	7.07	5.00	14.65
September	189.9	101.8	8.21	NA	NA	NA	NA	NA	NA

^a Consumer Price Index, All Urban Consumers, All Items, 1982-1984 = 100.0. b Includes taxes.

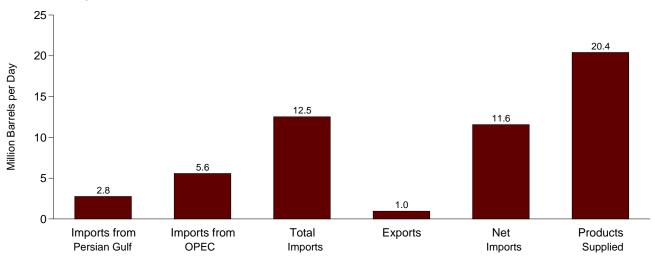
C Excludes taxes.

R=Revised. NA=Not available.

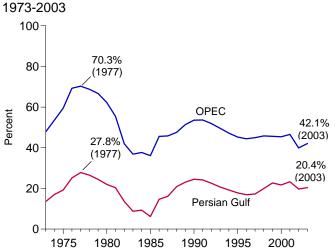
Notes: • Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. • Annual averages may not equal average of months due to independent rounding.

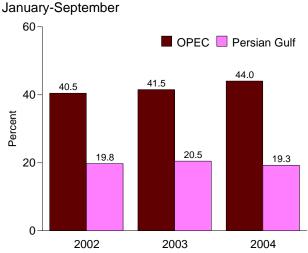
Figure 1.7 Overview of U.S. Petroleum Trade

Overview, September 2004

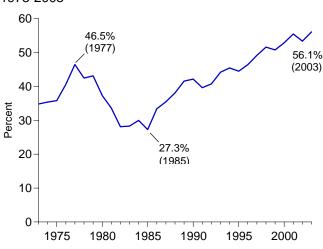


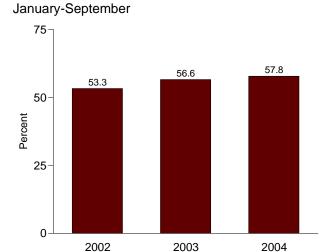
Imports from OPEC and the Persian Gulf as a Share of Total Imports





Net Imports as Share of Products Supplied 1973-2003





OPEC=Organization of Petroleum Exporting Countries.

Note: Because vertical scales differ, graphs should not be compared.

Web Page: http://www.eia.doe.gov/emeu/mer/overview.html. Source: Table 1.7.

Table 1.7 Overview of U.S. Petroleum Trade

									hare of s Supplied			are of mports
	Imports from Persian Gulf ^a	Imports from OPECb	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 E	Barrels per	Day			· · · · · · · · · · · · · · · · · · ·				
1973 Average 1974 Average 1975 Average 1976 Average 1977 Average 1977 Average 1978 Average 1980 Average 1981 Average 1982 Average 1983 Average 1984 Average 1985 Average 1986 Average 1987 Average 1988 Average 1989 Average 1999 Average 1991 Average 1992 Average 1993 Average 1994 Average 1995 Average 1996 Average 1997 Average 1997 Average 1997 Average 1998 Average 1999 Average 1999 Average 1999 Average	848 1,039 1,165 1,840 2,448 2,219 2,069 1,519 1,219 696 442 506 311 1,966 1,861 1,778 1,782 1,778 1,782 1,778 1,782 1,778 1,519	2,993 3,280 3,601 5,066 6,193 5,751 5,637 4,300 3,323 2,146 2,049 1,830 2,837 3,060 3,520 4,140 4,296 4,092 4,273 4,247 4,002 4,211 4,565 4,953 4,953	6,256 6,112 6,056 7,313 8,807 8,363 8,456 6,909 5,996 5,996 5,051 5,437 5,051 5,437 5,067 6,224 6,678 7,402 8,061 8,018 7,627 7,888 8,620 8,996 8,996 8,478 10,100 8,996 10,100 8,996 10,100 8,996 10,100 8,996 10,100 8,000 8	231 221 209 223 243 362 471 544 595 815 739 722 781 785 764 815 950 1,003 942 949 981 1,003 949 940	6,025 5,892 5,846 7,090 8,565 8,002 7,985 6,365 5,401 4,298 4,312 4,715 4,286 5,439 5,914 6,587 7,202 7,161 6,628 6,938 7,618 8,054 7,886 8,054 7,886 9,158 9,158 9,764 9,912	17,308 16,653 16,322 17,461 18,431 18,847 18,513 17,056 16,058 15,231 15,726 16,281 16,665 17,283 17,325 16,988 16,714 17,033 17,237 17,718 17,725 18,309 18,620 18,917 19,519	4.9 6.2 7.1 10.5 13.3 11.8 11.2 8.9 7.6 4.5 2.9 3.2 2.0 6.5 8.9 10.7 11.6 10.3 9.8 8.8 9.4 11.3 12.6	17.3 19.7 22.1 29.0 33.6 30.5 30.5 30.5 20.7 14.0 11.6 17.4 18.4 20.4 23.9 25.3 24.5 24.0 24.8 22.6 23.0 24.5 25.9	36.1 36.7 37.1 41.9 47.8 44.4 45.7 40.5 37.3 33.4 33.2 34.6 32.2 34.6 32.2 40.1 42.8 46.5 47.2 45.6 46.3 50.0 50.8 51.8 54.6 55.6	34.8 35.4 35.8 40.6 46.5 42.5 43.1 37.3 33.6 28.3 30.0 27.3 33.4 35.5 38.1 41.6 42.2 39.6 44.2 45.5 44.5 44.5	13.6 17.0 19.2 25.2 27.8 26.5 24.5 22.0 20.3 13.6 8.8 9.3 6.1 14.7 16.1 20.8 23.1 24.5 24.2 22.5 20.7 19.2 17.8 16.9	47.8 53.7 59.5 69.3 70.3 68.8 66.7 62.2 55.4 42.0 36.9 37.7 36.1 45.6 45.8 47.6 51.4 53.6 47.6 45.8 44.4 45.8
2000 Average 2001 Average	2,488 2,761	5,203 5,528	11,459 11,871	1,040 971	10,419 10,900	19,701 19,649	12.6 14.1	26.4 28.1	58.2 60.4	52.9 55.5	21.7 23.3	45.4 46.6
2002 January February March April May June July August September October November December Average	2,556 2,400 2,238 2,090 1,999 1,903 2,052 2,177	5,029 4,733 4,991 4,606 4,561 4,356 4,366 4,638 4,452 4,686 4,682 4,164 4,605	11,088 10,904 11,198 11,765 11,769 11,753 11,624 11,890 11,075 11,893 12,268 11,100 11,530	861 1,175 853 890 910 880 839 1,138 1,015 962 1,026 1,272 984	10,228 9,729 10,345 10,876 10,859 10,873 10,785 10,752 10,059 10,931 11,242 9,828 10,546	19,454 19,444 19,676 19,552 19,728 19,875 20,076 20,221 19,461 19,678 19,991 19,943 19,761	13.7 12.8 13.0 12.3 11.3 10.5 10.0 9.4 10.5 11.1 12.3 11.5	25.9 24.3 25.4 23.6 23.1 21.9 21.7 22.9 22.9 23.8 23.4 20.9 23.3	57.0 56.1 56.9 60.2 59.7 59.1 57.9 58.8 56.9 60.4 61.4 55.7 58.3	52.6 50.0 52.6 55.6 55.0 54.7 53.7 53.2 51.7 55.5 56.2 49.3 53.4	24.1 22.8 22.8 20.4 19.0 17.8 17.2 16.0 18.5 18.1 22.1	45.4 43.4 44.6 39.1 38.8 37.1 37.6 39.0 40.2 39.4 38.2 37.5 39.9
2003 January	3,148 2,669 2,327 2,170 1,849 2,397 2,353 2,586 2,312	4,303 4,052 5,433 5,949 5,751 5,526 4,736 4,934 5,394 5,394 5,237 5,225 5,162	11,104 10,921 12,044 12,599 12,918 13,001 12,736 12,769 12,868 12,373 11,712 12,033 12,264	1,212 1,067 1,051 1,053 1,097 1,065 976 947 960 970 933 990 1,027	9,892 9,854 10,993 11,546 11,822 11,936 11,760 11,822 11,908 11,402 10,780 11,043 11,043	20,017 20,375 19,708 19,830 19,344 19,793 20,094 20,586 19,933 20,182 19,873 20,679 20,034	13.7 13.1 14.3 15.9 13.8 11.8 10.8 9.0 12.0 11.7 13.0 11.2 12.5	21.5 19.9 27.6 30.0 29.7 27.9 23.6 24.0 27.1 26.5 26.4 25.3 25.8	55.5 53.6 61.1 63.5 66.8 65.7 63.4 62.0 64.6 61.3 58.9 58.2 61.2	49.4 48.4 55.8 58.2 61.1 60.3 58.5 57.4 59.7 56.5 54.2 53.4 56.1	24.6 24.5 23.4 25.0 20.7 17.9 17.0 14.5 18.6 19.0 22.1 19.2 20.4	38.8 37.1 45.1 47.2 44.5 42.5 37.2 38.6 41.9 43.2 44.7 43.4 42.1
2004 January	2,098 2,373 2,322 2,478 2,370 2,538 2,943 2,764	5,179 5,215 5,769 5,388 5,753 5,865 5,786 6,225 5,580 5,643	11,727 12,329 13,073 12,450 12,989 13,301 13,389 13,489 12,532 12,813	748 1,046 1,024 1,153 1,052 1,070 1,080 1,091 961 1,024	10,979 11,283 12,048 11,297 11,937 12,231 12,310 12,399 11,571 11,789	20,393 20,549 20,161 20,207 20,209 20,333 20,601 20,732 20,411 20,399	11.3 10.2 11.8 11.5 12.3 11.7 12.3 14.2 13.5 12.1	25.4 25.4 28.6 26.7 28.5 28.8 28.1 30.0 27.3 27.7	57.5 60.0 64.8 61.6 64.3 65.4 65.0 65.1 61.4 62.8	53.8 54.9 59.8 55.9 59.1 60.2 59.8 59.8 56.7 57.8	19.6 17.0 18.2 18.7 19.1 17.8 19.0 21.8 22.1 19.3	44.2 42.3 44.1 43.3 44.3 44.1 43.2 46.1 44.5 44.0
2003 9-Month Average 2002 9-Month Average		5,126 4,638	12,339 11,457	1,048 949	11,292 10,508	19,961 19,725	12.7 11.5	25.7 23.5	61.8 58.1	56.6 53.3	20.5 19.8	41.5 40.5

^a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab

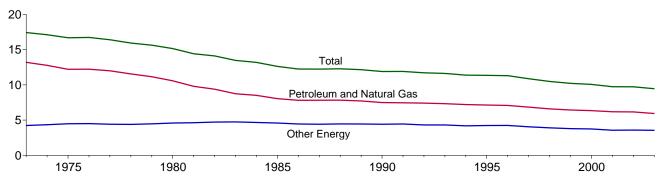
a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and the United Arab Emirates.
 b Organization of Petroleum Exporting Countries. See Glossary.
 Notes: • Readers of Table 1.7 may be interested in a feature article, "Measuring Dependence on Imported Oil," that was published in the August 1995 Monthly Energy Review. • Petroleum is crude oil, lease condensate, unfinished oils, petroleum products, natural gas plant liquids, and nonhydrocarbon compounds blended into finished petroleum products.
 • Beginning in October 1977, petroleum imported for the Strategic Petroleum

Reserves is included. • Annual averages may not equal average of months due to independent rounding. • U.S. geographic coverage is the 50 States and the District of Columbia. U.S. exports include shipments to U.S. territories, and imports include receipts from U.S. territories.

Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.
Sources: • Column 1: Table 3.3b. • Column 2: Table 3.3d. • Columns 3-5: Table 3.1b. • Column 6: Table 3.1a. • Columns 7-12: Calculated by Energy Information Administration.

Figure 1.8 **Energy Consumption per Dollar of Gross Domestic Product**

(Thousand Btu per Chained (2000) Dollar)



Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.

Source: Table 1.8.

Table 1.8 Energy Consumption per Dollar of Gross Domestic Product

	Ene	ergy Consumption	ı	Gross	Energy Consumption per Dollar of GDP				
	Petroleum and Natural Gas ^a	Other Energy ^a ,b	Total ^a	Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^b	Total		
		Quadrillion Btu		Billion Chained (2000) Dollars	Thousand Btu per Chained (2000) Dollar				
973 Year	57.352	18.356	75.708	4,341.5	13.21	4.23	17.44		
974 Year	55.187	18.804	73.991	4,319.6	12.78	4.35	17.13		
975 Year	52.678	19.321	71.999	4,311.2	12.22	4.48	16.70		
976 Year	55.520	20.492	76.012	4,540.9	12.23	4.51	16.74		
977 Year	57.053	20.947	78.000	4,750.5	12.01	4.41	16.42		
978 Year	57.966	22.021	79.986	5,015.0	11.56	4.39	15.95		
979 Year	57.789	23.114	80.903	5,173.4	11.17	4.47	15.64		
980 Year	54.596	23.693	78.289	5,161.7	10.58	4.59	15.17		
981 Year	51.859	24.483	76.342	5,291.7	9.80	4.63	14.43		
982 Year	48.736	24.516	73.253	5,189.3	9.39	4.72	14.12		
983 Year	47.411	25.690	73.101	5,423.8	8.74	4.74	13.48		
984 Year	49.558	27.178	76.736	5,813.6	8.52	4.67	13.20		
985 Year	48.756	27.713	76.469	6,053.7	8.05	4.58	12.63		
986 Year	48.904	27.878	76.782	6,263.6	7.81	4.45	12.26		
987 Year	50.609	28.616	79.225	6,475.1	7.82	4.42	12.24		
988 Year	52.774	30.070	82.844	6,742.7	7.83	4.46	12.29		
989 Year	53.923	31.034	84.957	6,981.4	7.72	4.45	12.17		
990 Year	53.282	31.386	84.668	7,112.5	7.49	4.41	11.90		
991 Year	52.994	31.601	84.595	7,100.5	7.46	4.45	11.91		
992 Year	54.362	31.587	85.949	7,336.6	7.41	4.31	11.72		
993 Year	^a 55.193	a 32.482	^a 87.578	7,532.7	^a 7.33	^a 4.31	^a 11.63		
994 Year	56.512	32.845	89.248	7,835.5	7.21	4.19	11.39		
995 Year	57.338	34.000	91.221	8,031.7	7.14	4.23	11.36		
996 Year	58.954	35.353	94.224	8,328.9	7.08	4.24	11.31		
997 Year	59.594	35.239	94.727	8,703.5	6.85	4.05	10.88		
998 Year	59.869	35.394	95.146	9,066.9	6.60	3.90	10.49		
999 Year	60.970	35.926	96.774	9,470.3	6.44	3.79	10.22		
000 Year	62.320	36.724	98.905	9,817.0	6.35	3.74	10.07		
001 Year	61.239	35.286	96.378	9,890.7	6.19	3.57	9.74		
002 Year	62.064	36.136	98.026	10,074.8	6.16	3.59	9.73		
003 Year	R 61.632	R 36.828	R 98.220	10,381.3	5.94	3.55	9.46		

^a Beginning in 1993, ethanol blended into motor gasoline is included in both "Petroleum and Natural Gas" and "Other Energy," but is counted only

R=Revised.

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

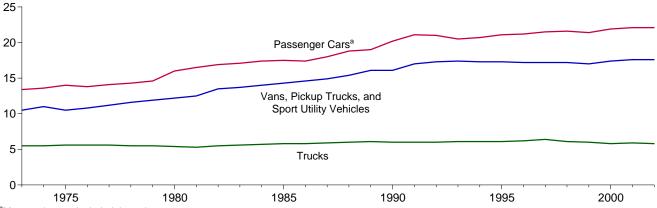
Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.
Sources: • Energy Consumption: Table 1.3. • Gross Domestic Product: 1973-2001—U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business, December 2003, Table 7B. 2002 and 2003-U.S. Department of Commerce, Bureau of Economic Analysis, BEA News Release, October 29, 2004, Table 3, which is available at website www.bea.doc.gov/bea/newsrel/gdp400p.htm.

once in total consumption.

b "Other Energy" is coal, nuclear electric power, renewable energy, pumped-storage hydroelectric power, and net imports of coal coke and electricity.

Figure 1.9 **Motor Vehicle Fuel Rates**

(Miles per Gallon)



^aMotorcycles are included through 1989.

Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.

Source: Table 1.9.

Table 1.9 Motor Vehicle Mileage, Fuel Consumption, and Fuel Rates

	Passenger Cars ^a			Vans, Pickup Trucks, Passenger Cars ^a and Sport Utility Vehicles ^b						All Motor Vehicles			
	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles per gallon)	Mileage (miles per vehicle)	Fuel Consumption (gallons per vehicle)	Fuel Rate (miles pe 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	a10,157	^a 533	^a 19.0	11,676	724	16.1	22,926	3,776	6.1	10,932	688	15.9	
1990	10,504	520	20.2	11,902	738	16.1	23,603	3,953	6.0	11,107	677	16.4	
1991	10,571	501	21.1	12,245	721	17.0	24,229	4,047	6.0	11,294	669	16.9	
1992	10,857	517	21.0	12,381	717	17.3	25,373	4,210	6.0	11,558	683	16.9	
1993	10,804	527	20.5	12,430	714	17.4	26,262	4,309	6.1	11,595	693	16.7	
1994	10,992	531	20.7	12,156	701	17.3	25,838	4,202	6.1	11,683	698	16.7	
1995	11,203	530	21.1	12,018	694	17.3	26,514	4,315	6.1	11,793	700	16.8	
1996	11,330	534	21.2	11,811	685	17.2	26,092	4,221	6.2	11,813	700	16.9	
1997	11,581	539	21.5	12,115	703	17.2	27,032	4,218	6.4	12,107	711	17.0	
1998	11,754	544	21.6	12,173	707	17.2	25,397	4,135	6.1	12,211	721	16.9	
1999	11,848	553	21.4	11,957	701	17.0	26,014	4,352	6.0	12,206	732	16.7	
2000	11,976	547	21.9	11,672	669	17.4	25,617	4,391	5.8	12,164	720	16.9	
2001	11,831	534	22.1	11,204	636	17.6	26,602	4,477	5.9	11,887	695	17.1	
2002P	12,203	551	22.1	11,365	645	17.6	27,062	4,637	5.8	12,172	715	17.0	

a Through 1989, includes motorcycles.

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

Web Page: http://www.eia.doe.gov/emeu/mer/overview.html.

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

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

 $^{^{\}rm C}\,$ Single-unit trucks with 2 axles and 6 or more tires, and combination trucks.

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

Table 1.10 Heating Degree-Days by Census Division

		October	1 through O	ctober 31				Cumulative hrough Oct		
				Percent	Change				Percent	Change
Census Divisions	Normal ^a	2003	2004	Normal to 2004	2003 to 2004	Normal ^a	2003	2004	Normal to 2004	2003 to 2004
New England Connecticut, Maine, Massachusetts, New Hampshire,	407	40.4	440			057	504	500	42	
Rhode Island, Vermont	467	484	440	-6	-9	657	584	569	-13	-3
Middle Atlantic New Jersey, New York, Pennsylvania	399	414	373	-7	-10	526	458	410	-22	-10
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	424	415	365	-14	-12	580	548	485	-16	-11
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	424	364	354	-17	-3	607	530	505	-17	-5
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia, West Virginia	164	152	121	-26	-20	189	167	129	-32	-23
East South Central Alabama, Kentucky,										
Mississippi, Tennessee	213	191	105	-51	-45	246	228	127	-48	-44
West South Central Arkansas, Louisiana, Oklahoma, Texas	83	63	32	(°)	(°)	92	73	36	(°)	(°)
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	360	243	334	-7	37	543	373	494	-9	32
Pacific ^b California, Oregon, Washington	186	91	186	0	104	294	119	239	-19	101
U.S. Average ^b	282	252	241	-15	-4	383	316	305	-20	-3

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

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. 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.doe.gov/emeu/mer/overview.html for current data. • See http://www.eia.doe.gov/emeu/aer/overview.html for historical data.

Sources: See end of section.

b Excludes Alaska and Hawaii.

^c Percent change is not meaningful: normal is less than 100 or ratio is incalculable.

Table 1.11 Cooling Degree-Days by Census Division

		October '	1 through O	ctober 31			January ⁻	Cumulative 1 through O		
				Percent	Change				Percent	Change
Census Divisions	Normala	2003	2004	Normal to 2004	2003 to 2004	Normala	2003	2004	Normal to 2004	2003 to 2004
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	0	0	0	(°)	(°)	417	502	401	-4	-20
Middle Atlantic New Jersey, New York, Pennsylvania	5	0	0	(°)	(°)	656	662	629	-4	-5
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	8	2	2	(°)	(°)	708	632	589	-17	-7
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	12	8	7	(°)	(°)	928	949	769	-17	-19
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,	400	440	404	40	10	4.077	4.000	0.007	_	
West Virginia East South Central Alabama, Kentucky,	120	119	134	12	13	1,877	1,902	2,007	7	6
Mississippi, Tennessee West South Central Arkansas, Louisiana, Oklahoma, Texas	53 134	40 159	88 241	(°)	(°) 52	1,540 2,409	1,487 2,515	1,610 2,498	5	-1
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	55	106	57	(°)	(°)	1,239	1,601	1,407	14	-12
Pacific ^b California, Oregon, Washington	36	91	46	(°)	(°)	699	900	888	27	-1
U.S. Average ^b	53	64	69	(°)	(°)	1,194	1,256	1,237	4	-2

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

Notes: Degree-days are relative measurements of outdoor air temperature used as an index for heating and cooling energy requirements. 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.doe.gov/emeu/mer/overview.html for current data. • See http://www.eia.doe.gov/emeu/aer/overview.html for historical data.

Sources: See end of section.

b Excludes Alaska and Hawaii.

^c Percent change is not meaningful: normal is less than 100 or ratio is incalculable.

Energy Overview

Note 1. Energy Production: Includes production of fossil fuels (coal, dry natural gas, crude oil and lease condensate, and natural gas plant liquids), nuclear electric power, pumped-storage hydroelectric power, and renewable energy. Renewable energy production is assumed to be equivalent to: end-use consumption of wood, waste, alcohol fuels, geothermal heat pump and direct use energy, and solar thermal direct use and photovoltaic energy; and electricity net generation from conventional hydroelectric power, wood, waste, geothermal, solar, and wind. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. See Section 10 for further information on renewable energy.

Note 2. Energy Consumption: Includes consumption of fossil fuels (coal, natural gas, and petroleum), some secondary energy derived from fossil fuels (supplemental gaseous fuels and coal coke net imports), nuclear electric power, pumped-storage hydroelectric power, renewable energy, and net imports of electricity. Renewable energy consumption includes: end-use consumption of wood, waste, alcohol fuels, geothermal heat pump and direct use energy, and solar thermal direct use and photovoltaic energy and net electricity generation from conventional hydroelectric power, wood, waste, geothermal, solar, and wind. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. See Section 10 for further information on renewable energy.

Note 3. Energy Imports: Includes imports of fossil fuels (coal, natural gas, and petroleum, including crude oil imported for the Strategic Petroleum Reserve), some secondary energy derived from fossil fuels (coal coke imports), and electricity. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. See Section 10 for further information on renewable energy.

Note 4. Energy Exports: Includes exports of fossil fuels (coal, natural gas, and petroleum), some secondary energy derived from fossil fuels (coal coke exports), and electricity. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. See Section 10 for further information on renewable energy.

Note 5. Merchandise Trade Value: Import data presented are based on the customs value. That value does not include insurance and freight and is consequently lower than the cost, insurance, and freight (CIF) value, which is also reported by the Bureau of the Census. All export data, and import 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 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," FT410, December issues. 1988 and 1989: "Report on U.S. Merchandise Trade," Final Revisions.

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

1993-2002: "U.S. International Trade in Goods and Services," Annual Revision.

2003 and 2004: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum Imports

1974-1987: "U.S. Merchandise Trade," FT900, December issues, 1975-1988.

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

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

1994-2002: "U.S. International Trade in Goods and Services," Annual Revision.

2003 and 2004: "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.

1993-2002: "U.S. International Trade in Goods and Services," Annual Revision.

2003 and 2004: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum, Energy, and Non-Energy Balances

Calculated by the 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.

1992-2002: "U.S. International Trade in Goods and Services," Annual Revision.

2003 and 2004: "U.S. International Trade in Goods and Services," FT-900, monthly.

Tables 1.10 and 1.11 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 Analysis 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) and 5-2 (cooling degree-days) developed by the National Climatic Data Center, Asheville, NC, which compiles data from some 8,000 weather stations.

Section 2. Energy Consumption by Sector

U.S. total energy consumption in August 2004 was 8.3 quadrillion Btu, 1 percent lower than in August 2003.

Residential sector total consumption was 1.7 quadrillion Btu in August 2004, 4 percent lower than the August 2003 level. The sector accounted for 20 percent of total energy consumption.

Commercial sector total consumption was 1.4 quadrillion Btu in August 2004, 4 percent lower than the August 2003 level. The sector accounted for 17 percent of total energy consumption.

Industrial sector total consumption was 2.9 quadrillion Btu in August 2004, 3 percent higher than the August 2003

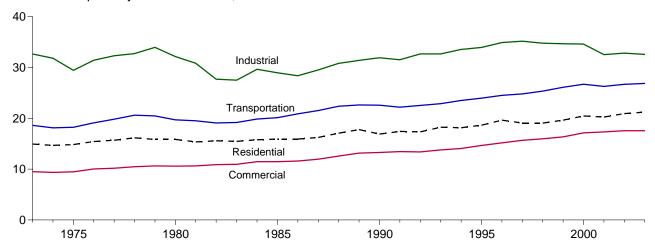
level. The sector accounted for 34 percent of total energy consumption.

Transportation sector total consumption was 2.4 quadrillion Btu in August 2004, 1 percent lower than the August 2003 level. The sector accounted for 28 percent of total energy consumption.

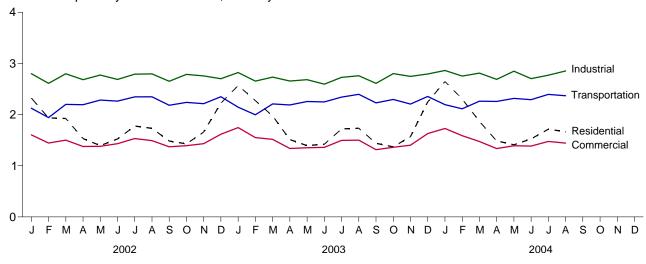
Electric power sector primary consumption was 3.6 quadrillion Btu in August 2004, 3 percent lower than the August 2003 level. Fossil fuels accounted for 71 percent of all primary energy consumed by the electric power sector; nuclear electric power 20 percent; and renewable energy 8 percent.

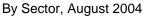
Figure 2.1 Energy Consumption by Sector (Quadrillion Btu)

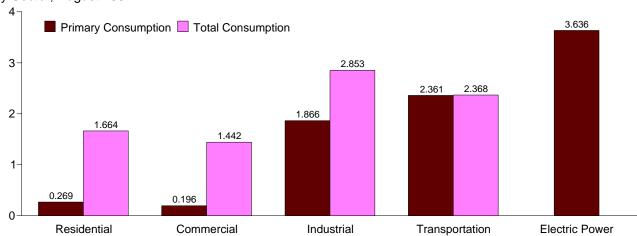
Total Consumption by End-Use Sector, 1973-2003



Total Consumption by End-Use Sector, Monthly







Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.1.

Table 2.1 **Energy Consumption by Sector**

(Quadrillion Btu)

				End-Use	Sectors				Electric		
	Resid	ential	Comm	erciala	Indus	trial ^b	Transpo	rtation	Power Sector ^{c,d}	Adiust-	
	Primary	Total	Primary	Total	Primary	Total	Primary	Total	Primary	ments ^e	Totalb
973 Total	8.250	14.930	4.381	9.507	24.741	32.653	18.576	18.612	19.753	0.007	75.708
974 Total	7.928	14.683	4.221	9.363	23.816	31.819	18.086	18.119	19.933	.007	73.991
975 Total	8.006	14.842	4.023	9.466	21.454	29.447	18.209	18.244	20.307	.001	71.999
976 Total	8.408	15.441	4.333	10.035	22.685	31.429	19.065	19.099	21.513	.008	76.012
977 Total	8.207	15.689	4.217	10.177	23.193	32.307	19.784	19.820	22.591	.007	78.000
978 Total 979 Total	8.272 7.934	16.156 15.842	4.269 4.333	10.481 10.627	23.277 24.211	32.733 33.962	20.580 20.436	20.615 20.471	23.587 23.987	.002 .002	79.986 80.903
980 Total	7.504	15.848	4.097	10.594	22.673	32.152	19.658	19.696	24.359	001	78.289
981 Total	7.103	15.353	3.831	10.638	21.404	30.836	19.476	19.513	24.525	.003	76.342
982 Total	7.163	15.577	3.859	10.880	19.112	27.704	19.051	19.088	24.063	.004	73.253
983 Total	6.834	15.459	3.827	10.952	18.598	27.511	19.133	19.176	24.705	.003	73.101
984 Total	6.992	15.777	3.989	11.463	20.208	29.643	19.804	19.851	25.741	.003	76.736
985 Total	6.992	15.928	3.708	11.465	19.540	28.958	20.075	20.122	26.158	004	76.469
986 Total	6.812	15.927	3.647	11.600	19.133	28.375	20.828	20.877	26.359	.003	76.782
987 Total	6.846	16.233	3.738	11.951	20.046	29.519	21.474	21.524	27.124	003	79.225
988 Total	7.249	17.069	3.948	12.571	20.958	30.818	22.331	22.382	28.354	.003	82.844
989 Total	7.495	17.774	3.952	13.156	20.888	31.396	22.568	22.622	d 30.044	.009	84.957
990 Total	6.460	16.900	3.810	13.281	21.235	31.918	22.535	22.589	30.647	020	84.668
991 Total	6.692	17.414	3.860	13.458	20.903	31.527	22.142	22.195	30.999	.001	84.595
992 Total	6.883	17.339	3.898	13.394	21.806	32.673	22.489	22.542	30.873	(s)	85.949
993 Total	7.122	18.249	3.892	13.788	21.738	32.668	22.830	22.883	32.006	010	87.578
994 Total	6.949	18.135	3.930	14.059	22.376	33.557	23.448	23.503	32.551	006	89.248
995 Total	7.022	18.653	4.032	14.665	22.643	33.941	23.905	23.960	33.616	.003	91.221
996 Total	7.556	19.643	4.218 4.248	15.161	23.364	34.905	24.456	24.511	34.626	.004	94.224
997 Total	7.088 6.462	19.067 19.052	4.246 3.956	15.679 15.964	23.608 23.067	35.167 34.777	24.753 25.301	24.808 25.357	35.024 36.363	.006 003	94.727 95.146
998 Total 999 Total	6.810	19.634	3.984	16.347	22.826	34.777	26.050	26.108	37.097	.006	96.774
000 Total	7.147	20.453	4.192	17.129	22.740	34.616	26.645	26.705	38.180	.002	98.905
001 Total	6.909	20.247	4.044	17.323	21.834	32.527	26.215	26.276	37.372	.004	96.378
002 January	1.048	2.323	.550	1.604	1.970	2.799	2.120	2.124	3.162	001	8.849
February	.910	1.935	.495	1.445	1.807	2.611	1.938	1.942	2.782	004	7.928
March	.855	1.925	.467	1.500	1.928	2.799	2.196	2.200	2.978	003	8.421
April	.577	1.532	.345	1.377	1.807	2.682	2.188	2.193	2.866	002	7.782
May	.402	1.394	.259	1.380	1.840	2.772	2.279	2.284	3.050	.000	7.830
June	.299	1.524	.210	1.431	1.751	2.687	2.258	2.263	3.388	.004	7.910
July	.271	1.775	.204 .202	1.531	1.824	2.791	2.340 2.342	2.346 2.347	3.803	.009	8.452 8.374
August	.257 .264	1.731 1.484	.202	1.492 1.370	1.841 1.758	2.795 2.651	2.178	2.347	3.724 3.284	.008 .004	
September October	.414	1.428	.204	1.392	1.884	2.786	2.233	2.103	3.042	004	7.691 7.843
November	.661	1.658	.385	1.432	1.869	2.755	2.209	2.214	2.935	001	8.057
December	.987	2.223	.527	1.616	1.817	2.701	2.345	2.349	3.214	002	8.888
Total	6.946	20.934	4.118	17.568	22.096	32.830	26.626	26.683	38.228	.011	98.026
003 January	1.208	2.569	R .637	R 1.745	1.949	2.822	2.140	2.144	3.346	.001	9.281
February	1.108	2.273	.586	R 1.550	1.844	2.654	1.991	R 1.995	2.943	003	8.470
March	.875	1.975	R .480	1.516	1.866	2.733	2.204	2.208	3.006	004	R 8.428
April	.589	1.511	.341	R 1.338	1.772	2.655	2.184	2.188	2.806	005	7.688
Мау	.394	1.395	.246	R 1.351	1.748	2.683	2.251	2.255	3.047	001	R 7.683
June	.292	1.421	R.198	1.360	1.652	2.595	2.243	2.248	3.238	.001	7.625
July	.273	1.719	.200	1.495	1.772	2.728	2.336	2.341	3.702	.004	R 8.287
August	.263	1.733	.202	R 1.500	1.783	2.759	2.391	2.397	3.750	.006	R 8.394
September	.278	1.439	.200	1.314	1.746	2.611	2.224	2.229	3.144	.001	7.594
October	R .398	R 1.369	R .255	R 1.361	1.880	2.801	2.292	2.297	3.004	001	R 7.826
November	.590	1.569	R .337	R 1.402	1.836	2.747	2.201	2.206	2.960	002	R 7.921
December	.971	2.247	R.505	R 1.629	1.891	2.794	2.349	2.354	3.307	001	R 9.022
Total	R 7.238	R 21.227	R 4.186	R 17.558	21.741	32.577	26.805	26.863	38.255	005	R 98.220
004 January February	1.231 1.087	2.646 2.306	R .623 R .576	^R 1.729 ^R 1.588	^R 1.966 ^R 1.894	R 2.862 R 2.753	2.188 2.106	2.195 2.113	3.424 3.097	(s) 001	9.432 R 8.758
March	.795	1.866	R .444	R 1.474	R 1.910	R 2.811	2.257	2.262	3.008	004	R 8.409
April	564	1.487	R .334	R 1.336	R 1.787	R 2.689	2.252	2.258	2.833	004	R 7.765
May	R .368	1.410	R .236	1.390	1.840	R 2.849	2.310	2.316	3.211	(s)	R 7.966
June	.290	1.526	R .201	1.384	R 1.744	R 2.703	2.286	2.292	3.384	.003	7.908
July	.281	1.715	R .199	R 1.476	R 1.791	R 2.770	2.388	R 2.395	3.697	R .002	R 8.358
August	.269	1.664	.196	1.442	1.866	2.853	2.361	2.368	3.636	.003	8.331
8-Month Total	4.885	14.620	2.809	11.819	14.798	22.289	18.148	18.200	26.289	001	66.928
003 8-Month Total 002 8-Month Total	5.001 4.620	14.594 14.139	2.889 2.732	11.856 11.759	14.389 14.768	21.629 21.937	17.740 17.662	17.778 17.699	25.839 25.754	001 .011	65.856 65.546

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

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.

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

Notes: • Primary consumption includes coal, natural gas, petroleum, nuclear electric power, hydroelectric power, wood, waste, alcohol fuels, geothermal, solar, wind, coal coke net imports, and electricity net imports. • Total consumption includes primary consumption, electricity retail sales, and electrical system energy losses. • Totals may not equal sum of components due to independent rounding.

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

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

Additional Notes and Sources: See Tables 2.2-2.6 and end of section.

Section 7.

b Industrial sector fuel use, including that at industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See note at end of Section

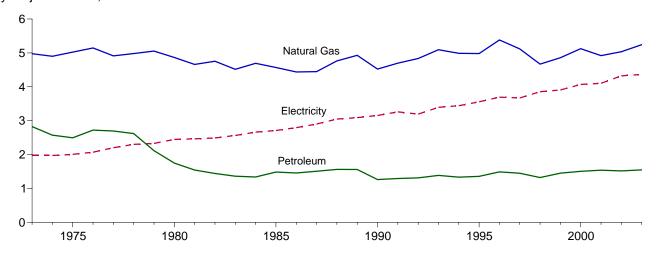
^{7.} The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public.

^d Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers.

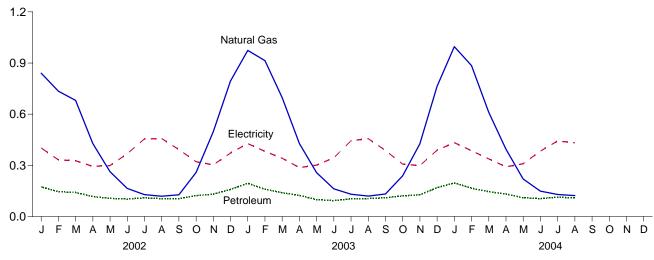
^e A balancing item. The sum of primary consumption in the five energy-use

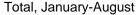
Figure 2.2 Residential Sector Energy Consumption (Quadrillion Btu)

By Major Sources, 1973-2003



By Major Sources, Monthly



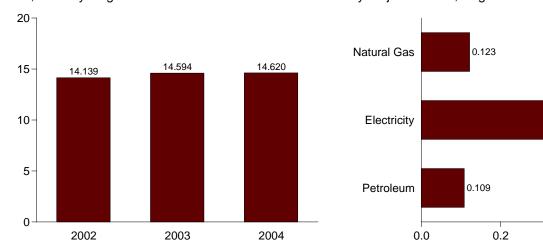


By Major Sources, August 2004

0.432

0.6

0.4



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.2.

Table 2.2 Residential Sector Energy Consumption

(Quadrillion Btu)

				Prima	ry Consum	ption						
		Foss	il Fuels			Renewable	Energya				Electrical	
	Coal	Natural Gas ^b	Petroleum	Total	Wood	Geo- thermal ^c	Solar ^d	Total	Total Primary	Electricity Retail Sales ^e	System Energy Losses ^f	Total
1973 Total	0.094	4.977	2.825	7.896	0.354	NA	NA NA	0.354	8.250	1.976	4.703	14.930
1974 Total	.082	4.901	2.573	7.557	.371	NA	NA	.371	7.928	1.973	4.783	14.683
1975 Total	.063	5.023	2.495	7.580	.425	NA	NA	.425	8.006	2.007	4.829	14.842
1976 Total	.059	5.147	2.720	7.927	.482	NA	NA	.482	8.408	2.069	4.963	15.441
1977 Total 1978 Total	.057 .049	4.913 4.981	2.695 2.620	7.666 7.651	.542 .622	NA NA	NA NA	.542 .622	8.207 8.272	2.202 2.301	5.280 5.582	15.689 16.156
1979 Total	.049	5.055	2.114	7.206	.728	NA NA	NA NA	.728	7.934	2.330	5.578	15.842
1980 Total	.031	4.866	1.748	6.645	.859	NA	NA	.859	7.504	2.448	5.897	15.848
1981 Total	.030	4.660	1.543	6.234	.869	NA	NA	.869	7.103	2.464	5.786	15.353
1982 Total	.032	4.753	1.441	6.226	.937	NA	NA	.937	7.163	2.489	5.925	15.577
1983 Total 1984 Total	.031 .040	4.516 4.692	1.362 1.337	5.909 6.069	.925 .923	NA NA	NA NA	.925 .923	6.834 6.992	2.562 2.662	6.063 6.123	15.459 15.777
1985 Total	.039	4.571	1.483	6.093	.899	NA NA	NA NA	.899	6.992	2.709	6.227	15.777
1986 Total	.040	4.439	1.457	5.936	.876	NA	NA	.876	6.812	2.795	6.320	15.927
1987 Total	.037	4.449	1.508	5.994	.852	NA	NA	.852	6.846	2.902	6.485	16.233
1988 Total	.037	4.765	1.563	6.364	.885	NA	NA	.885	7.249	3.046	6.774	17.069
1989 Total	.031	4.929 4.523	1.560 1.263	6.519	.918	.005 .006	.053	.976	7.495	3.090	7.189	17.774
1990 Total 1991 Total	.031 .025	4.523 4.697	1.293	5.817 6.015	.581 .613	.006	.056 .058	.642 .677	6.460 6.692	3.153 3.260	7.287 7.463	16.900 17.414
1992 Total	.026	4.835	1.311	6.172	.645	.006	.060	.711	6.883	3.193	7.263	17.339
1993 Total	.026	5.095	1.385	6.506	.548	.007	.062	.616	7.122	3.394	7.733	18.249
1994 Total	.021	4.988	1.333	6.342	.537	.006	.064	.607	6.949	3.441	7.746	18.135
1995 Total	.017	4.981	1.356	6.355	.596	.007	.065	.667	7.022	3.557	8.073	18.653
1996 Total	.017	5.383 5.118	1.489 1.448	6.888	.595 .433	.007 .008	.065 .065	.667 .506	7.556 7.088	3.694 3.671	8.393 8.308	19.643 19.067
1998 Total	.016 .012	4.669	1.322	6.582 6.003	.387	.008	.065	.459	6.462	3.856	8.733	19.052
1999 Total	.014	4.858	1.452	6.324	.414	.009	.064	.486	6.810	3.906	8.917	19.634
2000 Total	.011	5.126	1.506	6.643	.433	.009	.061	.503	7.147	4.069	9.238	20.453
2001 Total	.012	4.919	1.539	6.470	.370	.009	.060	.439	6.909	4.103	9.234	20.247
2002 January	.001	.840	.174	1.015	.027	.001	.005	.032	1.048	.402	.873	2.323
February	.001	.735	.145	.881	.024	.001	.005	.029	.910	.332	.692	1.935
March April	.001 .001	.681 .428	.141 .117	.823 .546	.027 .026	.001 .001	.005 .005	.032 .031	.855 .577	.327 .294	.742 .661	1.925 1.532
May	.001	.263	.106	.370	.027	.001	.005	.032	.402	.299	.693	1.394
June	.001	.165	.102	.268	.026	.001	.005	.031	.299	.368	.857	1.524
July	.001	.128	.109	.239	.027	.001	.005	.032	.271	.455	1.049	1.775
August	.001	.119	.105	.224	.027	.001	.005	.032	.257	.457	1.017	1.731
September October	.001 .001	.128 .258	.104 .123	.232 .381	.026 .027	.001 .001	.005 .005	.031 .032	.264 .414	.392 .322	.828 .693	1.484 1.428
November	.001	.497	.131	.630	.027	.001	.005	.032	.661	.303	.693	1.658
December	.001	.794	.159	.955	.027	.001	.005	.032	.987	.372	.863	2.223
Total	.011	5.036	1.516	6.564	.313	.010	.059	.382	6.946	4.323	9.665	20.934
2003 January	.001	.974	.195	1.171	.030	.002	.005	.037	1.208	.428	.933	2.569
February	.001	.914	.160	1.075	.028	.001	.004	.033	1.108	.382	.782	2.273
March April	.001 .001	.697 .429	.140 .124	.838 .553	.030 .030	.002 .001	.005 .005	.037 .036	.875 .589	.342 .287	.758 .635	1.975 1.511
May	.001	.257	.099	.357	.030	.002	.005	.037	.394	.301	.700	1.395
June	.001	.163	.093	.257	.030	.001	.005	.036	.292	.344	.784	1.421
July	.001	.131	.104	.236	.030	.002	.005	.037	.273	.444	1.002	1.719
August	.001	.120	.105	.226	.030	.002	.005	.037	.263	.457	1.013	1.733
September	.001 .001	.132 R .239	.110 .121	.243 ^R .361	.030 .030	.001 .002	.005 .005	.036 .037	.278 R .398	.387 .307	.774 .664	1.439 R 1.369
October November	.001	.426	.121	.554	.030	.002	.005	.037	.590	.298	.681	1.569
December		.763	.169	.934	.030	.002	.005	.037	.971	.389	.887	2.247
Total		R 5.244	1.547	R 6.803	.359	.018	.058	.435	R 7.238	4.367	9.622	R 21.227
2004 January	.001	.996	.197	1.194	.030	.002	.005	.037	1.231	.433	.982	2.646
February	.001	.885	.166	1.052	.028	.001	.005	.034	1.087	.386	.834	2.306
March	.001	.611	.146	.758	.030	.002	.005	.037	.795 564	.338	.733	1.866
April May	.001 .001	.395 .220	.132 .110	.528 .331	.029 .030	.001 .002	.005 .005	.036 .037	.564 R .368	.292 .309	.631 .733	1.487 1.410
June	.001	.149	.105	.255	.029	.002	.005	.037	.290	.383	.852	1.526
July	.001	.129	.114	.244	.030	.002	.005	.037	.281	.443	.991	1.715
August	.001	.123	.109	.233	.030	.002	.005	.037	.269	.432	.963	1.664
8-Month Total		3.508	1.078	4.595	.239	.012	.039	.290	4.885	3.016	6.719	14.620
2003 8-Month Total 2002 8-Month Total	.008 .007	3.684 3.359	1.020 1.000	4.711 4.366	.239 .208	.012 .007	.039 .039	.290 .254	5.001 4.620	2.985 2.934	6.608 6.585	14.594 14.139

 ^a All values are estimated; see Table 10.2a.
 ^b Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.
 ^c Geothermal heat pump and direct use energy.
 ^d Solar thermal direct use and photovoltaic electricity generation. Includes small amounts of commercial sector use.
 ^e Electricity retail sales to ultimate customers reported by electric utilities and

other energy service providers.

^f See Note 12 at end of section.

R=Revised. NA=Not available.

Notes:

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

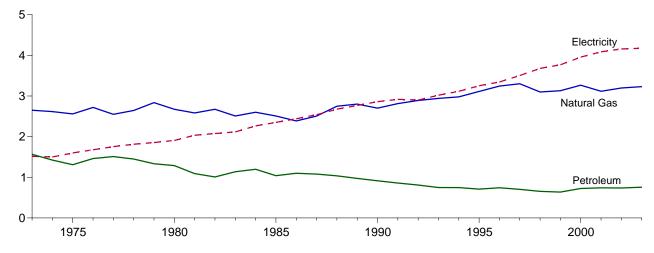
• Geographic coverage is the 50 States and the District of Columbia.

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

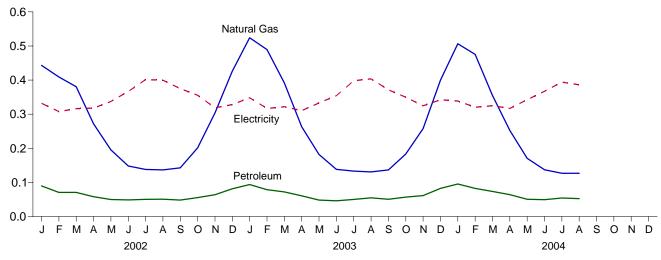
Additional Notes and Sources: See end of section.

Figure 2.3 Commercial Sector Energy Consumption (Quadrillion Btu)

By Major Sources, 1973-2003

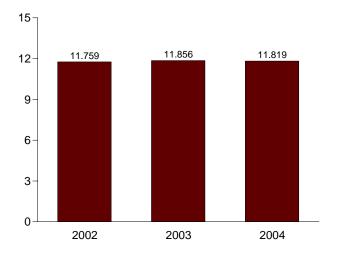


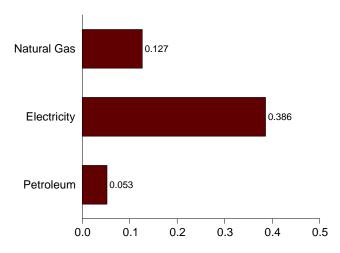
By Major Sources, Monthly



Total, January-August

By Major Sources, August 2004





Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/consump.html.

Source: Table 2.3.

Table 2.3 Commercial Sector Energy Consumption

(Quadrillion Btu)

				Prim	ary Consum	ption						
		Foss	il Fuels			Renewab	ole Energy ^a					
	Coal	Natural Gas ^b	Petroleum	Total	Hydro- power ^c	Wood and Waste	Geo- thermal ^d	Total	Total Primary	Electricity Retail Sales ^e	Electrical System Energy Losses ^f	Total
1973 Total	0.160	2.649	1.565	4.374	NA	0.007	NA	0.007	4.381	1.517	3.609	9.507
1974 Total	.175	2.617	1.423	4.214	NA	.007	NA	.007	4.221	1.501	3.640	9.363
1975 Total	.147	2.558	1.310	4.015	NA	.008	NA	.008	4.023	1.598	3.845	9.466
1976 Total	.144	2.718	1.461	4.324	NA	.009	NA	.009	4.333	1.678	4.025	10.035
1977 Total 1978 Total	.148 .165	2.548 2.643	1.511 1.450	4.207 4.257	NA NA	.010 .012	NA NA	.010 .012	4.217 4.269	1.754 1.813	4.206 4.398	10.177 10.481
1979 Total	.149	2.836	1.334	4.319	NA NA	.012	NA NA	.012	4.333	1.854	4.439	10.461
1980 Total	.115	2.674	1.288	4.076	NA	.021	NA	.021	4.097	1.906	4.591	10.594
1981 Total	.137	2.583	1.090	3.810	NA	.021	NA	.021	3.831	2.033	4.774	10.638
1982 Total	.155	2.673	1.008	3.837	NA	.022	NA	.022	3.859	2.077	4.944	10.880
1983 Total	.162	2.508	1.136	3.805	NA	.022	NA	.022	3.827	2.116	5.008	10.952
1984 Total	.169	2.600	1.198	3.967	NA	.022	NA	.022	3.989	2.264	5.209	11.463
1985 Total1986 Total	.137	2.508 2.386	1.039 1.099	3.684 3.620	NA NA	.024 .027	NA NA	.024 .027	3.708 3.647	2.351 2.439	5.405 5.515	11.465 11.600
1987 Total	.135 .125	2.505	1.079	3.709	NA NA	.027	NA NA	.027	3.738	2.539	5.674	11.951
1988 Total	.131	2.748	1.037	3.916	NA	.032	NA NA	.032	3.948	2.675	5.948	12.571
1989 Total	.115	2.802	.973	3.891	.001	.058	.003	.061	3.952	2.767	6.437	13.156
1990 Total	.124	2.701	.913	3.739	.001	.067	.003	.071	3.810	2.860	6.611	13.281
1991 Total	.116	2.813	.859	3.788	.001	.068	.003	.072	3.860	2.918	6.681	13.458
1992 Total	.117	2.890	.811	3.817	.001	.076	.003	.081	3.898	2.900	6.596	13.394
1993 Total	.117	2.942	.750	3.809	.001	.079	.003	.084	3.892	3.019	6.877	13.788
1994 Total	.118 .117	2.979 3.113	.747 .710	3.844 3.940	.001 .001	.081 .086	.004 .005	.086 .092	3.930	3.116 3.252	7.013 7.381	14.059 14.665
1995 Total 1996 Total	.117	3.113	.743	4.108	.001	.103	.005	.110	4.032 4.218	3.344	7.599	15.161
1997 Total	.122	3.302	.704	4.135	.001	.103	.005	.113	4.248	3.503	7.928	15.679
1998 Total	.093	3.098	.653	3.845	.001	.102	.007	.111	3.956	3.678	8.330	15.964
1999 Total	.103	3.130	.637	3.870	.001	.106	.007	.114	3.984	3.766	8.597	16.347
2000 Total	.092	3.265	.726	4.083	.001	.100	.008	.109	4.192	3.956	8.982	17.129
2001 Total	.097	3.116	.742	3.955	.001	.080	.008	.089	4.044	4.086	9.194	17.323
2002 January	.010	.443	.090	.543	(s)	.007	.001	.007	.550	.332	.721	1.604
February	.009	.409	.071	.489	(s)	.006	.001	.007	.495	.308	.642	1.445
March	.008	.381	.071	.460	(s)	.007	.001	.007	.467	.316	.717	1.500
April	.007 .006	.272 .195	.058 .050	.337 .251	(s)	.007 .007	.001 .001	.007 .008	.345 .259	.318 .337	.715 .784	1.377 1.380
May June	.005	.148	.049	.202	(s) (s)	.007	.001	.008	.210	.367	.854	1.431
July	.007	.138	.050	.196	(s)	.008	.001	.008	.204	.401	.925	1.531
August	.006	.137	.051	.194	(s)	.008	.001	.008	.202	.400	.890	1.492
September	.005	.143	.048	.196	(s)	.007	.001	.008	.204	.375	.791	1.370
October	.006	.201	.055	.263	(s)	.007	.001	.008	.271	.355	.766	1.392
November	.009	.304	.064	.377	(s)	.007	.001	.008	.385	.319	.729	1.432
December Total	.012 .091	.426 3.196	.081 .738	.519 4.025	(s) (s)	.007 .084	.001 .009	.007 .093	.527 4.118	.328 4.157	.761 9.293	1.616 17.568
TOtal	.031	3.130	.730		(3)	.004	.009	.033		4.137	3.233	
2003 January	.011	.524	.094	R .629	(s)	.007	.001	.008	R .637	.348	.760	R 1.745
February	.010	R .489	.079	.578	(s)	.007	.001	.008	.586	.317	.648	R 1.550
March	.007	.392	.072	.471	(s)	.008	.001	.009	R .480	.322	.714	1.516 R 1.338
April May	.008 .006	.263 .182	.061 .048	.332 .236	(s) (s)	.008 .008	.001 .001	.009 .009	.341 .246	.311 .333	.687 .773	R 1.338
June	.005	R .138	.046	R .189	(s) (s)	.008	.001	.009	R .198	.353 .354	.807	1.360
July	.007	.133	.050	R .190	(s)	.008	.001	.009	.200	.398	.897	1.495
August	.007	.131	.055	.193	(s)	.008	.001	.009	.202	.403	.895	R 1.500
September	.005	.137	.051	.192	(s)	.007	.001	.008	.200	.371	.742	1.314
October	.006	R .183	.057	.245	(s)	.008	.001	.009	R .255	.350	.756	R 1.361
November	.009	R .258	.061	R .328	(s)	.008	.001	.009	R .337	.325	.740	R 1.402
December Total	.014 .094	R .400 3.229	.082 .756	R .496 R 4.079	(s) . 001	.008 .090	.001 .015	.009 .107	^R .505 ^R 4.186	.342 4.174	.781 9.198	R 1.629
2004 January	.012	R .507	.095	R .614	(s)	.008	.001	.009	R .623	.339	.768	R 1.729
February	.010	R .475 R .355	.082	^R .567 ^R .435	(s)	.007	.001	.008	^R .576 ^R .444	.320	.692	R 1.588 R 1.474
March April	.006 .008	N.355 R.253	.073 .064	^N .435 R .325	(s) (s)	.008 .008	.001 .001	.009 .009	R .334	.325 .317	.705 .686	R 1.336
May	.006	R .171	.054	R 227	(s) (s)	.008	.001	.009	R .236	.343	.812	1.390
June	.005	.171	.049	R .192	(s)	.008	.001	.009	R .201	.367	.816	1.384
July	R .009	R.127	.054	R .190	(s)	.008	.001	.009	R .199	.394	.883	R 1.476
August	.008	.127	.053	.187	(s)	.008	.001	.009	.196	.386	.860	1.442
8-Month Total	.063	2.151	.522	2.737	.001	.061	.010	.072	2.809	2.790	6.220	11.819
2003 8-Month Total	.061	2.252	.505	2.818	.001	.060	.010	.071	2.889	2.786	6.181	11.856
	.059	2.123	.489	2.670	(s)	.056	.006	.062	2.732	2.779	6.248	11.759

 ^a All values are estimated; see Table 10.2a.
 ^b Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.
 ^c Conventional hydroelectric power.

<sup>Conventional hydroelectric power.

Geothermal heat pump and direct use energy.

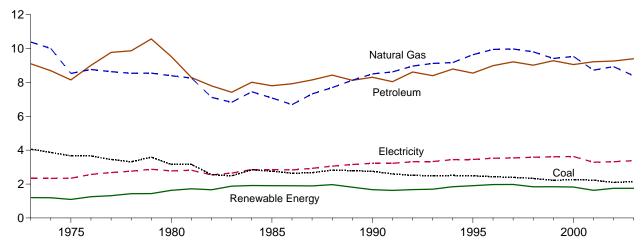
Electricity retail sales to ultimate customers reported by electric utilities and</sup> other energy service providers.

f See Note 12 at end of section.
R=Revised. NA=Not available. (s)=Less than 0.5 trillion Btu.
Notes:

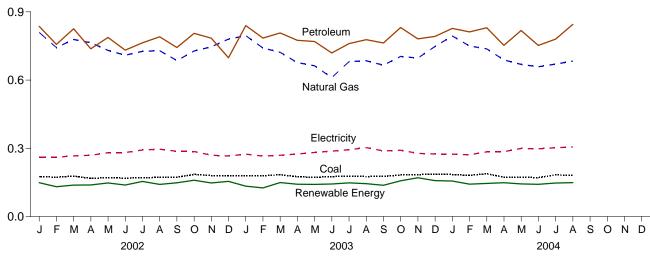
• Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia.
Web Page: http://www.eia.doe.gov/emeu/mer/consump.html.
Additional Notes and Sources: See end of section.

Figure 2.4 Industrial Sector Energy Consumption (Quadrillion Btu)

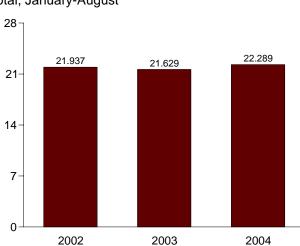
By Major Sources, 1973-2003



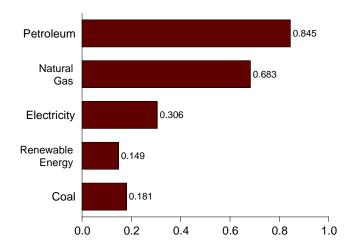
By Major Sources, Monthly



Total, January-August



By Major Sources, August 2004



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/consump.html.

Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption

(Quadrillion Btu)

				Prim	ary Consum	nption						
		Foss	il Fuels			Renewak	ole Energy ^a					
	Coal	Natural Gas ^b	Petroleum	Total	Hydro- power ^d	Wood ^e and Waste ^f	Geo- thermal ^g	Total	Total Primary	Electricity Retail Sales ^h	Electrical System Energy Losses	Total ^c
1973 Total 1974 Total	4.057 3.870	10.388 10.004	9.104 8.694	23.541 22.624	0.035 .033	1.165 1.159	NA NA	1.200 1.192	24.741 23.816	2.341 2.337	5.571 5.666	32.653 31.819
1975 Total 1976 Total	3.667 3.661	8.532 8.762	8.146 9.010	20.359 21.432	.032 .033	1.063 1.220	NA NA	1.096 1.253	21.454 22.685	2.346 2.573	5.647 6.171	29.447 31.429
1977 Total	3.454	8.635	9.774	21.879	.033	1.281	NA	1.314	23.193	2.682	6.432	32.307
1978 Total 1979 Total	3.314 3.593	8.539 8.549	9.867 10.568	21.845 22.773	.032 .034	1.400 1.405	NA NA	1.432 1.439	23.277 24.211	2.761 2.873	6.696 6.878	32.733 33.962
1980 Total	3.155	8.395	9.525	21.040	.033	1.600	NA	1.633	22.673	2.781	6.698	32.152
1981 Total 1982 Total	3.157 2.552	8.257 7.121	8.285 7.794	19.682 17.446	.033 .033	1.689 1.634	NA NA	1.722 1.667	21.404 19.112	2.817 2.542	6.615 6.050	30.836 27.704
1983 Total	2.490	6.826	7.420	16.720	.033	1.845	NA	1.879	18.598	2.648	6.265	27.511
1984 Total 1985 Total	2.842 2.760	7.448 7.080	8.014 7.805	18.292 17.632	.033 .033	1.883 1.875	NA NA	1.916 1.908	20.208 19.540	2.859 2.855	6.576 6.563	29.643 28.958
1986 Total	2.641	6.690	7.920	17.234	.033 .033	1.866	NA	1.899 1.891	19.133	2.834	6.408	28.375
1987 Total 1988 Total	2.673 2.828	7.323 7.696	8.151 8.430	18.155 18.993	.033	1.858 1.933	NA NA	1.965	20.046 20.958	2.928 3.059	6.545 6.801	29.519 30.818
1989 Total 1990 Total	2.787 2.756	8.131 8.502	8.126 8.305	19.074 19.568	.028 .031	1.784 1.634	.002 .002	1.814 1.667	20.888 21.235	3.158 3.226	7.349 7.457	31.396 31.918
1991 Total	2.601	8.619	8.047	19.277	.030	1.595	.002	1.626	20.903	3.230	7.394	31.527
1992 Total 1993 Total	2.515 2.496	8.967 9.120	8.616 8.398	20.133 20.042	.031 .030	1.640 1.664	.002 .002	1.672 1.696	21.806 21.738	3.319 3.334	7.548 7.596	32.673 32.668
1994 Total	2.510	9.172	8.792	20.532	.062	1.779	.003	1.844	22.376	3.439	7.742	33.557
1995 Total 1996 Total	2.488 2.434	9.637 9.947	8.552 8.989	20.738 21.393	.055 .061	1.847 1.907	.003 .003	1.905 1.971	22.643 23.364	3.455 3.527	7.842 8.014	33.941 34.905
1997 Total	2.395	9.976	9.214	21.632	.058	1.915	.003	1.976	23.608	3.542	8.017	35.167
1998 Total 1999 Total	2.335 2.227	9.806 9.415	9.017 9.284	21.226 20.983	.055 .049	1.784 1.791	.003 .004	1.841 1.843	23.067 22.826	3.587 3.611	8.124 8.242	34.777 34.679
2000 Total	2.256	9.535	9.055	20.912	.042	1.781	.004	1.828	22.740	3.631	8.245	34.616
2001 Total	2.230	8.725	9.220	20.204	.032	1.593	.005	1.630	21.834	3.290	7.404	32.527
2002 January	.175	.810	.837	1.821	.003	.145	(s)	.149	1.970	.261	.568	2.799
February March	.173 .177	.743 .779	.757 .826	1.676 1.789	.003 .003	.128 .135	(s) (s)	.131 .138	1.807 1.928	.261 .267	.544 .605	2.611 2.799
April	.168	.764	.738	1.668	.003	.135	(s)	.139	1.807	.269	.605	2.682
May June	.170 .169	.731 .710	.788 .732	1.693 1.612	.003 .003	.144 .136	(s) (s)	.147 .139	1.840 1.751	.281 .281	.652 .655	2.772 2.687
July	.170 .173	.726 .729	.764 .790	1.670 1.699	.003 .003	.151 .138	(s)	.154 .141	1.824 1.841	.292 .296	.674 .659	2.791 2.795
August September	.173	.686	.743	1.610	.003	.145	(s) (s)	.148	1.758	.287	.606	2.793
October November	.185 .180	.728 .746	.806 .785	1.725 1.721	.003 .005	.156 .143	(s) (s)	.159 .148	1.884 1.869	.286 .270	.616 .617	2.786 2.755
December	.180	.780	.698	1.662	.005	.149	(s)	.155	1.817	.266	.618	2.701
Total	2.094	8.931	9.262	20.348	.039	1.705	.005	1.748	22.096	3.317	7.416	32.830
2003 January	.179	.795	.840	1.816	.004	.129	(s)	.134	1.949	.274	.598	2.822
February March	.179 .184	.741 .722	.785 .807	1.719 1.717	.004 .005	.122 .144	(s) (s)	.126 .149	1.844 1.866	.266 .269	.544 .597	2.654 2.733
April	.175	.677	.775	1.631	.004	.137	(s)	.142	1.772	.275	.608	2.655
May June	.172 .175	.663 .611	.769 .719	1.607 1.509	.005 .005	.135 .138	(s) (s)	.141 .143	1.748 1.652	.281 .288	.654 .655	2.683 2.595
July	.178	.681	.761	1.624	.005	.143	(s)	.148	1.772	.294	.662	2.728
August September	.176 .176	.685 .665	.778 .763	1.639 1.609	.005 .004	.139 .133	(s) (s)	.144 .137	1.783 1.746	.303 .288	.672 .576	2.759 2.611
October November	.183 .184	.704 .697	.831 .781	1.722 1.666	.004 .004	.153 .166	(s) (s)	.157 .170	1.880 1.836	.292 .278	.630 .633	2.801 2.747
December	.187	.748	.792	1.733	.006	.151	(s)	.158	1.891	.275	.628	2.794
Total	2.149	8.390	9.402	19.991	.057	1.689	.005	1.750	21.741	3.383	7.453	32.577
2004 January	.185	R .794	.827	R 1.810	.005	.150	(s)	.156	R 1.966	.274	.622	R 2.862
February March	.181 .188	^R .750 ^R .737	.812 .830	^R 1.752 ^R 1.765	.004 .004	.138 .141	(s) (s)	.142 .145	^R 1.894 ^R 1.910	.271 .284	.587 .617	^R 2.753 ^R 2.811
April	.173	R .689	.753	R 1.638	.004	.145	(s)	.149	R 1.787	.285	.617	R 2.689
May June	.173 .171	.669 R .658	.818 .752	1.697 R 1.602	.004 .003	.139 .138	(s) (s)	.143 .141	1.840 ^R 1.744	.299 .298	.709 .662	R 2.849 R 2.703
July	R .183	R .671	.780	^R 1.643	.003 .004	.144	(s)	.147	R 1.791	.302	.677	R 2.770
August 8-Month Total	.181 1.435	.683 5.651	.845 6.418	1.717 13.624	.004 .032	.145 1.139	. 003	.149 1.174	1.866 14.798	.306 2.320	.681 5.171	2.853 22.289
2003 8-Month Total 2002 8-Month Total	1.419 1.376	5.575 5.991	6.234 6.230	13.261 13.629	.038 .023	1.086 1.112	.003 .003	1.127 1.138	14.389 14.768	2.250 2.208	4.991 4.962	21.629 21.937

 ^a All values are estimated; see Table 10.2b.
 ^b Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.
 ^c Includes coal coke net imports, which are not separately displayed. See Table

d Conventional hydroelectric power.
Wood, black liquor, and other wood waste.
Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

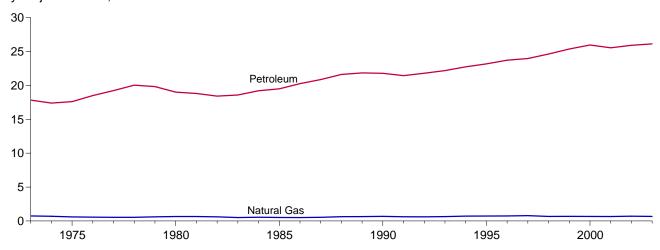
 ⁹ Geothermal heat pump and direct use energy.
 ^h Electricity retail sales to ultimate customers reported by electric utilities and other energy service providers.
 ⁱ See Note 12 at end of section.

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

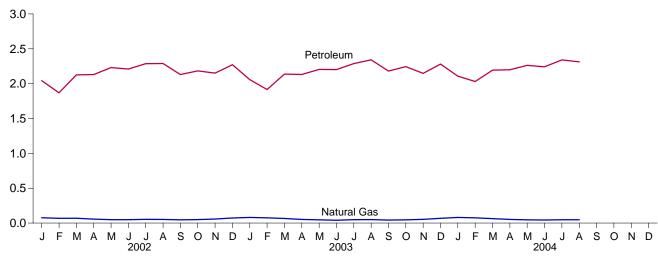
• Totals may not equal sum of components due to independent rounding.
• Geographic coverage is the 50 States and the District of Columbia.
Web Page: http://www.eia.doe.gov/emeu/mer/consump.html.
Additional Notes and Sources: See end of section.

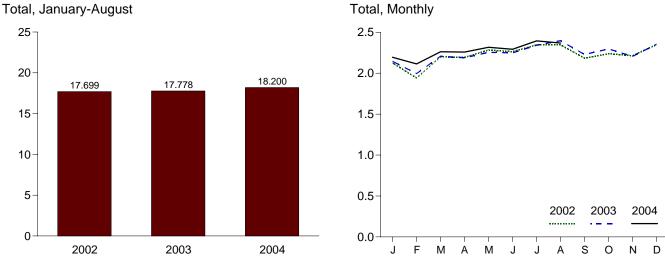
Figure 2.5 Transportation Sector Energy Consumption (Quadrillion Btu)

By Major Sources, 1973-2003



By Major Sources, Monthly





Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.5.

Table 2.5 Transportation Sector Energy Consumption

(Quadrillion Btu)

			Primary Co	nsumption	_				
		Foss	il Fuels		Renewable Energy ^a		Electricity	Electrical	
	Coal	Natural Gas ^b	Petroleum ^{c,d}	Total	Alcohol Fuels ^{d,e}	Total Primary ^d	Retail Sales ^f	System Energy Losses ⁹	Totald
1973 Total	0.003	0.743	17.831	18.576	NA	18.576	0.011	0.025	18.612
1974 Total	.002	.685	17.399	18.086	NA	18.086	.010	.024	18.119
1975 Total1976 Total	.001 (s)	.595 .559	17.614 18.506	18.209 19.065	NA NA	18.209 19.065	.010 .010	.024 .024	18.244 19.099
1977 Total	(s)	.543	19.241	19.784	NA NA	19.784	.010	.025	19.820
1978 Total	(h)	.539	20.041	20.580	NA	20.580	.010	.024	20.615
1979 Total	(h)	.612	19.825	20.436	NA	20.436	.010	.024	20.471
1980 Total	(h)	.650	19.008	19.658	NA 007	19.658	.011	.027	19.696
1981 Total 1982 Total	\;\;\	.658 .612	18.811 18.420	19.469 19.032	.007 .019	19.476 19.051	.011 .011	.026 .026	19.513 19.088
1983 Total	}h{	.505	18.593	19.098	.035	19.133	.013	.030	19.176
1984 Total	(h)	.545	19.216	19.761	.043	19.804	.014	.033	19.851
1985 Total	(h)	.519	19.504	20.023	.052	20.075	.014	.033	20.122
1986 Total	(h)	.499	20.269	20.768	.060	20.828	.015	.034	20.877
1987 Total1988 Total	('h (.535 .632	20.870 21.629	21.405 22.261	.069 .070	21.474 22.331	.016 .016	.035 .035	21.524 22.382
1989 Total	} h {	.649	21.848	22.497	.070	22.568	.016	.038	22.622
1990 Total	(h)	.680	21.792	22.472	.063	22.535	.016	.037	22.589
1991 Total	(h)	.620	21.448	22.069	.073	22.142	.016	.037	22.195
1992 Total	(h)	.608	21.798	22.406	.083	22.489	.016	.037	22.542
1993 Total 1994 Total	\ h \	.645 .709	^d 22.185 22.739	22.830 23.448	^d .097 .109	^d 22.830 23.448	.016 .017	.037 .038	^d 22.883 23.503
1995 Total	}h{	.724	23.181	23.905	.117	23.905	.017	.039	23.960
1996 Total	(h)	.737	23.719	24.456	.084	24.456	.017	.038	24.511
1997 Total	(h)	.780	23.973	24.753	.106	24.753	.017	.038	24.808
1998 Total	(h)	.666	24.635	25.301	.117	25.301	.017	.038	25.357
1999 Total 2000 Total	\\ \\ \\	.675 .672	25.375 25.973	26.050 26.645	.122 .139	26.050 26.645	.017 .018	.040 .042	26.108 26.705
2000 Total	\ h \	.659	25.556	26.215	.147	26.215	.019	.042	26.276
	. ,								
2002 <u>January</u>	(h)	.076	2.044	2.120	.013	2.120	.001	.003	2.124
February	(h) (h)	.069	1.869	1.938	.012	1.938	.001	.003	1.942
March April	\ h \	.069 .057	2.127 2.131	2.196 2.188	.012 .012	2.196 2.188	.001 .001	.003 .003	2.200 2.193
May	} h {	.049	2.230	2.279	.012	2.279	.001	.003	2.284
June	(h)	.048	2.210	2.258	.012	2.258	.002	.004	2.263
July	(h)	.053	2.287	2.340	.015	2.340	.002	.004	2.346
August	(h (.052	2.290	2.342	.014	2.342	.002	.004	2.347
September October	\ h \	.047 .050	2.131 2.183	2.178 2.233	.015 .017	2.178 2.233	.002 .002	.004 .003	2.183 2.238
November	} h {	.058	2.151	2.209	.020	2.209	.002	.003	2.214
December	(h ΄)	.073	2.272	2.345	.019	2.345	.001	.003	2.349
Total	(h)	.702	25.924	26.626	.174	26.626	.018	.039	26.683
2003 January	(h)	.081	2.059	2.140	.017	2.140	.001	.003	2.144
February	(h)	.075	1.916	1.991	.020	1.991	.001	.003	R 1.995
March	(h)	.066	2.138	2.204	.017	2.204	.001	.003	2.208
April	(h)	.052	2.131	2.184	.020	2.184	.001	.003	2.188
May June	('')	.046 .041	2.205 2.202	2.251 2.243	.019 .019	2.251 2.243	.001 .002	.003 .004	2.255 2.248
July	\ h \	.048	2.202	2.336	.020	2.336	.002	.004	2.246
August	(h)	.049	2.342	2.391	.021	2.391	.002	.004	2.397
September	(h)	.043	2.182	2.224	.018	2.224	.002	.003	2.229
October	(h)	.047	2.245	2.292	.021	2.292	.002	.003	2.297
November December	('')	.053 R .069	2.148 2.280	2.201 2.349	.024 .025	2.201 2.349	.001 .002	.003 .003	2.206 2.354
Total	(h)	.671	26.135	26.805	.239	26.805	.018	.040	26.863
2004 January	(h)	E .080	2.108	2.188	.024	2.188	.002	.005	2.195
February	(h (E 075	2.031	2.106	.022	2.106	.002	.005	2.113
March	(h)	± 063	2.193	2.257	.024	2.257	.002	.004	2.262
April	(h)	E.053	2.199	2.252	.024	2.252	.002	.004	2.258
May	(h)	E .047 E .044	2.263	2.310	.025	2.310	.002	.004	2.316
June July	('')	RE .048	2.242 2.341	2.286 2.388	.025 .025	2.286 2.388	.002 .002	.004 .005	2.292 R 2.395
August	\h \	E .047	2.313	2.361	.023	2.361	.002	.005	2.368
8-Month Total	(h)	E.458	17.691	18.148	.193	18.148	.016	.036	18.200
2003 8-Month Total	(h)	.460	17.280	17.740	.151	17.740	.012	.026	17.778
	\ . <i>!</i>		17.187	17.662	.104			.020	17.699

All values are estimated; see Table 10.2b.
 Natural gas consumed in the operation of pipelines (primarily in compressors) and small amounts consumed as vehicle fuel. See Table 4.4.
 Beginning in 1993, includes ethanol blended into motor gasoline.
 Beginning in 1993, ethanol blended into motor gasoline is included in both "Petroleum" and "Alcohol Fuels," but is counted only once in both total primary

consumption and total consumption.

e "Alcohol Fuels" is ethanol blended into motor gasoline.

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

beginning in 1996, other energy service providers.

⁹ See Note 12 at end of Section.

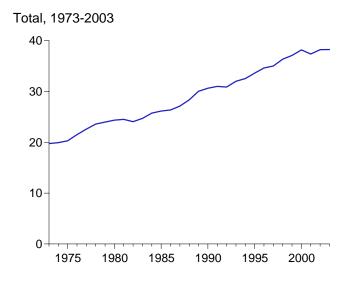
^h Since 1978, the small amounts of coal consumed for transportation are reported as industrial sector consumption.

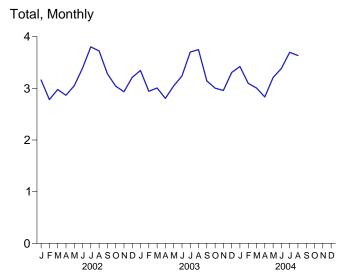
R=Revised. E=Estimate. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes:

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

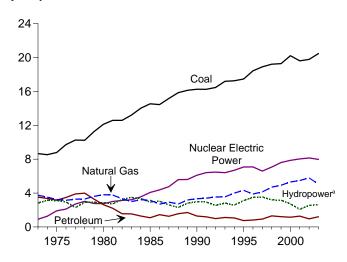
• Geographic coverage is the 50 States and the District of Columbia. Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Additional Notes and Sources: See end of section.

Figure 2.6 Electric Power Sector Energy Consumption (Quadrillion Btu)

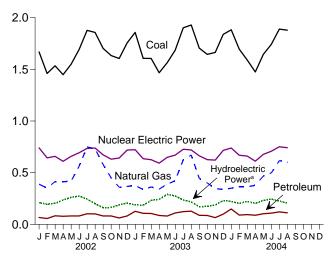




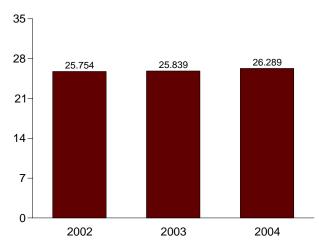
By Major Sources, 1973-2003



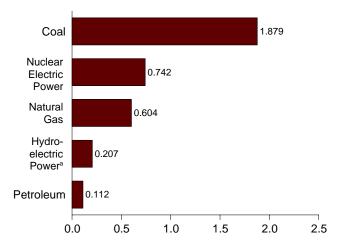
By Major Sources, Monthly



Total, January-August



By Major Sources, August 2004



^aConventional and pumped storage hydroelectric power. Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Source: Table 2.6.

Table 2.6 Electric Power Sector Energy Consumption

(Quadrillion Btu)

						Prima	ry Consumption						
		Foss	il Fuels						ble Energy	,			
	Coal	Natural Gas ^a	Petroleum	Total	Nuclear Electric Power	Hydro- electric Pumped Storage ^b	Conventional Hydroelectric Power	Wood ^c and Waste ^d	Geo- thermal ^e	Solar ^f and Wind ^g	Total	Electricity Net Imports	Total Primary
1973 Total 1974 Total 1975 Total 1976 Total 1977 Total 1978 Total 1979 Total 1980 Total 1981 Total 1982 Total	8.658 8.534 8.786 9.720 10.262 10.238 11.260 12.123 12.583 12.583	3.748 3.519 3.240 3.152 3.284 3.297 3.613 3.810 3.768 3.342	3.515 3.365 3.166 3.477 3.901 3.987 3.283 2.634 2.202 1.568	15.921 15.418 15.191 16.349 17.446 17.522 18.156 18.567 18.553 17.491	0.910 1.272 1.900 2.111 2.702 3.024 2.776 2.739 3.008 3.131	(h) (h) (h) (h) (h) (h) (h)	2.827 3.143 3.122 2.943 2.301 2.905 2.897 2.867 2.725 3.233	0.003 .003 .002 .003 .005 .003 .005 .005	0.043 .053 .070 .078 .077 .064 .084 .110 .123	NA NA NA NA NA NA NA NA	2.873 3.199 3.194 3.024 2.383 2.973 2.986 2.982 2.852 3.341	0.049 .043 .021 .029 .059 .067 .069 .071 .113	19.753 19.933 20.307 21.513 22.591 23.587 23.987 24.359 24.525 24.063
1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1988 Total 1989 Total 1990 Total	13.213 14.019 14.542 14.444 15.173 15.850 16.137 16.261	2.998 3.220 3.160 2.691 2.935 2.709 3.192 3.332	1.544 1.286 1.090 1.452 1.257 1.563 1.703 1.289	17.754 18.526 18.792 18.586 19.365 20.123 21.032 20.883	3.203 3.553 4.076 4.380 4.754 5.587 5.602 6.104	(h) (h) (h) (h) (h) (h) 036	3.494 3.353 2.937 3.038 2.602 2.302 2.808 3.014	.004 .009 .014 .012 .015 .017 .232 .317	.129 .165 .198 .219 .229 .217 .308	(s) (s) (s) (s) (s) (s) .025 .033	3.627 3.527 3.150 3.270 2.846 2.536 3.372 3.689	.121 .135 .140 .122 .158 .108	24.705 25.741 26.158 26.359 27.124 28.354 30.044 30.647
1991 Total 1992 Total 1993 Total 1994 Total 1995 Total 1995 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total	16.250 16.466 17.196 17.261 17.466 18.429 18.905 19.216 19.279 20.220	3.399 3.534 3.560 4.000 4.325 3.883 4.146 4.698 4.926 5.316 5.481	1.198 .991 1.124 1.059 .755 .817 .927 1.306 1.211 1.144	20.847 20.990 21.880 22.320 22.546 23.129 23.977 25.220 25.416 26.680 26.371	6.422 6.479 6.410 6.694 7.075 7.087 6.597 7.068 7.610 7.862 8.033	047 043 042 035 028 032 041 046 062 057 090	2.985 2.586 2.861 2.620 3.149 3.528 3.581 3.241 3.218 2.768 2.169	.354 .402 .415 .434 .422 .438 .446 .444 .453 .453	.335 .338 .351 .325 .280 .300 .309 .311 .312 .296 .289	.036 .034 .036 .041 .038 .039 .036 .051 .062	3.710 3.360 3.662 3.420 3.889 4.305 4.375 4.032 4.034 3.579 2.982	.067 .087 .095 .153 .134 .137 .116 .088 .099 .115	30.999 30.873 32.006 32.551 33.616 34.626 35.024 36.363 37.097 38.180 37.372
Page 2 January February March April May June July August September October November December Total	1.668 1.460 1.535 1.448 1.549 1.691 1.877 1.857 1.703 1.633 1.605 1.756 19.783	.389 .351 .415 .412 .418 .562 .749 .732 .580 .451 .359 .367	.067 .057 .084 .079 .082 .082 .102 .102 .082 .081 .062 .081	2.124 1.868 2.033 1.939 2.049 2.335 2.728 2.691 2.365 2.166 2.026 2.205 26.529	.740 .644 .658 .610 .658 .693 .735 .739 .673 .631 .642 .719	008 006 007 006 005 009 010 009 008 007 007	.218 .201 .210 .242 .267 .283 .255 .211 .170 .170 .195 .214	.043 .037 .043 .040 .041 .043 .046 .045 .043 .043 .046 .516	.027 .024 .026 .023 .026 .024 .027 .026 .025 .026 .025 .026	.008 .007 .009 .011 .011 .012 .010 .011 .008 .008 .007	.296 .270 .288 .316 .345 .362 .337 .293 .248 .247 .270 .293	.009 .007 .006 .006 .003 .007 .012 .010 .006 .005 .004	3.162 2.782 2.978 2.866 3.050 3.388 3.803 3.724 3.284 3.042 2.935 3.214 38.228
2003 January	1.857 1.607 1.605 1.467 1.563 1.685 1.902 1.929 1.706 1.663 1.838 20.468	.376 .337 .362 .341 .391 .421 .624 .670 .445 .401 .346 .338 5.053	.126 .107 .105 .086 .081 .110 .124 .128 .088 .087 .066 .099	2.360 2.051 2.073 1.894 2.035 2.216 2.650 2.728 2.239 2.133 2.075 2.275 26.729	.722 .636 .626 .593 .649 .670 .727 .721 .664 .627 .622 .716 7.973	008 008 008 006 006 008 008 008 008 007 007	.195 .195 .241 .248 .297 .283 .244 .226 .180 .181 .195 .238	.042 .036 .042 .040 .039 .041 .046 .045 .040 .044 .044	.024 .022 .023 .022 .023 .023 .023 .023 .023	.006 .007 .011 .012 .010 .011 .010 .009 .010 .010	.267 .260 .317 .322 .368 .358 .323 .302 .251 .258 .272 .322 3.619	.005 .004 001 .003 .001 .010 .008 002 006 003	3.346 2.943 3.006 2.806 3.047 3.238 3.702 3.750 3.144 3.004 2.960 3.307 38.255
2004 January	1.883 1.695 1.590 1.475 1.645 1.742 1.890 1.879	.350 .365 .364 .378 .468 .498 .617 .604	.149 .091 .095 .089 .104 .108 .121 .112	2.382 2.151 2.049 1.941 2.217 2.348 2.627 2.594 18.309	.739 .669 .661 .612 .678 .708 .751 .742 5.559	008 006 007 007 007 007 008 056	.230 .209 .228 .210 .239 .252 .231 .215 1.813	.045 .040 .042 .040 .043 .041 .046 .045	.026 .025 .025 .024 .025 .025 .026 .026	.009 .010 .013 .013 .017 .015 .012 .011	.310 .284 .309 .286 .323 .333 .315 .296 2.456	(s) .000 003 (s) .001 .002 .010 .012	3.424 3.097 3.098 2.833 3.211 3.384 3.697 3.636 26.289
2003 8-Month Total 2002 8-Month Total	13.616 13.085	3.523 4.028	.868 .655	18.007 17.768	5.344 5.477	059 060	1.929 1.886	.332 .340	.182 .203	.074 .080	2.516 2.508	.032 .060	25.839 25.754

^a Natural gas, plus a small amount of supplemental gaseous fuels that cannot b Pumped storage facility production minus energy used for pumping.

Wood, black liquor, and other wood waste.

Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts,

and other biomass.

^e Geothermal electricity net generation.

f Solar thermal and photovoltaic electricity net generation.

g Wind electricity net generation.

h Included in conventional hydroelectric power.

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.

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.

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

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

Web Page: http://www.eia.de.gov/emps/(mer/consump.tym).

Web Page: http://www.eia.doe.gov/emeu/mer/consump.html. Additional Notes and Sources: See end of section.

Energy Consumption by Sector

Most of the data in this section of the *Monthly Energy Review (MER)* is developed from a group of energy-related surveys, typically called "supply surveys," conducted by the 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, Energy Information Administration, Washington, DC, April 6, 1990.

Note 1. Energy Consumption:

Primary Consumption: Consumption in the five energy-use sectors (residential, commercial, industrial, transportation, and electric power) consists of fossil fuels (coal, natural gas, and petroleum), some secondary energy derived from fossil fuels (supplemental gaseous fuels and coal coke net imports), nuclear electric power, pumped-storage hydroelectric power, renewable energy, and net imports of electricity. Renewable energy consumption is the end-use consumption of wood, waste, alcohol fuels, geothermal heat pump and direct use energy, solar thermal direct use and photovoltaic energy and net electricity generation from conventional hydroelectric power, wood, waste, geothermal, solar, and wind.

Total Consumption: In addition to primary consumption in the four end-use sectors (residential, commercial, industrial, and transportation), total consumption also includes retail sales of electricity and electrical system energy losses (see Note 12).

Note 2. Energy-Use Sectors: The five major economic sectors—residential, commercial, industrial, transportation, and electric power—are called energy-use sectors in this report. The first four sectors comprise the end-use sectors, that is, the point of final consumption of the energy. Energy

consumption is assigned to the five energy-use sectors, as closely as possible, by the following definitions:

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. For further explanation see:

http://www.eia.doe.gov/neic/datadefinitions/Guideforwebres.htm.

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. 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.

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 (North American Industry Classification System) codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); natural gas distribution (NAICS code 2212); 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.

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 further information see:

http://www.eia.doe.gov/neic/datadefinitons/Guideforwebtrans.htm.

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.

Although the energy-use allocations are made according to these aggregations as closely as possible, some data are collected by using different classifications. For example, electric power facilities may classify commercial and industrial users by the quantity of electricity purchased rather than by the business activity of the purchaser. Natural gas used in agriculture, forestry, and fisheries was collected and reported in the commercial sector through 1995. Beginning with 1996 data, deliveries of natural gas for agriculture, forestry, fishing, and hunting are reported in the industrial sector instead. Another example is master-metered condominiums and apartments, and buildings with a combination of residential and commercial units. In many cases, the metering and billing practices cause residential energy usage of electricity, natural gas, or fuel oil to be included in the commercial sector. No adjustments for these discrepancies were made.

Note 3. Conversion Factors: See Appendix A.

Note 4. Coal: See Tables 6.2 and A5.

Note 5. Coal Coke Net Imports: Net imports means imports minus exports, and a minus sign indicates that exports are greater than imports. Coal coke net imports are included in the industrial sector.

Sources .

1973-1975: DOI, BOM, *Minerals Yearbook*, "Coke and Coal Chemicals" chapter.

1976-1980: EIA, *Energy Data Report*, "Coke and Coal Chemicals" annual.

1981: EIA, Energy Data Report, "Coke Plant Report," quarterly.

1982 forward: EIA, Quarterly Coal Report.

Note 6. Natural Gas: See Tables 4.4 and A4. For Section 2 calculations, lease and plant fuel consumption are included in the industrial sector, and pipeline fuel use of natural gas is included in the transportation sector. For 1973-1979, annual values for residential and commercial natural gas consumption are allocated to the months in proportion to the monthly sales data from the American Gas Association, "Monthly Gas Utility Statistical Report."

Note 7. Petroleum: Petroleum consumption in this section of the *Monthly Energy Review (MER)* is the series called "petroleum product supplied" from Section 3.

The sources for petroleum product supplied by product are:

1973-1975: DOI, BOM, *Mineral Industry Surveys*, "Petroleum Statement, Annual."

1976-1980: EIA, *Energy Data Reports*, "Petroleum Statement, Annual."

1981-2003: EIA, *Petroleum Supply Annual*. 2004 forward: EIA, *Petroleum Supply Monthly*.

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

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

Asphalt—All consumption of asphalt is assigned to the industrial sector.

Distillate Fuel—Distillate fuel consumption is assigned to the sectors as follows:

Distillate Fuel Consumed by the Electric Power Sector, All Time Periods—For 1973-1979, consumption of distillate fuel 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 forward, consumption of distillate fuel is assumed to be the amount of light oil (minus small amounts of kerosene deliveries through 1982) consumed by the electric power sector. See Table 7.3e.

Distillate Fuel Consumed by End-Use Sectors, Annually Through 2000—The aggregate end-use amount is total distillate fuel supplied minus the amount consumed for electric power. The end-use total consumed annually is allocated into the individual end-use sectors (residential, commercial, industrial, and transportation) in proportion to each sector's share of "adjusted 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, previously Form EIA-172. "Adjusted sales" are sales that have been adjusted to equal EIA distillate fuel product supplied.

Following are notes on the individual sector groupings:

Since 1979, the residential sector adjusted 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 adjusted 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 adjusted sales total is the sum of the adjusted 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 adjusted sales total is the sum of the adjusted sales for railroad, vessel bunkering, on-highway diesel, and military uses for all years.

Distillate Fuel Consumed by End-Use Sectors, Monthly Through 2000—Residential and commercial 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. The years' 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. The remaining transportation use of distillate fuel (i.e., for railroads, vessel bunkering, and military use) is evenly distributed over the months, adjusted for the number of days per month.

Industrial monthly estimates are calculated as the difference between the sum of the estimates for residential, commercial, transportation, and electric power sectors and total distillate fuel consumption.

Distillate Fuel Consumed by End-Use Sectors, 2001 Forward—Each month's end-use consumption total is disaggregated into the individual sectors in proportion to the share that each sector held of the total in the same month in 2000. Annual values are the sum of the monthly values.

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 the Form FERC-423 (formerly Form FPC-423) were used as estimates of this consumption. All remaining jet fuel (kerosene-type and naphtha-type) is consumed by the transportation sector.

Kerosene—Kerosene product supplied is allocated into 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, 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 split into residential, commercial, and industrial 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 split into residential, commercial, and industrial in proportion to the 1979 shares.

Since 1979, the industrial sector sales total is the sum of the adjusted sales for industrial, farm, and all other uses. Prior to 1979, each year's sales category called "heating" is split into residential, commercial and industrial in proportion to the 1979 shares, and this 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 sector are converted from thousand gallons per year to thousand barrels per year and are assumed to be the annual consumption of LPG by the 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 73 percent (in 1994).

LPG consumed annually by the industrial sector is estimated as the difference between LPG total supplied and the estimated consumption of LPG by the sum of the residential and commercial sector and the transportation sector. The industrial sector 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.

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 nonhighway 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—A portion of petroleum coke is consumed by electric utilities, as reported on Form EIA-759, "Monthly Power Plant Report" (formerly Form FPC-4). The remaining petroleum coke is assigned to the industrial sector.

Residual Fuel—Residual fuel consumption is assigned to the sectors as follows:

Residual Fuel Consumed by the Electric Power Sector, All Time Periods—For 1973-1979, consumption of residual fuel is assumed to be the amount of petroleum consumed in steam-electric power plants. For 1980 forward, consumption of residual fuel is assumed to be the amount of heavy oil consumed by the electric power sector. Source: Table 7.3e

Residual Fuel Consumed by End-Use Sectors, Annually Through 2000—The aggregate end-use amount is total residual fuel supplied minus the amount consumed for electric power. The end-use total consumed annually is allocated into the individual end-use sectors (commercial, industrial, and transportation) in proportion to each sector's share of "adjusted 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, previously Form EIA-172). "Adjusted sales" are sales that have been adjusted to equal EIA residual fuel product supplied.

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 split into commercial and industrial 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 split into commercial and industrial in proportion to the 1979 shares, and this 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 Consumed by End-Use Sectors, Monthly Through 2000—Commercial 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. The years' 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 1983-1996, EIA, Form EIA-782A, "Refiners'/Gas Plant Operators' Monthly Petroleum Product Sales Report," No. 2 Fuel Oil Sales to End Users and for Resale.

Transportation monthly estimates are made by evenly distributing the annual sector estimate over the months, adjusting for the number of days per month.

Industrial monthly estimates are calculated as the difference between the sum of the estimates for commercial, transportation, and electric power sectors and total residual fuel consumption.

Residual Fuel Consumption by End-Use Sectors, 2001 Forward—Each month's end-use consumption total is disaggregated into the individual sectors in proportion to the share that each sector held of the total in the same month in 2000. Annual values are the sum of the monthly values.

Road Oil—All consumption of road oil is assigned to the industrial sector.

All Other Petroleum Products—Consumption of all remaining petroleum products is assigned to the industrial sector.

Note 8. Nuclear Electric Power: See Tables 8.1 and A6. Nuclear electric power is included in the electric power sector.

Note 9. Hydroelectric Pumped Storage: See Tables 7.2a and A6. Pumped-storage hydroelectric power is included in the electric power sector.

Note 10. Renewable Energy: See Tables 10.2a-10.2c. End-use consumption of wood, waste, alcohol fuels, geothermal heat pump and direct use energy, and solar thermal direct use and photovoltaic energy is included in the end-use sectors. Included in the electric power sector are: net electricity generation from conventional hydroelectric power, wood, waste, geothermal, solar, and wind.

Note 11. Electricity: End-use consumption of electricity is based on retail sales of electricity in Table 7.5. "Other," which is primarily for use in government buildings, is added to the commercial sector, except for approximately 5 percent used by railroads and railways and attributed to the transportation sector. Kilowatthours are converted to Btu at the rate of 3,412 Btu per kilowatthour.

Note 12. 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 the retail sales of electricity-see Tables 7.5 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, approximately 67 percent of total energy input is lost in conversion; of electricity generated, approximately 5 percent is lost in plant use and 9 percent is lost in transmission and distribution. Calculated electrical system energy losses may be less than actual losses, because primary consumption does not include the energy equivalent of utility purchases of electricity from non-electric utilities and from Canada and Mexico, although they are included in electricity sales.

Section 3. Petroleum

Total petroleum imports¹ were estimated as 13.2 million barrels per day in October 2004, 6 percent higher than the previous month's rate and 7 percent higher than the October 2003 rate.

In October 2004, an estimated 20.4 million barrels per day of petroleum products were supplied for domestic use, 1 percent higher than the October 2003 rate. Motor gasoline accounted for 44 percent of the total; distillate fuel oil, 21 percent; and kerosene-type jet fuel, 8 percent.

Motor gasoline product supplied during October 2004 was estimated as 9.0 million barrels per day, slightly lower than the previous month's rate and 1 percent lower than the October 2003 rate. Total motor gasoline stocks were estimated as 202 million barrels at the end of October 2004, 4 million barrels below the stock level in the previous month

but 10 million barrels above the level 1 year earlier.

Distillate fuel oil product supplied during October 2004 was estimated as 4.2 million barrels per day, 5 percent higher than the previous month's rate and 8 percent higher than the October 2003 rate. Distillate fuel oil ending stocks for October 2004 were estimated as 116 million barrels, 7 million barrels below the stock level in the previous month and 16 million barrels below the level 1 year earlier.

Kerosene-type jet fuel product supplied in October 2004 was estimated as 1.6 million barrels per day, 3 percent higher than the previous month's rate and 2 percent more than the October 2003 rate. Kerosene-type jet fuel stocks were estimated as 40 million barrels at the end of October 2004, 1 million barrels below the stock level in the previous month but the same as the level 1 year earlier.

¹Total import data include imports into the Strategic Petroleum Reserve.

Table 3.1a Petroleum Overview: Field Production, Stock Change, **Petroleum Products Supplied, and Stocks**

	I	Field Production	on	Stock C	hange ^a		Stocksb
	Total Domestic ^c	Crude Oil	Natural Gas Plant Liquids	Crude Oild	Petroleum Products	Petroleum Products Supplied	Crude Oil ^d and Petroleum Products
			Thousand Ba	rrels per Day			Million Barrels
1973 Average 1974 Average 1975 Average	10,498	9,208 8,774 8,375	1,738 1,688 1,633	-11 62 ^e 17	146 117 ^e 15	17,308 16,653 16,322	1,008 ^e 1,074 1,133
1976 Average 1977 Average 1978 Average	9,913 10,328	8,132 8,245 8,707	^f 1,604 1,618 1,567	39 170 78	-96 378 -172	17,461 18,431 18,847	1,112 1,312 1,278
1979 Average 1980 Average 1981 Average 1982 Average	10,214 10,230	8,552 8,597 8,572 8,649	1,584 1,573 1,609 1,550	148 98 ^e 290 136	25 42 ^e -130 -283	18,513 17,056 16,058 15,296	1,341 ^e 1,392 1,484 ^e 1,430
1983 Average 1984 Average 1985 Average	10,299 10,554 10,636	8,688 8,879 8,971	1,559 1,630 1,609	^e 214 199 50	^e -234 81 -153	15,231 15,726 15,726	1,454 1,556 1,519
1986 Average 1987 Average 1988 Average 1989 Average	10,008 9,818	8,680 8,349 8,140 7,613	1,551 1,595 1,625 1,546	78 128 1 86	124 -87 -29 -129	16,281 16,665 17,283 17,325	1,593 1,607 1,597 1,581
1990 Average 1991 Average 1992 Average	8,994 9,168 8,996	7,355 7,417 7,171	1,559 1,659 1,697	-35 -42 -1	142 32 -68	16,988 16,714 17,033	1,621 1,617 ^e 1,592
1993 Average 1994 Average 1995 Average 1996 Average	8,645 8,626	6,847 6,662 6,560 6.465	1,736 1,727 1,762 1,830	81 18 -93 -124	^e 70 -2 -153 -28	17,237 17,718 17,725 18,309	^e 1,647 1,653 1,563 1,507
1997 Average 1998 Average 1999 Average	8,611 8,392	6,452 6,252 5,881	1,817 1,759 1,850	51 74 -118	93 165 -304	18,620 18,917 19,519	1,560 1,560 1,647 1,493
2000 Average 2001 Average	8,110	5,822 5,801	1,911 1,868	-70 99	(s) 227	19,701 19,649	1,468 1,586
2002 January February March	8,126 8,139	5,848 5,871 5,883	1,827 1,900 1,901	409 443 248	-270 -951 -364	19,454 19,444 19,676	1,591 1,576 1,573
April May June July	8,317 8,206	5,859 5,924 5,915 5,770	1,925 1,936 1,870 1,846	-120 222 -143 -362	641 504 316 190	19,552 19,728 19,875 20,076	1,588 1,611 1,616 1,611
August September October	7,748 7,645	5,811 5,411 5,363	1,937 1,898 1,875	-139 -687 749	-328 -56 -782	20,221 19,461 19,678	1,596 1,574 1,573
November December Average	7,887	5,597 5,699 5,746	1,891 1,760 1,880	96 -234 40	85 -751 -145	19,991 19,943 19,761	1,578 1,548 1,548
2003 January February March	8,014 7,963	5,785 5,791 5,817	1,758 1,812 1,729	-110 -106 339	-1,293 -1,464 114	20,017 20,375 19,708	1,504 1,460 1,474
April May June July	7,791 7,692 7,615	5,774 5,733 5,701 5,526	1,701 1,564 1,582 1,649	338 -75 150 135	383 1,263 745 209	19,830 19,344 19,793 20,094	1,496 1,533 1,560 1,570
August September October November	7,956 7,853	5,595 5,683 5,635 5,560	1,703 1,761 1,818 1,839	15 441 468 -356	35 426 -348 241	20,586 19,933 20,182 19,873	1,572 1,598 1,602 1,598
December	7,717 7,823	5,579 5,681	1,723 1,719	-244 84	-721 -28	20,679 20,034	1,568 1,568
004 January February March April	E 7,798 E 7,892 E 7,766	E 5,644 E 5,584 E 5,622 E 5,568	1,803 1,798 1,829 1,784	199 380 720 379	-692 -549 -91 -111	20,393 20,549 20,161 20,207	1,552 1,547 1,566 1,574
May June July August	E 7,577 E 7,630	E 5,612 E 5,403 E 5,404 RE 5,280	1,795 1,737 1,810 ^R 1,859	186 130 -186 ^R -381	646 831 782 ^R 695	20,209 20,333 20,601 R 20,732	1,600 1,629 1,647 ^R 1,657
September October 10-Month Average	^E 7,324 ^E 7,357	E 5,091 PE 5,123 PE 5,433	1,797 E 1,812 E 1,803	-151 E 524 E 179	-307 E -446 E 79	20,411 E 20,399 E 20,399	1,643 E 1,635 E 1,635
2003 10-Month Average 2002 10-Month Average		5,703 5,765	1,707 1,891	161 62	16 -106	19,984 19,720	1,602 1,573

a A negative number indicates a decrease in stocks and a positive number indicates an increase. Distillate stocks in the "Northeast Heating Oil Reserve" are not included.
 b Stocks are at end of period. Distillate stocks in the "Northeast Heating Oil Reserve" are not included.
 c Includes crude oil, natural gas plant liquids, and other liquids.
 d Includes stocks located in the Strategic Petroleum Reserve.
 e See Note 4 at end of section.

gasoline and oxygenate production from merchant MTBE (methyl tertiary

See Note 4 at end of section. See Note 6 at end of section.

⁹ Beginning in 1993, includes fuel ethanol blended into finished motor

butyl ether) plants.
PE=Preliminary estimate. R=Revised. E=Estimate. (s)=Less than

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

Notes:

Crude oil includes lease condensate.

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

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S1. • 1992
forward: EIA, Petroleum Supply Monthly, November 2004, Table S1.

Table 3.1b Petroleum Overview: Imports, Exports, and Net Imports

		Imports			Exports		
	Total	Crude Oila	Petroleum Products	Total	Crude Oil	Petroleum Products	Net Imports ^b
			Tho	ousand Barrels p	er Day	•	1
973 Average	6,256	3,244	3,012	231	2	229	6,025
974 Average	6,112	3,477	2,635	221	3	218	5,892
975 Average	6,056	4,105	1,951	209	6	204	5,846
976 Average	7,313	5,287	2,026	223	8	215	7,090
977 Average	8,807	6,615	2,193	243	50	193	8,565
978 Average	8,363	6,356	2,008	362	158	204	8,002
979 Average	8,456	6,519	1,937	^c 471	235	c 236	^c 7,985
980 Average	6,909	5,263	1,646	544	287	258	6,365
981 Average	5,996	4,396	1,599	595	228	367	5,401
982 Average	5,113	3,488	1,625	815	236	579	4,298
983 Average	5,051	3,329	1,722	739	164	575	4,312
984 Average	5,437	3,426	2,011	722	181	541 577	4,715
985 Average	5,067	3,201	1,866	781	204	577	4,286
986 Average	6,224	4,178	2,045 2,004	785 764	154 151	631 613	5,439
987 Average	6,678 7,402	4,674 5,107	2,004	815	155	661	5,914 6 587
988 Average	7,402 8.061	5,107 5.843	2,295 2,217	859	142	717	6,587 7,202
989 Average990 Average	8,018	5,894	2,123	857	109	717 748	7,202 7,161
991 Average	7,627	5,782	1,844	1.001	116	885	6,626
992 Average	7,888	6,083	1,805	950	89	861	6,938
993 Average	8,620	6,787	1,833	1,003	98	904	7,618
994 Average	8,996	7.063	1,933	942	99	843	8,054
995 Average	8,835	7,230	1,605	949	95	855	7,886
996 Average	9,478	7,508	1,971	981	110	871	8,498
997 Average	10,162	8,225	1,936	1,003	108	896	9,158
998 Average	10,708	8,706	2,002	945	110	835	9,764
999 Average	10,852	8,731	2,122	940	118	822	9,912
000 Average	11,459	9,071	2,389	1,040	50	990	10,419
001 Average	11,871	9,328	2,543	971	20	951	10,900
002 January	11,088	8,709	2,380	861	11	850	10,228
February	10,904	8,753	2,151	1,175	4	1,170	9,729
March	11,198	8,799	2,399	853	8	845	10,345
April	11,765	9,301	2,464	890	8	882	10,876
May	11,769	9,323	2,446	910	7 5	903 874	10,859
June	11,753	9,324 9.184	2,429 2.440	880 839	33	806	10,873
July August	11,624 11,890	9,164	2,346	1,138	33 9	1,129	10,785 10,752
September	11,075	8,797	2,278	1,015	7	1,008	10,752
October	11,893	9,532	2,361	962	4	958	10,931
November	12,268	9,654	2,613	1,026	10	1,016	11,242
December	11,100	8.741	2,359	1,272	2	1,270	9,828
Average	11,530	9,140	2,390	984	9	975	10,546
003 January	11,104	8,633	2,471	1,212	10	1,202	9,892
February	10,921	8,474	2,447	1,067	5	1,062	9,854
March	12,044	9,226	2,819	1,051	10	1,042	10,993
April	12,599	9,928	2,671	1,053	12	1,041	11,546
May	12,918	10,153	2,765	1,097	15	1,082	11,822
June	13,001	10,038	2,962	1,065	45	1,020	11,936
July	12,736	10,034	2,702	976	7 4	969	11,760 11.822
August	12,769 12,868	10,023 10,287	2,746 2,581	947 960	3	943 956	11,822 11,908
September October	12,373	10,267	2,310	970	3 14	956 956	11,402
November	12,373	9,351	2,361	933	21	911	10,780
December	12,033	9,684	2,349	990	4	986	11,043
Average	12,264	9,665	2,599	1,027	12	1,014	11,238
004 January	11,727	9,322	2,405	748	6	742	10,979
February	12,329	9,258	3,071	1,046	8	1,038	11,283
March	13,073	10,073	3,000	1,024	19	1,005	12,048
April	12,450	10,062	2,389	1,153	55	1,099	11,297
May	12,989	10,324	2,665	1,052	26	1,026	11,937
June	13,301	10,505	2,796	1,070	45	1,025	12,231
July	13,389	10,302	3,087	1,080	18	1,062	12,310
August	R 13,489	R 10,447	R 3,042	R 1,091	R 13	R 1,078	R 12,399
September	12,532 F 12,231	9,669 F 10,306	2,863 F 2,025	961 F 1 029	35 ^E 17	926 F 1 021	11,571 F 12 102
October 10-Month Average	E 13,231 E 12.855	E 10,306 E 10,031	E 2,925 E 2,824	E 1,038 E 1,026	□ 17 □ 24	E 1,021 E 1,002	E 12,193 E 11.830
J	,	•		•			,
003 10-Month Average	12,342	9,694	2,648	1,040	12	1,027	11,303

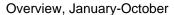
a Includes crude oil for storage in the Strategic Petroleum Reserve.
 b Net imports equals imports minus exports.
 c See Note 6 at end of section.
 R=Revised. E=Estimate.

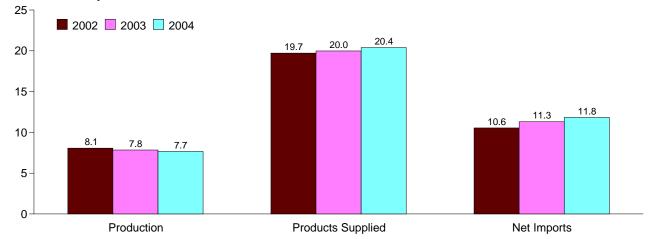
Notes: • Crude oil includes lease condensate. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the

⁵⁰ States and the District of Columbia.

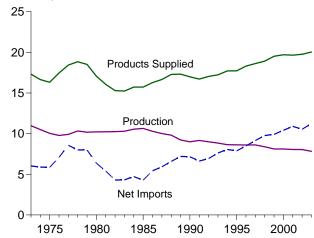
Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S1. • 1992
forward: EIA, Petroleum Supply Monthly, November 2004, Table S1.

Figure 3.1a Petroleum Overview and Production (Million Barrels per Day)

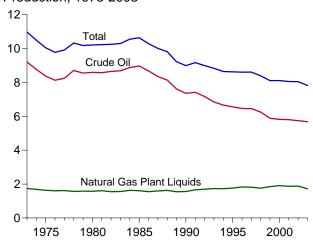




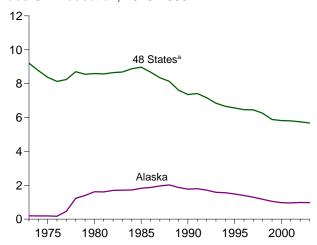
Overview, 1973-2003



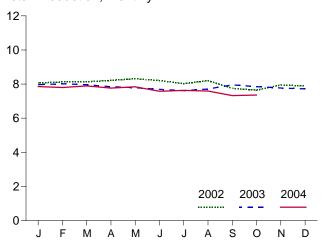
Production, 1973-2003



Crude Oil Production, 1973-2003



Total Production, Monthly

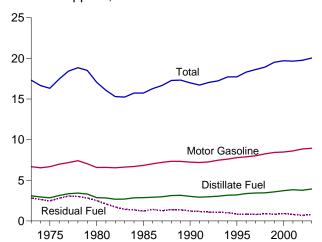


^aUnited States excluding Alaska and Hawaii. Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html. Sources: Tables 3.1a, 3.1b, and 3.2a.

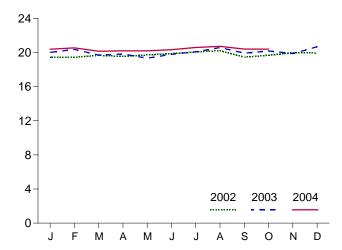
Figure 3.1b Petroleum Products Supplied, Imports, and Stocks

(Million Barrels per Day, Except as Noted)

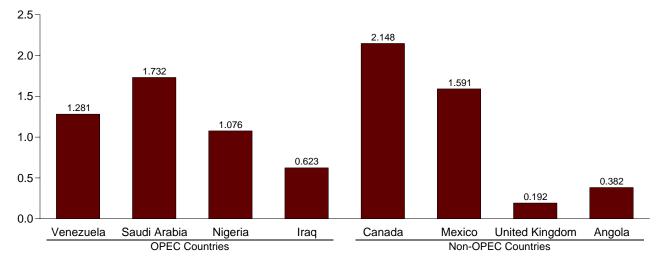
Products Supplied, 1973-2003



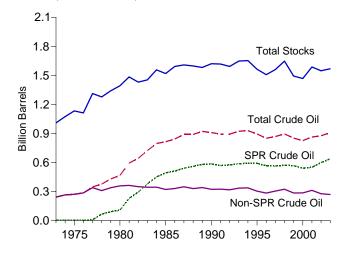
Products Supplied, Monthly



Imports from Selected Countries, September 2004

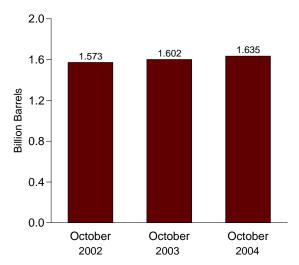


Stocks, End of Year, 1973-2003



Notes: • OPEC=Organization of Petroleum Exporting Countries. • SPR= Strategic Petroleum Reserves. • Because vertical scales differ, graphs should not be compared.

Total Stocks, End of Month



Web Page: http://www.eia.doe.gov/emeu/mer/petro.html. Sources: Tables 3.1a, 3.2b, 3.3a, 3.3b, 3.3d, 3.3e, 3.3f, 3.3h, 3.4, 3.5, and 3.6.

Table 3.2a Crude Oil Supply and Disposition: Supply

				Supply			
	Field Pro	duction		Imports		Unaccounted-	Crude Oil
	Total Domestic	Alaskan	Total	SPR ^a	Other	for Crude Oil ^b	Used Directly ^c
			The	ousand Barrels per	Day		
1973 Average	9,208	198	3,244	_	3,244	3	-19
1974 Average	8,774 8,375	193 191	3,477 4,105	_	3,477 4,105	-25 17	-15 -17
1975 Average1976 Average	8,132	173	5,287	_	5,287	77	d -17
1977 Average	8,245	464	6,615	21	6,594	-6	-14
1978 Average	8,707	1,229	6,356	d 161	6,195	-57	d -15
1979 Average	8,552	1,401	6,519	67	6,452	-11	d -14
1980 Average	8,597 8,572	1,617 1,609	5,263 4,396	44 256	5,219 4,141	34 83	^d -14 -58
1981 Average1982 Average	8,649	1,696	4,396 3,488	165	3,323	71	-56 -59
1983 Average	8,688	1,714	3,329	234	3,096	114	-59
1984 Average	8,879	1,722	3,426	197	3,229	185	_
1985 Average	8,971	1,825	3,201	118	3,083	145	_
1986 Average	8,680	1,867	4,178	48	4,130	139	-
1987 Average	8,349	1,962	4,674	73	4,601	145	-
1988 Average1989 Average	8,140 7,613	2,017 1,874	5,107 5,843	51 56	5,055 5,787	196 200	<u>-</u>
1990 Average	7,813	1,773	5,894	27	5,867	258	_
1991 Average	7,417	1,798	5,782	0	5,782	195	_
1992 Average	7,171	1,714	6,083	10	6,073	258	_
1993 Average	6,847	1,582	6,787	15	6,772	168	-
1994 Average	6,662	1,559	7,063	12	7,051	266	_
1995 Average	6,560 6.465	1,484	7,230	0 0	7,230 7,508	193 215	_
1996 Average1997 Average	6,452	1,393 1,296	7,508 8,225	0	8,225	145	=
1998 Average	6,252	1,175	8,706	ŏ	8,706	115	_
1999 Average	5,881	1,050	8,731	8	8,722	191	_
2000 Average	5,822	970	9,071	8	9,062	155	_
2001 Average	5,801	963	9,328	11	9,318	117	_
2002 January	5,848	1,036	8,709	33	8,675	351	-
February	5,871	1,031	8,753	59	8,694	129	-
March	5,883	1,036	8,799 9.301	0	8,799	99 53	_
April May	5,859 5,924	1,009 1,002	9,323	16	9,301 9,307	53 283	_
June	5,915	1,019	9,324	17	9,307	21	_
July	5,770	931	9,184	0	9,184	146	_
August	5,811	965	9,544	0	9,544	-148	_
September	5,411	886	8,797	0	8,797	-27	_
October	5,363	983	9,532	0	9,532	161	-
November	5,597 5,699	908 1.010	9,654 8,741	34 34	9,620 8,707	10 228	_
December Average	5,746	984	9,140	16	9,124	110	_
_	•		,		•		
2003 January February	5,785 5,791	984 1,015	8,633 8,474	0	8,633 8,474	-180 15	_
March	5,817	1,022	9,226	Ŏ	9,226	239	_
April	5,774	971	9,928	0	9,928	223	_
May	5,733	990	10,153	0	10,153	-36	-
June	5,701	991	10,038	0	10,038	76	_
July August	5,526 5,595	927 945	10,034 10,023	0	10,034 10,023	128 94	_
September	5,683	945 964	10,023	0	10,023	-80	_
October	5,635	967	10,063	0	10,063	126	_
November	5,560	963	9,351	0	9,351	209	_
December	5,579	956	9,684	0	9,684	-159	-
Average	5,681	974	9,665	0	9,665	54	_
2004 January	E 5,644	E 976	9,322	0	9,322	55	_
February	E 5,584	E 933	9,258	0	9,258	256	_
March	E 5,622	E 979 E 950	10,073	0	10,073	-154 250	_
April	E 5,568 E 5,612	E 950	10,062 10,324	0	10,062 10,324	350 237	_
May June	E 5,403	E 919	10,524	0	10,505	510	_
July	E 5,404	E 811	10,302	0	10,302	266	_
August	RE 5,280	^{RE} 701	R 10,447	0	R 10,447	R 47	_
September	E 5,091	E 869	9,669	_0	9,669	103	_
October	E 5,123	E 936	E 10,306	E 0	E 10,306	E-47	_
10-Month Average	PE 5,433	PE 901	E 10,031	E 0	E 10,031	E 160	_
2003 10-Month Average	5,703	977	9,694	0	9,694	61	_
2002 10-Month Average	5,765	989	9,130	12	9,118	107	_

a Strategic Petroleum Reserve.
 b A balancing item.
 c Beginning in January 1983, crude oil used directly as fuel is shown as product supplied.
 d See Note 6 at end of section.
 PE=Preliminary estimate. R=Revised. – =Not applicable. E=Estimate.
 Notes: • Crude oil includes lease condensate. • Totals may not equal

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

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA), Petroleum Supply Annual 1992, Volume 1, May 1993, Table S2. • 1992 forward: EIA, Petroleum Supply Monthly, November 2004, Table S2.

Table 3.2b Crude Oil Supply and Disposition: Disposition and Stocks

			Disp	osition				Stocksa	
	Crude Losses	Stock C	hange ^b Other	Refinery Inputs	Exports	Product Supplied ^d	Total	SPR ^c	Other Primary
		OI II		Barrels per Day	Exporto	Сарриса		Million Barrels	
072 Average	13		-11	12,431	2		242		242
973 Average974 Average	13	_	62	12,133	3	_	265	_	265
975 Average	13	_	17	12,442	6	_	271	_	271
976 Average	e 14	_	39	13,416	8	_	285	_	285
977 Average	16	20	150	14,602	50	_	348	7	340
978 Average	16	163	-84	14,739	158	_	376	67	309
979 Average	16	67	81	14,648	235	_	430	91	339
980 Average	e 14	45	52	13,481	287	_	f 466	108	f 358
981 Average	5	336	f -46	12,470	228	_	594	230	363
982 Average	3	174	-38	11,774	236	_	g 644	294	g 350
983 Average	2	234	g -20	11,685	164	66	723	379	344
984 Average	2	195	4	12,044	181	64	725 796	451	345
985 Average	1	117	-67	12,002	204	60	814	493	321
	(s)	50	28	12,716	154	49	843	512	331
986 Average		80	49	12,710	151	34	890	541	349
987 Average	(s) (s)	52	-51	12,654	155	34 40	890	560	330
988 Average		5∠ 56					890 921		330 341
989 Average	(s)		30	13,401	142	28		580 586	
990 Average	(s)	16	-51	13,409	109	24	908	586 560	323
991 Average	(s)	-47	5	13,301	116	18	893	569	325
992 Average	(s)	17	-18	13,411	89	13	893	575	318
993 Average	(s)	34	47	13,613	98	10	922	587	335
994 Average	(s)	13	5	13,866	99	9	929	592	337
995 Average	(s)	<u>(</u> s)	-93	13,973	95	7	895	592	303
996 Average	(s)	-7 <u>1</u>	- <u>53</u>	14,195	110	6	850	566	284
997 Average	,0	-7	57	14,662	108	2	868	563	305
998 Average	(s)	22	52	14,889	110	Q	895	571	324
999 Average	(s)	-11	-107	14,804	118	0	852	567	284
2000 Average	0	-73	3	15,067	50	0	826	541	286
2001 Average	0	26	73	15,128	20	0	862	550	312
2002 January	0	141	268	14,487	11	0	875	555	320
February	ŏ	191	252	14,306	4	Ŏ	887	560	327
March	ő	50	198	14,526	8	ő	895	561	334
April	Ö	175	-295	15,325	8	0	891	567	325
May	Ö	146	77	15,301	7	0	898	571	327
	Ö	173	-316	15,397	5	0	894	576	318
June	0		-428			0	883		304
July		67		15,430	33			579 582	
August	0	121	-260	15,338	9 7	0	878	582	296
September	0	166	-852	14,861			858	587	271
October	0	77	672	14,303	4	0	881	590	291
November	0	209	-113	15,155	10	0	884	596	288
December	0	103	-337	14,900	2	0	877	599	278
Average	0	134	-94	14,947	9	0	877	599	278
2003 January	0	5	-115	14,338	10	0	873	599	274
February	0	0	-106	14,381	5	0	870	599	271
March	ŏ	Ŏ	339	14,933	10	Ŏ	881	599	282
April	ŏ	11	326	15,575	12	ŏ	891	600	291
May	ő	114	-189	15,910	15	ő	889	603	286
June	ő	181	-31	15,620	45	ŏ	893	609	285
July	ő	125	11	15,546	7	ŏ	897	612	285
August	0	190	-175	15,693	4	0	898	618	279
September	0	202	239	15,446	3	0	911	624	279
	0	202			3 14	0			
October	0		258	15,342		0	926	631	295
November	0	91 154	-447 209	15,455	21	0	915	634	281
December		154	-398	15,345	4		907	638	269
Average	0	108	-24	15,304	12	0	907	638	269
2004 January	0	89	110	14,816	6	0	913	641	271
February	Ö	197	183	14,711	8	Ö	924	647	277
March	Ö	170	550	14,802	19	Ö	946	652	294
April	ŏ	202	177	15,546	55	ŏ	957	658	299
May	ŏ	101	85	15,962	26	ŏ	963	661	302
June	ő	35	95	16,244	45	ŏ	967	662	304
July	Ö	106	-292	16,140	18	0	961	666	295
	0	R 108	R -488	R 16,142	R 13	0	R 949	669	R 280
August	0		-194		35	0	945		274
September	E 0	42 E-6	E 530	14,980 E 14,842	55 E 17	ΕÛ	E 960	670 E 670	E 290
October	E 0				E 24	E 0			
10-Month Average	- U	^E 104	^E 75	^E 15,421	- 24	- 0	^E 960	^E 670	^E 290
2003 10-Month Average 2002 10-Month Average	0 0	105 130	56 -67	15,285 14,931	12 10	0	926 881	631 590	295 291

a Stocks are at end of period.
 b A negative number indicates a decrease in stocks and a positive number

A riegative fulfiber indicates a decrease in stocks and a positive fulfiber indicates an increase.

^c Strategic Petroleum Reserve. Crude oil stocks in the SPR include non-U.S. stocks held under foreign or commercial storage agreements.

^d Beginning in January 1983, crude oil used directly as fuel is shown as

product supplied.

See Note 6 at end of section.

Stocks of Alaskan crude oil in transit are included from January 1981 forward. See Note 5 at end of section.

⁹ See Note 4 at end of section.
R=Revised. — =Not applicable. E=Estimate. (s)=Less than +500 barrels per day and greater than -500 barrels per day.
Notes: • Crude oil includes lease condensate. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.
Web Page: http://www.eia.doc.gov/emen/mer/petro.html

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S2. • 1992
forward: EIA, Petroleum Supply Monthly, November 2004, Table S2.

Table 3.3a Petroleum Imports From Bahrain, Iran, Iraq, and Kuwait

				Persiar	i Gulf ^a			
	Ва	hrain	ı	ran	li	raq	Ku	wait ^b
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
973 Average	11	0	223	216	4	4	47	42
974 Average	12	0	469	463	0	0	5	5
975 Average	16	0	280	278	2	2	16	4
976 Average	.3	0	298	298	26	<u>26</u>	.5	.1
977 Average	10	0	535	530	74	74	48	42
978 Average	3	0	555	554	62	62	6	5
979 Average	, 1	0	304	297	88	88	8	5
980 Average	(s)	0	9	8	28	28	27	27
981 Average	1	0	0	0	(s)	0	õ	0
982 Average	1	0	35	35	3	3	5	2
983 Average	2	0	48	48	10	10	14	7
984 Average	1 4	0 0	10 27	10 27	12 46	12 46	36 21	24 4
985 Average	2	Ö	19	19	81	81	68	28
986 Average	0	0	98	98	83	82	84	70
987 Average	2	Ö			345	343	92	80
988 Average	0	Ö	(3)	° (s) 0	345 449	343 441	92 157	155
989 Average 990 Average	1	ŏ	0 0	Ö	518	514	86	79
	2	ŏ	32	32	0	0	6	6
991 Average 992 Average	0	ŏ	0	0	ŏ	Ö	51	39
993 Average	1	Ö	0	0	Ö	0	353	344
994 Average	i	ŏ	ŏ	Ŏ	ŏ	Ö	312	344 307
995 Average	i	ŏ	ŏ	Ŏ	ŏ	ŏ	218	213
996 Average	i	ŏ	ŏ	ŏ	ĭ	1	236	235
997 Average	Ó	ŏ	ŏ	ŏ	89	89	253	253
998 Average	ĭ	ŏ	ŏ	ŏ	336	336	301	300
999 Average	Ó	ŏ	ŏ	ŏ	725	725	248	246
000 Average	ĭ	ŏ	ŏ	ŏ	620	620	272	263
001 Average	(s)	ŏ	Ŏ	ŏ	795	795	250	237
	ν-,							
002 January	0	0	0	0	988	988	213	207
February	0	0	0	0	709	709	290	279
March	0	0	0	0	813	813	184	179
April	0	0	0	0	619	619	208	201
May	0	0	0	0	482	482	182	163
June	0	0	0	0	167	167	265	244
July	0	0	0	0	301	301	244	238
August	0	0	0	0	246	246	178	169
September	0	0	0	0	148	148	297	286
October	0	0	0	0	248	248	199	182
November	0	0	0	0	403	403	291	264
December	0	0	0	0	394	394	193	190
Average	0	0	0	0	459	459	228	216
003 January	4	0	0	0	634	634	166	134
February	11	0	0	0	963	963	241	223
March	0	0	0	0	681	681	251	220
April	0	0	0	0	739	739	301	294
May	0	0	0	0	128	128	217	200
June	0	0	0	0	0	0	292	274
July	0	0	0	0	.67	67	169	169
August	0	0	0	0	125	125	189	183
September	0	0	0	0	362	362	250	248
October	0	0	0	0	735	735	168	168
November	0	0	0	0	706	706	182	176
December	0	0	0	0	678	678	217	211
Average	1	0	0	0	481	481	220	208
04	•	•	•	^	F70	F70	044	222
04 January	0	0	0	0	578	578	244	238
February	0	0	0	0	646	646	92	80
March	0	0	0	0	621	621	220	214
April	0	0	0	0	769	755 674	328	322
May	7	0	0	0	674	674	278	273
June	0	0	0	0	636	636	224	224
July	0	0	0	0	593	593	277	268
August	13	0	0	0	816	816	197	191
September	0	0	0	0	623	623	365	327
9-Month Average	2	0	0	0	662	660	248	238
03 9-Month Average	2	0	0	0	405	405	230	216

^a 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.

^b Imports from the Neutral Zone are reported as originating in either Saudi

(s)=Less than 500 barrels per day.

Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included. • U.S. geographic coverage is the 50 States and the District of

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • Bahrain: Energy Information Administration (EIA), Form
EIA-814, "Monthly Imports Report." • All Other Data: 1973-1991—EIA,
Petroleum Supply Annual 1992, Volume 1, May, 1993, Table S3. 1992
forward—EIA, Petroleum Supply Monthly, November 2004, Table S3.

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

c A small amount of Iranian crude oil entered the United States in January 1988 from the Virgin Islands. The oil originated in Iran and was exported to the Virgin Islands prior to the signing of Executive Order 12613 on November 29, 1987.

Table 3.3b Petroleum Imports From Qatar, Saudi Arabia, U.A.E., and Total Persian Gulf (Thousand Barrels per Day)

				Persian	i Gulf ^a			
	Q	atar	Saudi	Arabia ^b	United Ara	ab Emirates	To	otala
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
973 Average	7	7	486	462	71	71	848	802
974 Average	17	17	461	438	74	69	1,039	992
975 Average	18	18	715	701	117	117	1,165	1,121
976 Average	24	24	1,230	1,222	254	254	1,840	1,825
977 Average	67	67	1,380	1,373	335	333	2,448	2,418
978 Average	64	64	1,144	1,142	385	385	2,219	2,212
979 Average	31	31	1,356	1,347	281	281	2,069	2,049
980 Average	22	22	1,261	1,250	172	172	1,519	1,508
981 Average	7 7	7 7	1,129	1,112	81 92	77 81	1,219	1,196
982 Average983 Average		ó	552 337	530 321	30	18	696 442	659 405
984 Average	(s) 5	4	325	309	117	90	506	450
985 Average	(s)	Õ	168	132	45	35	311	244
986 Average	13	12	685	618	44	38	912	796
987 Average	0	0	751	642	61	56	1,077	949
988 Average	ŏ	ŏ	1.073	911	29	23	1,541	1,357
989 Average	ž	ž	1,224	1.116	28	21	1,861	1,734
990 Average	4	4	1,339	1,195	17	- <u>;</u>	1,966	1,801
991 Average	Ö	Ö	1,802	1.703	3	ž	1,845	1,743
992 Average	ĭ	ŏ	1,720	1,597	6	ō	1,778	1,636
993 Average	1	Ŏ	1,414	1,282	14	12	1,782	1,637
994 Average	0	Ó	1,402	1,297	13	11	1,728	1,615
995 Average	0	0	1,344	1,260	10	5	1,573	1,479
996 Average	0	0	1,363	1,248	3	3	1,604	1,488
997 Average	4	0	1,407	1,293	2	0	1,755	1,635
998 Average	4	1	1,491	1,404	3	3	2,136	2,044
999 Average	10	1	1,478	1,387	2	0	2,464	2,360
2000 Average	9	0	1,572	1,523	15	3	2,488	2,409
2001 Average	13	(s)	1,662	1,611	40	21	2,761	2,664
2002 January	9	0	1,456	1,430	5	0	2,670	2,625
February	11	0	1,474	1,445	0	0	2,484	2,434
March	0	0	1,558	1,526	0	0	2,556	2,517
April	.0	0	1,556	1,538	16	16	2,400	2,375
May	10	0	1,564	1,520	0	0	2,238	2,165
June	10	0	1,598	1,565	51	51	2,090	2,026
July	44	35	1,392	1,354	18	0	1,999	1,928
August	9	0	1,444	1,411	25	0	1,903	1,826
September	44	37	1,531	1,512	31	17	2,052	2,000
October	40	32	1,690	1,633	0	0	2,177	2,096
November	0	0	1,511	1,474	17	17	2,222	2,158
December	0	0	1,843	1,815	18	16	2,449	2,415
Average	15	9	1,552	1,519	15	10	2,269	2,213
2003 January	0	0 0	1,841	1,803	90	34 0	2,735	2,605
February	0		1,447	1,407	13		2,676	2,593
March	0	0	1,886 2,070	1,838 2,024	0 39	0 19	2,818 3,148	2,739 3,075
April May	9	0	2,305	2,024	9	0	2,669	2,572
June	0	0	2,002	1,921	33	17	2,327	2,372
July	14	0	1,900	1,835	19	0	2,327	2,212
August	0	0	1,535	1,635	0	0	1.849	1,783
September	3	0	1,749	1,692	33	33	2,397	2,335
October	0	0	1,749	1,388	0	0	2,353	2,333
November	0	0	1,681	1,664	17	17	2,586	2,564
December	8	0	1,410	1.399	0	0	2,312	2,304
Average	3	ŏ	1,774	1,726	21	1 ŏ	2,501	2,42 5
_			•	•			•	
004 January	0	0	1,477	1,432	0	0	2,300	2,248
February	0	0	1,360	1,295	0	0	2,098	2,021
March	ō	0	1,531	1,478	1	0	2,373	2,312
April	5	5	1,175	1,161	45	29	2,322	2,271
May	0	0	1,519	1,493	0	0	2,478	2,439
June	0	0	1,493	1,450	18	0	2,370	2,310
July	0	0	1,655	1,622	13	0	2,538	2,483
August	0	0	1,865	1,755	53	33	2,943	2,793
September	17	0	1,732	1,567	27 49	0	2,764	2,517
9-Month Average	2	1	1,536	1,475	18	7	2,468	2,380
	3	0	1,863	1,808	26	11	2,529	2,440

a 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.
b Imports from the Neutral Zone are reported as originating in either Saudi Arabia or Kuwait depending on the country reported to U.S. Customs.
(s)=Less than 500 barrels per day.
Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports

are included. • 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: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S3. • 1992
forward: EIA, Petroleum Supply Monthly, November 2004, Table S3.

Table 3.3c Petroleum Imports From Algeria, Ecuador, Gabon, Indonesia, and Libya (Thousand Barrels per Day)

					Other	OPECa				
	Al	geria	Ecu	ıador ^b	Ga	ıbon ^c	Indo	onesia	Li	bya
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average 1974 Average 1975 Average 1976 Average 1976 Average 1977 Average 1979 Average 1980 Average 1981 Average 1982 Average 1983 Average 1984 Average 1985 Average 1986 Average 1987 Average 1987 Average 1988 Average 1988 Average 1998 Average 1999 Average 1991 Average 1991 Average 1991 Average 1992 Average 1993 Average 1994 Average 1995 Average 1995 Average 1997 Average 1997 Average 1997 Average 1998 Average 1999 Average 1997 Average 1998 Average 1999 Average	136 190 282 432 559 649 636 488 311 170 240 323 187 271 295 300 269 280 253 196 220 243 234 256 285 290 259 225 278	120 180 264 408 544 634 608 456 261 90 176 194 84 78 115 58 60 63 44 24 22 27 8 6 10 25 11	48 42 57 51 57 54 42 27 48 42 61 55 67 77 29 49 49 63 65 65 65 65 65 65 65 65 65 65 65 65 65	47 42 57 51 55 38 30 17 38 32 56 47 56 64 23 33 80 38 62 (b) (b) (b) (b)	0 23 27 28 42 41 42 26 35 59 58 52 26 35 16 64 124 152 (°) (°) (°) (°)	0 23 27 26 35 35 38 42 25 35 40 59 57 51 25 35 49 64 84 123 151 194 (°) (°) (°)	213 300 390 539 541 573 420 348 366 248 338 343 314 318 285 205 183 114 111 78 81 111 88 59 58 66 81 48	200 284 379 537 507 533 380 314 318 226 315 304 292 297 262 186 158 98 102 70 65 92 64 44 51 50 70	164 4 232 453 723 654 658 554 319 26 0 0 0 0 0 0 0 0	133 4 223 444 704 638 642 548 317 23 0 0 0 0 0 0 0 0 0 0 0 0 0
2002 January February March April May June July August September October November December Average	265 248 347 366 343 293 160 183 249 239 226 245 264	0 0 75 77 53 19 0 32 40 21 40 30					80 104 63 60 76 57 15 34 49 68 13 21 53	67 84 63 58 76 57 14 34 49 66 13 21	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0
2003 January February March April May June July August September October November December Average	291 213 304 395 377 700 444 459 479 244 371 301 382	39 0 40 77 81 282 86 192 243 86 151 69	(b) (b) (b) (b) (b) (b) (b) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d			(c) (c) (c) (c) (c) (c) (c) (c) (c) (c)	25 15 10 46 10 11 0 66 35 133 71 23	25 15 10 43 10 11 0 39 8 92 44 15 26	0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0
2004 January February March April May June July August September 9-Month Average	345 378 496 380 477 464 576 536 385 449	123 92 253 261 234 216 297 352 187 225	(b) (b) (b) (b) (b) (b)	(b) (b) (b) (b) (b) (b) (b)	(c) (c) (c) (c) (c) (c) (c) (c)	(c) (c) (c) (c) (c) (c) (c) (c)	17 47 36 74 39 72 104 45 41 53	14 44 32 74 39 51 72 9 41	0 0 0 0 0 34 32 34 33 15	0 0 0 0 34 32 34 33 15
2003 9-Month Average 2002 9-Month Average	408 273	116 29	(b)	(b)	(c)	(c)	24 59	18 55	0	0 0

^a 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.

^b Ecuador withdrew from OPEC on December 31, 1992. As of January 1993, imports from Ecuador appear on Table 3.3f under "Non-OPEC."

^c Gabon withdrew from OPEC on December 31, 1994. As of January 1995, imports from Gabon appear on Table 3.3f under "Non-OPEC."

Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included. • U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S3. • 1992
forward: EIA, Petroleum Supply Monthly, November 2004, Table S3.

Table 3.3d Petroleum Imports From Nigeria, Venezuela, Total Other OPEC, and Total OPEC

			Other	OPEC ^a			Total	OPEC ^b
	Ni	geria	Ven	ezuela	Т	otal		
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	459	448	1,135	344	2,156	1,293	2,993	2,095
1974 Average	713	697	979	319	2,253	1,549	3,280	2,540
1975 Average	762	746	702	395	2,452	2,091	3,601	3,211
1976 Average	1,025	1,014	700	241	3,229	2,721	5,066	4,545
1977 Average	1,143	1,130	690	250	3,754	3,225	6,193	5,643
1978 Average	919	910	646	181	3,536	2,972	5,751	5,184
1979 Average	1,080	1,069	690	293	3,569	3,063	5,637	5,112
1980 Average	857 620	841	481	156	2,781	2,356	4,300	3,864
981 Average 982 Average	620 514	611 510	406 412	147 155	2,106 1.451	1,726 1,075	3,323 2,146	2,922 1,734
983 Average	302	301	422	164	1,422	1,073	1,862	1,477
984 Average	216	207	548	253	1,544	1,062	2,049	1,512
985 Average	293	280	605	306	1,522	1,069	1,830	1,312
986 Average	440	437	793	416	1,926	1,317	2,837	2,113
987 Average	535	529	804	488	1,983	1,451	3,060	2,400
988 Average	618	607	794	439	1,981	1,339	3,520	2,696
989 Average	815	800	873	495	2,279	1,642	4,140	3,376
990 Average	800	784	1,025	666	2,332	1,713	4,296	3,514
991 Average	703	683	1,035	668	2.249	1,634	4,092	3,377
1992 Average	681	665	1,170	826	2,313	1,770	4,092	3,406
1993 Average	740	722	1,300	1,010	2,493	1,972	4,273	3,609
1994 Average	637	624	1,334	1,034	2,520	1,965	4,247	3,580
1995 Average	627	621	1,480	1,151	2,430	1,862	4,002	3,341
1996 Average	617	595	1,676	1,303	2,609	1,950	4,211	3,438
1997 Average	698	689	1,773	1,394	2,814	2,140	4,569	3,775
1998 Average	696	689	1,719	1,377	2,771	2,125	4,905	4,169
1999 Average	657	623	1,493	1,150	2,489	1,869	4,953	4,228
2000 Average	896	875	1,546	1,223	2,716	2,135	5,203	4,544
2001 Average	885	842	1,553	1,291	2,768	2,184	5,528	4,848
2002 January	565 453	540 426	1,450 1,444	1,233 1,222	2,359 2,249	1,839 1,732	5,029 4,733	4,465 4,165
February March	621	590	1,404	1,148	2,435	1,877	4,991	4,394
April	645	584	1,134	1.014	2,206	1,734	4,606	4,108
May	591	576	1,312	1,117	2,323	1,822	4,561	3,987
June	728	702	1,188	958	2,266	1,737	4,356	3,763
July	607	585	1,585	1,341	2,367	1,940	4,366	3,868
August	820	792	1,699	1,514	2,735	2,341	4,638	4,167
September	547	489	1,556	1,302	2,401	1,871	4,452	3,871
October	597	566	1,605	1,453	2,509	2,125	4,686	4,221
November	596	562	1,625	1,453	2,459	2,048	4,682	4,206
December	670	645	778	652	1,715	1,358	4,164	3,774
Average	621	589	1,398	1,201	2,336	1,870	4,605	4,083
2003 January	831	804	426	399	1,573	1,267	4,303	3,873
February	547	505	613	559	1,388	1,079	4,052	3,672
March	1,002	945	1,297	1,149	2,614	2,144	5,433	4,883
April	733	697	1,626	1,387	2,801	2,204	5,949	5,279
May	958 866	907	1,737	1,491	3,082	2,488	5,751	5,060
June	866	836	1,622	1,381	3,199	2,510	5,526	4,722
July	843	804	1,279	1,150	2,566	2,040	4,736	4,112
August	995 936	988 905	1,564 1.547	1,345 1.307	3,085 2.997	2,564 2.463	4,934 5,304	4,347
September							5,394	4,798 4,754
October	1,049 646	990 622	1,564	1,295 1,352	2,989 2,651	2,463 2,170	5,342	4,754 4,733
November December	959	938	1,562 1.631	1,332	2,031	2,170	5,237 5.225	4,733 4,650
Average	867	832	1,376	1,183	2,662	2,362 2,153	5,225 5,162	4,578
_			•	•	•	•	•	
2004 January	982	923	1,535	1,298	2,879	2,359	5,179	4,607
February	1,163	1,044	1,529	1,294	3,117	2,473	5,215 5,760	4,494 5.177
March	1,300	1,236	1,563 1,539	1,343	3,396	2,864 2,751	5,769 5,388	5,177 5,022
April May	1,073 1,197	1,044 1,127	1,539	1,372 1,371	3,066 3,281	2,751 2,770	5,388 5,753	5,022 5,210
	1,197			1,371			5,753 5,865	
June Julv	1,236	1,191 1,020	1,687 1,435	1,439	3,495 3,249	2,931 2,650	5,865 5,786	5,241 5,132
August	1,102	1,020	1,443	1,226	3,249 3,295	2,650 2,757	6,225	5,132 5,550
September	1,236	1,012	1,281	1,070	2,816	2,737	5,580	4,860
9-Month Average	1,076 1,152	1,012 1,085	1,201 1,509	1,070 1,290	3,178	2,344 2,657	5,643	5,036
2003 9-Month Average	860	825	1,306	1,133	2,598	2,092	5,126	4,532
2002 9-Month Average	621	589	1,420	1,207	2,373	1,880	4,638	4,089

^a 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.

^b OPEC includes the Persian Gulf nations that are displayed on Tables 3.3a and 3.3b except Bahrain, which is not a member of OPEC, and the nations displayed under "Other OPEC" on Tables 3.3c and 3.3d. Ecuador withdrew from OPEC on December 31, 1992; as of January 1993, imports from Ecuador appear on Table 3.3f under "Non-OPEC." Gabon withdrew on December 31, 1994; as of January 1995, imports from Gabon appear on

Table 3.3f under "Non-OPEC." Imports from Bahrain are accounted for under "Other Non-OPEC" on Table 3.3h.

Notes: • Beginning in November 1977, Strategic Petroleum Reserve imports are included. • 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: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S3. • 1992
forward: EIA, Petroleum Supply Monthly, November 2004, Table S3.

Table 3.3e Petroleum Imports From Angola, Australia, Bahamas, Brazil, Canada, and China

	Aı	ngola	Αu	stralia	Ва	hamas	Е	razil	Ca	anada	C	hina
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	49	49	2	o	174	0	9	Q	1,325	1,001	(s)	0
1974 Average	49	48	1	0	164	0	2	0	1,070	791	0	0
1975 Average	75	71	5	0	152	0	5	0	846	600	0	0
1976 Average1977 Average	12 24	7 17	2	0	118 171	0	0	0	599 517	371 279	0	0
1978 Average	20	6	5	ŏ	160	ŏ	ŏ	ŏ	467	248	ŏ	ŏ
1979 Average	43	39	6	ŏ	147	ŏ	1	ŏ	538	271	13	13
1980 Average	42	37	1	Ó	78	Ō	3	1	455	199	(s)	Ó
1981 Average	49	45	5	0	74	0	23	14	447	164	`18	0
1982 Average	44	42	5	(s)	65	0	47	19	482	214	40	8
1983 Average	78	71	4	0	125	0	41	2	547	274	34	.6
1984 Average	90	85 404	38	25	88	0	60	(s)	630	341	46	15
1985 Average	110 112	104 102	37 41	21 30	40 37	0	61 50	0	770 807	468 570	59 90	36 68
1986 Average	192	180	58	49	37	Ö	84	ŏ	848	608	82	63
1988 Average	212	203	64	59	32	ŏ	98	ŏ	999	681	88	82
1989 Average	284	279	36	31	34	ŏ	82	ŏ	931	630	80	76
990 Average	237	236	53	47	37	Ŏ	49	ŏ	934	643	80	77
991 Average	254	254	26	21	35	Ō	22	Ó	1,033	743	91	87
992 Average	336	336	19	17	36	0	20	0	1,069	797	90	84
993 Average	336	336	19	18	28	0	33	Ō	1,181	900	51	50
994 Average	331	322	17	16	29	0	31	1	1,272	983	65	64
995 Average	367	360	16	16	2	0	8	0	1,332	1,040	53	53
996 Average	351 427	344 425	31 48	25 31	1	0 0	9 5	0	1,424 1,563	1,075 1,198	57 49	57 48
997 Average998 Average	427 468	425 465	46 57	31 31	4	0	26	Ö	1,598	1,196	49 42	46 42
999 Average	361	357	42	31	3	ŏ	26	ŏ	1,539	1,178	21	13
000 Average	301	295	56	49	ŏ	ŏ	51	5	1,807	1,348	44	33
001 Average	328	321	43	34	10	Ö	82	13	1,828	1,356	24	13
002 January	310	297	41	41	20	0	48	16	1,901	1,307	2	0
February	304 321	290 300	69 42	69 42	26 46	0 0	84 131	52 65	1,897	1,374 1,339	45 4	42 0
March	321 384	300 371	42 66	42 66	46 7	0	163	84	1,844 2,032	1,339	1	0
April May	336	336	63	63	19	0	144	77	1.969	1.496	16	15
June	475	463	21	21	16	ő	149	69	1,914	1,466	51	34
July	308	298	43	43	35	Ö	114	59	1,901	1,359	43	32
August	233	220	45	23	47	0	191	119	2,020	1,526	45	34
September	342	329	87	65	53	0	90	53	1,883	1,413	16	0
October	258	246	67	67	55	0	132	75	2,110	1,578	49	48
November	402	390	84	64	37	0	73	17	2,083	1,484	22	21
December	317	312	61	51	42	0	66	14	2,090	1,493	15	13
Average	332	321	57	51	34	0	116	58	1,971	1,445	26	20
003 January February	263 265	245 251	20 23	20 23	38 27	0	114 119	48 36	2,272 1,997	1,654 1,447	19 15	16 14
March	396	396	20	20	41	ŏ	76	15	1,895	1,428	45	7
April	494	482	24	24	35	Ö	75	17	1,779	1,287	21	6
May	356	356	20	20	37	Ö	67	33	2,015	1,502	22	7
June	403	390	44	22	67	0	84	60	1,956	1,517	32	6
July	529	517	47	23	18	0	144	63	2,131	1,616	74	25
August	483	471	62	41	37	0	198	82	2,132	1,586	21	13
September	401	401 373	84 45	63 45	6 25	0	132	68 33	2,082	1,538	39	24
October November	385 203	373 191	45 22	45 22	25 4	0	95 93	32 68	2,179 2,186	1,700 1,639	6 30	5 28
December	203 269	269	22	22	22	0	93	68 77	2,186	1,639	30	28 0
Average	371	363	34	27	30	ŏ	108	50	2,072	1,549	27	13
_	277	277	20	20	5	0	136	103	2,185	1,626	12	7
004 January February	273	271 271	23	23	21	0	104	67	2,165	1,490	46	38
March	347	336	22	22	15	ŏ	93	42	2,077	1,583	14	6
April	338	325	0	0	21	ŏ	83	22	2,044	1,596	7	7
May	405	384	39	39	19	0	60	16	2,063	1,630	15	7
June	139	127	21	0	14	0	130	91	2,217	1,708	14	7
July	370	355	38	8	25	0	140	95	2,166	1,664	38	21
August	354	341	21	21	60	0	69	50 103	1,982	1,512	7	7
September 9-Month Average	382 321	361 309	22 23	22 17	43 25	0 0	138 106	102 65	2,148 2,108	1,716 1,614	8 18	6 12
003 9-Month Average	400	391	38	29	34	0	112	47	2,030	1,510	32	13

^a 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.
(s)=Less than 500 barrels per day.
Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports

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

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S3. • 1992
forward: EIA, Petroleum Supply Monthly, November 2004, Table S3.

Table 3.3f Petroleum Imports From Colombia, Ecuador, Gabon, Italy, Malaysia, and Mexico

						Non-	OPEC a					
	Co	lombia	Ecu	uador ^b	G	abon ^c		Italy	Ма	laysia	Me	exico
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	9	2	_	_	_	-	125	0	12	1	16	1
1974 Average	5	0	-	-	-	-	74	0	12	1	8	2
1975 Average	9 21	0 6	_	_	-	_	27	0	8 18	.5 .6	71	70
1976 Average	17	ő	=	_	=	_	39 51	Ö	66	16 55	87 179	87 177
1978 Average	20	ŏ	_	_	_	_	38	ŏ	42	37	318	316
1979 Average	18	Ö	_	_	_	_	30	Ö	66	52	439	437
1980 Average	4	0	-	-	-	_	4	0	70	61	533	507
1981 Average	1	0	-	-	-	-	11	, 0	36	33	522	469
1982 Average	5 10	0 0	_	_	_	_	18 18	(s)	20 4	18 3	685 826	645 766
1983 Average1984 Average	8	Ö	=	_	=	_	45	(s) (s)	1	0	748	659
1985 Average	23	ŏ	_	_	_	_	60	(s)	3	ĭ	816	715
1986 Average	87	57	_	_	_	_	76	`Ő	12	11	699	621
1987 Average	148	115	-	-	-	_	54	1	13	12	655	602
1988 Average	134	106	-	-	-	-	65	5	19	19	747	674
1989 Average	172	136 140	-	_	-	_	34	3 2	39	39	767 766	716
1990 Average1991 Average	182 163	123	_	_	_	_	58 47	3	41 24	40 24	755 807	689 759
1992 Average	126	102	_	_	_	_	55	0	10	10	830	787
1993 Average	171	141	81	78	_	_	31	ŏ	11	10	919	863
1994 Average	161	146	91	91	-	_	22	0	10	6	984	939
1995 Average	219	207	.97	96	229	229	5	0	. 8	6	1,068	1,027
1996 Average	234	226	104	96	184	184	8	0	11	6	1,244	1,207
1997 Average1998 Average	271 354	270 349	115 101	114 98	230 207	230 207	7 12	0	23 35	8 26	1,385 1,351	1,360 1,321
1999 Average	468	452	118	114	168	168	10	ŏ	35	21	1,324	1,254
2000 Average	342	318	128	125	143	143	30	Ö	45	29	1,373	1,313
2001 Average	296	260	120	113	140	140	40	0	37	15	1,440	1,394
2002 January	260	228	116	83	206	206	30	0	33	14	1,416	1,373
February March	352 242	331 233	84 110	77 104	61 124	61 124	26 54	0 0	11 6	0	1,611 1,473	1,571 1,437
April	291	266	93	75	164	164	38	0	0	0	1,473	1,442
May	210	192	91	82	188	188	36	ŏ	30	22	1,565	1.492
June	229	204	117	105	123	123	16	0	7	0	1,519	1,474
July	224	203	110	93	206	206	22	0	20	11	1,604	1,529
August	239	217	79	79 102	170	170	24 24	0 0	38 0	29 0	1,500	1,475
September October	275 255	263 232	114 156	151	164 88	164 88	34	0	22	17	1,453 1,574	1,417 1,524
November	270	212	153	148	127	127	40	0	23	12	1,580	1,532
December	289	248	100	100	88	88	58	ŏ	4	0	1,781	1,734
Average	260	235	110	100	143	143	34	0	16	9	1,547	1,500
2003 January	160	138	85	85	113	113	25	0	12	11	1,604	1,530
February	269 220	240 163	93 82	93 82	168 98	168 98	21 49	0 0	15 8	0	1,646 1,355	1,542 1,313
March April	212	170	o∠ 101	82 95	135	135	68	0	27	21	1,355	1,633
May	162	133	149	137	129	129	39	ő	31	22	1,556	1,513
June	170	146	136	120	140	140	20	0	0	0	1,530	1,472
July	188	161	144	139	98	98	24	0	118	95	1,694	1,645
August	226	206	173	170	144	144	32	0	62	62	1,618	1,575
September October	200 231	182 186	173 245	167 234	102 141	102 141	28 25	0 0	46 15	22 9	1,665 1,692	1,631 1,620
November	129	102	103	103	142	142	49	0	9	ő	1,657	1,585
December	175	168	244	237	161	161	25	Ŏ	21	11	1,801	1,765
Average	195	166	145	139	131	131	34	0	31	21	1,623	1,569
2004 January	287	276	197	187	97	97	20	0	24	14	1,615	1,594
February	99	61	223	209	163	163	24	0	0	0	1,541	1,486
March April	124 153	105 136	113 253	95 225	108 169	108 169	63 41	0 0	22 0	8 0	1,639 1,577	1,576 1,566
May	202	173	259	259	116	116	26	0	31	22	1,714	1,666
June	202	192	205	186	195	195	37	ő	23	5	1,702	1,668
July	136	83	277	249	117	117	65	0	34	34	1,648	1,603
August	184	143	282	256	65	65	51	0	64	33	1,647	1,588
September 9-Month Average	166 173	131 145	285 233	285 217	94 124	94 124	51 42	0 0	21 25	12 14	1,591 1,631	1,527 1,587
2003 9-Month Average	200	170	126	121	125	125	34	0	36	26	1,591	1,539
2002 9-Month Average	257	236	102	89	157	157	30	0	16	9	1,513	1,467

^a 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.

^b Through 1992, Ecuador was a member of OPEC. See Table 3.3c.

^c Through December 1994, Gabon was a member of OPEC. See Table

^{- =}Not applicable. (s)=Less than 500 barrels per day.

Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included. • U.S. geographic coverage is the 50 States and the District of

Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA), *Petroleum Supply Annual 1992, Volume 1, May 1993, Table S3.* • 1992 forward: EIA, *Petroleum Supply Monthly,* November 2004, Table S3.

Table 3.3g Petroleum Imports From Netherlands, Netherlands Antilles, Norway, Puerto Rico, Russia, and Spain

1973 Average		Non-OPEC ^a											
1973 Average		Neth	nerlands	Netherla	nds Antilles	N	orway	Pue	rto Rico	Rı	ussia ^b	S	pain
1974 Average		Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1975 Average													
1976 Average													_
1977 Average													
1978 Average	1970 Average												
1978 Average 2 (s) 225 0 144 144 88 0 1 1 0 4 4 0 1980 Average 2 (s) 225 0 144 144 88 0 1 1 0 1 0 4 1 1 0 1981 Average 3 2 (s) 175 0 1181 144 88 0 1 1 1 0 1 1 1 0 1 1 1 0 1 1 1 1 0 1	1978 Average												-
1980 Average 30 (s) 197											-		-
1981 Average			(s)						Ö		Ó	1	Ó
1983 Average 65 3 189 0 66 65 540 0 11 (e) 2 (s) 1984 Average 65 3 188 0 114 112 42 0 131 (e) 11 0 1985 Average 65 3 3 188 0 114 112 42 0 131 (e) 12 11 0 1985 Average 66 0 0 29 0 80 070 21 0 111 (e) 25 0 1985 Average 60 0 0 29 0 80 070 21 0 111 (e) 25 0 1985 Average 60 0 0 29 0 80 070 21 0 111 (e) 25 0 1985 Average 60 0 0 29 0 0 68 0 1986 Average 60 0 0 29 0 0 68 0 1986 Average 60 0 0 29 0 0 68 0 1986 Average 60 0 0 29 0 0 1986 Average 60 0 0 1990 Average 75 0 0 31 0 102 2 96 32 2 0 29 0 0 68 0 1990 Average 75 0 0 31 0 102 2 96 32 2 0 48 0 0 67 0 0 1990 Average 75 0 0 31 0 102 2 96 32 2 0 48 0 1 4 43 0 0 1992 Average 75 0 0 31 0 102 2 96 32 2 0 48 0 1 4 43 0 0 1993 Average 75 0 0 31 0 102 2 96 32 2 0 48 0 1 4 43 0 0 1993 Average 75 0 0 85 0 127 119 26 0 188 5 32 0 0 1993 Average 75 0 0 85 0 127 119 26 0 0 188 5 32 0 0 1993 Average 75 0 0 86 0 102 2 198 2 12 0 0 30 27 37 0 0 1995 Average 75 0 0 86 0 102 2 198 2 12 0 0 30 27 37 0 0 1995 Average 75 0 0 1		30		197	0	119	114	62	0	5	(s)	1	(s)
1984 Average	1982 Average										-		(s)
1985 Average													
1986 Average 60 0 25 0 60 53 21 0 18 (s) 53 0 1988 Average 60 0 29 0 80 70 21 0 11 0 55 0 1988 Average 61 0 36 0 67 62 22 0 29 0 68 0 167 0 1988 Average 44 0 0 36 0 67 62 22 0 29 0 68 0 167 0 1988 Average 44 0 0 36 0 67 62 22 0 29 0 68 0 167 0 1988 Average 44 0 0 38 126 63 22 0 29 0 68 0 167 0 1988 Average 22 0 0 81 0 10 82 74 27 0 29 1 1 33 0 0 1981 Average 26 0 65 0 127 119 26 0 18 5 32 0 1988 Average 26 0 65 0 127 119 26 0 18 5 32 0 1993 Average 32 0 0 88 0 202 190 22 0 35 36 37 7 0 1993 Average 32 0 0 88 0 202 190 22 0 35 36 37 7 0 1993 Average 32 0 0 88 0 202 190 22 0 35 36 37 7 0 1995 Average 15 0 52 0 273 258 15 0 0 25 14 15 14 15 1 1 1998 Average 27 0 65 0 30 27 37 37 0 1998 Average 31 0 82 0 273 258 15 0 0 25 14 18 19 1 1998 Average 27 0 65 0 304 27 31 25 10 24 19 19 19 10 1998 Average 31 0 82 0 236 221 15 0 24 9 18 0 0 1998 Average 27 0 65 0 304 263 13 0 89 21 10 0 200 Average 30 0 1 90 0 343 302 15 0 72 7 25 0 0 200 Average 30 0 1 90 0 343 302 15 0 72 7 25 0 0 200 Average 30 0 1 90 0 343 302 15 0 72 7 25 0 0 200 Average 30 0 1 90 0 343 302 15 0 72 7 25 0 0 10 Average 30 0 1 1 90 0 343 302 15 0 72 7 25 0 0 10 Average 30 0 1 1 90 0 343 302 15 0 72 7 25 0 0 10 Average 30 0 1 1 11 0 94 0 577 623 2 0 0 95 12 19 0 0 Average 30 0 1 1 11 0 94 0 577 623 2 0 0 95 12 19 0 0 Average 30 0 1 1 11 0 94 0 577 623 2 0 0 95 12 19 0 0 Average 30 0 1 10 0 0 0 343 308 0 0 0 95 10 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													7
1987 Average 60 0 29 0 80 70 21 0 11 0 55 0 0 88 0 70 21 0 11 0 55 0 0 88 0 70 21 0 11 1 0 55 0 0 68 0 1988 Average 61 0 36 0 67 62 22 02 0 90 68 0 1989 Average 55 0 31 0 102 97 32 0 48 0 67 0 0 1989 Average 55 0 31 0 102 97 32 0 48 0 67 0 0 1989 Average 55 0 31 0 102 97 32 0 48 0 67 0 0 1990 Average 55 0 0 85 0 87 11 2 2 0 0 88 0 1990 Average 10 0 0 82 0 14 1 1 2 2 0 0 18 1 5 0 2 0 1991 Average 11 0 0 82 0 14 1 1 2 2 0 0 18 1 5 0 2 0 1991 Average 11 0 0 82 0 14 1 1 1 2 2 0 0 18 1 5 0 2 0 1991 Average 11 0 0 82 0 14 1 1 1 1 2 2 0 0 18 1 5 0 2 1 4 1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									-				•
1988 Average													
1989 Average											-		-
1990 Average											-		-
1991 Average 29 0 81 0 82 74 27 0 29 1 33 0 0 1992 Average 26 0 65 0 127 119 26 0 18 5 32 0 1993 Average 110 0 82 0 142 137 29 0 55 36 37 0 1993 Average 32 0 98 0 202 190 22 0 30 27 37 0 1994 Average 115 0 52 0 27 190 22 0 30 27 37 0 1995 Average 116 0 52 0 27 190 22 0 30 27 37 0 1995 Average 116 0 52 0 27 190 22 0 30 27 37 0 1995 Average 2 25 0 6 74 0 313 288 20 0 25 144 16 16 1 1998 Average 2 25 0 6 74 0 313 288 20 0 25 144 16 16 1 1998 Average 31 0 6 22 0 26 221 15 0 24 9 18 0 1998 Average 2 27 0 65 0 304 263 13 0 89 21 10 0 0 2000 Average 31 0 82 0 236 221 15 0 72 7 25 0 2001 Average 30 1 90 0 343 302 15 0 72 7 25 0 2001 Average 30 0 1 90 0 343 302 15 0 72 7 25 0 2001 Average 43 0 81 0 341 281 4 0 90 0 31 0 0 2000 Average 43 0 81 0 341 281 4 0 90 0 31 0 0 2000 Average 43 0 81 0 341 281 4 0 90 0 31 0 0 2000 Average 30 0 1 1 90 0 155 125 10 0 0 0 61 0 16 0 0 6 1 0 0 16 0 0 0 0													
1992 Average			-						-		-		_
1993 Average 10 0 82 0 142 137 29 0 55 36 37 0 1994 Average 32 0 98 0 202 190 22 0 30 27 37 0 1995 Average 115 0 52 0 27 30 258 15 0 25 14 16 1 1998 Average 25 0 64 0 3313 283 20 0 25 14 16 1 1998 Average 25 0 64 0 3313 283 20 0 25 18 29 1 1997 Average 25 0 64 0 3313 283 20 0 25 18 29 1 1997 Average 25 0 64 0 3313 283 20 0 25 18 29 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1											5		
1994 Average 32 0 98 0 202 190 22 0 30 27 37 0 1995 Average 15 0 55 0 25 14 16 1 1996 Average 19 0 64 0 313 293 20 0 25 18 29 1 1997 Average 2 13 0 74 0 330 288 28 16 0 23 18 29 1 1997 Average 2 13 0 74 0 303 288 28 16 0 23 18 29 1 1997 Average 2 13 0 74 0 303 288 28 16 0 134 3 21 0 0 21 1997 Average 2 17 0 65 0 234 23 13 0 29 29 190 0 2000 Average 3 0 1 90 0 344 23 13 0 0 29 20 2000 Average 4 3 0 81 0 341 281 4 0 90 0 31 0 0 2001 Average 4 3 0 81 0 0 341 281 4 0 90 0 31 0 0 2001 Average 4 3 0 81 0 0 25 135 0 0 66 1 0 16 0 6 0 2001 Average 4 3 0 81 0 0 25 135 0 0 0 61 0 16 0 16 0 0 2001 Average 4 3 0 145 0 25 135 0 0 0 61 0 16 0 16 0 0 2001 Average 4 3 0 145 0 25 135 0 0 0 61 0 16 0 16 0 16 0 16 0 16 0 16	1993 Average												-
1996 Average	1994 Average												7
1997 Average 25 0 74 0 0 309 288 16 0 133 3 21 0 1998 Average 31 0 82 0 236 221 15 0 24 9 18 0 1999 Average 27 0 65 0 304 263 13 0 89 21 10 0 2000 Average 30 1 90 0 343 302 15 0 72 7 7 25 0 2001 Average 43 0 81 0 341 281 4 0 90 0 31 0 2001 Average 43 0 81 0 341 281 4 0 90 0 31 0 2002 January 45 0 112 0 155 135 0 0 61 0 16 0 16 0 16 0 16 0 16 0 16 0			-						-				1
1998 Average 31 0 82 0 236 221 15 0 24 9 18 0 290 Average 27 0 65 0 304 263 13 0 89 21 10 0 0 2000 Average 30 1 90 0 341 302 15 0 72 7 25 0 6 2001 Average 43 0 81 0 341 221 4 0 99 0 31 0 2001 Average 48 0 120 140 201 Average 48 0 120 140 201 Average 48 0 145 0 264 224 0 0 5 15 0 10 0 10 0 Average 48 0 145 0 264 224 0 0 5 15 0 10 0 0 10 0 Average 49 0 10 10 0 0 10 0 0 10 0 0 0 10 0 0 0 0													1
1999 Average 27 0 65 0 304 263 13 0 89 21 10 0 2000 Average 30 1 90 0 343 302 15 0 772 77 25 0 2011 Average 43 0 81 0 341 281 4 0 90 0 0 31 0 2002 January 25 0 120 0 155 135 0 0 76 1 0 16 0 February 48 0 145 0 264 224 0 0 51 0 10 0 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 192 36 8 0 April 111 0 94 0 577 523 2 0 April 220 23 0 April 111 0 94 0 577 40 0 0 231 78 8 0 April 111 0 0 94 0 577 40 0 0 231 78 8 0 April 111 0 0 94 0 495 448 0 0 0 220 79 30 0 0 April 111 0 0 495 448 0 0 0 220 79 30 0 0 April 111 0 0 478 448 0 0 0 220 79 30 0 0 April 111 0 0 499 388 0 0 0 225 110 0 29 0 0 April 111 0 0 495 348 (s) 0 0 225 110 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1997 Average												-
2000 Average													-
2002 January													
February													-
March													
April 1111 0 94 0 577 523 2 0 192 36 8 0 May 103 0 48 0 519 467 0 0 371 220 23 0 June 69 0 76 0 527 490 0 0 231 78 8 0 June 69 0 76 0 56 0 527 490 0 0 231 78 8 0 July 39 0 51 0 495 448 0 0 220 79 30 0 O August 87 0 56 0 478 402 0 0 225 104 0 0 0 September 21 0 77 0 342 294 0 0 0 225 104 0 0 0 Cotober 75 0 71 0 318 308 0 0 225 104 0 0 0 O Cotober 75 0 71 0 318 308 0 0 0 295 190 0 0 O OCOTOBER 61 0 0 43 0 0 288 202 0 0 0 276 108 41 0 O OCOTOBER 61 0 0 43 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
May 103 0 48 0 519 467 0 0 371 220 23 0 July 39 0 51 0 495 448 0 0 220 79 30 0 August 87 0 56 0 478 402 0 0 220 79 30 0 September 21 0 77 0 342 294 0 0 2255 104 0 0 Cotober 75 0 71 0 318 308 0 0 2255 190 0 0 November 70 0 84 0 409 388 0 0 2255 85 19 0 December 61 0 43 0 288 202 0 0 276 18 19 0 2003 January 1													-
June 69 0 76 0 527 490 0 0 231 78 8 0 0 10 10 10 10 10 10 10 10 10 10 10 10													-
July													-
September 21 0 777 0 342 294 0 0 225 104 0 0 OCtober 75 0 71 0 318 308 0 0 295 190 0 0 OCtober 75 0 71 0 318 308 0 0 295 190 0 0 OCtober 77 0 0 84 0 409 388 0 0 0 255 85 190 0 OCtober 77 0 0 84 0 409 388 0 0 0 255 85 190 0 OCTOber 97 0 0 81 0 288 202 0 OCTO 108 41 0 Average 66 0 81 0 393 348 (s) 0 210 85 17 0 OCTO 2003 January 123 0 49 0 210 139 0 0 181 99 30 0 OCTO 108 11 0 393 348 (s) 0 210 85 17 0 OCTO 108 11 0 393 348 (s) 0 210 85 17 0 OCTO 108 11 0 393 348 (s) 0 210 85 17 0 OCTO 108 11 0 393 348 (s) 0 210 85 17 0 OCTO 108 11 0 393 348 (s) 0 210 85 17 0 OCTO 108 11 0 393 348 (s) 0 210 85 17 0 OCTO 108 11 0 393 348 (s) 0 210 85 17 0 OCTO 108 11 0 393 348 (s) 0 210 85 17 0 OCTO 108 11 0 393 348 (s) 0 210 85 17 0 OCTO 108 11 0 OCTO 1													Ö
October 75 0 71 0 318 308 0 0 295 190 0 0 November 70 0 84 0 409 388 0 0 255 85 19 0 December 61 0 43 0 288 202 0 0 276 108 41 0 Average 66 0 81 0 393 348 (s) 0 210 85 17 0 2003 January 123 0 49 0 210 139 0 0 181 99 30 0 February 62 0 129 0 280 236 0 0 271 121 26 0 March 108 0 64 0 242 181 0 0 257 16 16 0 April		87				478					100		0
November													-
December 61													-
Average 66 0 81 0 393 348 (s) 0 210 85 17 0 2003 January 123 0 49 0 210 139 0 0 181 99 30 0 February 62 0 129 0 280 236 0 0 271 121 26 0 March 108 0 64 0 242 181 0 0 257 16 16 0 April 89 0 83 0 282 182 0 0 132 19 17 0 May 76 0 143 0 303 190 0 0 208 142 49 0 June 97 0 49 0 375 244 0 0 527 441 44 0 July 100 0 59 0 265 162 0 0 550 479 16 0 August 91 0 27 0 352 192 0 0 411 288 7 0 September 102 0 46 0 288 214 0 0 527 442 11 0 Cotober 79 0 42 0 288 214 0 0 275 142 11 0 November 93 0 78 0 188 129 0 0 71 0 41 0 December 19 0 77 0 188 129 0 0 77 0 0 27 0 27 181 0 0 254 151 24 0 2004 January 30 0 90 0 241 149 0 0 128 8 0 0 April 11 0 28 0 169 131 0 0 184 11 15 4 March 0 159 0 0 0 228 186 0 0 184 11 15 4 March 159 0 0 0 228 186 0 0 184 11 15 4 March 159 0 0 0 228 186 0 0 184 11 15 4 March 159 0 0 0 228 186 0 0 184 11 15 4 March 159 0 0 0 228 186 0 0 184 11 142 35 0 June 111 0 28 0 169 131 0 0 136 193 42 34 0 April 111 0 28 0 169 131 0 0 136 193 42 34 0 April 111 0 28 0 169 131 0 0 136 193 13 195 24 0													-
2003 January 123 0 49 0 210 139 0 0 181 99 30 0 February 62 0 129 0 280 236 0 0 271 121 26 0 March 108 0 64 0 242 181 0 0 257 16 16 0 April 89 0 83 0 282 182 0 0 132 19 17 0 May 76 0 143 0 303 190 0 0 208 142 49 0 June 97 0 49 0 375 244 0 0 527 441 44 0 July 100 0 59 0 265 162 0 0 557 441 44 0 August 91 0 27 0 352 192 0 0 411 288 7 0 September 102 0 46 0 288 214 0 0 527 142 11 0 November 93 0 78 0 188 129 0 0 71 0 41 0 November 93 0 78 0 188 129 0 0 71 0 41 0 December 19 0 71 0 162 116 0 0 72 21 19 December 19 0 71 0 162 116 0 0 72 21 19 2004 January 30 0 90 0 241 149 0 0 254 151 24 0 2004 January 30 0 90 0 241 149 0 0 254 151 24 0 2004 January 30 0 90 0 281 149 0 0 188 11 15 4 March 159 0 0 0 28 0 188 0 0 188 0 0 184 11 15 4 March 159 0 0 0 0 288 131 0 0 188 11 15 0 2004 January 30 0 90 0 270 181 0 0 254 151 24 0 2004 January 30 0 90 0 270 181 0 0 128 8 0 0 0 April 111 0 28 0 169 131 0 0 384 20 3 0 April 111 0 28 0 169 131 0 0 384 20 3 0 April 111 0 28 0 169 131 0 0 384 20 8 0 April 111 0 28 0 169 131 0 0 384 20 8 0 April 111 0 28 0 169 131 0 0 384 20 8 0 April 111 0 28 0 169 131 0 0 384 20 8 0 April 111 0 0 2 0 0 127 0 188 50 0 0 199 43 0 0 August 95 0 5 0 278 186 0 0 0 184 20 8 0 August 97 0 121 0 319 163 0 0 215 105 17 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0													
February 62 0 129 0 280 236 0 0 271 121 26 0 March 108 0 64 0 242 181 0 0 257 16 16 0 March 108 0 64 0 242 181 0 0 257 16 16 16 0 April 89 0 83 0 282 182 0 0 132 19 17 0 May 76 0 143 0 303 190 0 0 208 142 49 0 June 97 0 49 0 375 244 0 0 527 441 44 0 June 97 0 49 0 375 244 0 0 527 441 44 0 June 100 0 59 0 265 162 0 0 550 479 16 0 August 91 0 27 0 352 192 0 0 411 288 7 0 September 102 0 46 0 288 214 0 0 275 142 11 0 October 79 0 42 0 286 190 0 0 93 34 10 0 0 November 93 0 78 0 188 129 0 0 71 0 41 0 0 November 19 0 71 0 162 116 0 0 72 21 19 0 Average 87 0 70 0 270 181 0 0 254 151 24 0 2004 January 30 0 90 0 241 149 0 0 254 151 24 0 2004 January 30 0 90 0 241 149 0 0 128 8 0 0 184 11 15 4 March 159 0 0 0 287 217 0 0 193 42 34 0 April 111 0 28 0 169 131 0 0 316 193 53 0 April 111 0 28 0 169 131 0 0 316 193 53 0 June 118 0 10 193 42 34 0 April 111 0 28 0 169 131 0 0 316 193 53 0 June 118 0 10 20 141 32 35 0 June 118 0 10 20 141 32 35 0 June 118 0 10 20 141 32 35 0 June 118 0 10 20 141 32 35 0 June 118 0 10 20 141 32 35 0 June 118 0 10 20 141 32 35 0 June 118 0 10 20 141 32 35 0 June 118 0 10 20 141 32 35 0 June 118 0 10 20 148 59 0 0 199 43 0 0 9 September 50 0 127 0 148 59 0 0 0 199 43 0 0 9 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 0 127 0 148 59 0 0 0 199 43 0 0 0 9 September 50 0 0 128 119 19 19 (s)	_		-						-				
March 108 0 64 0 242 181 0 0 257 16 16 0 April 89 0 83 0 282 182 0 0 132 19 17 0 May 76 0 143 0 303 190 0 0 208 142 49 0 June 97 0 49 0 375 244 0 0 527 441 44 0 July 100 0 59 0 265 162 0 0 550 479 16 0 August 91 0 27 0 352 192 0 0 411 288 7 0 September 102 0 46 0 288 214 0 0 93 34 10 0 November 93 0 78 0 188 129 0 0 71 0 41 0	2003 January												
April 89 0 83 0 282 182 0 0 132 19 17 0 May 76 0 143 0 303 190 0 0 208 142 49 0 July 97 0 49 0 375 244 0 0 550 479 16 0 July 100 0 59 0 265 162 0 0 550 479 16 0 August 91 0 27 0 352 192 0 0 411 288 7 0 September 102 0 46 0 288 214 0 0 275 142 11 0 October 79 0 42 0 296 190 0 0 93 34 10 0 November 93 0 78 0 188 129 0 0 71 0 0 4													-
May 76 0 143 0 303 190 0 208 142 49 0 June 97 0 49 0 375 244 0 0 550 479 16 0 July 100 0 59 0 265 162 0 0 550 479 16 0 August 91 0 27 0 352 192 0 0 411 288 7 0 September 102 0 46 0 288 214 0 0 275 142 11 0 October 79 0 42 0 296 190 0 0 93 34 10 0 November 93 0 78 0 188 129 0 0 71 0 41 0 0 275 11 0 441 0		89	0	83	0			0	0		19	17	-
July 100 0 59 0 265 162 0 0 550 479 16 0 August 91 0 27 0 352 192 0 0 411 288 7 0 September 102 0 46 0 288 214 0 0 275 142 11 0 October 79 0 42 0 296 190 0 0 93 34 10 0 November 93 0 78 0 188 129 0 0 71 0 41 0 December 19 0 71 0 162 116 0 0 72 21 19 0 Average 87 0 70 0 270 181 0 0 128 8 0 0 0 128 8 0		76		143		303	190			208	142		-
August 91 0 27 0 352 192 0 0 411 288 7 0 September 102 0 46 0 288 214 0 0 275 142 11 0 October 79 0 42 0 296 190 0 0 93 34 10 0 November 93 0 78 0 188 129 0 0 71 0 41 0 December 19 0 71 0 162 116 0 0 72 21 19 0 Average 87 0 70 0 270 181 0 0 72 21 19 0 2004 January 30 0 90 0 241 149 0 0 128 8 0 0 10 128 8 0 <th></th> <td></td> <td>-</td>													-
September 102 0 46 0 288 214 0 0 275 142 11 0 October 79 0 42 0 296 190 0 0 93 34 10 0 November 93 0 78 0 188 129 0 0 71 0 41 0 December 99 0 71 0 162 116 0 0 72 21 19 0 Average 87 0 70 0 270 181 0 0 254 151 24 0 2004 January 30 0 90 0 241 149 0 0 128 8 0 0 February 121 0 153 0 252 168 0 0 184 11 15 4 March 159													
October 79 0 42 0 296 190 0 0 93 34 10 0 November 93 0 78 0 188 129 0 0 71 0 41 0 December 19 0 71 0 162 116 0 0 72 21 19 0 Average 87 0 70 0 270 181 0 0 254 151 24 0 2004 January 30 0 90 0 241 149 0 0 128 8 0 0 0 February 121 0 153 0 252 168 0 0 184 11 15 4 March 159 0 0 287 217 0 0 193 42 34 0 April 111 0<													
November 93 0 78 0 188 129 0 0 71 0 41 0 December 19 0 71 0 162 116 0 0 72 21 19 0 Average 87 0 70 0 270 181 0 0 72 21 19 0 Average 87 0 70 0 270 181 0 0 254 151 24 0 2004 January 30 0 90 0 241 149 0 0 128 8 0 0 February 121 0 153 0 252 168 0 0 184 11 15 4 March 159 0 0 0 287 217 0 0 184 11 15 4 May 95 0 <th></th> <th>-</th>													-
December 19 0 71 0 162 116 0 0 72 21 19 0 Average 87 0 70 0 270 181 0 0 72 21 19 0 2004 January 30 0 90 0 241 149 0 0 128 8 0 0 February 121 0 153 0 252 168 0 0 184 11 15 4 March 159 0 0 0 287 217 0 0 193 42 34 0 April 111 0 28 0 169 131 0 0 316 193 53 0 May 95 0 5 0 278 186 0 0 211 142 35 0 June 118 0	November												
Average 87 0 70 0 270 181 0 0 254 151 24 0 2004 January 30 0 90 0 241 149 0 0 128 8 0 0 February 121 0 153 0 252 168 0 0 184 11 15 4 March 159 0 0 0 287 217 0 0 193 42 34 0 April 111 0 28 0 169 131 0 0 316 193 53 0 April 111 0 28 0 169 131 0 0 316 193 53 0 May 95 0 5 0 278 186 0 0 211 142 35 0 June 118 0 <th></th>													
2004 January													
February 121 0 153 0 252 168 0 0 184 11 15 4 March 159 0 0 0 287 217 0 0 193 42 34 0 April 111 0 28 0 169 131 0 0 316 193 53 0 May 95 0 5 0 278 186 0 0 211 142 35 0 June 118 0 1 0 209 164 0 0 416 321 8 0 July 110 0 2 0 318 215 0 0 384 206 8 0 August 97 0 121 0 319 163 0 0 215 105 17 0 September 50 0 127 0 148 59 0 0 199 43 0 0	•		0	90	0				0				0
March 159 0 0 0 287 217 0 0 193 42 34 0 April 111 0 28 0 169 131 0 0 316 193 53 0 May 95 0 5 0 278 186 0 0 211 142 35 0 June 118 0 1 0 209 164 0 0 416 321 8 0 July 110 0 2 0 318 215 0 0 384 206 8 0 August 97 0 121 0 319 163 0 0 215 105 17 0 September 50 0 127 0 148 59 0 0 199 43 0 0 9-Month Average 99 0 58 0 248 162 0 0 249 119 19 (s)<													
April 111 0 28 0 169 131 0 0 316 193 53 0 May 95 0 5 0 278 186 0 0 211 142 35 0 June 118 0 1 0 209 164 0 0 416 321 8 0 July 110 0 2 0 318 215 0 0 384 206 8 0 August 97 0 121 0 319 163 0 0 215 105 17 0 September 50 0 127 0 148 59 0 0 199 43 0 0 9-Month Average 99 0 58 0 248 162 0 0 249 119 19 (s)													
May 95 0 5 0 278 186 0 0 211 142 35 0 June 118 0 1 0 209 164 0 0 416 321 8 0 July 110 0 2 0 318 215 0 0 384 206 8 0 August 97 0 121 0 319 163 0 0 215 105 17 0 September 50 0 127 0 148 59 0 0 199 43 0 0 9-Month Average 99 0 58 0 248 162 0 0 249 119 19 (s)		111	0	28	0	169		0	0		193	53	
July 110 0 2 0 318 215 0 0 384 206 8 0 August 97 0 121 0 319 163 0 0 215 105 17 0 September 50 0 127 0 148 59 0 0 199 43 0 0 9-Month Average 99 0 58 0 248 162 0 0 249 119 19 (s) 2003 9-Month Average 95 0 72 0 288 193 0 0 313 195 24 0	May			5								35	
August													
September 50 0 127 0 148 59 0 0 199 43 0 0 9-Month Average 99 0 58 0 248 162 0 0 249 119 19 (s) 2003 9-Month Average 95 0 72 0 288 193 0 0 313 195 24 0													-
9-Month Average 99 0 58 0 248 162 0 0 249 119 19 (s) 2003 9-Month Average 95 0 72 0 288 193 0 0 313 195 24 0													-
2002 9-Month Average 65 0 86 0 411 365 (s) 0 188 71 16 0		95 65		72 86									

^a 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.

^b Imports from other republics in the former U.S.S.R. may be included in imports from Russia for the years 1973 through 1992.

(s)=Less than 500 barrels per day.

Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included. • U.S. geographic coverage is the 50 States and the District of

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA), *Petroleum Supply Annual 1992, Volume 1,* May 1993, Table S3. • 1992 forward: EIA, *Petroleum Supply Monthly,* November 2004, Table S3.

Table 3.3h Petroleum Imports From Trinidad and Tobago, United Kingdom, U.S. Virgin Islands, Other Non-OPEC, Total Non-OPEC, and Total Imports

					Non-	-OPEC ^a						
	Trinidad	and Tobago	United	Kingdom	U.S. Vir	gin Islands	Other N	Ion-OPECb	7	Total	Total	Imports
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average 1974 Average 1975 Average 1976 Average 1977 Average 1978 Average 1979 Average 1980 Average 1981 Average 1982 Average 1983 Average 1983 Average 1985 Average 1985 Average 1985 Average	251 242 274 289 253 190 176 133 112 96 94 113 125	60 63 115 104 134 142 123 115 102 92 83 87 98 93 75	15 8 14 31 126 180 202 176 375 456 382 402 310 350 352	0 0 (s) 13 97 169 197 173 369 441 365 378 278 317 304	329 391 406 422 466 428 431 388 327 316 282 294 247 244	000000000000000000000000000000000000000	153 122 120 203 287 239 269 219 236 306 378 411 394 426 459	36 30 14 101 157 146 192 162 163 174 215 210 137 144	3,263 2,832 2,454 2,247 2,614 2,612 2,619 2,609 2,672 2,968 3,189 3,387 3,387 3,617	1,149 937 893 742 971 1,172 1,407 1,399 1,474 1,754 1,853 1,914 1,865 2,274	6,256 6,112 6,056 7,313 8,807 8,456 6,909 5,916 5,113 5,051 5,437 5,067 6,224 6,678	3,244 3,477 4,105 5,287 6,615 6,519 5,263 4,396 3,426 3,329 3,426 4,178 4,674
1988 Average 1989 Average 1991 Average 1991 Average 1992 Average 1993 Average 1994 Average 1995 Average 1996 Average 1997 Average 1997 Average 1998 Average 2000 Average 2001 Average	94 96 88 95 74 77 70 76 61 66 58	71 73 76 72 70 55 62 62 62 58 53 40 56 51	315 215 189 138 230 350 458 383 308 226 250 365 366 324	254 160 155 106 200 312 396 341 216 169 161 284 291	242 321 282 243 249 254 328 278 313 300 293 280 291 268	0 0 0 0 0 0 0 0 0	487 457 417 282 335 452 450 302 440 422 531 575 618 702	196 197 180 137 149 240 239 181 265 250 288 304 214	3,882 3,921 3,721 3,535 3,796 64,347 4,749 4,833 5,267 5,593 5,803 5,899 6,257 6,343	2,411 2,467 2,381 2,405 2,676 3,178 3,483 3,889 4,070 4,450 4,537 4,502 4,526 4,480	7,402 8,061 8,018 7,627 7,888 8,620 8,996 8,835 9,478 10,162 10,708 10,852 11,459 11,871	5,107 5,843 5,894 5,782 6,083 6,787 7,063 7,230 7,508 8,225 8,706 8,731 9,071 9,328
2002 January February March April May June July August September October November December Average	84 72 59 71 89 72 58 104 112 102 85	53 84 68 59 63 76 72 50 76 75 82 55 68	366 360 272 454 436 726 529 574 353 582 669 415 478	284 279 220 380 351 613 481 480 278 486 632 376 405	278 242 198 168 165 236 240 234 231 235 321 281	0 0 0 0 0 0 0 0	604 398 631 772 804 799 951 872 769 718 762 534 720	207 133 164 230 273 346 403 454 367 225 255 173 270	6,059 6,171 6,207 7,160 7,208 7,397 7,258 7,252 6,622 7,207 7,586 6,935 6,925	4,244 4,588 4,405 5,193 5,337 5,561 5,316 5,316 5,317 4,926 5,311 5,448 4,968 5,058	11,088 10,904 11,198 11,765 11,769 11,753 11,624 11,890 11,075 11,893 12,268 11,100 11,530	8,709 8,753 8,799 9,301 9,323 9,324 9,184 9,544 8,797 9,532 9,654 8,741 9,140
2003 January February March April May June July August September October November December Average	105 110 97 50 128 58 124 91	73 44 78 82 82 44 98 36 87 60 68 56	493 463 389 407 557 512 381 558 319 300 390 440	411 407 299 308 470 373 454 319 487 285 234 261 359	179 253 328 245 258 278 351 345 326 307 291 287 288	0 0 0 0 0 0 0 0	700 649 818 651 894 959 809 974 786 711 676 634 773	181 179 245 189 358 340 348 490 359 396 307 228 303	6,801 6,869 6,612 6,650 7,167 7,475 8,000 7,836 7,474 7,031 6,475 6,808 7,103	4,760 4,802 4,342 4,649 5,093 5,316 5,922 5,676 5,489 5,309 4,618 5,034 5,087	11,104 10,921 12,044 12,599 12,918 13,001 12,736 12,769 12,868 12,373 11,712 12,033 12,264	8,633 8,474 9,226 9,928 10,153 10,038 10,034 10,023 10,287 10,063 9,351 9,665
2004 January February March April May June July August September 9-Month Average	123 107 110 100 59 108 101 67	55 75 56 77 41 34 54 56 38 54	200 384 448 461 433 394 402 274 192 354	126 297 293 306 249 304 249 174 94	295 279 284 290 294 376 379 355 342	0 0 0 0 0 0 0	606 999 1,152 837 824 956 838 981 876 896	175 402 408 287 184 261 217 383 319 292	6,549 7,114 7,304 7,062 7,236 7,436 7,603 7,264 6,952 7,169	4,715 4,764 4,897 5,040 5,115 5,264 5,170 4,897 4,808 4,964	11,727 12,329 13,073 12,450 12,989 13,301 13,389 R 13,489 12,532 12,813	9,322 9,258 10,073 10,062 10,324 10,505 10,302 R 10,447 9,669 10,000
2003 9-Month Average 2002 9-Month Average		70 67	475 453	392 374	285 221	0 0	806 736	300 288	7,213 6,819	5,120 4,996	12,339 11,457	9,652 9,085

^a 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.

^b Includes Bahrain, which is shown on Table 3.3a.

^c As of January 1993, includes petroleum imported from Ecuador, which withdrew from OPEC on December 31, 1992. As of January 1995, includes petroleum imported from Gabon, which withdrew from OPEC on December 31, 1994.

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

Notes: • Beginning in October 1977, Strategic Petroleum Reserve imports are included.

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

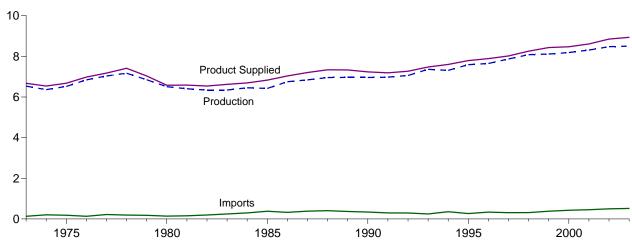
• U.S. geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA), *Petroleum Supply Annual 1992, Volume 1,* May 1993, Table S3. • 1992 forward: EIA, *Petroleum Supply Monthly,* November 2004, Table S3.

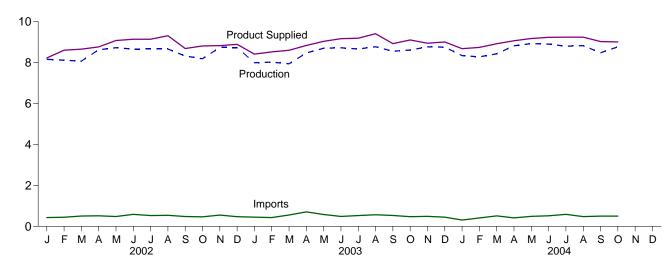
Figure 3.2 Finished Motor Gasoline

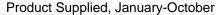
(Million Barrels per Day, Except as Noted)

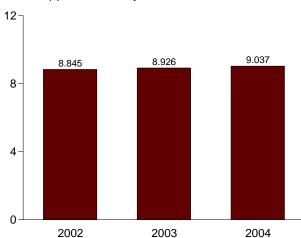
Overview, 1973-2003



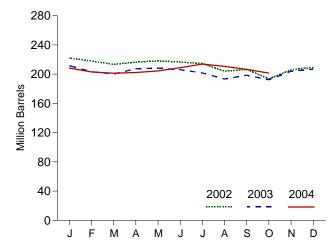
Overview, Monthly







Total Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.

Source: Table 3.4.

Table 3.4 Finished Motor Gasoline Supply and Disposition

	Sup	ply		Disposition			Gasoline ocks ^a	
	Total Production	Imports ^b	Stock Change ^{b,c}	Exports	Product Supplied	Totald	Finished	Oxygenates Stocks ^a
		Thou	ısand Barrels pe	r Day			Million Barrels	
1973 Average	6,535	134	-9	4	6,674	209	NA	NA
1974 Average	6,360	204	24	2	6,537	e218	NA	NA
1975 Average	6,520	184	e28	2	6,675	235	NA	NA
1976 Average	6,841	131	-10	3	6,978	231	NA	NA
1977 Average	7,033	217	72 54	2	7,177	258	NA	NA
1978 Average 1979 Average	7,169 6,852	190 181	-54 -2	1 (s)	7,412 7,034	238 237	NA NA	NA NA
1980 Average,	6,506	140	66	(s) 1	6,579	e 261	NA NA	NA NA
1981 Average	6,405	157	e-28	2	6,588	253	203	NA
1982 Average	6,338	197	-25	20	6,539	e235	e194	NA
1983 Average	6,340	247	e-45	10	6,622	222	186	NA
1984 Average	6,453	299	54	6	6,693	243	205	NA
1985 Average	6,419	381	-41	10	6,831	223	190	NA
1986 Average	6,752	326	11	33	7,034	233	194	NA
1987 Average	6,841	384	-15	35	7,206	226	189	NA
1988 Average	6,956	405	3	22	7,336	228	190	NA
1989 Average	6,963	369	-35	39	7,328	213	177	NA
1990 Average	6,959	342	10	55	7,235	220	181	NA
1991 Average	6,975	297	.3	82	7,188	219	182	NA
1992 Average	7,058	294	-11	96	7,268	216	178	NA
1993 Average	⁹ 7,360	247	26	105	⁹ 7,476	226	187	^h 13
1994 Average	7,312	356	-31	97	7,601	215	176	17
1995 Average	7,588 7,647	265 226	-40 -12	104 104	7,789 7,801	202 195	161 157	12
1996 Average	7,647 7,870	336 309	-12 26	137	7,891 8,017	210	157 166	13 12
1997 Average1998 Average	8,082	311	15	125		216	172	14
1999 Average	8,111	382	-49	111	8,253 8,431	193	154	14
2000 Average	8,186	427	-3	144	8,472	196	153	12
2001 Average	8,312	454	23	133	8,610	210	161	13
2002 January	8,160	428	265	96	8,227	222	170	15
February	8,117	442	-149	102	8,607	218	166	14
March	8,072	504	-183	104	8,655	213	160	14
April	8,626	512	239	134	8,766	216	167	14
May	8,729	480	42	88	9,078	218	168	15
June	8,661	586	-25	131	9,140	217	168	15
July	8,665	526 538	-89 -241	136 133	9,143	215 204	165 167	15 14
August September	8,666 8,320	480	1	113	9,313 8,687	206	157 157	13
October	8,190	465	-295	135	8,814	194	148	13
November	8,738	548	327	130	8,829	206	158	13
December	8,734	470	124	186	8,893	209	162	12
Average	8,475	498	1	124	8,848	209	162	12
_	•				•			
2003 January February	7,991 8,023	446 427	-151 -219	175 143	8,414 8,525	211 203	157 151	13 13
March	7,942	555	-207	102	8.602	200	145	14
April	8,470	704	225	111	8,838	207	151	13
May	8,702	575	122	113	9,042	208	155	15
June	8,723	482	-74	109	9,170	206	153	14
July	8,663	524	-95	90	9,192	202	150	13
August	8,774	565	-156	84	9,411	193	145	11
September	8,556	529	30	129	8,926	199	146	14
October	8,613	469	-185	159	9,108	192	140	13
November	8,771	489	196	118	8,946	204	146	12
December	8,756	446	19	172	9,011	207	147	11
Average	8,501	518	-41	125	8,935	207	147	11
2004 January	8,339	309	-126 200	93	8,680	208	143	11
February	8,282	410	-209 125	159	8,743	203	137	11
March	8,429	512	-125	144	8,922	201	133	11
April	8,820	411	37	127	9,067	202	134	10
May	8,932	485 515	116 105	122 76	9,178	204	138	9
June	8,903	515 585	105 33	76 100	9,237	209 214	141 142	9 9
July	8,801 ^R 8,828	8 475	8 -67	109 ^R 126	9,243 R 9,244	214 R 211	R 140	9 10
August	1 8,828 8,482	497	-129	126 79	9,244	206	136	10
September October	E 8,772	E 497	E 124	E 134	E 9,030	E 202	E 134	NA
10-Month Average	E 8,660	E 470	E -23	E 117	E 9,037	E 202	E 134	NA NA
2003 10-Month Average 2002 10-Month Average	8,449 8,422	528 496	-71 -44	121 117	8,926 8,845	192 194	140 148	13 13

imbalance of motor gasoline blending components. See Note 2 at end of section.

h See Note 1 at end of section.

R=Revised. NA=Not available. E=Estimate. (s)=Less than 500 barrels per

a Stocks are at end of period.
b From 1981 forward, blending components are excluded.
c A negative number indicates a decrease in stocks and a positive number indicates an increase.
d Includes motor gasoline blending components and gasohol, but excludes oxygenates, which are reported separately.
e See Note 4 at end of section.
f See Note 2 at end of section.
g Beginning in 1993, motor gasoline production and product supplied include blending of fuel ethanol and an adjustment to correct for the

day.

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

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.

Sources: • 1973-1991: Energy Information Administration (EIA),

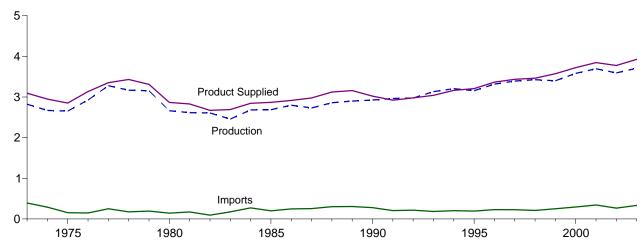
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S4. • 1992

forward: EIA, Petroleum Supply Monthly, November 2004, Table S4.

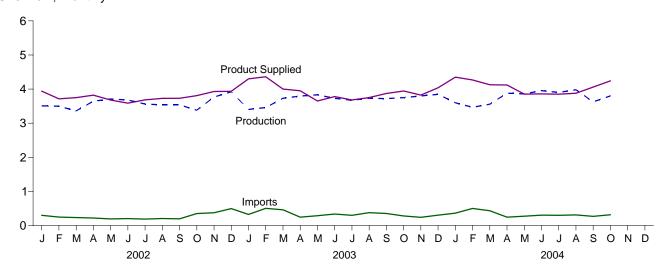
Figure 3.3 Distillate Fuel Oil

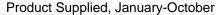
(Million Barrels per Day, Except as Noted)

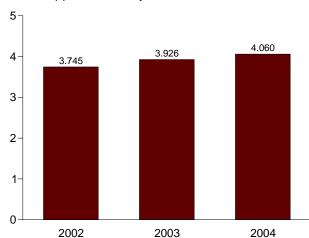
Overview, 1973-2003



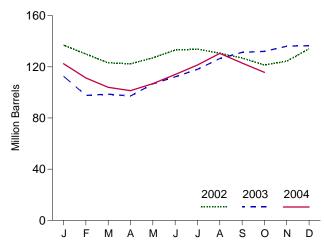
Overview, Monthly







Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html. Source: Table 3.5.

Table 3.5 Distillate Fuel Oil Supply and Disposition

		Supply			Disposition			Stocksa	
								Sulfur	Content
	Total Production	Imports	Crude Oil Used Directly ^b	Stock Change ^c	Exports	Product Supplied ^b	Total	0.05 Percent or Less ^d	Greater Than 0.05 Percent ^d
			Thousand Ba	rrels per Day	•	•		Million Barre	ls
1973 Average	2,822	392	2	115	9	3,092	196	NA	NA
1974 Average	2,669	289	2 2	e 10 e,f -41	2	2,948	f 200	NA NA	NA NA
1975 Average1976 Average	2,654 2,924	155 146	1	-62	1	2,851 3,133	209 186	NA NA	NA NA
1977 Average	3,278	250	i	176	i	3,352	250	NA	NA
1978 Average	3,167	173	1	-93	3	3,432	216	NA	NA
1979 Average	3,153 2,662	193 142	1 1	34 -64	3 3	3,311 2,866	229 f 205	NA NA	NA NA
1981 Average ⁹	2,602 2,613	173	10	f-38	5	2,829	192	NA NA	NA NA
1982 Average		93	10	-35	74	2,671	f 179	NA	NA
1983 Average	2,456	174	_	^f -1 <u>24</u>	64	2,690	140	NA	NA
1984 Average	2,681 2,687	272 200	_	57 -48	51 67	2,845 2,868	161 144	NA NA	NA NA
1985 Average 1986 Average		200 247	_	-40 31	100	2,000 2,914	155	NA NA	NA NA
1987 Average	2,731	255	_	-56	66	2,976	134	NA	NA
1988 Average	2,859	302	_	-30	69	3,122	124	NA	NA
1989 Average	2,899	306	_	-49	97	3,157	106	NA	NA
1990 Average1991 Average	2,925 2,962	278 205	_	73 31	109 215	3,021 2,921	132 144	NA NA	NA NA
1992 Average	2,974	216	_	-8	219	2,979	141	NA NA	NA NA
1993 Average	3,132	184	_	Ĭ	274	3,041	141	9 64	9 77
1994 Average	3,205	203	_	12	234	3,162	145	73	73
1995 Average	3,155 3,316	193 230	_	-41 -10	183 190	3,207 3,365	130 127	67 68	63 58
1996 Average	3,316	230 228	_	-10 32	152	3,365 3,435	138	68	70
1998 Average		210	_	48	124	3,461	156	77	79
1999 Average	3,399	250	_	-84	162	3,572	125	69	56
2000 Average	3,580	295	_	-20	173	3,722	118	72	46
2001 Average	3,695	344	-	73	119	3,847	145	82	62
2002 January	3,508 3,498	298 248	_	-244 -248	109 279	3,940 3,714	137 130	80 78	57 52
February March		234	_	-223	67	3,750	123	76 74	49
April		219	_	-23	68	3,821	122	74	48
May		193	-	149	74	3,679	127	77	50
June		204	_	203	93 44	3,587	133	79 77	54 57
July August	3,561 3,538	188 205	_	22 -104	119	3,683 3,728	134 131	77 71	57 60
September		196	_	-124	127	3,730	127	68	59
October	3,380	350	_	-175	96	3,808	121	66	56
November		373	_	99	114	3,929	124	71	53
December Average		496 267	_	312 -29	171 112	3,934 3,776	134 134	81 81	53 53
_	•					•			
2003 January February	3,403 3.459	325 503	_	-693 -532	119 132	4,301 4,362	113 98	69 61	44 37
March		460	_	30	161	4,001	99	63	35
April		246	_	-47	139	3,951	97	66	31
May		287	_	307 184	162 101	3,651	107 112	72 74	35 38
June July		337 299	_	188	101	3,781 3,680	112	74 75	43
August		375	_	274	80	3,752	127	76 76	51
September	3,721	352	_	159	43	3,871	131	77	55
October		281	-	25	62	3,945	132	74	59 50
November	3,800 3,845	241 305	_	136 13	81 100	3,824 4.037	136 137	78 82	58 55
Average		333	=	7	107	4,037 3,927	137 137	82	55 55
2004 January		362	_	-461	72	4,350	122	77	46
February	3,467	501	_	-385	86	4,268	111	68	43
March		432	_	-235 97	99	4,126	104	66 66	38 35
April May		244 273	_	-87 177	92 100	4,121 3,854	101 107	66 71	35 36
June		305	_	238	163	3,860	114	71	43
July	3.902	300	_	239	113	3 850	121	74	47
August		R 311	_	R 294	R 120	R 3,878	R 131	R 78	R 52
September		270 E 316	_	-252 ^E -249	88 ^E 123	4,059 E 4,242	123 E 116	72 E 67	51 ∈ 48
October 10-Month Average		E 331	_	E -71	E 106	E 4 ,242	E 116	E 67	E 48
2003 10-Month Average	3,684	345	_	-7	110	3,926	132	74	59
2002 10-Month Average		234	_	-76	106	3,745	121	66	56

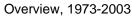
 ^a Stocks are at end of period. Distillate fuel oil stocks in the "Northeast Heating Oil Reserve" are not included.
 ^b Beginning in January 1983, crude oil used directly as distillate fuel oil is reported as crude oil product supplied on Table 3.2b rather than as distillate fuel oil product supplied.
 ^c A negative number indicates a decrease in stocks and a positive number indicates an increase.
 ^d By weight.
 ^e See Note 6 at end of section.
 ^f See Note 4 at end of section.

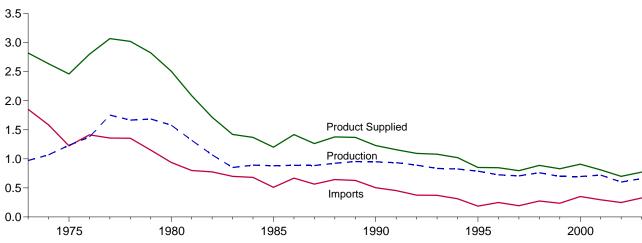
g See Note 3 at end of section.
R=Revised. NA=Not available. – =Not applicable. E=Estimate.
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S5. • 1992 forward: EIA, Petroleum Supply Monthly, November 2004, Table S5.

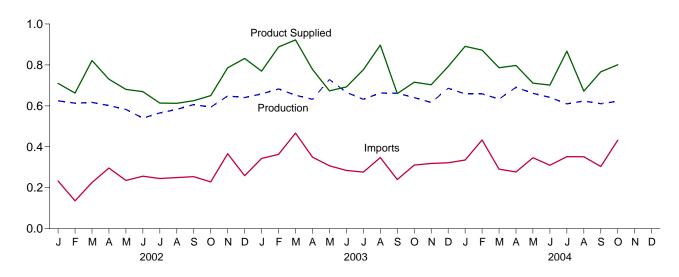
Figure 3.4 Residual Fuel Oil

(Million Barrels per Day, Except as Noted)

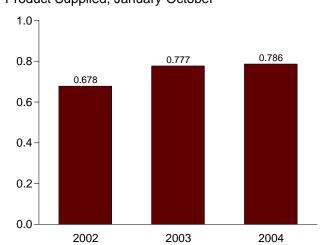




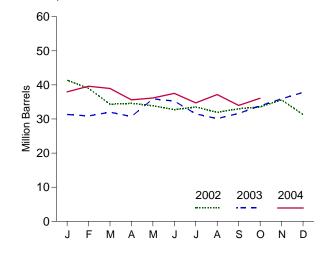
Overview, Monthly



Product Supplied, January-October



Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html. Source: Table 3.6.

Table 3.6 Residual Fuel Oil Supply and Disposition

		Supply			Disposition		
	Total Production	Imports	Crude Oil Used Directly ^a	Stock Change ^b	Exports	Product Supplied ^a	Stocks ^c
		·	Thousand Ba	rrels per Day	-		Million Barrel
973 Average	971	1,853	17	-5	23	2,822	53
774 Average	1,070	1,587	13	17	14	2,639	d 60
75 Average	1,235	1,223	15	d -2	15	2,462	74
76 Average	1,377	1,413	17	-5	12	2,801	72
77 Average	1,754	1,359	13	48	6	3,071	90
78 Average	1,667	1,355	13	1	13	3,023	90
779 Average	1,687	1,151	12	15	9	2,826	96
980 Average	1,580	939	12	-10	33	2,508	d 92
981 Average ^e	1,321	800	48	d -37	118	2,088	78
982 Average	1,070	776	48	-32	209	1,716	d 66
983 Average	852	699	_	d -55	185	1,421	49
984 Average	891	681	_	12	190	1,369	53
985 Average	882	510	_	- 7	197	1,202	50
986 Average	889	669	_	-8	147	1,418	47
987 Average	885	565	_	(s)	186	1,264	47
988 Average	926	644	_	-8	200	1,378	45
89 Average	954	629	=	-0 -2	215	1,370	44
90 Average	950 950	504	_	-2 13	211	1,229	44 49
	934	453	_	4	226	1,229	50
91 Average	934 892	453 375	_	-20	226 193	1,158	43
92 Average		375 373	-	-20 4	193 123		43 44
93 Average	835		_			1,080	
94 Average	826	314	_	-6	125	1,021	42
95 Average	788	187	_	-13	136	852	37
996 Average	726	248	_	24	102	848	46
97 Average	708	194	_	-15	120	797	40
98 Average	762	275	_	12	138	887	45
99 Average	698	237	_	-25	129	830	36
00 Average	696	352	_	.1	139	909	36
01 Average	721	295	-	13	191	811	41
02 January	625	233	_	10	138	710	41
February	613	136	_	-84	171	662	39
March	617	225	_	-151	171	821	34
April	601	296	_	9	159	730	35
May	582	235	_	-23	160	680	34
June	540	256		-38	165	669	33
	566	245		26	171	614	34
July	583	249	_	-52	272	612	32
August	607	254	_	36	200	625	33
September	593	228	_	18			34
October			_		153	650	
November	648	366	_	68	160	786	36
December	641	259	_	-138	205	832	31
Average	601	249	_	-27	177	700	31
03 January	658	343	_	(s)	231	770	31
February	683	363	_	-15	173	888	31
March	652	467	_	35	161	923	32
April	632	349	_	-43	247	778	31
May	729	307	_	168	195	673	36
June	666	284	_	-22	280	693	35
July	632	276	_	-121	252	777	32
August	663	347	_	-45	158	897	30
September	662	240	_	51	191	660	32
October	640	311	_	72	164	716	34
November	616	319	_	68	163	703	36
December	686	322	_	61	155	792	38
Average	660	327	_	18	197	772	38
_							
04 January	658	335	-	5	97	891	38
February	658	433	-	57	163	872	40
March	633	291	-	-21	158	786	39
April	691	277	-	-1 <u>11</u>	282	797	36
May	661	346	-	17	280	711	36
June	641	310	-	45	204	702	38
July	610	352	_	-90	184	867	35
August	R 624	R 351	-	^R 78	R 225	R 672	R 37
September	611	303	-	-106	254	766	34
October	E 622	E 432	_	E 83	E 171	E 801	E 36
10-Month Average	^E 641	E 343	_	E -4	E 202	E 786	E 36
03 10-Month Average	662	329		8	205	777	34

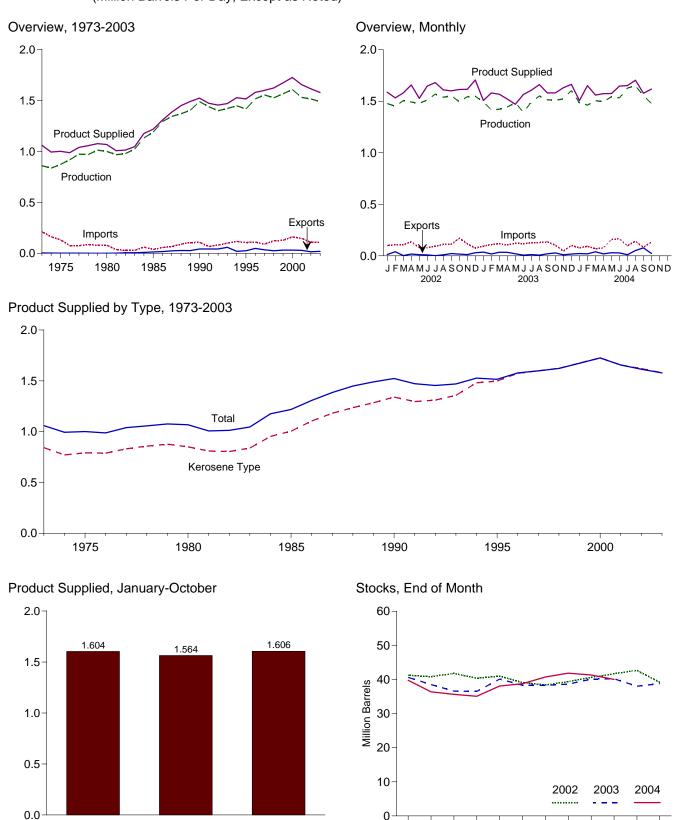
a Beginning in January 1983, crude oil used directly as residual fuel oil is reported as crude oil product supplied on Table 3.2b rather than as residual fuel oil product supplied.
 b A negative number indicates a decrease in stocks and a positive number indicates an increase.
 C. Stocks are given of position.

c Stocks are at end of period.
d See Note 4 at end of section.
e See Note 3 at end of section.

R=Revised. — =Not applicable. E=Estimate. (s)=Less than +500 barrels per day and greater than -500 barrels per day.

Note: Geographic coverage is the 50 States and the District of Columbia. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA), Petroleum Supply Annual 1992, Volume 1, May 1993, Table S6. • 1992 forward: EIA, Petroleum Supply Monthly, November 2004, Table S6.

Figure 3.5 Jet Fuel (Million Barrels Per Day, Except as Noted)



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.

2003

Source: Table 3.7.

2002

0

M

M

D

2004

Table 3.7 Jet Fuel Supply and Disposition

		Supply			Dis	sposition			
	Pi	roduction				Prod	uct Supplied		Stocksa
	Total	Kerosene Type	Imports	Stock Change ^b	Exports	Total	Kerosene Type	Total	Kerosene Type
			Thous	and Barrels p	er Day			Mil	lion Barrels
1973 Average	859	679	212	8	4	1,059	842	29	23
1974 Average	836	641	163	2	3	993	771	^c 29	^c 24
1975 Average	871 918	691 731	133 76	с 2 5	2 2	1,001 987	791 789	30 32	25 26
1976 Average1977 Average	973	787	75	7	2	1,039	831	35	28
1978 Average	970	791	86	-2	ī	1,057	858	34	28
1979 Average	1,012	835	78	13	1	1,076	876	39	33
1980 Average	999	811	80	10	1	1,068	851	c 42	^c 36
1981 Average	968 978	775 770	38 29	^C -4	2 6	1,007	809	41 C 27	34 ^c 31
1982 Average1983 Average	1,022	778 817	29 29	-12 ^c (s)	6	1,013 1,046	804 839	^с 37 39	32
1984 Average	1,132	919	62	9	9	1,175	953	42	35
1985 Average	1,189	983	39	-4	13	1,218	1,005	40	34
1986 Average	1,293	1,097	57	25	18	1,307	1,105	50	43
1987 Average	1,343	1,138	67	(s)	24	1,385	1,181	50	42
1988 Average	1,370 1,403	1,164 1.197	90 106	-17 -8	28 27	1,449 1,489	1,236 1,284	44 41	38 34
1989 Average1990 Average	1,488	1,311	108	-0 31	43	1,522	1,340	52	46
1991 Average	1,438	1,274	67	-9	43	1,471	1,296	49	44
1992 Average	1,399	1,254	82	-16	43	1,454	1,310	43	39
1993 Average	1,422	1,309	100	-7	59	1,469	1,357	40	38
1994 Average	1,448	1,410	117	18	20	1,527	1,480	47	46 30
1995 Average1996 Average	1,416 1,515	1,407 1,513	106 111	-19 (s)	26 48	1,514 1,578	1,497 1,575	40 40	39 40
1997 Average	1,554	1,554	91	11	35	1,599	1,598	44	44
1998 Average	1,526	1,525	124	2	26	1,622	1,623	45	45
1999 Average	1,565	1,565	128	-11	32	1,673	1,675	41	40
2000 Average	1,606 1,530	1,606 1,529	162 148	11 -7	32 29	1,725 1,655	1,725 1,656	45 42	44 42
2001 Average	•	·				•	*		
2002 January	1,477 1,451	1,477 1,451	99 107	-23 -15	13 40	1,587 1,532	1,591 1,532	41 41	41 41
March	1,505	1,505	107	31	3	1,581	1,581	42	42
April	1,492	1,491	137	-47	18	1,658	1,674	40	40
May	1,479	1,479	79	20	11	1,527	1,535	41	41
June	1,512	1,512	81	-63	9	1,647	1,656	39	39
July August	1,569 1,539	1,568 1,538	92 112	-22 31	2 10	1,680 1,610	1,679 1,616	38 39	38 39
September	1,552	1,552	111	40	22	1,601	1,609	41	41
October	1,495	1,495	171	36	17	1,614	1,629	42	42
November	1,543	1,543	117	33	12	1,616	1,615	43	43
December	1,548	1,547	75	-113	30	1,706	1,722	39	39
Average	1,514	1,514	107	-8	15	1,614	1,621	39	39
2003 January	1,495	1,495	94	46 -74	36	1,507	1,505	41	41
February March	1,416 1,422	1,416 1,430	109 117	-74 -62	19 34	1,581 1,567	1,581 1,575	39 37	39 37
April	1,445	1,445	106	-4	34	1,521	1,520	36	36
May	1,484	1,484	122	117	19	1,470	1,470	40	40
June	1,393	1,393	119	-60	7	1,565	1,565	38	38
July	1,491 1,551	1,491 1,551	126 129	-2 12	12 7	1,607	1,606 1,661	38 39	38 39
August September	1,551	1,551 1,513	129	12 49	20	1,661 1,581	1,661 1,581	39 40	39 40
October	1,514	1,510	103	4	28	1,580	1,580	40	40
November	1,522	1,522	46	-73	10	1,631	1,631	38	38
December	1,605	1,605	101	24	18	1,664	1,663	39	39
Average	1,488	1,489	109	-1	20	1,578	1,578	39	39
2004 January	1,484	1,484	77	33	22	1,507	1,506	40	40
February	1,462 1,505	1,462 1,505	93 70	-116 -24	19 30	1,651 1,560	1,651 1,560	36 36	36 36
March April	1,505	1,505 1,497	70 77	-24 -19	39 19	1,560 1,574	1,560 1,574	36 35	36 35
May	1,543	1,543	158	97	30	1,574	1,574	38	38
June	1,532	1,532	165	23	28	1,647	1,647	39	39
July	1,628	1,628	96	63	10	1,651	1,651	41	41
August	R 1,650	R 1,650	R 142	R 36	^R 52	R 1,704	R 1,704	R 42	R 42
September October	1,553 E 1,478	1,553 ^E 1,478	84 ^E 133	-18 ^E -30	77 ^E 23	1,577 ^E 1,618	1,577 ^E 1,618	41 E 40	41 E 40
10-Month Average	E 1,534	E 1,534	E 110	E 5	E 32	E 1,606	E 1,606	E 40	E 40
2003 10-Month Average 2002 10-Month Average	1,473 1,508	1,473 1,507	116 110	3 -1	22 14	1,564 1,604	1,564 1,611	40 42	40 42

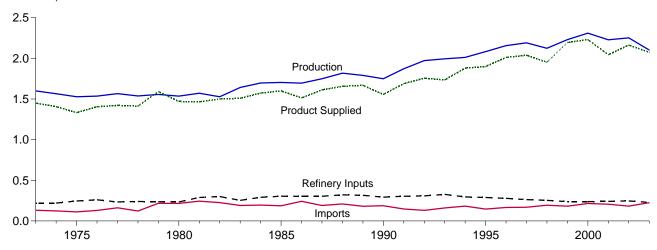
Note: Geographic coverage is the 50 States and the District of Columbia. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA), Petroleum Supply Annual 1992, Volume 1, May 1993, Table S7. • 1992 forward: EIA, Petroleum Supply Monthly, November 2004, Table S7.

a Stocks are at end of period.
 b A negative number indicates a decrease in stocks and a positive number indicates an increase.
 c See Note 4 at end of section.
 R=Revised. E=Estimate. (s)=Less than +500 barrels per day and greater than -500 barrels per day.

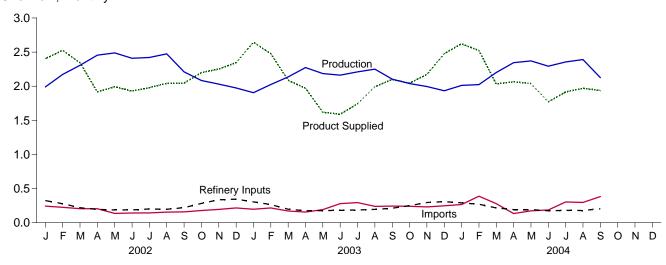
Figure 3.6 Liquefied Petroleum Gases

(Million Barrels per Day, Except as Noted)

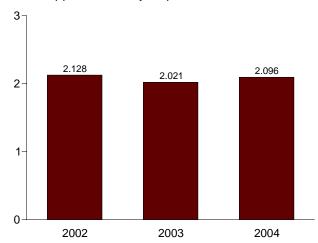
Overview, 1973-2003



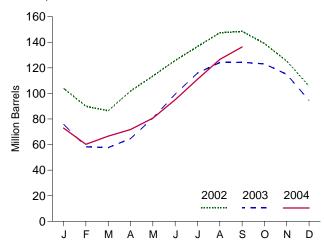
Overview, Monthly







Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.

Source: Table 3.8.

Table 3.8 Liquefied Petroleum Gases Supply and Disposition

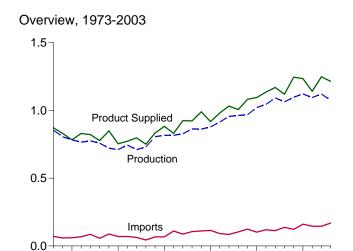
	Sup	ply		Dispo	sition		
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Product Supplied	Stocksb
			Thousand Ba	arrels per Day			Million Barrels
973 Average	1,600	132	35	220	27	1.449	99
974 Average	1,565	123	38	220	25	1,406	^c 113
975 Average	1,527	112	c 35	246	26	1,333	125
976 Average	1,535	130	-24	260	25	1,404	116
977 Average	1,566	161	55	233	18	1,422	136
	1,537	123	-12	239	20	1,413	c 132
978 Average		217	° -70	236	15	1,592	111
79 Average	1,556						^c 120
80 Average	1,535	216	27	233	21	1,469	
81 Average	1,571	244	^c 18	289	42	1,466	135
82 Average	d 1,527	226	-111	300	65	1,499	^c 94
83 Average	1,642	190	° -4	253	73	1,509	^c 101
84 Average	1,697	195	^c -19	291	48	1,572	101
85 Average	1,704	187	-75	304	62	1,599	74
86 Average	1,695	242	80	302	42	1,512	103
87 Average	1,748	190	-15	304	38	1,612	97
88 Average	1,817	209	ì	321	49	1,656	97
89 Average	1,791	181	-47	315	35	1,668	80
	1,749	188	48	293	40	1,556	98
90 Average							
91 Average	1,871	147	-15	304	41	1,689	92
92 Average	1,972	131	-10	309	49	1,755	89
93 Average	1,993	160	49	327	43	1,734	106
94 Average	2,012	183	-19	296	38	1,880	99
95 Average	2,082	146	-17	289	58	1,899	93
96 Average	2,156	166	-19	278	51	2,012	86
997 Average	2,190	169	9	263	50	2,038	89
	2,124	194	70	253	42	1,952	115
98 Average			-71	238	50		
99 Average	2,230	182				2,195	89
00 Average	2,310	215	-19	238	74	2,231	83
01 Average	2,228	206	105	241	44	2,044	121
02 January	1,990	242	-546	323	52	2,403	104
February	2,173	225	-500	277	96	2,525	90
March	2,306	204	-115	218	64	2,343	86
April	2,455	203	516	194	32	1,916	102
May	2,488	136	379	186	67	1,992	114
June	2,409	141	403	187	31	1,929	126
July	2,421	142	353	199	33	1,979	137
August	2,475	154	347	195	46	2,041	147
September	2,210	158	36	220	67	2,045	149
	2,083	178	-307	282	85	2,201	139
October							
November	2,030	195	-458	334	98	2,251	125
December	1,974	216	-630	344	131	2,345	106
Average	2,252	183	-42	247	67	2,163	106
03 January	1,905	197	-960	304	113	2,645	76
February	2,025	216	-632	265	130	2,478	58
March	2,136	171	-20	197	43	2,087	58
April	2,274	156	235	175	51	1,970	65
May	2,186	191	514	176	67	1,619	81
June	2,162	279	628	179	45	1,589	99
July	2,210	294	530	186	47	1,742	116
	2,250	239	266	194	36	1,993	124
August							
September	2,104	242	6	212	29	2,098	124
October	2,038	240	-41	249	25	2,045	123
November	1,995	231	-271	295	31	2,171	115
December	1,934	246	-660	307	56	2,477	94
Average	2,102	225	-31	228	56	2,074	94
04 January	2,011	266	-693	291	58	2,622	73
February	2,023	388	-438	270	57	2,522	60
March	2,201	278	205	215	26	2,033	67
April	2,345	134	173	192	49	2,065	72
May	2,371	173	287	191	29	2,039	81
June	2,293	186	480	174	54	1,771	95
July	2,355	304	515	179	48	1,916	111
August	2,391	297	502	178	39	1,970	127
September	2,125	382	323	203	44	1,937	136
9-Month Average	2,236	267	153	210	45	2,096	136
03 9-Month Average	2,140	220	68	209	62	2,021	124
002 9-Month Average	2,140 2,326	178	101	209	54	2,128	149

a A negative number indicates a decrease in stocks and a positive number indicates an increase.
 b Stocks are at end of period.
 c See Note 4 at end of section.
 d See Note 6 at end of section.

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA),
Petroleum Supply Annual 1992, Volume 1, May 1993, Table S8. • 1992
forward: EIA, Petroleum Supply Monthly, November 2004, Table S9.

Figure 3.7 Propane and Propylene

(Million Barrels per Day, Except as Noted)

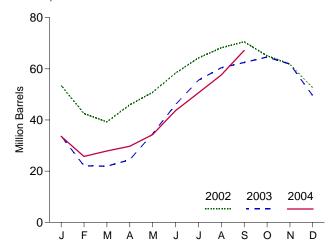


1985

1990

1995

Stocks, End of Month

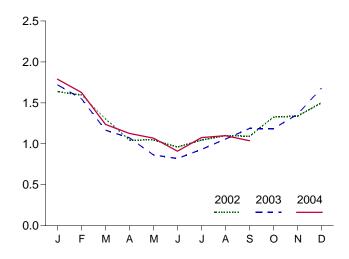


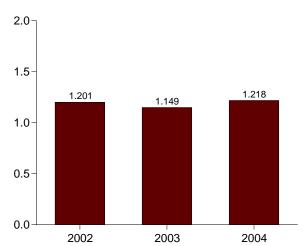
Product Supplied, Monthly

1980

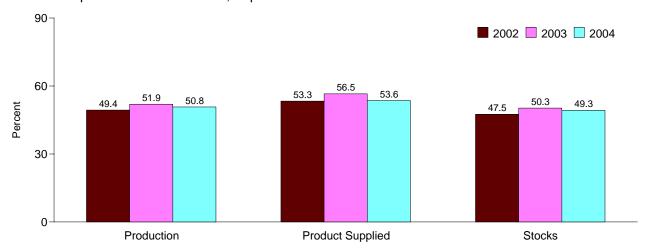
1975

Product Supplied, January-September





Share of Liquefied Petroleum Gases, September



2000

Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.

Source: Table 3.9 and, for calculation of shares, data prior to rounding.

Table 3.9 Propane and Propylene Supply and Disposition (A Subset of Table 3.8)

	Sup	ply		Dispo	sition		
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Product Supplied	Stocks ^b
			Thousand Ba	arrels per Day			Million Barrels
1973 Average1974 Average	854	71	30	8	15	872	65
	805	59	11	9	14	830	69
1975 Average	783	60	36	11	13	783	82
	766	68	-22	12	13	830	74
	775	86	21	10	10	821	81
1977 Average 1978 Average 1979 Average	775 758 721	57 88	15 ° -61	13 14	9 8	778 849	° 87 64
1980 Average1981 Average	711 745	69 70	c <u>18</u>	12 5	10 18	754 773	° 65 76
1982 Average	711	63	-59	4	31	798	^c 54
1983 Average	730	44	[℃] -24	4	43	751	^c 48
1984 Average	806	67	[℃] 7	4	30	833	58
1985 Average	816	67	-50	3	48	883	39
1986 Average	817	110	64	4	28	831	63
1987 Average1988 Average	828 863	88 106	-41 7	8	24 31	924 923	48 50
1989 Average	862	111	-52	11	24	990	32
1990 Average	878	115	48	(s)	28	917	49
1991 Average	915	91	-3	(s)	28	982	48
1992 Average1993 Average	956	85	-24	(s)	33	1,032	39
	963	103	34	(s)	26	1,006	51
1994 Average	969 1,021	124 102	-13 -10	0	24 38	1,082 1,096	46 43
1996 Average	1,044	119	(s)	0	28	1,136	43
1997 Average	1,092	113	3	0	32	1,170	44
1998 Average	1,064	137	56	0	25	1,120	65
1999 Average2000 Average	1,004 1,097 1,122	122 161	-59 -5	0	33 53	1,246 1,235	43 41
2001 Average	1,095	145	67	0	31	1,142	66
2002 January	1,082	201	-396	0	42	1,636	53
February	1,114	179	-391	0	87	1,597	43
March	1,111	147	-106	0	60	1,304	39
April	1,135	157	222	0	25	1,046	46
	1,159	87	157	0	43	1,046	51
June	1,133	101	252	0	23	960	58
July	1,137	120	190		22	1,045	64
August	1,142	116	129	0	28	1,101	68
September	1,091	131	78	0	54	1,091	71
October	1,080	144	-176	0	74	1,327	65
November	1,143	170	-109	0	85	1,337	62
December	1,127	193	-299		119	1,501	53
Average	1,121	145	-36	0 0	55 95	1,248	53
2003 January February March	1,045 1,068 1,060	165 181 133	-606 -417 -4	0	116 31	1,720 1,551 1,167	34 22 22
April	1,081	95	83	0	20	1,072	24
May	1,073	139	327		22	863	35
June	1,048	179	380	0	27	820	46
July	1,056	200	307	0	18	931	56
August	1,070	163	157	0	19	1,058	60
September	1,093 1,087	182 187	70 69	0	19 20	1,186 1,185	62 65
November	1,110	181	-92	0	24	1,360	62
December	1,115	213	-399		46	1,681	50
Average2004 January	1,075	168	-8	0	37	1,215	50
	1,101	227	-509	0	49	1,789	34
February	1,099 1,105	309 221	-270 68	0	51 21	1,627 1,236	26 28
April	1,116	95	61	0	22	1,127	30
May	1,106	128	147		19	1,069	34
June July	1,094 1,108 1,135	152 214 215	312 224 226	0 0 0	25 22 26	909 1,076 1,099	44 51 58
August	1,135	215	226	0	26	1,099	58
September	1,079	303	319	0	26	1,038	67
9-Month Average	1,105	207	65	0	29	1,218	67
2003 9-Month Average	1,066	160	36	0	40	1,149	62
2002 9-Month Average	1,123	137	18		42	1,201	71

A negative number indicates a decrease in stocks and a positive number indicates an increase.
 Stocks are at end of period.

Sources: • 1973 through 1975: U.S. Department of the Interior, Bureau of Mines, *Mineral Industry Surveys*, "Petroleum Statement, Annual." • 1976 through 1980: Energy Information Administration (EIA), *Energy Data Reports*, Petroleum Statement, Annual." • 1981-1991: EIA, *Petroleum Supply Annual 1993*, *Volume 1*, June 1994, Table S8. • 1992 forward: EIA, *Petroleum Supply Monthly*, November 2004, Table S8.

b Stocks are at end of period.
c See Note 4 at end of section.

⁽s)=Less than 500 barrels per day.

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

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.

Table 3.10 Other Petroleum Products Supply and Disposition

	Sup	ply		Dispo	sition		
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Products Supplied	Stocksb
			Thousand Ba	arrels per Day			Million Barre
973 Average	2,833	290	1	750	162	2,211	179
974 Average	2,722	269	25	665	172	2,129	c 188
975 Average	2,547	144	c -6	537	158	2,001	188
976 Average	2,725	129	(s)	524	172	2,158	188
977 Average	2,939	130	20	514	164	2,371	195
978 Average	3,076	80	-12	492	165	2,511	191
979 Average	3,141	116	24	352	208	2,673	200
980 Average	2,957	130	15	310	197	2,566	° 205
981 Average	2,771	188	° -42	723	197	2,081	241
	2,475	305	-68	787	205	d 1,857	° 216
982 Average	2,437	382	°-6	712	236		° 217
983 Average	2,500	503	c -32	791	236	1,877	198
984 Average		550	22	886	236 227	2,007 1,947	206
985 Average	2,532		-15	888	227 291		
986 Average	2,704	504				2,045	201
987 Average	2,737	543	-1 22	829	264	2,187	200
988 Average	2,773	645	22	799 707	294	2,303	208
989 Average	2,771	627	12	797	305	2,285	213
990 Average	2,842	705	-32	887	289	2,402	201
991 Average	2,826	675	18	936	277	2,269	208
992 Average	2,928	707	-3	906	263	2,470	^c 207
993 Average	e 3,035	770	c -2	1,081	e 300	^e 2,426	206
994 Average	2,973	761	24	861	329	2,518	215
995 Average	3,031	708	-23	958	348	2,457	206
996 Average	3,108	879	-11	1,014	376	2,608	202
997 Average	3,204	945	30	985	402	2,733	213
998 Average	3,253	888	18	1,002	380	2,741	219
999 Average	3,211	943	-64	1,061	338	2,819	196
000 Average	3,154	938	30	991	429	2,642	207
001 Average	3,053	1,095	20	1,013	434	2,681	214
002 January	2,931	1,079	268	714	441	2,586	223
February	3,005	993	45	1,068	482	2,403	224
March	3,072	1,123	277	955	436	2,526	232
April	3,178	1,097	-53	1,195	472	2,660	231
May	3,140	1,322	-64	1,253	503	2,771	229
June	3,225	1,162	-164	1,204	445	2,903	224
	3,295	1,246	-104	1,244	420	2,977	221
July	3,293	1,088	-309	1,240	550	2,918	211
August		1,078	-309 -45		479	2,774	210
September	3,261			1,131			
October	3,039	969	-59	1,005	471	2,592	208
November	3,109	1,014	16	1,024	503	2,581	209
December	3,071	844	-307	1,442	547	2,233	199
Average	3,137	1,085	-42	1,123	479	2,662	199
003 January	3,137	1,066	466	831	526	2,381	213
February	2,981	829	8	796	464	2,541	214
March	3,178	1,048	338	820	541	2,527	224
April	3,054	1,110	17	915	459	2,773	225
May	3,270	1,284	35	1,104	527	2,888	226
June	3,057	1,461	89	955	479	2,996	228
July	3,231	1,183	-291	1,144	464	3,097	219
August	3,199	1,091	-316	1,156	578	2,871	210
September	3,367	1,082	130	977	545	2,797	214
October	3,128	905	-223	949	518	2,789	207
November	3,166	1,037	184	913	508	2,598	212
December	3,269	929	-179	1,193	487	2,698	207
Average	3,171	1,087	21	981	509	2,747	207
004 January	2,883	1,056	550	646	400	2,343	223
	2,945	1,246	543	601	554	2,492	239
February		1,417	109		538		239 242
March	3,129			1,165		2,734	
April	2,998	1,246	-104	1,232	531	2,584	239
May	3,163	1,229	-48	1,122	465	2,853	238
June	3,142	1,316	-60	902	499	3,116	236
July	3,298	1,451	21	1,056	597	3,074	237
August	3,251	1,465	-149	1,085	516	3,265	232
September	3,085	1,327	-125	1,111	385	3,041	228
9-Month Average	3,101	1,306	80	993	498	2,835	228
003 9-Month Average	3,166	1,131	53	968	510	2,765	214
002 9-Month Average	3,159	1,134	-16	1,111	470	2,727	210

^a A negative number indicates a decrease in stocks and a positive number

hydrocarbons and alcohol, unfinished oils, gasoline blending components, and all finished petroleum products except finished motor gasoline, distillate fuel oil, residual fuel oil, jet fuel, liquefied petroleum gases, and crude oil that is used as fuel.

• Geographic coverage is the 50 States and the District of

Is used as ruel. • Geographic coverage is the 30 states and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/petro.html.
Sources: • 1973-1991: Energy Information Administration (EIA), Petroleum Supply Annual 1992, Volume 1, May 1993, Table S9. • 1992 forward: EIA, Petroleum Supply Monthly, November 2004, Table S10.

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

b Stocks are at end of period.
c See Note 4 at end of section.
d See Note 6 at end of section.
e Beginning in 1993, other petroleum products production, exports, and products supplied include an adjustment to oxygenates and motor gasoline blending components.
(s)=Less than +500 barrels per day and greater than -500 barrels per day. Notes:

• Other petroleum products include pentanes plus, other

Petroleum

Note 1. Survey Respondents: The 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 and 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, letters 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, the 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*. In order to continue to provide relevant information about U.S. and regional gasoline supply, the 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 Explanatory Note 7 in the *Petroleum Supply Monthly*.

Note 2. Motor Gasoline: Beginning in January 1981, the 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, the EIA made adjustments to the product supplied series for finished motor gasoline. It was recognized that motor gasoline statistics published by the 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 has 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 has been 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, the EIA modified its survey forms to account for redesignated product and discontinued the above-mentioned adjustment.

Beginning in January 1993, the end-of-month stocks of distillate fuel oil are split into two sulfur categories (0.05 percent sulfur or less and greater than 0.05 percent sulfur) to meet Environmental Protection Agency requirements effective in October 1992. For further details, see the EIA, *Petroleum Supply Monthly*.

Note 4. 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 (Other Primary).

Crude Oil and Petroleum Products: 1974—1,121; 1980—1,425; and 1982—1,461.

Motor Gasoline: 1974—225; 1980—263 (Total) and 214 (Finished); 1982—244 (Total) and 202 (Finished).

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

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

Jet Fuel: 1974—30 (Total) and 24 (Kerosene Type); 1980—42 (Total) and 36 (Kerosene Type); and 1982—39 (Total) and 32 (Kerosene Type).

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

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

Other Petroleum Products: 1974—190; 1980—207; and 1982—219.

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, which was formerly included in the "Other Petroleum Products Supply and Disposition" table, is now reported on

a component basis (ethane, propane, normal butane, isobutane, and pentanes plus). Most of these stocks now appear in the "Liquefied Petroleum Gases Supply and Disposition" table. This change affects stocks reported and stock change calculations in each table. Under the new basis, end-of-year 1983 stocks, in million barrels, would have been: 108 for liquefied petroleum gases, 55 for propane and propylene, and 210 for other petroleum products.

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 (Other Primary).

Note 6. Data Discrepancies: Due to differences internal to EIA data processing systems, some small discrepancies exist between data in the *Monthly Energy Review (MER)* and the *Petroleum Supply Annual (PSA)* and *Petroleum Supply Monthly (PSM)*. The data that have discrepancies are footnoted in Section 3 tables and summarized here.

Table	Data Series	Year Average	<i>MER</i> Data	PSA and PSM Data
3.1a	Natural Gas Plant Production	1976	1,604	1,603
3.1b	Exports, Total	1979	471	472
3.1b	Exports, Petroleum Products	1979	236	237
3.1b	Net Imports	1979	7,985	7,984
3.2a	Crude Used Directly	1976	-19	-18
3.2a	Imports, SPR	1978	161	162
3.2a	Crude Used Directly	1978	-15	-14
3.2a	Crude Used Directly	1979	-14	-13
3.2a	Crude Used Directly	1980	-14	-13
3.2b	Crude Losses	1976	14	15
3.2b	Crude Losses	1980	14	15
3.5	Stock Change	1974	10	9
3.5	Stock Change	1975	-41	-40
3.8	Total Production	1982	1,527	1,525
3.10	Products Supplied	1982	1,857	1,856

Section 4. Natural Gas

Total dry natural gas production in the United States during August 2004 was estimated as 1.6 trillion cubic feet, the same as production during August 2003.

Consumption of natural and supplemental gas in August 2004 was 1.5 trillion cubic feet, 4 percent lower than the level in August 2003.

Deliveries to residential consumers in August 2004 were 119 billion cubic feet, 3 percent higher than the previous August's deliveries. Total deliveries to industrial consumers during August 2004 were 664 billion cubic feet, slightly lower than the previous August's level. The electric power

sector's use of natural gas in August 2004 was 589 billion cubic feet, 10 percent lower than the rate in August 2003.

Net imports of natural gas in August 2004 were estimated as 297 billion cubic feet, 4 percent higher than net imports in the previous August.

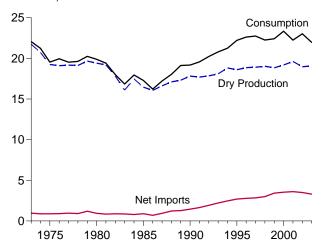
Stocks of working gas¹ in underground natural gas storage reservoirs at the end of August 2004 were 2,743 billion cubic feet, 13 percent higher than the level of stocks available 1 year earlier.

Net injections into underground storage during August 2004 were 345 billion cubic feet, 12 percent more than the amount of net injections during August 2003.

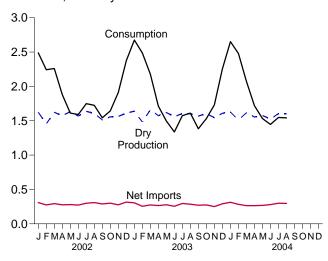
¹Gas available for withdrawal.

Figure 4.1 Natural Gas (Trillion Cubic Feet)

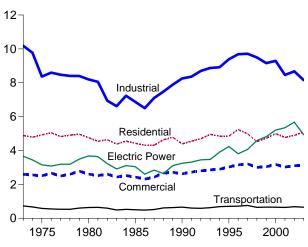
Overview, 1973-2003



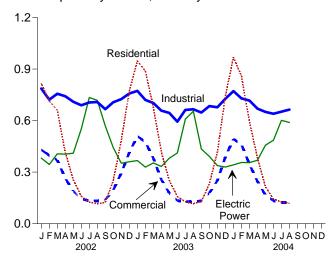
Overview, Monthly



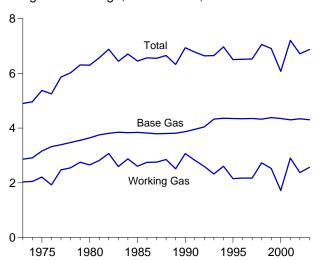
Consumption by Sector, 1973-2003



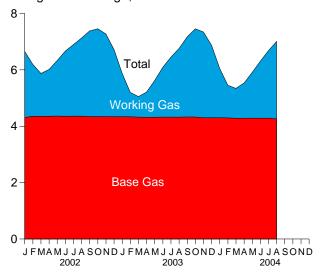
Consumption by Sector, Monthly



Underground Storage, End of Year, 1973-2003



Underground Storage, End of Month



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/natgas.html. Sources: Tables 4.1, 4.4, and 4.5.

Table 4.1 Natural Gas Overview

		Supplemental		Trade				
	Dry Gas Production ^a	Gaseous Fuels ^b	Imports	Exports	Net Imports	Net Withdrawals ^c	Balancing Item ^d	Consumptione
1973 Total	^f 21,731	NA	1,033	77	956	-442	-196	22,049
1974 Total	^f 20,713	NA	959	77	882	-84	-289	21,223
1975 Total	[†] 19,236	NA	953	73	880	-344	-235	19,538
1976 Total	f19,098	NA	964	65	899	165	-216	19,946
1977 Total	[†] 19,163 [†] 19,122	NA NA	1,011 966	56 53	955 913	-557 -120	-41 -287	19,521 19.627
1978 Total 1979 Total	f19,122	NA NA	1.253	56	1,198	-120 -248	-287 -372	20,241
1980 Total	19,403	155	985	49	936	23	-640	19,877
1981 Total	19,181	176	904	59	845	-297	-500	19,404
1982 Total	17,820	145	933	52	882	-308	d -537	18,001
1983 Total	16,094	132	918	55	864	447	d-703	16,835
1984 Total	17,466	110	843	55	788	-197	-217	17,951
1985 Total	16,454	126	950	55	894	235	-428	17,281
1986 Total 1987 Total	16,059 16.621	113 101	750 993	61 54	689 939	-147 -6	-493 -444	16,221 17.211
1988 Total	17,103	101	1,294	74	1,220	-0 59	-453	18,030
1989 Total	17,311	107	1.382	107	1,275	326	101	9 19,119
1990 Total	17,810	123	1,532	86	1,447	-513	307	9 19,174
1991 Total	17,698	113	1,773	129	1,644	80	27	g 19,562
1992 Total	17,840	118	2,138	216	1,921	173	176	g 20,228
1993 Total	18,095	119	2,350	140	2,210	-36	401	20,790
1994 Total	18,821	111	2,624	162	2,462	-286	139	21,247
1995 Total 1996 Total	18,599 18.854	110 109	2,841 2.937	154 153	2,687 2.784	415 2	396 860	22,207 22.610
1997 Total	18,902	103	2,994	157	2,837	24	871	22,737
1998 Total	19.024	102	3.152	159	2,993	-530	657	22,246
1999 Total	18,832	98	3,586	163	3,422	172	-119	22,405
2000 Total	19,182	90	3,782	244	3,538	829	-305	23,333
2001 Total	19,616	86	3,977	373	3,604	-1,166	99	22,239
2002 January	1,623	6	343	34	309	558	-8	2,488
February	1,455 1.624	6 6	306 333	30 38	276 294	474 327	33 9	2,243 2.260
March April	1,573	5	315	39	294 276	-129	156	1,881
May	1,631	5	319	39	280	-330	26	1,612
June	1,569	5	318	45	273	-350	94	1,591
July	1,638	6	345	45	300	-248	54	1,749
August	1,607	6	356	47	310	-242	44	1,725
September	1,511	5	336	47	289	-276	13	1,543
October	1,558	6	343	42	301	-89	-132	1,643
November December	1,563 1,612	6 7	331 371	55 55	276 316	202 572	-137 -133	1,911 2,373
Total	18,964	68	4,015	516	3,499	468	19	23,018
	E 1,638	E 6	365	60	305	841	R-116	2,675
2003 January	E 1,483	E 6	365 314	59	305 255	676	R 66	2,675 2,486
March	E 1 660	E 5	329	55	275	136	R 102	2,178
April	E 1.574	E 4	317	52	266	-158	28	1,714
May	± 1 620	<u> </u>	328	50	277	-412	R 6	1,497
June	E 1,558	<u> </u>	310	54	256	-470	R ₋ 12	R 1,337
July	¹ 1.606	E 6	345	50	296	-361	R 28	1,574
August	E 1,604 E 1,568	E 6 E 5	337 326	51 55	286 271	-309 -411	25 -49	1,611
September October	E 1,605	E 5	336	55 61	271 275	-411 -284	-49 R -71	1,384 ^R 1,531
November	E 1,544	E 6	322	71	273 251	86	R -157	R 1,731
December	E 1,609	E 6	367	76	291	473	R -127	R 2,253
Total	E 19,068	^E 65	3,996	692	3,305	-193	R -275	R 21,969
2004 January	E 1,627	E 6	372	R 58	R 314	811	R -106	2,652
February	E 1,512	E 6	346 R 348	R 62	R 283	600	R 79	R 2,479
March	E 1,617 E 1,555	E 5 E 5	R 348 R 319	R 83 R 54	R 265 RE 265	103	^R 82 ^R 92	R 2,072 R 1,719
April May	RE 1,576	E 6	R 321	R 52	RE 269	-198 -379	R 61	R 1,532
June	RE 1 525	E 1	R 335	R 56	RE 280	-397	R 38	R 1,446
July	E 1 603	E 2	RE 353	^E 54	RE 299	-366	R 9	R 1,548
August	E 1,604	E 5	E 350	E 53	E 297	-345	E-19	1,541
8-Month Total	E 12,620	^E 35	E 2,743	^E 471	E 2,272	-171	E 235	14,990
2003 8-Month Total 2002 8-Month Total	E 12,742 12,720	E 42 44	2,646 2,635	430 318	2,216 2,317	-58 59	129 408	15,071 15,548

[&]quot;Marketed Production (Wet)" minus "Extraction Loss." See Table 4.2.

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

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 Page: http://www.eia.doe.gov/emeu/mer/natgas.html.
Sources: • Dry Gas Production: Table 4.2. • Supplemental Gaseous Fuels:
1980-1998: Energy Information Administration (EIA), Natural Gas Annual (NGA), annual reports.
1999 forward: EIA, Natural Gas Monthly (NGM), October 2004, Table 2. • Trade: Table 4.3. • Net Withdrawals: 1973-1998: EIA, NGA 2000, Table 94.
1999 forward: EIA, NGM, October 2004, Table 2.
• Consumption: Table 4.4. • Balancing Item: Calculated as consumption minus dry gas production, supplemental gaseous fuels, net imports, and net withdrawals.

a "Marketed Production (Wet)" minus "Extraction Loss. See Table 7.2.

b See Note 1 at end of section.

c Underground storage. For 1980-2002, also includes liquefied natural gas in above-ground tanks.

d See Note 3 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

cross the U.S.-Canada border (i.e., riatural gas delivered in the country).

^e See Note 4 at end of section.

^f May include unknown quantities of nonhydrocarbon gases.

^g 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 4.4. See Note 5 at end of section.

Table 4.2 Natural Gas Production

	Gross Withdrawals ^a	Repressuringb	Nonhydro- carbon Gases Removed ^c	Vented and Flared ^d	Marketed Production ^e	Extraction Loss ^f	Dry Gas Production ^g	
1973 Total	24,067	1,171	NA	248	^h 22,648	917	^h 21,731	
1974 Total	22,850	1,080	NA	169	^h 21.601	887	^h 20.713	
1975 Total	21,104	861	NA	134	ⁿ 20.109	872	^h 19,236	
1976 Total	20,944	859	NA	132	h 19,952	854	^h 19,098	
1977 Total	21,097	935	NA	137	h 20,025	863	^h 19,163	
1978 Total	21,309 21.883	1,181 1,245	NA NA	153	^h 19,974 ^h 20,471	852 808	^h 19,122 ^h 19,663	
1979 Total1980 Total	21,883	1,245	NA 199	167 125	20,471	808 777	19,403	
1981 Total	21,587	1,312	222	98	19,956	775	19,403	
1982 Total	20,272	1,388	208	93	18,582	762	17,820	
1983 Total	18,659	1,458	222	95	16,884	790	16,094	
1984 Total	20,267	1,630	224	108	18,304	838	17,466	
1985 Total	19,607	1,915	326	95	17,270	816	16,454	
1986 Total	19,131	1,838	337	98	16,859	800	16,059	
1987 Total	20,140	2,208	376	124	17,433	812	16,621	
1988 Total	20,999	2,478	460	143	17,918	816	17,103	
1989 Total	21,074	2,475	362	142	18,095	785	17,311	
1990 Total	21,523	2,489	289	150	18,594	784	17,810	
1991 Total1992 Total	21,750 22.132	2,772 2.973	276 280	170 168	18,532 18,712	835 872	17,698 17.840	
1993 Total	22,132	2,973 3,103	414	227	18,982	886	18.095	
1994 Total	23,581	3,231	412	228	19,710	889	18,821	
1995 Total	23,744	3,565	388	284	19,506	908	18,599	
1996 Total	24,114	3,511	518	272	19,812	958	18,854	
1997 Total	24,213	3,492	599	256	19,866	964	18,902	
1998 Total	24,108	3,427	617	103	19,961	938	19,024	
1999 Total	23,823	3,293	615	110	19,805	973	18,832	
2000 Total	24,174	3,380	505	91	20,198	1,016	19,182	
2001 Total	24,501	3,371	463	97	20,570	954	19,616	
2002 January	2,062	305	43	9	1,705	82	1,623	
February	1,864	289	39	7	1,528	73	1,455	
March	2,066	308	44	8	1,706	82	1,624	
April	1,986	284	43	8	1,652	79	1,573	
May	2,030	264	44	8	1,713	82	1,631	
June	1,969 2,038	270	43 44	8 8	1,648	79 83	1,569	
July August	2,036	266 281	44	9	1,720 1,688	81	1,638 1,607	
September	1,918	279	43	8	1,588	76	1,511	
October	1,982	302	37	8	1,636	78	1,558	
November	1.987	298	39	8	1.642	79	1.563	
December	2,052	309	40	10	1,693	81	1,612	
Total	23,977	3,455	502	99	19,921	957	18,964	
2003 January	E 2,095	E 333	E 33	Eg	E 1,721	E 83	E 1,638	
February	E 1,905	E 310	E 30	E 8	E 1.558	E 75	E 1,483	
March	E 2,115	<u> </u>	E 32	E 9	E 1.743	<u> </u> 84	E 1,660	
April	E 1,999	E 307	E 30	E 8	E 1,654	E 79	E 1,574	
May	E 2,042	E 302	E 30	E 9	E 1,701	E 82	E 1,620	
June	E 1,973	E 297	E 31	E 7	E 1,637	E 79	E 1,558	
July	E 2,014 E 2,027	E 287	E 32 E 33	E 8	E 1,687	E 81	E 1,606	
August	E 1,981	E 302 E 294	E 32	E 8	E 1,684 E 1,647	E 81 E 79	E 1,604 E 1,568	
September October	E 2,044	E 316	E 34	E 8	E 1,686	E 81	E 1,605	
November	E 1.977	E 314	E 33	E 7	E 1,622	E 78	E 1,544	
December	E 2.072	E 341	E 34	E 8	E 1,690	E 81	E 1,609	
Total	E 24,243	E 3,735	^E 384	^E 95	E 20,030	^E 962	E 19,068	
2004 January	E 2,095	E 344	E 34	E 8	E 1.709	E 82	E 1,627	
February	E 1.950	E 323	E 32	E 7	E 1.588	E 76	E 1.512	
March	E 2,090	E 349	^E 34	E 8	E 1,698	E 82	E 1,617	
April	E 1.999	E 325	E 33	Eβ	E 1 634	E 78	E 1 555	
May	RE 2,027	E 329	^E 34	Eρ	RE 1 656	RE 80	RE 1 576	
June	RE 1 934	RE 292	E 33	Eβ	RE 1.602	RE 77	RE 1.525	
July	RE 2,052	RE 326	€ 34	E 8	[∟] 1,684	E 81	E 1,603	
August	¹ 2,050	E 323	E 34	E 8	E 1,685	E 81	E 1,604	
8-Month Total	E 16,198	E 2,611	E 267	^E 63	E 13,256	^E 637	E 12,620	
2003 8-Month Total 2002 8-Month Total	E 16,170 16,039	^E 2,469 2,268	^E 251 343	^E 65 66	^E 13,385 13,362	^E 643 642	E 12,742 12,720	

a Gas withdrawn from gas and oil wells.
b The injection of natural gas into oil and gas formations for pressure maintenance and cycling purposes.
c See Note 6 at end of section.
d Vented: Natural gas released into the air on the base site or at processing plants. Flared: Natural gas burned in flares on the base site or at gas processing plants.
e "Gross Withdrawals" minus "Repressuring," "Nonhydrocarbon Gases Removed," and "Vented and Flared." See Note 7 at end of section.
f See Note 8 at end of section.

^{9 &}quot;Marketed Production (Wet)" minus "Extraction Loss."

h May include unknown quantities of nonhydrocarbon gases.
R=Revised. NA=Not available. E=Estimate.
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: http://www.eia.doe.gov/emeu/mer/natgas.html.
Sources: • 1973-1988: Energy Information Administration (EIA), Natural Gas Annual 2000, Table 93. • 1999 forward: EIA, Natural Gas Monthly, October 2004, Table 1.

Table 4.3 Natural Gas Trade by Country

•				Impo	orts					Exp	orts	
	Algeria ^a	Australia ^a	Canada ^b	Mexico b	Qatar ^a	Trinidad and Tobago ^a	Otherc	Total	Canada ^b	Japan ^a	Mexico b	Total
1973 Total 1974 Total 1975 Total 1975 Total 1976 Total 1977 Total 1977 Total 1978 Total 1980 Total 1981 Total 1983 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1987 Total 1988 Total 1989 Total 1999 Total 1999 Total 1999 Total 1995 Total 1995 Total 1995 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 1998 Total 1999 Total 1998 Total 1999 Total 1998 Total 1998 Total 1999 Total 1998 Total 1999 Total 1998 Total	3 0 5 10 11 84 253 86 37 55 131 36 24 0 0 17 42 84 43 85 18 36 64 43 85 64 43 86 64 43 86 64 64 64 64 66 66 66 66 66 66 66 66 66	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,028 959 948 954 997 881 1,001 797 762 755 749 993 1,276 1,339 1,448 1,710 2,094 2,266 2,816 2,883 3,052 3,544 3,729	2 (s) 0 0 2 0 102 105 95 75 52 0 0 0 0 0 2 7 7 14 17 15 5 12 10 10 10 10 10 10 10 10 10 10 10 10 10	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 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 (s) (s) (s) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1,033 959 953 964 1,011 966 1,253 985 904 933 918 843 950 750 993 1,382 1,532 1,773 2,138 2,350 2,624 2,841 2,937 2,994 3,152 3,782 3,782	15 13 10 8 (s) (s) (s) (s) (s) (s) (s) (s) 20 38 17 168 528 526 40 39 73 167	48 50 53 52 48 54 55 53 53 53 53 54 54 55 56 53 56 56 66 66 66 66 66 66	14 13 9 7 4 4 4 4 3 2 2 2 2 2 2 2 2 2 17 16 9 6 10 6 10 6 10 6 10 6 10 10 10 10 10 10 10 10 10 10 10 10 10	77 77 73 65 56 53 56 49 59 55 55 55 61 54 107 86 129 216 140 154 157 159 163 244 373
2002 January	3 0 0 2 7 5 5 0 0 0 3 3 2 7	0 0 0 0 0 0 0	334 298 322 298 291 292 323 332 319 316 309 351 3,785	1 1 0 0 0 0 0 0 0 0 0 0 0	0 0 5 6 14 5 3 3 0 0 0 35	5 8 10 10 10 7 11 16 14 22 19 18 151	0 0 0 0 5 0 6 0 5 0 0	343 306 333 315 319 318 345 356 336 343 331 371 4,015	16 16 14 13 15 14 12 12 13 10 28 26 189	6467266666666666 63	13 11 18 19 23 25 28 29 28 26 21 23 263	34 30 38 39 39 45 47 47 42 55 55 516
2003 January	0 0 3 11 4 3 5 3 8 11 3 3 5	0 0 0 0 0 0 0 0	342 293 298 285 282 262 288 272 279 275 327 3,490	0 0 0 0 0 0 0 0 0	0 0 2 0 0 0 3 0 6 3 0 0	23 21 26 19 30 34 44 35 29 38 40 37 378	0 0 0 3 11 11 5 11 11 6 4 0	365 314 329 317 328 310 345 337 326 336 322 367 3,996	27 28 32 26 18 20 16 16 21 20 32 38 294	4 6 6 6 4 3 7 5 5 8 6 6 6 4 6 4	28 25 17 20 29 30 27 30 28 33 33 32 33	60 59 55 52 50 54 50 51 55 61 71 76 692
2004 January	R 7 8 11 8 5 16 RE 11 E 22 E 88	0 0 0 3 3 RE 6 0	319 297 R 299 R 273 R 267 R 278 R 289 E 290	0 0 0 0 0 0 0	0 0 0 3 3 3 0 RE 3 0 E 9	43 41 38 35 36 34 RE 33 E 38 E 298	R 3 0 0 0 6 4 RE 12 0 E 25	372 346 R 348 R 319 R 321 R 335 RE 353 E 350 E 2,743	R 24 R 31 R 49 R 26 R 20 R 17 E 16 E 198	5 5 6 R 6 2 4 6 6 38	29 26 28 R 22 R 30 R 35 E 32 E 32	R 58 R 62 R 83 R 54 R 52 R 56 E 54 E 53 E 471
2003 8-Month Total 2002 8-Month Total	29 21	0 0	2,337 2,491	0 2	5 33	233 78	41 11	2,646 2,635	183 112	40 41	207 165	430 318

2002.
R=Revised. E=Estimate. (s)=Less than 500 million cubic feet.
Notes: • See Note 9 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: http://www.eia.doe.gov/emeu/mer/natgas.html.
Sources: • 1973-1987: Energy Information Administration (EIA), Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas."
• 1988-1998: EIA, Natural Gas Annual, annual reports. • 1999 forward: EIA, Natural Gas Monthly, October 2004, Tables 5 and 6; and Department of Energy, Office of Fossil Energy, "Natural Gas Imports and Exports."

 ^a As liquefied natural gas.
 ^b By pipeline, except for very small amounts of liquefied natural gas imported from Canada in 1973, 1977, and 1981 and exported to Mexico beginning in 1998. See Note 9 at end of section.
 ^c Indonesia 1986 and 2000; the United Arab Emirates 1996-2000; Malaysia 1999 and 2002-2004; Nigeria 2000 forward; Oman 2000 forward; and Brunei 2002

Table 4.4 Natural Gas Consumption by Sector

		ibic i eet	•		End-Use	Sectors						
					Industrial			Trai	nsportatio	n		
	D				Other Industr	ial		Pipelinesd			Electric	
	Resi- dential	Com- mercial ^a	Lease and Plant Fuel	CHPb	Non-CHP ^c	Total	Total	and Dis- tribution ^e	Vehicle Fuel	Total	Power Sector ^{f,g}	Total
1973 Total 1974 Total 1975 Total 1976 Total 1976 Total 1977 Total 1977 Total 1978 Total 1980 Total 1981 Total 1982 Total 1983 Total 1984 Total 1985 Total 1985 Total 1986 Total 1987 Total 1987 Total 1998 Total 1998 Total 1998 Total 1999 Total 1999 Total 1991 Total 1992 Total 1993 Total 1994 Total 1995 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 1999 Total 1998 Total 1999 Total 2000 Total 2001 Total	4,879 4,786 4,924 4,821 4,903 4,965 4,752 4,546 4,633 4,381 4,543 4,314 4,314 4,315 4,314 4,314 4,315 4,690 4,996 4,996 4,771	2,597 2,556 2,508 2,668 2,501 2,601 2,786 2,611 2,520 2,606 2,433 2,524 2,318 2,432 2,318 2,670 2,718 2,623 2,729 2,803 2,862 2,895 3,031 3,158 3,215 2,999 3,045 3,182 3,023	1,496 1,477 1,396 1,634 1,659 1,648 1,499 1,026 928 1,109 978 1,077 966 923 1,149 1,070 1,236 1,129 1,171 1,172 1,124 1,220 1,250 1,203 1,179 1,151 1,119	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	8,689 8,292 6,968 6,968 6,757 6,899 7,172 7,128 5,831 5,643 6,154 5,901 5,979 5,953 6,383 5,903 6,420 6,613 6,906 7,1229 6,965 6,757 6,035	8,689 8,292 6,968 6,964 6,815 6,757 6,899 7,172 7,123 5,643 6,154 5,579 5,953 6,383 6,383 1,7,231 1,7,527 7,790 8,164 8,511 8,320 8,142 7,344	10,185 9,769 8,365 8,598 8,474 8,405 8,398 8,055 6,941 6,621 7,231 6,867 6,502 7,479 7,886 8,255 8,360 8,698 8,872 8,913 9,685 9,714 9,493 9,158 9,293 8,463	728 669 583 548 533 530 601 635 642 596 490 529 6614 629 660 685 700 711 751 635 642 642 645	NAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	728 669 583 548 533 530 601 635 642 596 490 529 6614 629 6602 590 627 689 705 718 760 645 657 655 640	3,660 3,443 3,158 3,081 3,191 3,188 3,640 3,226 2,911 3,111 3,044 2,602 2,844 2,636 9,3,105 13,245 13,316 13,348 3,448 3	22,049 21,223 19,538 19,946 19,521 19,627 20,241 19,877 19,404 18,001 16,835 17,951 17,281 16,221 17,281 18,030 19,119 19,119 19,119 19,562 20,228 20,737 22,246 22,737 22,246 22,737 22,246 22,737 22,246 22,3333 22,239
Pebruary February March April May June July August September October November December Total	816 713 661 415 255 160 125 116 124 251 483 771 4,890	430 397 369 264 190 144 133 139 195 295 414 3,103	96 86 96 92 95 92 95 94 89 92 92 95 1,114	114 100 107 97 107 102 111 108 101 97 97 98 1,240	577 535 553 552 507 495 499 506 476 517 535 564 6,316	691 635 660 649 614 597 610 614 577 615 632 662 7,557	786 721 756 742 709 689 705 708 666 706 725 758 8,671	73 66 66 54 46 46 50 44 47 55 69 667	E 1 E 1 E 1 1 E 1 1 E 1 1 E 1 1 E 1 5	74 67 67 56 47 47 52 51 45 49 57 71 682	381 344 407 404 410 551 734 718 569 442 352 360 5,672	2,488 2,243 2,260 1,881 1,612 1,591 1,749 1,725 1,543 1,643 1,911 2,373 23,018
2003 January		R 509 476 381 256 177 R 134 R 129 127 133 R 178 R 250 R 388 3,138	E 96 E 87 E 93 E 93 E 95 E 94 E 94 E 94 E 91 E 91 E 91	106 93 98 87 85 93 99 104 83 98 95 98 1,138	571 540 506 478 464 409 469 467 472 492 492 534 5,894	677 633 604 565 549 502 568 571 555 590 587 632 R 7,032	773 720 702 658 644 594 662 666 647 684 677 727 8,153	78 72 63 50 43 39 46 47 40 44 50 65	E 1 1 E E 1 1 E E E E E E E E E E E E E	79 73 64 51 45 40 47 48 41 46 51 67 652	367 329 353 333 381 411 609 654 434 391 338 329 4,930	2,675 2,486 2,178 1,774 1,497 1,574 1,611 1,384 R 1,531 R 1,731 R 2,253 R 21,969
February February March April May June July August 8-Month Total	968 860 594 384 214 145 R 126 119 3,410	R 492 R 462 R 345 R 245 R 166 133 123 2,090	E 96 E 89 E 95 E 91 RE 93 RE 90 E 94 E 94	89 92 91 90 104 97 106 107 778	R 587 R 548 R 530 R 487 453 R 453 R 452 463 3,972	R 676 R 640 R 621 R 578 R 557 550 R 557 570 4,750	R 771 R 729 R 716 R 669 650 R 640 R 652 664 5,492	77 72 60 50 44 42 R 45 45	E 1 E 1 E 1 E 1 E 1 E 1 E 1	E 78 E 73 E 61 E 51 E 46 E 43 E 46 E 46	342 356 355 369 456 486 601 589 3,554	2,652 R 2,479 R 2,072 R 1,719 R 1,532 R 1,446 R 1,548 1,541 14,990
2003 8-Month Total 2002 8-Month Total	3,580 3,261	2,189 2,061	E 749 746	765 846	3,904 4,224	4,669 5,070	5,418 5,816	437 451	E 10 E 10	447 461	3,437 3,949	15,071 15,548

^a All commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See note at end of Section 7. See Table 7.3c for CHP fuel use.

^b Industrial combined-heat-and-power (CHP) and a small number of industrial electrity-only plants. See note at end of Section 7.

^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.

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

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

^g Through 1988, data are for consumption at electric utilities only. Beginning in

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

ⁿ 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 5 at end of section.

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

R=Revised. E=Esumate. Political additional (a), feet.

Notes: • Data are for natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/natgas.html.

Sources: See end of section.

Table 4.5 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	U	Natural Gas in nderground Storage End of Period	е,	Change in W From Sam Previou	ne Period	S	torage Activity	
	Base Gas	Working Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,c}
973 Total	2,864	2,034	4,898	305	17.6	1,533	1,974	-442
974 Total	2,912	2,050	4,962	16	.8	1,701	1,784	-84
975 Total	3,162	2,212	5,374	162	7.9	1,760	2,104	-344
976 Total	3,323	1,926	5,250	-286	-12.9	1,921	1,756	165
977 Total	3,391	2,475	5,866	549	28.5	1,750	2,307	-557
978 Total	3,473	2,547	6,020	72	2.9	2,158	2,278	-120
979 Total	3,553	2,753	6,306	207	8.1	2,047	2,295	-248
980 Total	3,642	2,655	6,297	-99	-3.6	1,910	1,896	14
981 Total	3,752	2,817	6,569	162	6.1	1,887	2,180	-293
982 Total	3,808	3,071	6,879	255	9.0	2,094	2,399	-305
983 Total	3,847	2,595	6,442	-476	-15.5	2,142	1,700	442
984 Total	3,830	2,876	6,706	281	10.8	2,064	2,252	-188
985 Total	3,842	2,607	6,448	-270	-9.4	2,359	2,128	231
986 Total	3,819	2,749	6,567	142	5.5	1,812	1,952	-140
987 Total	3,792	2,756	6,548	7	.3	1,881	1,887	-6
988 Total	3,800	2,850	6,650	94	3.4	2,244	2,174	69
989 Total	3,812	2,513	6,325	-337	-11.8	2,804	2,491	313
990 Total	3,868	3,068	6,936	555	22.1	1,934	2,433	-499
991 Total	3,954	2,824	6,778	-244	-8.0	2,689	2,608	80
992 Total	4,044	2,597	6,641	-227	-8.0	2,724	2,555	168
993 Total	4,327	2,322	6,649	-275	-10.6	2,717	2,760	-43
994 Total	4,360	2,606	6,966	284	12.2	2,508	2,796	-288
995 Total	4,349	2,153	6,503	-453 40	-17.4	2,974	2,566	408
996 Total	4,341	2,173	6,513	19	.9	2,911	2,906	6
997 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24
998 Total	4,326	2,730	7,056	554 -207	25.5	2,379	2,905	-526
999 Total	4,383	2,523	6,906	-207 -806	-7.6	2,772	2,598	174 814
000 Total 001 Total	4,352 4,301	1,719 2,904	6,071 7,204	1,185	-31.9 68.9	3,498 2,309	2,684 3,464	-1,156
	.,	_,	.,	.,	33.0	_,000	0,	.,
002 January	4,313	2,344	6,657	1,078	85.2	606	59	546
February	4,356	1,838	6,194	925	101.4	520	55	464
March	4,355	1,518	5,873	776	104.7	428	108	320
April	4,355	1,659	6,014	666	67.1	112	238	-126
May	4,361	1,968	6,329	528	36.7	60	381	-322
June	4,355	2,308	6,663	426	22.6	56	397	-341
July	4,358	2,539	6,896	278	12.3	101	343	-242
August	4,357	2,773	7,130	198	7.7	90	325	-236
September	4,342	3,042	7,384	97	3.3	71	340	-269
October	4,342	3,116	7,458	-28	9	145	232	-87
November	4,344	2,929	7,273	-325	-10.0	322	124	198
December	4,340	2,375	6,715	-528	-18.2	627	66	560
Total	4,340	2,375	6,715	-528	-18.2	3,138	2,670	468
003 January	4,342	1,534	5,876	-810	-34.5	886	44	841
February	4,334	864	5,198	-974	-53.0	723	48	676
March	4,324	730	5,054	-788	-51.9	305	169	136
April	4,315	896	5,211	-763	-46.0	118	277	-158
May	4,322	1,300	5,622	-668	-33.9	41	453	-412
June	4,323	1,768	6,091	-540	-23.4	36	506	-470
July	4,323	2,129	6,451	-410	-16.1	64	426	-361
August	4,324	2,435	6,760	-338	-12.2	62	371	-309
September	4,328	2,843	7,171	-199	-6.5	31	441	-411
October	4,327	3,130	7,457	14	.5	59	343	-284
November	4,305	3,038	7,343	110	3.7	228	142	86
December	4,305	2,565	6,869	189	8.0	543	70	473
Total	4,305	2,565	6,869	189	8.0	3,095	3,288	-193
								_
004 January	4,301	1,751	6,052	217	14.1	869	59	811
February	4,297	1,156	5,452	292	33.8	646	47	600
March	4,283	1,058	5,342	328	45.0	269	165	103
April	4,283	1,252	5,535	357	39.8	95	293	-198
May	4,287	1,624	5,911	323	24.9	43	421	-379
June	4,284	2,023	6,307	255	14.4	31	428	-397
July	4,287	2,395	6,681	266	12.5	56	422	-366
August	4,262	2,743	7,005	307	12.6	57	402	-345
8-Month Total	-	-	-	-	_	2,066	2,237	-171
003 8-Month Total	_	_	_	_	_	2,234	2,292	-58
						_,		

 ^a For total underground storage capacity at the end of each calendar year, see Note 8 at end of section.
 ^b For 1980-2002, data differ from those shown on Table 4.1, which include

Por 1980-2002, data differ from those shown on Table 4.1, which include liquefied natural gas storage for that period.

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 2 at end of section.

- =Not applicable.

Notes:

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

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

Web Page: http://www.eia.doe.gov/emeu/mer/natgas.html.

Natural Gas

Note 1. Supplemental Gaseous Fuels: Any gaseous substance that, introduced into or commingled with natural gas, increases 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, or air or inert gases added for Btu stabilization.

Annual data beginning with 1980 are from the Energy Information Administration (EIA) *Natural Gas Annual (NGA)*. Unknown quantities of supplemental gaseous fuels are included in consumption data for 1979 and earlier years.

Monthly data are considered preliminary until after 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.

Note 2. Storage: 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 at the end of each calendar year since 1975 (first year data were available), in billion cubic feet, was:

1975 6,280	1985 8,087	1995 7,953
1976 6,544	1986 8,145	1996 7,980
1977 6,678	1987 8,124	1997 8,332
1978 6,890	1988 8,124	1998 8,179
1979 6,929	1989 8,124	1999 8,229
1980 7,434	1990 8,125	2000 8,241
1981 7,805	1991 7,993	2001 8,415
1982 7,915	1992 7,932	2002 8,207
1983 7,985	1993 7,989	
1984 8,043	1994 8,043	

Monthly underground storage data are collected from the Federal Energy Regulatory Commission (FERC) 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 1980–2001 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 3. 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 which 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 Energy Information Administration (EIA) *Natural Gas Monthly NGM*, which was published in July 1985.

Note 4. Consumption: Consumption includes pipeline fuel use, lease and plant fuel use, and deliveries to consuming sectors.

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 5. 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 6. Nonhydrocarbon Gases Removed: Annual data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are from the EIA *NGA*. Data are not available prior to 1980. Monthly data are reported by three States and computed for six States. Monthly data are preliminary until after publication of the EIA *NGA*. Differences between annual data published in the EIA *NGA* and the sum of the preliminary monthly data (January–December) are allocated proportionally to the months to create final monthly data.

For further information on methods of estimating preliminary monthly data, see the EIA *NGM*.

Note 7. Production.

Annual data—Final annual data are from the EIA NGA.

Estimated monthly data—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 *NGM*.

Preliminary monthly data—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*.

Final monthly data—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 8. 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 9. 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, Indonesia, Nigeria, Oman, Qatar, Trinidad and Tobago, and the United Arab Emirates. 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 Japan. 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*.

Table 4.4 Sources

Residential, Commercial, Lease and Plant Fuel, and Pipeline Fuel

1973–1998: Energy Information Administration (EIA), *Natural Gas Annual 2000*, Table 95.

1999 forward: EIA, *Natural Gas Monthly*, October 2004, Table 3.

Other Industrial Total

1973–1992: EIA, *Natural Gas Annual 2000*, Table 95. 1993–1998: EIA, Form EIA-857, "Monthly Report of Natural Gas Purchases and Deliveries to Consumers." 1999 forward: EIA, *Natural Gas Monthly*, October 2004, Table 3.

Other Industrial CHP

Table 7.3c.

Electric Power Sector

1973–1988: Table 7.3e. 1989 forward: Table 7.3b.

Vehicle Fuel

Annual Data:

1990 and 1991: EIA, *Natural Gas Annual 2000*, Table 95. 1992–1995: Science Applications International Corporation, "Alternative Transportation Fuels and Vehicles Data Development," unpublished final report prepared for EIA (McLean, VA, July 1996) and U.S. Department of Energy, Office of Energy Efficiency and Renewable Energy.

1996–2003: EIA, Office of Coal, Nuclear, Electric, and Alternative Fuels.

Monthly Estimates: Derived by dividing the annual value by the number of days in the year and then multiplying by the number of days in the month.

All Other Series: Calculated.

Table 4.5 Sources

Storage Activity

1973–1975: Energy Information Administration (EIA) *Natural Gas Annual 1994, Volume 2*, Table 9.

1976–1979: EIA, Natural Gas Production and Consumption 1979, Table 1.

1980–1995: EIA, *Historical Natural Gas Annual 1930 Through* 2000, Table 11.

1996–1998: EIA, *Natural Gas Monthly*, February 2003, Table 9. 1999 forward: EIA, *Natural Gas Monthly*, October 2004, Table 9.

Other Data

1973 and 1974: American Gas Association (AGA), *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-O, "Underground Gas Storage Report," and Federal Power Commission (FPC), Form FPC-8, "Underground Gas Storage Report."

1977 and 1978: EIA, Form FEA-G-318-M-O, "Underground Gas Storage Report," and Federal Energy

Regulatory Commission (FERC), Form FERC-8, "Underground Gas Storage Report."

1979–1995: EIA, Form EIA-191, "Underground Gas Storage Report," and FERC, Form FERC-8, "Underground Gas Storage Report."

1996–2000: EIA, *Natural Gas Monthly*, February 2002, Table 9.

2001: EIA, *Natural Gas Monthly*, February 2004, Table 9. 2002 forward: EIA, *Natural Gas Monthly*, October 2004, Table 9.

Section 5. Crude Oil and Natural Gas Resource Development

The October 2004 rotary rig count was 1,240, the same as the count in September 2004 but 13 percent higher than the count in October 2003. Of the total number of rigs in operation, 1,145 were onshore and 95 were offshore. For October 2004, the number of onshore rigs was up 15 percent but the number of offshore rigs was down 10 percent from the October 2003 count. Rotary rigs drilling for natural gas as a share of total rigs stood at 86 percent in October 2004.

Total footage drilled in September 2004 was 16.0 million feet, 6 percent lower than the footage drilled in Auguat 2004 but up 1 percent from that drilled in September 2003.

The number of exploratory and development crude oil and natural gas wells drilled during September 2004 was 2,400, down 6 percent from the number drilled in August

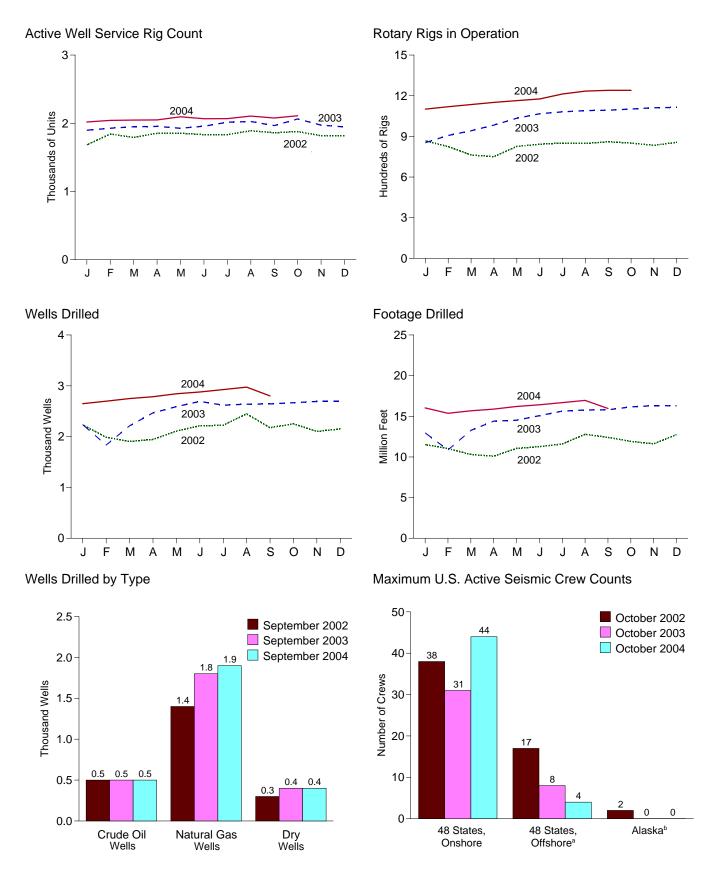
2004 but up 6 percent from the number drilled in September 2003. The number of crude oil wells drilled was 471, and the number of natural gas wells was 1,929, 2 percent higher and 8 percent higher, respectively, than their September 2003 levels.

The number of dry holes drilled in September 2004 was 401, down 6 percent from the number drilled in August 2004 but up 4 percent from the number drilled in September 2003.

There were 2.1 thousand well service rigs active in October 2004, 2 percent higher than both the previous month and the count a year ago.

The number of seismic crews active in the 48 States onshore in October 2004 was 44, 13 more than a year earlier. The number of crews active in the 48 States offshore was 4, 4 fewer than a year earlier. No crews were active in Alaska in October 2004, the same as a year ago.

Figure 5.1 Crude Oil and Natural Gas Resource Development Indicators



^aFederal and State Jurisdiction waters of Gulf of Mexico. ^bAll onshore.

Web Page: http://www.eia.doe.gov/emeu/mer/resource.html. Sources: Tables 5.1-5.3.

Table 5.1 Crude Oil and Natural Gas Drilling Activity Measurements

	T						
		Rota	ary Rigs in Opera	tion ^a	T	_	
	Onshore	Site Offshore	By Ob	jective Natural Gas	Total ^b	Total Footage Drilled ^c	Active Well Service Rig Count ^d
			Average	11414141		Thousand Feet	Number
1973 Average	. 1,110	84	NA	NA	1,194	138,223	NA
1974 Average		94	NA	NA	1,472	153,374	NA
1975 Average		106	NA	NA	1,660	180,494	NA
1976 Average	. 1,529	129	NA	NA	1,658	186,982	NA
1977 Average	. 1,834	167	NA	NA	2,001	215,866	NA
1978 Average		185	NA	NA	2,259	238,669	NA
1979 Average		207	NA	NA	2,177	244,798	NA
1980 Average	. 2,678 . 3,714	231 256	NA NA	NA NA	2,909 3,970	314,654 413,112	NA NA
I981 Average I982 Average	. 2,862	243	NA NA	NA NA	3,105	378,295	NA NA
1983 Average		199	NA NA	NA NA	2,232	317,986	NA NA
1984 Average		213	NA	NA	2,428	371,392	NA
1985 Average		206	NA	NA	1,980	313,045	NA
1986 Average		99	NA	NA	964	181,856	NA
1987 Average	. 841	95	NA	NA	936	162,178	NA
1988 Average		123	554	354	936	156,354	NA
1989 Average	. 764	105	453	401	869	134,439	NA
1990 Average	. 902	108	532	464	1,010	153,701	NA
1991 Average	. 779	81 52	482	351 331	860 731	143,021	NA NA
1992 Average 1993 Average		82 82	373 373	364	721 754	121,124 135,118	NA NA
1994 Average		102	335	427	775	124,809	NA NA
1995 Average		101	323	385	723	117,832	ŇÁ
1996 Average		108	306	464	779	129,045	NA
1997 Average		122	376	564	943	156,661	NA
1998 Average	. 703	123	264	560	827	143,454	NA
1999 Average		106	128	496	625	99,410	NA
2000 Average		140	197	720	918	141,392	NA
2001 Average	. 1,003	153	217	939	1,156	189,967	NA
2002 January	. 741	126	141	725	867	11,513	1,683
February		123	144	679	825	11,031	1,843
March		114	144	617	763	10,303	1,791
April		105	136	612	750	10,102	1,852
May		105	134	690	826	11,039	1,856
June		110	138	704	842	11,274	1,832
July		111	133	716	851	11,590	1,832
August		111 114	125 122	721 736	848 860	12,782 12,410	1,891 1,861
September October		111	140	709	851	11,907	1,878
November		109	146	683	834	11,612	1,817
December		114	137	714	856	12,747	1,821
Average		113	137	691	830	138,310	1,830
2003 January		111	132	718	854	12,962	1,898
February		110 105	153 171	750 767	907 941	10,866	1,928
March April		106	185	795	983	13,269 14,409	1,950 1,954
May		113	167	864	1,034	14,515	1,927
June		109	152	910	1,067	15,080	1,957
July		107	153	924	1,081	15,637	2,016
August	. 979	111	153	932	1,090	15,776	2,026
September		109	154	936	1,093	15,796	1,966
October		105	158	941	1,102	16,156	2,064
November		106	158	952	1,111	16,307	1,973
December		104	153	959 973	1,114	16,301	1,946
Average	. 924	108	157	872	1,032	177,074	1,967
2004 January	. 1,001	100	143	955	1.101	16,035	2,019
February		99	153	961	1,119	15,373	2,043
March	. 1,041	94	164	968	1,135	15,675	2,047
April	. 1,058	93	154	996	1,151	15,880	2,050
May	. 1,068	96	156	1,007	1,164	16,206	2,095
June		96	164	1,011	1,176	16,411	2,067
July		97	170	1,041	1,213	16,679	2,068
August		95 93	170 166	1,063	1,234	16,958 15,067	2,106
September October		92 95	166 171	1,073 1,068	1,240 1,240	15,967 NA	2,078 2,111
10-Month Average		95 96	161	1,068 1,016	1,240 1,179	NA NA	2,111 2,068
	,000			.,0.0	.,	1471	_,500
_							
2003 10-Month Average 2002 10-Month Average		108 113	157 135	855 690	1,016 827	144,466 113,951	1,969 1,832

^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

NA=Not available.

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 Values shown are totals.

^d See Glossary.

NA=Not available.
Note: Geographic coverage is the 50 States and the District of Columbia.
Web Page: http://www.eia.doe.gov/emeu/mer/resource.html.
Sources: • Rotary Rigs in Operation: By Site - Baker Hughes, Inc.,
Houston, Texas, Rotary Rigs Running--by State. By Type - Baker Hughes, Inc., Houston, Texas, weekly phone recording. • Total Footage Drilled: Energy Information Administration computations, which are based on well reports submitted to the American Petroleum Institute by the Petroleum Information Corporation, Denver, Colorado. • Active Well Service Rig Count: Weatherford International, Inc., Houston, Texas.

Table 5.2 Crude Oil and Natural Gas Wells Drilled

(Number of Wells)

		Explo	ratory			Develo	pment		Total				
	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	Crude Oil	Natural Gas	Dry	Total	
1973 Total	642	1,067	5,952	7,661	9,525	5,866	4,368	19,759	10,167	6,933	10,320	27,420	
1974 Total	859	1,190	6,833	8,882	12,788	5,948	5,283	24,019	13,647	7,138	12,116	32,901	
1975 Total	982	1,248	7,129	9,359	15,966	6,879	6,517	29,362	16,948	8,127	13,646	38,721	
1976 Total	1,086 1,164	1,346 1,548	6,772	9,204 9,995	16,602	8,063	6,986 7,702	31,651 35,857	17,688 18,745	9,409	13,758	40,855	
1977 Total 1978 Total	1,171	1,771	7,283 7,965	10,907	17,581 18,010	10,574 12,642	8,586	39,238	19,181	12,122 14,413	14,985 16,551	45,852 50,145	
1979 Total	1,321	1,907	7,437	10,665	19,530	13,347	8,662	41,539	20,851	15,254	16,099	52,204	
1980 Total	1,764	2,081	9,039	12,884	30,875	15,252	11,599	57,726	32,639	17,333	20,638	70,610	
1981 Total	2,636	2,514	12,349	17,499	40,962	17,652	15,440	74,054	43,598	20,166	27,789	91,553	
1982 Total	2,431	2,125	11,247	15,803	36,768	16,854	14,972	68,594	39,199	18,979	26,219	84,397	
1983 Total 1984 Total	2,023 2,198	1,593 1,521	10,148 11,278	13,764 14,997	35,097 40,407	12,971 15,606	14,005 14,403	62,073 70,416	37,120 42,605	14,564 17,127	24,153 25,681	75,837 85,413	
1985 Total	1,679	1,190	8,924	11,793	33,439	12,978	12,132	58,549	35,118	14,168	21,056	70,342	
1986 Total	1,084	793	5,549	7,426	18,013	7,723	7,129	32,865	19,097	8,516	12,678	40,291	
1987 Total	925	754	5,049	6,728	15,239	7,301	6,063	28,603	16,164	8,055	11,112	35,331	
1988 Total	855	743	4,693	6,291	12,781	7,812	5,348	25,941	13,636	8,555	10,041	32,232	
1989 Total	607	705	3,924	5,236	9,597	8,834	4,264	22,695	10,204	9,539	8,188	27,931	
1990 Total 1991 Total	654 592	689 534	3,715 3,314	5,058 4.440	11,544 11,178	10,355 8,992	4,598 4,282	26,497 24.452	12,198 11,770	11,044 9,526	8,313 7,596	31,555 28,892	
1992 Total	493	423	2,513	3,429	8,264	7,786	3,605	19,655	8,757	8,209	6,118	23,084	
1993 Total	502	548	2,469	3,519	7,905	9,469	3,859	21,233	8,407	10,017	6,328	24,752	
1994 Total	570	726	2,405	3,701	6,151	8,812	2,902	17,865	6,721	9,538	5,307	21,566	
1995 Total	542	570	2,198	3,310	7,085	7,784	2,877	17,746	7,627	8,354	5,075	21,056	
1996 Total	483	570 526	2,136	3,189	7,831	8,732	3,146	19,709	8,314	9,302	5,282	22,898	
1997 Total 1998 Total	428 291	536 504	2,110 1,647	3,074 2,442	10,008 6,773	10,791 10,640	3,592 3,193	24,391 20.606	10,436 7,064	11,327 11,144	5,702 4,840	27,465 23.048	
1999 Total	157	539	1,195	1,891	4,019	10,338	2,217	16,574	4,176	10,877	3,412	18,465	
2000 Total	264	602	1,288	2,154	7,094	15,853	2,737	25,684	7,358	16,455	4,025	27,838	
2001 Total	322	988	1,669	2,979	7,738	21,095	2,415	31,248	8,060	22,083	4,084	34,227	
2002 January	15	60	108	183	513	1,328	207	2,048	528	1,388	315	2,231	
February	16	72	103	191	418	1,231	148	1,797	434	1,303	251	1,988	
March	19 29	62 39	96 94	177 162	416 459	1,126 1,142	185 182	1,727 1,783	435 488	1,188 1,181	281 276	1,904 1,945	
April May	24	48	103	175	447	1,142	199	1,783	471	1,335	302	2,108	
June	18	49	86	153	529	1,310	222	2,061	547	1,359	308	2,214	
July	22	45	97	164	522	1,323	214	2,059	544	1,368	311	2,223	
August	14	59	105	178	540	1,530	200	2,270	554	1,589	305	2,448	
September	18	61	106	185	440	1,349	203	1,992	458	1,410	309	2,177	
October November	13 23	58 56	123 97	194 176	572 516	1,300 1,252	186 158	2,058 1,926	585 539	1,358 1,308	309 255	2,252 2,102	
December	20	50 50	122	192	455	1,318	187	1,960	475	1,368	309	2,152	
Total	231	659	1,240	2,130	5,827	15,496	2,291	23,614	6,058	16,155	3,531	25,744	
	22	49	106	178	E20		202	2.056	551	1 275	308	2.224	
2003 January February	23 27	35	68	170	528 434	1,326 1,113	157	2,056 1,704	461	1,375 1.148	225	2,234 1,834	
March	22	46	68	136	493	1,423	160	2,076	515	1,469	228	2,212	
April	21	65	92	178	621	1,458	211	2,290	642	1,523	303	2,468	
May	22	53	91	166	627	1,601	197	2,425	649	1,654	288	2,591	
June	35	53	98	186	632	1,690	184	2,506	667	1,743	282	2,692	
July	17 17	76 77	133 134	226 228	444 444	1,694 1,708	255 257	2,393 2,409	461 461	1,770 1,785	388 391	2,619 2,637	
August September	17	77	134	225	444	1,706	257 256	2,409	464	1,763	387	2,637	
October	18	78	132	228	458	1,724	258	2,440	476	1,802	390	2,668	
November	18	78	134	230	458	1,745	260	2,463	476	1,823	394	2,693	
December	17	_79	134	230	444	1,758	260	2,462	461	1,837	394	2,692	
Total	254	766	1,321	2,341	6,030	18,956	2,657	27,643	6,284	19,722	3,978	29,984	
2004 January	16	79	132	227	415	1,750	256	2,421	431	1,829	388	2,648	
February	17	79	134	230	444	1,762	261	2,467	461 404	1,841	395	2,697	
March April	21 17	80 82	136 138	237 237	473 453	1,774 1,826	266 270	2,513 2,549	494 470	1,854 1,908	402 408	2,750 2,786	
May	20	81	137	237	433 487	1,848	270	2,549	507	1,908	408	2,766	
June	20	81	139	240	511	1,855	273	2,639	531	1,936	412	2,879	
July	20	83	141	244	493	1,911	278	2,682	513	1,994	419	2,926	
August	20	85	144	249	493	1,951	282	2,726	513	2,036	426	2,975	
September 9-Month Total	18 169	81 731	135 1,236	234 2,136	453 4,222	1,848 16,525	266 2,422	2,567 23,169	471 4,391	1,929 17,256	401 3,658	2,801 25,305	
			•	•					•				
2003 9-Month Total 2002 9-Month Total	201 175	531 495	921 898	1,653 1,568	4,670 4,284	13,729 11,626	1,879 1,760	20,278 17,670	4,871 4,459	14,260 12,121	2,800	21,931 19,238	

Notes: • These well counts include only the original drilling of a hole Notes: • Inese well counts include only the original drilling of a note 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. 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 notes at end of section. • Geographic coverage is the 50 States

revised. See notes at end of section. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/resource.html.
Sources: • 1973-1994: Energy Information Administration (EIA), computations based on well reports submitted to the American Petroleum Institute. • 1995 forward: EIA computations based on well reports submitted to the Information Handling Services Energy Group, Inc.

Table 5.2 has not been updated this month.

Table 5.3 Maximum U.S. Active Seismic Crew Counts

(Number of Crews)

	48 States, Onshore				48 States, Offshore ^a					Alas	ka ^b		ı
	Di	Dimensions ^c		Dimensions ^c			Dimensions ^c						
	2	3	4	Totald	2	3	4	Totald	2	3	4	Totald	Tota
000 March	4	36	1	41	7	11	0	19	1	1	0	2	62
April	4	36	1	41	7	11	0	19	1	2	0	3	63
May	3	34	1	38	6	11	0	18	1	2	0	3	59
June	5	37	1	43	7	9	0	17	1	2	0	3	63
July August	4 4	39 40	1 1	44 45	6 7	6 7	0 0	13 15	0 0	1 1	0 0	1 1	58 61
September	3	39	i	43	7	8	0	16	0	Ó	0	0	59
October	4	41	1	46	7	9	0	17	Ō	Ō	0	0	63
November	4	40	1	46	7	8	0	16	0	0	0	0	62
December	5	41	1	48	8	8	0	17	0	0	0	0	65
001 January	5	38	1	44	9	7	0	17	0	0	0	0	61
February	6 6	38 38	1	45 45	8 9	7 9	0 0	16 18	0 0	0 0	0	0 0	61
March April	6 7	38 39	1 1	45 47	9	9	0	18	0	0	0	0	63 65
May	7	37	1	45	9	8	0	17	1	1	0	2	64
June	6	35	1	42	9	7	Ö	16	1	1	ŏ	2	60
July	6	35	1	42	8	8	0	16	0	0	0	0	58
August	8	32	1	41	7	8	0	15	0	0	0	0	56
September	8	30	1	39	6	9	0	15	0	0	0	0	54
October	5 7	33 34	1	39 42	9 7	10 10	0	19 17	0	0	0	0	58 59
November December	7	33	1	42	8	9	0	17	0	0	0	0	58
D02 January February	6 9	32 31	0 0	38 40	8 9	6 6	0 0	14 15	1 1	1 1	0 0	2 2	54 57
March	9	26	0	35	10	7	0	17	i	1	0	2	54
April	7	25	Ö	32	9	7	ő	16	i	i	ő	2	50
May	8	24	Ö	32	9	8	Ö	17	1	1	Ö	2	51
June	9	23	0	32	9	7	0	16	1	1	0	2	50
July	8	26	0	34	8	8	0	16	1	1	0	2	52
August	7	26	0	33	8	7	0	15	1	1	0	2	50
September October	9	28 30	0	37 38	10 10	7 7	0	17 17	1	1 1	0	2 2	56 57
November	8	27	0	35	8	5	0	13	1	1	0	2	50
December	8	22	ő	31	7	4	ŏ	11	i	Ö	ő	1	43
003 January	8	19	1	28	8	4	0	12	0	0	0	0	40
February	9	20	Ö	29	8	4	Õ	12	Õ	Õ	Õ	ŏ	41
March	8	20	0	28	7	4	0	11	1	1	0	2	41
April	7	20	0	27	7	4	0	11	1	1	0	2	40
May	7	17	0	24	8	4	0	12	1	1	0	2	38
June	7	18	0	25	8	4	0	12	1	1	0	2	39
July August	7 8	21 22	0 0	28 30	7 7	4 4	0	11 11	1 1	1 1	0 0	2	41 43
September	8	22	0	30	7	2	0	9	0	0	0	0	39
October	7	24	0	31	5	3	0	8	Ö	0	0	ő	39
November	7	24	0	31	4	3	0	7	0	0	0	0	38
December	7	25	0	32	5	5	0	10	0	0	0	0	42
004 January	8	25	0	33	5	5	0	10	0	0	0	0	43
February	8	27	0	35	5	5	0	10	0	0	0	0	45
March	8 9	27 27	0 0	35 36	5 5	5 4	0 0	10 9	0	0	0	0 0	45 45
April May	9	26	0	36 35	5 5	4	0	9	0	0	0	0	45 44
June	9	30	0	39	4	4	0	8	0	2	0	2	49
July	8	30	Ö	38	4	4	Ö	8	0	2	ő	2	48
August	8	31	ő	39	4	4	Ö	8	Ö	2	Ö	2	49
September	8	32	0	40	4	2	0	6	0	2	Ö	2	48
October	8	36	0	44	2	2	0	4	0	0	0	0	48

^a Federal and State Jurisdiction waters of the Gulf of Mexico.

nearby offline features that 2D surveys are prone to (except, of course, along the outer faces of the cube). Four dimensional (4D) reflection seismic surveying is the exact repetition of a 3D survey at two or more time intervals. The primary application of 4D is mapping the movement of fluid interfaces in producing oil and gas reservoirs.

d Includes crews with unknown survey dimension.

Notes: • A "seismic crew" is a group of people, of varying number, engaged in a seismic surveying job. • "48 States" is the United States excluding Alaska and Hawaii. • Data are reported on the first and fifteenth of each month, except January when they are reported only on the fifteenth. When semi-monthly values differ for the month, the larger of the two values is shown here. Consequently this table reflects the maximum number of crews at work at any time during the month.

Web Page: http://www.eia.doe.gov/emeu/mer/resource.html.

Source: World Geophysical News, IHS Energy Group, Denver, CO. used with permission.

b All onshore.

^c In **two-dimensional** (2D) reflection seismic surveying both the sound source and the sound detectors (numbering up to a hundred or more per shot) are moved along a straight line. The resultant product can be thought of as a vertical sonic cross-section of the subsurface beneath the survey line. It is constructed by summing many compressional (pressure) wave reflections from the various sound source and sound detector locations at the halfway sound path points beneath each location (common depth point stacking). In three-dimensional (3D) reflection seismic surveying the sound detectors (numbering up to a thousand or more) are spread out over an area and the sound source is moved from location to location through the area. The resultant product can be thought of as a cube of common depth point stacked reflections. Advantages over 2D include the additional dimension, the fact that many more reflections are available for stacking at each point, which provides greatly improved resolution of subsurface features, and elimination of the "ghost" or "side swipe" reflections from

Crude Oil and Natural Gas Resource Development

Table 5.2 Notes

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.

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 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," the feature article published in the March 1985 *MER*.

Users of the well completion and footage figures published by the Energy Information Administration (EIA) prior to August 1998 should be aware that these data have been revised. The published well completion and footage figures are produced by the Well Completion Estimation Procedure (WELCOM) based on drilling records provided under contract to the EIA. Problems in the files received by EIA necessitated revision of the historical series for well completions and footage drilled. Queries regarding this matter may be directed to William Trapmann (202-586-6408 or william.trapmann@eia.doe.gov).

Section 6. Coal

Coal production in October 2004 totaled 93 million short tons, 1 percent lower than in October 2003.

Coal consumed by the electric power sector in August 2004 was 92 million short tons, 3 percent lower than the level in August 2003.

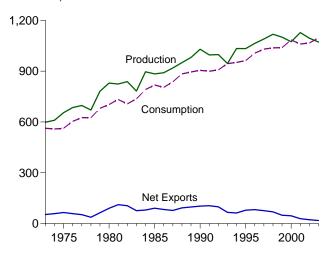
Electric power sector coal stocks were 109 million short tons

at the end of August 2004, 13 percent lower than the level a year earlier.

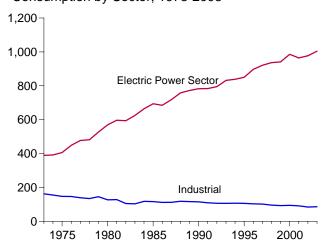
Coal exports in August 2004 totaled 4 million short tons, 2 percent lower than exports in August 2003. Coal imports in August 2004 totaled 2 million short tons, 17 percent higher than imports in September 2003.

Figure 6.1 Coal (Million Short Tons)

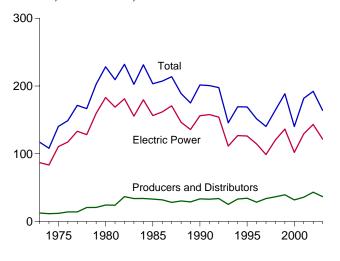
Overview, 1973-2003



Consumption by Sector, 1973-2003

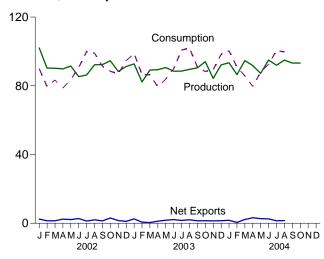


Stocks, End of Year, 1973-2003

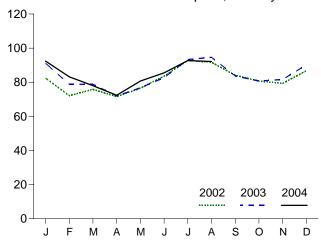


Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/coal.html. Sources: Tables 6.1, 6.2, and 6.3.

Overview, Monthly



Electric Power Sector Consumption, Monthly



Electric Power Sector Stocks, End of Month

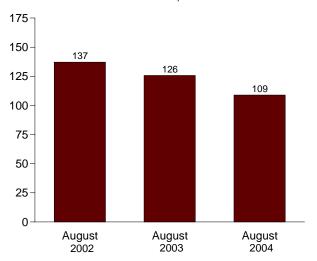


Table 6.1 Coal Overview

(Thousand Short Tons)

1777 Total		Production ^a	Waste Coal ^{b,c}	Imports	Exports	Stock Changed	Losses and Unaccounted for ^e	Consumption
1974 Total	973 Total	598.568	NA	127	53.587	(f)	9 -17-476	562.584
1975 Total	974 Total					-8,918		
1977 Total 697,205 NA 1,647 54,312 22,644 3,395 625,291 1978 Total 671,164 NA 2,953 60,714 4,938 60,724 605,225 1978 Total 732,775 NA 1,043 1,043 1,125,41 1,043 1,044 1,045 1,044 1,045 1,044 1,045 1,04	975 Total							
1978 Total	976 Total		NA		60,021	8,508		603,790
1979 Total								
1980 Total								
1981 Total								
1982 Total	1980 Total							
983 Total 782,091 NA 1,271 77,772 29,453 1,629 736,672 981 Total 885,521 NA 1,286 81,483 28,716 4,288 791,226 985 Total 883,538 NA 1,3552 9,588 27,934 2,796 818,049 985 Total 883,538 NA 1,3552 9,588 27,334 2,796 818,049 985 Total 980,273 NA 1,271 78,588 791,276 818,049 985 Total 980,273 NA 1,271 78,588 781 1,176 818,049 98,045 NA 1,271 78,588 781 1,176 818,049 98,045 NA 1,271 78,588 781 1,176 818,049 98,045 NA 1,271 78,045 NA								
984 Total 885,521 NA 1,286 81,483 28,716 4,286 791,296 985 Total 883,358 NA 1,952 92,680 27,934 27,96 818,049 986 Total 893,315 NA 2,217 8,3518 3,531 1,175 804,231 987 Total 916,765 NA 2,134 85,718 3,531 1,175 804,231 989 Total 990,729 1,407 2,851 100,815 13,744 2,916 85,000 990 Total 10,20,776 3,339 2,851 100,815 13,744 2,916 895,000 991 Total 995,884 3,950 3,990 108,969 947 3,325 899,227 992 Total 995,884 3,950 3,990 108,969 947 3,325 899,227 992 Total 995,884 3,157 8,181 74,519 25,143 4,411 97,652 10,143 10,143 10,143 10,143 11,144 11,144	1982 Total							
985 Total	903 TOTAL							
986 Total	985 Total							
987 Total 918,762 NA 1,747 79,607 6,461 2,499 836,941 987 Total 990,265 NA 2,134 95,023 2-44,949 1-3,161 835,642 880 Total 990,729 1,407 2,851 100,815 26,449 1-3,161 835,049 800 Total 1,023,004 10,205 10,2	986 Total							804 231
988 Total 990,285 NA 2,134 95,023 -24,949 -1,316 883,642 980 Total 980,729 1,407 2,851 100,815 -13,744 2,916 885,000 980 Total 1,023,076 3,339 2,899 105,804 26,542 1,730 904,489 991 Total 95,546 3,950 3,350 106,804 26,542 1,730 904,489 991 Total 95,546 3,950 3,350 106,804 26,542 1,730 904,489 991 Total 95,546 3,950 3,950 106,804 26,542 1,730 904,489 991 Total 945,424 9,137 81,818 74,519 -51,943 4,916 94,081 994,081 1,033,504 8,227 8,870 71,359 23,617 4,340 951,266 995 Total 1,032,974 8,561 9,473 88,547 -275 632 992,104 995 Total 1,032,974 8,561 9,473 88,547 -275 632 992,104 995 Total 1,089,932 8,096 7,487 83,545 -11,253 3,678 1,141 1,006,321 997 Total 1,089,932 8,096 7,487 83,545 -11,253 3,678 1,029,544 995 Total 1,117,535 8,683 9,089 5,724 78,048 24,228 4,430 1,037,103 995 Total 1,100,435 8,883 9,089 58,476 23,889 -2,986 1,038,645 995 Total 1,100,435 8,883 9,089 58,476 23,889 -2,986 1,038,645 905 Total 1,107,555 8,680 9,089 58,476 82,3889 -2,986 1,038,645 905 Total 1,107,555 8,683 9,089 58,476 82,3889 -2,986 1,086,656 905 Total 1,027,689 (°) 15,787 48,666 44,630 2,966 1,086,656 905 Total 1,077,689 (°) 15,787 48,666 44,630 2,966 1,086,656 905 Total 1,077,789 (°) 15,787 48,666 44,630 2,966 1,086,656 905 Total 1,077,789 (°) 15,787 48,666 44,630 2,966 1,086,656 94,660 900								
989 Total 990,729 1,407 2,851 100,815 -13,744 2,916 895,000 990 Total 1,029,076 3,339 2,699 105,804 26,542 -1,730 904,498 991 Total 995,804 3,900 3,390 109,809 -947 3,925 899,227 91	988 Total							
990 Total 1,029,076 3,339 2,699 105,804 26,542 -1,730 904,498 991 Total 995,984 3,950 3,390 108,869 947 3,925 899,227 921 Total 997,545 6,287 3,803 108,869 947 3,925 899,227 921 Total 997,545 6,287 3,803 108,869 947 3,925 899,227 921 109,987,545 6,287 3,803 108,869 947 3,925 899,227 921 109,987,545 6,287 3,803 108,869 947 3,925 940,888 9,227 921 109,989 101 101 101 101 101 101 101 101 101 10								
991 Total 995,984 3,950 3,390 108,969 9-947 -3,925 899,227 992 Total 997,545 6,287 3,803 102,516 -2,997 461 907,655 993 Total 945,424 8,137 8,181 774,519 -3,1943 -4,916 944,081 1,032,504 8,668 9,475 71,359 23,617 4,340 951,280 941 1041 1,032,504 8,668 9,415 80,477 71,359 -21,775 1,040 944,081 987,041 1,032,504 8,668 9,415 80,477 71,359 -21,775 1,041 1,041 1,041 8,683 9,089 7,748 7,835 1,041 1,052,504 989 Total 1,175,555 8,690 8,724 78,048 24,228 -4,430 1,037,103 999 Total 1,175,555 8,690 8,724 78,048 24,228 -4,430 1,037,103 999 Total 1,170,431 8,683 9,089 58,476 23,988 -2,906 1,038,647 900 Total 1,073,612 9,089 12,513 58,489 -48,309 938 1,084,095 900 Total 1,073,612 9,089 12,513 58,489 -48,309 938 1,084,095 900 Total 1,073,612 9,089 12,513 58,489 -48,309 938 1,084,095 900 Total 1,073,612 9,089 12,513 58,489 -48,309 938 1,084,095 900 Total 1,073,612 9,089 12,513 58,489 -48,309 938 1,084,095 900 Total 1,073,612 9,089 12,513 58,489 -48,309 938 1,084,095 900 Total 1,073,612 9,089 12,513 58,489 -48,309 938 1,084,095 900 Total 1,073,612 9,089 12,513 58,489 -48,309 938 1,084,095 900 10 1,020,000 10 1								
992 Total 997,545 6,287 3,803 102,516 2,997 461 907,655 937 total 945,424 8,137 8,181 74,519 51,943 4,916 944,081 934 Total 1,033,504 8,227 8,870 71,359 25,817 4340 951,286 939 Total 1,033,504 8,227 8,870 71,359 2,3617 4340 951,286 939 Total 1,083,836 8,086 8,187 99,673 83,474 -2,587 632 8,298 1,482 939 Total 1,083,836 8,086 8,187 99,673 84,481 1,481 1,006,324 8,298 1,481 1,481 1,006,324 8,298 1,481	991 Total							
993 Total 945,424 8,137 8,181 74,519 51,943 4,916 944,081 994 Total 1,033,004 8,227 8,870 71,359 23,617 4,340 951,286 995 Total 1,032,974 8,561 9,473 88,547 -275 632 962,104 995 Total 1,063,356 8,778 8,115 90,473 -17,456 1,411 1,005,221 997 Total 1,083,352 8,096 7,487 83,545 -11,253 3,678 1,229,544 995 Total 1,107,353 8,680 7,487 83,545 -11,253 3,678 1,229,544 995 Total 1,107,353 8,680 8,724 78,048 24,228 4,430 1,337,103 1,395 Total 1,107,452 9,089 12,533 58,666 41,630 -2,966 1,338,647 007 Total 1,707,629 9,089 12,533 58,666 41,630 -2,966 1,338,647 007 Total 1,727,689 (°) 19,787 48,666 41,630 -2,966 1,660,146 007 January 102,056 (°) 1,339 2,749 1,572 3,829 83,395 April 88,949 (°) 1,222 2,630 5,364 3,370 79,569 March 90,206 (°) 1,339 2,749 1,572 3,829 83,395 April 88,949 (°) 1,222 2,630 5,364 11,722 2,938 78,688 May 91,478 (°) 1,227 3,330 1,103 4,681 83,658 June 85,341 (°) 1,227 3,330 1,103 4,681 83,658 June 86,326 (°) 1,555 3,529 49,241 457 99,012 September 92,368 (°) 1,555 3,529 49,241 457 99,012 September 92,368 (°) 1,558 2,284 1,1722 1,488 9,99,77 August 92,203 (°) 1,555 3,529 49,241 457 99,012 September 92,368 (°) 1,528 2,284 1,1728 1,431 91,305 (°) 1,663,55 1,663,55 1,664,55 1,	992 Total							
1944 Total	993 Total							
995 Total 1,032,974 8,561 9,473 88,547 275 632 962,104 996 Total 1,063,556 8,778 8,115 90,473 17,456 1,411 1,006,321 197 Total 1,089,932 8,096 7,487 83,545 11,253 3,678 1,229,544 198 Total 1,117,535 8,690 8,724 78,048 24,228 4,430 1,037,103 199 Total 1,100,431 8,683 9,089 58,476 23,988 2,006 1,038,647 100 Total 1,107,5612 9,089 12,513 58,489 43,09 936 1,080,146 101 Total 1,127,689 (°) 19,787 48,666 41,630 -2,966 1,080,146 101 Total 1,127,689 (°) 19,787 48,666 41,630 -2,966 1,080,146 101 Total 1,127,689 (°) 19,787 48,666 41,630 -2,966 1,080,146 101 January 102,056 (°) 1,439 3,873 4,081 5,537 90,004 102 January 102,056 (°) 1,439 3,873 4,081 5,537 90,004 103 January 102,056 (°) 1,339 2,749 1,572 3,329 83,395 103 January 104,78 (°) 1,222 2,630 5,584 3,970 79,569 103 March 90,206 (°) 1,339 2,749 1,572 3,329 83,395 104 88,949 (°) 1,208 3,584 11,722 -2,938 78,688 103 May 91,478 (°) 1,227 3,330 1,035 4,881 83,568 104 88,541 (°) 1,227 3,330 1,035 4,881 83,568 104 88,541 (°) 1,422 4,128 5,578 2,201 90,613 104 88,326 (°) 1,573 2,843 10,022 4,898 99,977 104 88,526 (°) 1,573 2,843 10,022 4,898 99,977 105 August 92,203 (°) 1,555 3,529 -9,241 457 99,012 105 September 92,388 (°) 1,526 2,884 1,726 1,431 91,305 105 Cotober 94,608 (°) 1,369 4,407 4,288 11,188 84,698 105 Desember 91,184 (°) 1,389 2,293 3,401 10,215 1,389 2,399 3,401 104 104 1,994,283 (°) 1,389 2,399 3,571 1,76 1,894,283 1,186,355 105 January 92,804 (°) 1,134 3,680 13,191 4,615 98,834 105 January 92,804 (°) 1,389 4,407 4,288 1,186 9,531 86,455 105 April 89,378 (°) 2,390 3,571 1,76 7,096 93,834 105 January 92,804 (°) 1,389 4,407 4,289 1,186 9,531 86,455 105 April 89,378 (°) 2,390 3,571 1,746 7,086 83,990 105 January 92,804 (°) 1,184 3,860 13,191 4,615 98,334 106 107 107 107 107 107 107 107 107 107 107	994 Total	1,033,504	8,227	8,870	71,359	23,617	4,340	951,286
997 Total 1,089,932 8,096 7,487 83,545 -11,253 3,678 1,029,544 998 Total 1,117,535 8,690 8,724 78,048 24,228 4,430 1,037,3099 Total 1,100,431 8,683 9,089 58,476 23,988 2,906 1,038,647 000 Total 1,073,612 9,089 12,513 58,489 48,309 938 1,084,990 101 Total 1,127,689 (°) 19,787 48,666 41,630 2,966 1,060,146 000 June 1,127,689 (°) 19,787 48,666 41,630 2,966 1,060,146 000 June 1,000 June								
998 Total 1,117,535 8,690 8,724 78,048 24,228 4,430 1,037,103 99 Total 1,100,431 8,683 9,089 58,476 23,988 -2,906 1,038,647 000 Total 1,073,612 9,089 12,513 58,489 48,309 938 1,084,095 000 Total 1,127,689 (°) 19,787 48,666 41,630 -2,966 1,060,146 1,000 1,127,689 (°) 19,787 48,666 41,630 -2,966 1,060,146 1,000 1,127,000 1,106,000 1,127								
999 Total 1,100,431 8,683 9,089 58,476 23,988 -2,906 1,038,647 001 Total 1,07,612 9,089 12,513 58,489 -48,309 38 1,084,095 001 Total 1,127,689 (°) 19,787 48,666 41,630 -2,966 1,060,146 002 January 102,056 (°) 1,09,787 48,666 41,630 -2,966 1,060,146 002 January 102,056 (°) 1,339 3,873 4,081 5,537 90,044 6,667 4,679 1,000,146 002 January 102,056 (°) 1,339 2,749 1,572 3,829 38,395 4,000 1,0								
000 Total 1,073,612 9,089 12,513 58,489 48,309 338 1,084,095 001 Total 1,127,689 (°) 19,787 48,666 41,630 -2,966 1,060,146 002 January 102,056 (°) 1,439 3,873 4,081 5,537 90,004 February 90,311 (°) 1,222 2,630 5,364 3,970 79,569 March 90,206 (°) 1,239 2,749 1,572 3,829 83,395 April 89,849 (°) 1,208 3,584 11,722 -2,938 78,688 June 85,341 (°) 1,227 3,330 1,035 4,681 83,658 June 85,341 (°) 1,422 4,128 -5,678 -2,301 90,613 July 86,326 (°) 1,555 3,529 -9,241 457 99,012 September 92,368 (°) 1,556 3,529 -9,241 457								
001 Total 1,127,689 (°) 19,787 48,666 41,630 -2,966 1,060,146 002 January 102,056 (°) 1,439 3,873 4,081 5,537 90,004 February 90,311 (°) 1,222 2,630 5,364 3,970 79,569 March 90,206 (°) 1,339 2,749 1,572 3,829 83,395 April 89,849 (°) 1,228 3,584 11,722 2,933 78,688 May 91,478 (°) 1,227 3,330 1,035 4,681 83,552 June 85,341 (°) 1,227 3,330 1,035 4,681 83,552 July 86,326 (°) 1,573 2,843 -1,002 4,888 99,977 August 92,203 (°) 1,555 3,529 9,241 457 99,012 September 92,368 (°) 1,526 2,884 -1,726 1,431 91,302 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
102 January 102 January 102 January 90 January Januar								
February 90.311	JU1 10tal	1,127,689	(°)	19,787	48,666	41,630	-2,966	1,060,146
March								
April 88 849 (c) 1208 3.584 11,722 2.938 78,688 May 91,478 (c) 1.227 3.330 1.035 4,681 83,658 May 91,478 (c) 1.227 3.330 1.035 4,681 83,658 June 85,341 (c) 1.422 4,128 5,678 2.301 90,613 July 86,326 (c) 1.573 2,843 -10,022 4,898 99,977 August 92,203 (c) 1.555 3,529 9,241 457 99,012 September 92,368 (c) 1.526 2,884 -1,726 1,431 91,305 Cotober 94,608 (c) 1.369 4,407 4,288 -1,186 88,469 November 88,352 (c) 1.393 2,930 5,490 5,690 87,016 December 91,184 (c) 1.602 2,712 3,330 7,905 94,648 Total 1,094,283 (c) 16,875 39,601 10,215 5,012 1,066,355 103 January 92,804 (c) 1.134 3,680 -13,191 4,615 98,834 February 82,264 (c) 1.134 3,680 -13,191 4,615 98,834 February 82,264 (c) 1.804 2,428 6,474 1,633 88,481 Mary 93,378 (c) 2,017 2,410 11,818 9,531 88,455 April 89,378 (c) 2,390 3,571 1,746 7,086 79,364 May 90,610 (c) 2,390 3,571 1,746 7,086 79,364 May 90,610 (c) 2,390 3,571 1,746 7,086 79,364 May 90,610 (c) 2,109 3,875 308 4,646 83,890 June 88,511 (c) 1,894 4,003 6,708 -10,220 89,914 July 88,534 (c) 2,133 4,164 -10,112 4,348 102,015 September 90,444 (c) 2,330 3,707 2,581 4,512 90,969 October 94,058 (c) 2,338 3,770 2,581 4,512 90,969 October 94,058 (c) 2,338 3,770 2,581 4,512 90,969 October 94,058 (c) 2,348 3,770 2,581 4,512 90,969 October 94,058 (c) 2,358 3,770 2,581 4,512 90,969 October 94,058 (c) 2,348 3,770 2,581 4,512 90,969 October 94,058 (c) 2,358 3,777 2,188 8,656 8,424 1,071,753 (c) 2,55,044 43,014 2-6,856 14,103 1,094,742 3,009 3,009 March 94,698 (c) 1,748 3,447 -11,770 3,101 100,350 February 94,698 (c) 1,748 3,447 -11,770 3,101 100,350 February 94,961 (c) 2,252 4,910 3,877 2,581 4,512 90,969 May 94,961 (c) 2,254 3,397 1,689 2,611 88,307 2,581 4,512 90,969 October 94,058 (c) 2,358 3,759 9,148 -2,200 79,639 May 87,229 (c) 2,252 4,910 3,877 2,581 4,512 90,969 October 94,058 (c) 1,748 3,447 -11,770 3,101 100,350 February 94,961 (c) 2,244 4,987 2,2596 3,442 2,209 79,639 May 87,229 (c) 2,2531 3,957 8,66 8,690 1,988 8,584 4,490 May 94,961 (c) 2,244 4,987 2,2596 2,442 2,309 79,639 May 94,928 (c) 2,2494 4,067 8,534 8,690								
May								
June								
July 86,326 C 1,573 2,843 -10,022 -4,898 99,977 August 92,203 C 1,555 3,529 -9,241 457 99,012 September 92,368 C 1,526 2,884 -1,726 1,431 91,313 October 94,608 C 1,369 4,407 4,288 -1,186 88,469 November 88,352 C 1,393 2,930 5,490 -5,690 87,016 December 91,184 C 1,602 2,712 3,330 -7,905 94,648 Total 1,094,283 C 16,875 39,601 10,215 -5,012 1,066,355 303 January 92,804 C 1,134 3,680 -13,191 4,615 98,834 February 82,264 C 1,804 2,428 -6,474 1,633 86,481 March 89,334 C 2,390 3,571 1,746 7,086 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>								
August 92.203 (°) 1,555 3,529 -9,241 457 99,012 September 92,368 (°) 1,556 2,884 -1,726 1,431 91,305 October 94,608 (°) 1,369 4,407 4,288 -1,186 88,469 November 88,352 (°) 1,393 2,930 5,490 -5,690 87,016 December 91,184 (°) 1,602 2,712 3,330 -7,905 94,648 Total 1,094,283 (°) 16,875 39,601 10,215 -5,012 1,066,355 003 January 92,804 (°) 1,134 3,680 -13,191 4,615 98,834 February 82,264 (°) 1,804 2,428 -6,474 1,633 86,481 March 89,134 (°) 2,2017 2,410 11,818 -9,531 86,455 April 89,378 (°) 2,390 3,571 1,746 7,086 79,364 May 90,610 (°) 2,109 3,875 308 4,646 83,890 June 88,511 (°) 1,894 4,003 6,708 -10,220 89,914 July 88,534 (°) 2,619 4,223 -18,891 5,049 100,771 August 89,586 (°) 2,133 4,164 -10,112 -4,348 102,015 September 90,4444 (°) 2,300 3,707 2,551 -4,512 90,969 October 94,058 (°) 2,358 3,737 2,118 -8,656 89,424 December 92,163 (°) 1,748 3,447 -11,770 3,101 100,350 February 86,490 (°) 1,748 3,447 -11,770 3,101 100,350 February 86,490 (°) 1,789 2,276 -3,076 -1,830 90,999 March 94,668 (°) 1,789 2,276 -3,076 -1,830 90,999 Mary 87,229 (°) 2,254 4,910 38 -3,368 Re 3,243 Re 100,421 May 94,961 (°) 2,464 4,987 2,2596 2,442 92,592 July 94,961 (°) 2,464 4,987 2,2596 2,442 92,592 July 94,961 (°) 2,464 4,987 2,2596 2,442 92,592 July 94,981 (°) 1,484 1,484 1,484 1,4								
September 32,368 C			\ /					
October 94,608 (°) 1,369 4,407 4,288 -1,186 88,469 November 88,352 (°) 1,389 2,930 5,490 -5,690 87,016 December 91,184 (°) 1,602 2,712 3,330 -7,905 94,648 Total 1,094,283 (°) 16,875 39,601 10,215 -5,012 1,066,355 303 January 92,804 (°) 1,134 3,680 -13,191 4,615 98,834 February 82,264 (°) 1,804 2,428 -6,474 1,633 86,481 March 89,134 (°) 2,910 3,571 1,746 7,086 79,364 April 89,378 (°) 2,390 3,571 1,746 7,086 79,364 May 90,610 (°) 2,109 3,875 308 4,646 83,890 July 88,534 (°) 2,619 4,223 1,881 5,049 100,771<					3,329			
November 88,352 C 1,393 2,930 5,490 -5,690 87,016								
December 91,184 C	November							
Total 1,094,283 (°) 16,875 39,601 10,215 -5,012 1,066,355 303 January 92,804 (°) 1,134 3,680 -13,191 4,615 98,834 February 82,264 (°) 1,804 2,428 -6,474 1,633 86,481 March 89,134 (°) 2,017 2,410 11,818 -9,531 86,455 April 89,378 (°) 2,390 3,571 1,746 7,086 79,364 May 90,610 (°) 2,109 3,875 308 4,646 83,890 June 88,551 (°) 1,894 4,003 6,708 -10,220 89,914 July 88,554 (°) 2,619 4,223 -18,891 5,049 100,771 August 89,586 (°) 2,133 4,164 -10,112 -4,348 102,015 September 90,444 (°) 2,330 3,707 2,581 -4,512 90,								
February 82,264 (°) 1,804 2,428 -6,474 1,633 86,481 March 89,134 (°) 2,017 2,410 11,818 -9,531 86,455 April 89,378 (°) 2,390 3,571 1,746 7,086 79,364 May 90,610 (°) 2,109 3,875 308 4,646 83,890 June 88,511 (°) 1,894 4,003 6,708 -10,220 89,914 July 88,534 (°) 2,619 4,223 -18,891 5,049 100,771 August 89,586 (°) 2,133 4,164 -10,112 -4,348 102,015 September 90,444 (°) 2,300 3,707 2,581 -4,512 90,969 October 94,058 (°) 2,545 3,997 1,689 2,611 88,307 November 84,266 (°) 2,358 3,737 2,118 -8,656 89,424								
February 82,264 (°) 1,804 2,428 -6,474 1,633 86,481 March 89,134 (°) 2,017 2,410 11,818 -9,531 86,455 April 89,378 (°) 2,390 3,571 1,746 7,086 79,364 May 90,610 (°) 2,109 3,875 308 4,646 83,890 June 88,511 (°) 1,894 4,003 6,708 -10,220 89,914 July 88,534 (°) 2,619 4,223 -18,891 5,049 100,771 August 89,586 (°) 2,133 4,164 -10,112 -4,348 102,015 September 90,444 (°) 2,300 3,707 2,581 -4,512 90,969 October 94,058 (°) 2,545 3,997 1,689 2,611 88,307 November 84,266 (°) 2,358 3,737 2,118 -8,656 89,424	003 January	92.804	(°)	1.134	3.680	-13.191	4.615	98.834
March 89,134 (°) 2,017 2,410 11,818 -9,531 86,455 April 89,378 (°) 2,390 3,571 1,746 7,086 79,364 May 90,610 (°) 2,109 3,875 308 4,646 83,890 June 88,511 (°) 1,894 4,003 6,708 -10,220 89,914 July 88,534 (°) 2,619 4,223 -18,891 5,049 100,771 August 89,586 (°) 2,133 4,164 -10,112 -4,348 102,015 September 90,444 (°) 2,300 3,707 2,581 -4,512 90,969 October 94,058 (°) 2,345 3,997 1,689 2,611 88,307 November 84,266 (°) 2,358 3,737 2,118 -8,656 89,424 December 92,163 (°) 1,742 3,219 -5,155 -2,475 98,316								
April 89,378 (°) 2,390 3,571 1,746 7,086 79,364 May 90,610 (°) 2,109 3,875 308 4,646 83,890 June 88,511 (°) 1,894 4,003 6,708 -10,220 89,914 July 88,534 (°) 2,619 4,223 -18,891 5,049 100,771 August 89,586 (°) 2,133 4,164 -10,112 -4,348 102,015 September 90,444 (°) 2,300 3,707 2,581 -4,512 90,969 October 94,058 (°) 2,545 3,997 1,689 2,611 88,307 November 84,266 (°) 2,358 3,737 2,118 -8,656 89,424 December 92,163 (°) 1,742 3,219 -5,155 -2,475 98,316 Total 1,071,753 (°) 25,044 43,014 -26,856 -14,103 1,094,7	March							
May 90,610 (°) 2,109 3,875 308 4,646 83,880 June 88,511 (°) 1,894 4,003 6,708 -10,220 89,914 July 88,534 (°) 2,619 4,223 -18,891 5,049 100,771 August 89,586 (°) 2,133 4,164 -10,112 -4,348 102,015 September 90,444 (°) 2,300 3,707 2,581 -4,512 90,969 October 94,058 (°) 2,545 3,997 1,689 2,611 88,307 November 84,266 (°) 2,358 3,737 2,118 -8,656 89,424 December 92,163 (°) 1,742 3,219 -5,155 -2,475 98,316 Total 1,071,753 (°) 25,044 43,014 -26,856 -14,103 1,094,742 204 January 93,380 (°) 1,748 3,447 -11,770 3,		89,378				1,746		79,364
July		90,610			3,875			83,890
August 89,586 (c) 2,133 4,164 -10,112 -4,348 102,015 September 90,444 (c) 2,300 3,707 2,581 -4,512 90,969 Cotober 94,058 (c) 2,545 3,997 1,689 2,611 88,307 November 84,266 (c) 2,358 3,737 2,118 -8,656 89,424 December 92,163 (c) 1,742 3,219 -5,155 -2,475 98,316 Total 1,071,753 (c) 25,044 43,014 -26,856 -14,103 1,094,742 (c) 1,748 3,447 -11,770 3,101 100,350 February 86,490 (c) 1,789 2,276 -3,076 -1,830 90,909 March 94,698 (c) 1,788 3,965 4,690 1,988 85,844 April 91,759 (c) 2,157 5,359 9,148 -230 79,639 May 87,229 (c) 2,232 4,910 38 -3,368 87,880 June 94,961 (c) 2,464 4,987 -2,596 2,442 92,592 July 91,998 (c) 2,464 4,987 -2,596 2,442 92,592 July 91,998 (c) 2,464 4,067 8-5,347 8-1,075 899,777 September 93,250 (c) NA								
September 90,444 C 2,300 3,707 2,581 -4,512 90,969 October 94,058 C 2,545 3,997 1,689 2,611 88,307 November 84,266 C 2,358 3,737 2,118 -8,656 89,424 December 92,163 C 1,742 3,219 -5,155 -2,475 98,316 Total 1,071,753 C 25,044 43,014 -26,856 -14,103 1,094,742 104 January 93,380 C 1,748 3,447 -11,770 3,101 100,350 February 86,490 C 1,789 2,276 -3,076 -1,830 90,909 March 94,698 C 1,788 3,965 4,690 1,988 85,844 April 91,759 C 2,157 5,359 9,148 -230 79,639 May 87,229 C 2,232 4,910 38 -3,368 87,880 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
October 94,058 C 2,545 3,997 1,689 2,611 88,307 November 84,266 (°) 2,358 3,737 2,118 -8,656 89,424 December 92,163 (°) 1,742 3,219 -5,155 -2,475 98,316 Total 1,071,753 (°) 25,044 43,014 -26,856 -14,103 1,094,742 204 January 93,380 (°) 1,748 3,447 -11,770 3,101 100,350 February 86,490 (°) 1,789 2,276 -3,076 -1,830 90,909 March 94,698 (°) 1,788 3,965 4,690 1,988 85,844 April 91,759 (°) 2,157 5,359 9,148 -230 79,639 May 87,229 (°) 2,232 4,910 38 -3,368 87,880 June 94,961 (°) 2,464 4,987 -2,596 2,442 92,592	August							
November 84,266 (c) 2,358 3,737 2,118 -8,656 89,424 December 92,163 (c) 1,742 3,219 -5,155 -2,475 98,316 Total 1,071,753 (c) 25,044 43,014 -26,856 -14,103 1,094,742 204 January 93,380 (c) 1,748 3,447 -11,770 3,101 100,350 February 86,490 (c) 1,789 2,276 -3,076 -1,830 90,909 March 94,698 (c) 1,788 3,965 4,690 1,988 85,844 April 91,759 (c) 2,157 5,359 9,148 -230 79,639 May 87,229 (c) 2,232 4,910 38 -3,368 87,880 June 94,961 (c) 2,464 4,987 -2,596 2,442 92,592 July 91,998 (c) 2,464 4,987 -2,596 2,442 92,592 July 91,998 (c) 2,531 3,957 RE-6,636 RE-3,213 RE 100,421 August 94,928 (c) 2,531 3,957 RE-6,636 RE-3,213 RE 100,421 August 94,928 (c) 1,748 NA	September							
December 92,163 C								
Total 1,071,753 (°) 25,044 43,014 -26,856 -14,103 1,094,742 304 January 93,380 (°) 1,748 3,447 -11,770 3,101 100,350 February 86,490 (°) 1,789 2,276 -3,076 -1,830 90,909 March 94,698 (°) 1,788 3,965 4,690 1,988 85,844 April 91,759 (°) 2,157 5,359 9,148 -230 79,639 May 87,229 (°) 2,232 4,910 38 -3,368 87,880 June 94,961 (°) 2,464 4,987 -2,596 2,442 92,592 July 91,998 (°) 2,531 3,957 RE -6,636 RE -3,213 RE 100,421 August 94,928 (°) 2,494 4,067 E -5,347 E -1,075 E 99,777 September 93,250 (°) NA NA NA NA NA<								
O04 January 93,380 (°) 1,748 3,447 -11,770 3,101 100,350 February 86,490 (°) 1,789 2,276 -3,076 -1,830 90,909 March 94,698 (°) 1,788 3,965 4,690 1,988 85,844 April 91,759 (°) 2,157 5,359 9,148 -230 79,639 May 87,229 (°) 2,232 4,910 38 -3,368 87,880 June 94,961 (°) 2,464 4,987 -2,596 2,442 92,592 July 91,998 (°) 2,531 3,957 RE -6,636 RE -3,213 RE 100,421 August 94,928 (°) 2,494 4,067 E -5,347 E -1,075 E 99,777 September 93,250 (°) NA NA NA NA NA October 93,240 (°) NA NA NA NA NA			\ /					
February 86,490 C 1,789 2,276 -3,076 -1,830 90,909 March 94,698 C 1,788 3,965 4,690 1,988 85,844 April 91,759 C 2,157 5,359 9,148 -230 79,639 May 87,229 C 2,232 4,910 38 -3,368 87,880 June 94,961 C 2,464 4,987 -2,596 2,442 92,592 July 91,998 C 2,531 3,957 RE-6,636 RE-3,213 RE 100,421 August 94,928 C 2,494 4,067 E-5,347 E-1,075 E 99,777 September 93,250 C NA NA NA NA NA October 93,240 C NA NA NA NA NA 10-Month Total 921,932 C NA NA NA NA NA			(C)	*	•	44.770	2.404	100.250
March 94,698 (°) 1,788 3,965 4,690 1,988 85,844 April 91,759 (°) 2,157 5,359 9,148 -230 79,639 May 87,229 (°) 2,232 4,910 38 -3,368 87,880 June 94,961 (°) 2,464 4,987 -2,596 2,442 92,592 July 91,998 (°) 2,531 3,957 RE -6,636 RE -3,213 RE 100,421 August 94,928 (°) 2,494 4,067 E -5,347 E -1,075 E 99,777 September 93,250 (°) NA NA NA NA NA October 93,240 (°) NA NA NA NA NA 10-Month Total 921,932 (°) NA NA NA NA NA		00'100	\ c \	4'-00	0.000		4,000	
April 91,759 C 2,157 5,359 9,148 -230 79,639 May 87,229 C 2,232 4,910 38 -3,368 87,880 June 94,961 C 2,464 4,987 -2,596 2,442 92,592 July 91,998 C 2,531 3,957 RE -6,636 RE -3,213 RE 100,421 August 94,928 C 2,494 4,067 E -5,347 E -1,075 E 99,777 September 93,250 C NA NA NA NA October 93,240 C NA NA NA NA 10-Month Total 921,932 C NA NA NA NA		00,490	\ c \	1,709		-3,070 4 600		90,909 85 211
May 87,229 C 2,232 4,910 38 -3,368 87,880 June 94,961 (°) 2,464 4,987 -2,596 2,442 92,592 July 91,998 (°) 2,531 3,957 RE -6,636 RE -3,213 RE 100,421 August 94,928 (°) 2,494 4,067 E -5,347 E -1,075 E 99,777 September 93,250 (°) NA NA NA NA NA October 93,240 (°) NA NA NA NA NA 10-Month Total 921,932 (°) NA NA NA NA NA		94,090 91 750	\ c \		5,900 5,250			70,044 70,630
June		87 229		2,137	∆ Q10			87 880
July 91,998 C 2,531 3,957 RE -6,636 RE 3,213 RE 100,421 August 94,928 C 2,494 4,067 E -5,347 E -1,075 E 99,777 September 93,250 C NA NA NA NA NA October 93,240 C NA NA NA NA NA 10-Month Total 921,932 C NA NA NA NA NA				2,464		-2 596	2 442	92 592
August				2,531	3 957	RE -6 636	RE -3.213	RE 100 421
10-Month Total 921,932 (°) NA NA NA NA NA			} c {	2.494	4.067	E-5.347	E -1.075	E 99.777
10-Month Total 921,932 (°) NA NA NA NA NA			} c {					
10-Month Total 921,932 (°) NA NA NA NA NA			} c {					
03 10-Month Total 895.324 (°) 20.944 36.058 -23.819 -2.972 907.001			(°)					
002 10-Month Total 914,747 (°) 13,880 33,959 1,395 8,583 884,691	003 10-Month Total	895,324	{c}	20,944	36,058	-23,819	-2,972	907,001

a Beginning in 2001, includes bituminous refuse.
 b Waste coal (including anthracite culm, bituminous gob, fine coal, and lignite waste) consumed by independent power producers. For 1989-2000, waste coal is counted as a supply-side item to balance the same amount of waste coal included in "Consumption."
 c Beginning in 2001, bituminous refuse is included in "Production"; to avoid double counting, waste coal is not counted as a separate supply-side item for 2001 forward

forward.

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

increase.

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

and waste coal, minus exports, stock change, and consumption. $\begin{tabular}{c} f \\ Included in "Losses and Unaccounted for." \end{tabular}$

f Included in "Losses and Unaccounted for."
g Includes stock change.
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.
• For methodology used to calculate production, consumption, and stock, see Notes 1, 2, and 3 at end of section.
Web Page: http://www.eia.doe.gov/emeu/mer/coal.html.
Sources: See end of section.

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

					End-Us	e Sectors						
			Commerci	al			Industrial					
						0	ther Industri	al		1	Electric	
	Resi- dential	СНРа	Otherb	Total	Coke Plants	CHPc	Non-CHPd	Total	Total	Trans- portation	Power Sector ^{e,f}	Total
1973 Total 1974 Total 1975 Total 1976 Total 1976 Total 1977 Total 1978 Total 1979 Total 1980 Total 1982 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1988 Total 1989 Total 1989 Total 1989 Total 1989 Total 1989 Total 1989 Total 1999 Total 1999 Total 1991 Total 1992 Total 1993 Total 1993 Total	4,113 3,653 2,823 2,586 2,507 2,188 1,678 1,336 1,401 1,735 1,711 1,763 1,590 1,295 1,345 1,097 1,120 902 755	(9) (9) (9) (9) (9) (9) (9) (9) (9) (9)	7,004 7,764 7,764 6,380 6,447 7,323 6,710 5,097 6,085 6,839 7,096 7,395 6,068 5,324 5,561 3,747 4,189 3,769 3,769 3,769 3,769 3,769	7,004 7,764 6,587 6,330 6,447 7,323 6,710 5,097 6,085 6,839 7,096 7,395 6,068 5,904 5,324 5,561 4,872 5,379 4,997 5,045 5,101 5,111 5,052	94,101 90,191 83,598 84,704 77,739 71,394 77,368 66,657 61,014 40,908 37,033 44,022 41,056 35,924 36,957 41,888 40,508 38,877 33,854 32,366 31,323 31,740 33,011	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	68,038 64,903 63,646 61,787 61,463 63,085 67,717 60,347 67,395 64,097 73,745 75,372 75,583 75,175 76,252 51,268 48,549 48,384 45,799 46,006 45,471 43,693	68,038 64,903 63,646 61,787 61,463 63,085 67,717 60,345 64,097 75,745 75,372 75,587 75,175 76,252 76,134 76,330 75,405 75	162,139 155,094 147,244 146,491 139,202 134,479 145,085 127,004 128,409 105,005 103,013 117,767 116,429 111,508 112,132 118,140 116,643 115,207 109,259 106,408 106,215 106,919 106,067	116 80 24 12 9 (h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	389,212 391,811 405,962 448,371 477,126 481,235 527,051 569,274 596,797 593,666 625,211 664,399 693,841 685,056 717,894 758,372 772,190 782,567 783,674 831,645 831,645 838,354	562,584 558,402 562,640 603,790 625,291 625,225 680,524 702,730 732,627 706,911 736,672 791,296 818,049 804,231 836,941 883,642 895,000 904,498 899,227 907,655 944,081 951,286 962,104
1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 2000 Total 2001 Total	755 721 711 534 585 454 481	1,419 1,660 1,738 1,443 1,490 1,547 1,448	3,633 3,625 4,015 2,879 2,803 2,126 2,441	5,052 5,285 5,752 4,322 4,293 3,673 3,888	33,011 31,706 30,203 28,189 28,108 28,939 26,075	29,363 29,434 29,853 28,553 27,763 28,031 25,755	43,693 42,254 41,661 38,887 36,975 37,177 39,514	73,055 71,689 71,515 67,439 64,738 65,208 65,268	106,067 103,395 101,718 95,628 92,846 94,147 91,344	(h) (h) (h) (h) (h) (h)	850,230 896,921 921,364 936,619 940,922 985,821 964,433	962,104 1,006,321 1,029,544 1,037,103 1,038,647 1,084,095 1,060,146
Page 2 January	54 47 45 40 30 28 39 34 25 33 49 65 489	127 102 124 100 105 112 126 127 116 114 116 134 1,405	313 282 239 222 139 113 187 151 84 150 281 391 2,551	440 384 363 322 245 225 313 279 200 264 397 525 3,956	1,861 1,763 1,917 1,932 1,995 1,910 2,054 2,041 2,186 2,015 2,009 23,656	2,278 1,990 2,150 2,115 2,110 2,101 2,439 2,153 2,150 2,231 2,237 2,279 26,232	2,946 3,240 3,097 2,721 2,750 2,785 2,448 2,739 2,745 3,041 3,016 2,986 34,515	5,224 5,230 5,247 4,835 4,860 4,887 4,893 4,895 5,272 5,253 5,265 60,747	7,085 6,993 7,164 6,767 6,856 6,796 6,860 6,947 6,936 7,458 7,268 7,274	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	82,424 72,144 75,823 71,560 76,528 83,565 92,766 91,752 84,144 80,714 79,301 86,784 977,507	90,004 79,569 83,395 78,688 83,658 90,613 99,977 99,012 91,305 88,469 87,016 94,648 1,066,355
2003 January February March March May June July August September October November December Total	57 48 35 40 28 25 35 35 23 28 44 68 466	146 127 125 110 94 118 137 144 121 114 118 137 1,492	315 259 159 212 136 84 149 141 61 110 237 415 2,277	461 386 284 323 230 202 287 285 183 224 355 551 3,770	1,941 1,958 2,105 2,047 1,964 2,059 2,079 2,007 2,024 2,001 1,976 2,087 24,248	2,484 2,169 2,254 2,089 1,952 2,139 2,391 2,397 1,995 2,247 2,180 2,431 26,728	2,782 3,083 3,008 2,873 3,002 2,830 2,654 2,642 3,051 3,097 3,250 2,977 35,248	5,265 5,252 5,261 4,962 4,954 4,969 5,044 5,039 5,046 5,344 5,430 5,409 61,976	7,207 7,210 7,366 7,009 6,918 7,028 7,124 7,046 7,070 7,345 7,405 7,495 86,223	(h) (h) (h) (h) (h) (h) (h) (h) (h) (h)	91,109 78,838 78,770 71,993 76,714 82,659 93,326 94,649 83,695 80,710 81,620 90,201 1,004,283	98,834 86,481 86,455 79,364 83,890 89,914 100,771 102,015 90,969 88,307 89,424 98,316 1,094,742
2004 January	60 48 32 39 28 27 RF 42 F 39 E 314	157 148 143 113 127 126 128 1,071	327 241 115 201 97 90 RE 214 E 186 E 1,470	484 389 258 314 224 216 RF 342 F 314 E 2,541	1,996 1,829 2,080 2,023 1,974 1,934 RF 2,321 F 2,269 E 16,425	2,760 2,305 2,278 2,128 1,914 2,226 2,404 2,390 18,404	2,666 3,155 3,192 2,787 3,031 2,715 RE 2,581 E 2,591 E 22,718	5,425 5,460 5,470 4,915 4,945 4,941 RF 4,985 F 4,981 E 41,121	7,421 7,289 7,550 6,938 6,919 6,875 RE 7,306 E 7,250 E 57,546	(h) (h) (h) (h) (h) (h) (h)	92,386 83,183 78,005 72,349 80,710 85,475 92,731 92,174 677,012	100,350 90,909 85,844 79,639 87,880 92,592 RE 100,421 E 99,777 E 737,414
2003 8-Month Total 2002 8-Month Total	304 318	1,002 924	1,455 1,646	2,456 2,569	16,160 15,404	17,874 17,336	22,873 22,726	40,747 40,062	56,908 55,466	{h h}	668,057 646,563	727,725 704,917

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 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 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.

g Included in "Commercial Other."

h Included in "Industrial Non-CHP."
R=Revised. E=Estimate. F=Forecast.
Notes: • CHP monthly data are from Table 7.3c; electric power sector monthly data are from Table 7.3b; all other monthly values are estimated. See Note 2 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

Independent rounding. • Geographic coverage is the 50 states and the Blank of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/coal.html.

Sources: See end of section. Forecast values: Energy Information Administration, Short-Term Integrated Forecasting System. See Note 4 at end of section.

Table 6.3 Coal Stocks by Sector

(Thousand Short Tons)

173 Year		(THOU	Isanu Snort	10113)						
Distributors					E	nd-Use Sectors	i			
	P					Industrial				
1974 Year	Di				Coke Plants	Othera	Total	Total		Total
1974 Year			12 530	290	6 998	10 370	17 368	17 658	86 967	117,155
1975 Year										108,237
1976 Year										140,391
1977 Year										148,899
1978 Year										171,543
1979 Year										166,606
1980 Year										202,812
1981 Year										228,407
1982 Year				NA	6,475			16,381		209,423
1983 Year				NA						232,038
1984 Year				NA	4,346		13,056	13,056		202,584
1985 Year			34,090	NA	6,166					231,300
1986 Year			33,133	NA	3,420	10,438	13,857	13,857	156,376	203,367
1987 Year			32,093	NA	2,992	10,429	13,420	13,420	161,806	207,319
1988 Year			28,321	NA	3,884	10,777	14,662	14,662	170,797	213,780
1990 Year 33,418			30,418	NA	3,137	8,768	11,906	11,906	146,507	188,831
1991 Year 32,971			29,000	NA	2,864	7,363	10,227	10,227	135,860	175,087
1992 Year 33,993			33,418	NA	3,329	8,716	12,044		156,166	201,629
1993 Year 25,284			32,971	NA	2,773	7,061	9,835	9,835	157,876	200,682
1994 Year 33,219			33,993	NA	2,597	6,965	9,562	9,562	154,130	197,685
1995 Year 34,444 NA 2,632 5,702 8,334 8,334 126,304 1196 Year 28,648 NA 2,667 5,688 8,355 8,355 114,623 11997 Year 33,973 NA 1,978 5,597 7,576 7,576 98,826 14988 Year 36,530 NA 2,026 5,545 7,571 7,571 120,501 11999 Year 33,9475 NA 1,943 5,569 7,511 7,511 141,604 182000 Year 31,905 NA 1,494 4,587 6,081 6,081 102,296 142,000 Year 35,900 NA 1,510 6,006 7,516 7,516 138,496 182000 Year 35,900 NA 1,510 6,006 7,516 7,516 138,496 182000 Year 31,905 NA 1,387 5,230 6,616 6,616 143,151 182000 Year 41,589 NA 1,387 5,230 6,616 6,616 143,151 182000 Year 41,589 NA 1,387 5,230 6,616 6,616 143,151 182000 Year 41,589 NA 1,380 4,842 6,202 6,202 146,443 118,401			25,284	NA	2,401	6,716		9,117	111,341	145,742
1996 Year 28,648										169,358
1997 Year 33,973 NA 1,978 5,597 7,576 7,576 98,826 14 1998 Year 36,530 NA 2,026 5,545 7,571 7,571 120,501 16 1999 Year 31,905 NA 1,943 5,569 7,511 7,511 ° 141,604 18 2001 Year 31,905 NA 1,494 4,587 6,081 6,081 102,296 14 2001 Year 35,900 NA 1,510 6,006 7,516 7,516 138,496 18 2002 January 39,548 NA 1,427 5,618 7,045 7,045 139,400 18 February 41,589 NA 1,360 4,842 6,202 6,202 146,433 11 March 40,284 NA 1,360 4,842 6,202 6,202 146,443 11 May 43,946 NA 1,437 4,990 6,427 6,427 155,313 20										169,083
1998 Year 36,530										151,627
1999 Year 39,475 NA 1,943 5,569 7,511 7,511 ° 141,604 11 2001 Year 31,905 NA 1,494 4,587 6,081 6,081 102,296 14 2001 Year 35,900 NA 1,510 6,006 7,516 7,516 138,496 18 2002 January 39,548 NA 1,427 5,618 7,045 7,045 139,400 18 February 41,589 NA 1,387 5,230 6,616 6,616 143,151 19 March 40,284 NA 1,360 4,842 6,202 6,202 146,443 11 April 44,961 NA 1,399 4,916 6,314 6,314 153,375 20 June 41,288 NA 1,522 5,064 6,586 6,586 152,134 20 July 40,496 NA 1,535 5,321 6,856 6,856 152,134 20										140,374
2000 Year 31,905 NA 1,494 4,587 6,081 6,081 102,296 14 2001 Year 35,900 NA 1,510 6,006 7,516 7,516 138,496 18 2002 January 39,548 NA 1,427 5,618 7,045 7,045 139,400 18 February 41,589 NA 1,387 5,230 6,616 6,616 143,151 15 March 40,284 NA 1,380 4,842 6,202 6,202 146,443 15 April 44,961 NA 1,399 4,916 6,314 6,314 153,375 22 May 43,946 NA 1,437 4,990 6,427 6,427 155,313 22 July 40,496 NA 1,535 5,321 6,856 6,856 152,134 20 August 36,689 NA 1,548 5,578 7,125 7,37130 18 October <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>164,602</td></t<>										164,602
2001 Year 35,900 NA 1,510 6,006 7,516 7,516 138,496 18 2002 January 39,548 NA 1,427 5,618 7,045 7,045 139,400 18 February 41,589 NA 1,387 5,230 6,616 6,616 143,151 15 March 40,284 NA 1,360 4,842 6,202 6,202 146,443 15 April 44,961 NA 1,339 4,916 6,314 153,375 20 May 43,946 NA 1,437 4,990 6,427 6,427 155,313 20 Jule 41,288 NA 1,522 5,064 6,586 6,586 152,134 20 July 40,496 NA 1,535 5,321 6,856 6,856 142,634 18 August 36,489 NA 1,548 5,578 7,125 7,125 137,130 18 September 3										188,590
2002 January 39,548 NA 1,427 5,618 7,045 7,045 139,400 18 February 41,589 NA 1,387 5,230 6,616 6,616 143,151 18 March 40,284 NA 1,360 4,842 6,202 6,202 146,443 18 April 44,961 NA 1,399 4,916 6,314 6,314 153,375 20 May 43,946 NA 1,437 4,990 6,427 6,427 155,313 20 June 41,288 NA 1,522 5,064 6,586 6,586 152,134 20 July 40,496 NA 1,535 5,321 6,856 6,856 142,634 18 August 36,489 NA 1,548 5,578 7,125 7,125 137,130 18 September 35,662 NA 1,561 5,834 7,395 7,355 135,962 17 Octob										140,282
February 41,589 NA 1,387 5,230 6,616 143,151 11 March 40,284 NA 1,360 4,842 6,202 6,202 146,443 15 April 44,961 NA 1,399 4,916 6,314 6,314 153,375 22 May 43,946 NA 1,437 4,990 6,427 6,427 155,313 22 June 41,288 NA 1,522 5,064 6,586 6,586 152,134 20 July 40,496 NA 1,535 5,321 6,856 6,856 142,634 18 August 36,489 NA 1,548 5,578 7,125 7,125 137,130 18 September 35,662 NA 1,561 5,834 7,395 7,395 135,962 17 November 36,954 NA 1,430 5,806 7,236 7,236 144,608 18 December 43,257			35,900	NA	1,510	6,006	7,516	7,516	138,496	181,912
March 40,284 NA 1,360 4,842 6,202 6,202 146,443 15 April 44,961 NA 1,399 4,916 6,314 6,314 153,375 20 May 43,946 NA 1,437 4,990 6,427 6,427 155,313 21 June 41,288 NA 1,522 5,064 6,586 6,586 152,134 20 July 40,496 NA 1,535 5,321 6,856 6,856 142,634 18 August 36,489 NA 1,548 5,578 7,125 7,125 137,130 18 September 35,662 NA 1,561 5,834 7,395 7,395 135,962 17 October 35,191 NA 1,495 5,820 7,315 7,315 140,800 18 November 36,954 NA 1,364 5,792 7,156 7,156 141,714 15 2003 Janua										185,992
April 44,961 NA 1,399 4,916 6,314 6,314 153,375 20 May 43,946 NA 1,437 4,990 6,427 6,427 155,313 20 June 41,288 NA 1,522 5,064 6,586 6,586 152,134 20 July 40,496 NA 1,535 5,321 6,856 6,856 142,634 18 August 36,489 NA 1,548 5,578 7,125 7,125 137,130 18 September 35,662 NA 1,561 5,834 7,395 7,395 135,962 17 October 35,191 NA 1,495 5,820 7,315 7,315 140,800 18 November 36,954 NA 1,364 5,792 7,156 7,156 141,714 11 2003 January R4,648 NA 1,364 5,792 7,156 7,156 141,714 15 Pébruary R46,039 NA 1,341 4,837 6,177 6,177 128,828<										191,356
Máy 43,946 NA 1,437 4,990 6,427 6,427 155,313 20 June 41,288 NA 1,522 5,064 6,586 6,586 152,134 20 July 40,496 NA 1,535 5,321 6,856 6,856 142,634 18 August 36,489 NA 1,548 5,578 7,125 7,125 137,130 11 September 35,662 NA 1,561 5,834 7,395 7,395 135,962 17 October 35,191 NA 1,495 5,820 7,315 7,315 140,800 18 November 36,954 NA 1,364 5,792 7,156 7,156 141,714 19 2003 January R4,688 NA 1,364 5,792 7,156 7,156 141,714 19 2003 January R46,603 NA 1,341 4,837 6,177 6,177 128,828 17										192,929
June 41,288 NA 1,522 5,064 6,586 6,586 152,134 20 July 40,496 NA 1,535 5,321 6,856 6,856 142,634 18 August 36,489 NA 1,548 5,578 7,125 7,125 137,130 18 September 35,662 NA 1,561 5,834 7,395 7,395 135,962 17 October 35,191 NA 1,495 5,820 7,315 7,315 140,800 18 November 36,954 NA 1,364 5,792 7,156 7,236 144,608 18 December 43,257 NA 1,364 5,792 7,156 7,156 141,714 11 2003 January R 44,648 NA 1,353 5,314 6,667 6,667 135,771 17 February R 46,039 NA 1,341 4,837 6,177 6,177 128,828 11										204,651
July 40,496 NA 1,535 5,321 6,856 6,856 142,634 18 August 36,489 NA 1,548 5,578 7,125 7,125 137,130 18 September 35,662 NA 1,561 5,834 7,395 7,395 135,962 17 October 35,191 NA 1,495 5,820 7,315 7,315 140,800 18 November 36,954 NA 1,430 5,806 7,236 7,236 144,608 18 December 43,257 NA 1,364 5,792 7,156 7,156 141,714 15 2003 January R4,648 NA 1,353 5,314 6,667 6,667 135,771 17 February R46,039 NA 1,341 4,837 6,177 6,177 128,828 17 March 47,429 NA 1,329 4,359 5,688 5,688 131,162 18 April R46,903 NA 1,377 4,297 5,674 5,674 1										205,686
August 36,489 NA 1,548 5,578 7,125 7,125 137,130 18 September 35,662 NA 1,561 5,834 7,395 7,395 135,962 17 October 35,191 NA 1,495 5,820 7,315 7,315 140,800 18 November 36,954 NA 1,430 5,806 7,236 7,236 144,608 18 December 43,257 NA 1,364 5,792 7,156 7,156 141,714 19 2003 January R44,648 NA 1,353 5,314 6,667 6,667 135,771 17 February R46,039 NA 1,341 4,837 6,177 6,177 128,828 17 March 47,429 NA 1,329 4,359 5,688 5,688 131,162 18 April R46,903 NA 1,377 4,297 5,674 5,674 138,895 18										200,008
September 35,662 NA 1,561 5,834 7,395 7,395 135,962 17 October 35,191 NA 1,495 5,820 7,315 7,315 140,800 18 November 36,954 NA 1,430 5,806 7,236 7,236 144,608 18 December 43,257 NA 1,364 5,792 7,156 7,156 141,714 19 2003 January R44,648 NA 1,353 5,314 6,667 6,667 135,771 17 February R46,039 NA 1,341 4,837 6,177 6,177 128,828 17 March 47,429 NA 1,329 4,359 5,688 5,688 131,162 18 April R46,903 NA 1,377 4,297 5,674 5,674 138,895 16 May R46,012 NA 1,426 4,234 5,660 5,660 143,884 18										189,985
October 35,191 NA 1,495 5,820 7,315 7,315 140,800 18 November 36,954 NA 1,430 5,806 7,236 7,236 144,608 18 December 43,257 NA 1,364 5,792 7,156 7,156 141,714 19 2003 January R 44,648 NA 1,353 5,314 6,667 6,667 135,771 17 February R 46,039 NA 1,341 4,837 6,177 6,177 128,828 17 March 47,429 NA 1,329 4,359 5,688 5,688 131,162 18 April R 46,903 NA 1,377 4,297 5,674 5,674 138,895 18 May R 46,012 NA 1,426 4,234 5,660 5,660 143,884 18 Jule 45,070 NA 1,474 4,172 5,646 5,646 142,325 13			36,489				7,125			180,745
November 36,954 NA 1,430 5,806 7,236 7,236 144,608 18 December December 43,257 NA 1,364 5,792 7,156 7,156 141,714 15 2003 January R 44,648 NA 1,353 5,314 6,667 6,667 135,771 17 February R 46,039 NA 1,341 4,837 6,177 6,177 128,828 17 March 47,429 NA 1,329 4,359 5,688 5,688 131,162 18 April R 46,903 NA 1,377 4,297 5,674 5,674 138,895 18 May R 46,012 NA 1,426 4,234 5,660 5,660 143,884 18 July 45,070 NA 1,474 4,172 5,646 5,646 142,325 13 July R 42,735 NA 1,345 4,407 5,751 5,751 132,964 17 <t< td=""><td>•••</td><td>r</td><td></td><td></td><td></td><td></td><td>7,395</td><td></td><td></td><td>179,019</td></t<>	•••	r					7,395			179,019
December 43,257 NA 1,364 5,792 7,156 7,156 141,714 15 2003 January R 44,648 NA 1,353 5,314 6,667 6,667 135,771 17 February R 46,039 NA 1,341 4,837 6,177 6,177 128,828 17 March 47,429 NA 1,329 4,359 5,688 5,688 131,162 18 April R 46,903 NA 1,377 4,297 5,674 5,674 138,895 18 May R 46,012 NA 1,426 4,234 5,660 5,660 143,884 11 June 45,070 NA 1,474 4,172 5,646 5,646 142,325 19 July R 42,735 NA 1,345 4,407 5,751 5,751 132,964 17 August R 40,647 NA 1,215 4,642 5,857 5,963 5,963 122,425 16										183,307
2003 January R44,648 NA 1,353 5,314 6,667 6,667 135,771 17 February R46,039 NA 1,341 4,837 6,177 6,177 128,828 17 March 47,429 NA 1,329 4,359 5,688 5,688 131,162 18 April R46,903 NA 1,377 4,297 5,674 5,674 138,895 18 May R46,012 NA 1,426 4,234 5,660 5,660 143,884 18 June 45,070 NA 1,474 4,172 5,646 5,646 142,325 18 July R42,735 NA 1,345 4,407 5,751 5,751 132,964 17 August R40,647 NA 1,215 4,642 5,857 5,857 125,725 16 September 38,231 NA 1,085 4,878 5,963 5,963 122,425 16										188,797
February R 46,039 NA 1,341 4,837 6,177 6,177 128,828 17 March 47,429 NA 1,329 4,359 5,688 5,688 131,162 18 April R 46,903 NA 1,377 4,297 5,674 5,674 138,895 18 May R 46,012 NA 1,426 4,234 5,660 5,660 143,884 18 June 45,070 NA 1,474 4,172 5,646 5,646 142,325 15 July R 42,735 NA 1,345 4,407 5,751 5,751 132,964 17 August R 40,647 NA 1,215 4,642 5,857 5,857 125,725 16 September 38 231 NA 1,085 4 878 5 963 5 963 122 425			43,237	NA	1,304	5,792	7,156	7,156	141,714	192,127
February R 46,039 NA 1,341 4,837 6,177 6,177 128,828 17 March 47,429 NA 1,329 4,359 5,688 5,688 131,162 18 April R 46,903 NA 1,377 4,297 5,674 5,674 138,895 18 May R 46,012 NA 1,426 4,234 5,660 5,660 143,884 18 June 45,070 NA 1,474 4,172 5,646 5,646 142,325 15 July R 42,735 NA 1,345 4,407 5,751 5,751 132,964 17 August R 40,647 NA 1,215 4,642 5,857 5,857 125,725 16 September 38 231 NA 1,085 4 878 5 963 5 963 122 425	R		R 44,648	NA	1,353	5,314	6,667	6,667	135,771	178,935
March 47,429 NA 1,329 4,359 5,688 5,688 131,162 11 April R 46,903 NA 1,377 4,297 5,674 5,674 138,895 18 May R 46,012 NA 1,426 4,234 5,660 5,660 143,884 18 June 45,070 NA 1,474 4,172 5,646 5,646 142,325 19 July R 42,735 NA 1,345 4,407 5,751 5,751 132,964 17 August R 40,647 NA 1,215 4,642 5,857 5,857 125,725 16 September 38 231 NA 1,085 4,878 5,963 5,963 5,963 122,425	R		^R 46,039	NA						172,461
May R 46,012 NA 1,426 4,234 5,660 5,660 143,884 18 June 45,070 NA 1,474 4,172 5,646 5,646 142,325 15 July R 42,735 NA 1,345 4,407 5,751 5,751 132,964 17 August R 40,647 NA 1,215 4,642 5,857 5,857 125,725 16 September 38,231 NA 1,085 4,878 5,963 5,963 5,963 122,425				NA	1,329	4,359	5,688	5,688	131,162	184,279
June 45,070 NA 1,474 4,172 5,646 5,646 142,325 15 July R 42,735 NA 1,345 4,407 5,751 5,751 132,964 17 August R 40,647 NA 1,215 4,642 5,857 5,857 125,725 16 September 38,231 NA 1,085 4,878 5,963 5,963 5,963 122,425	R		^R 46,903	NA						186,025
July R 42,735 NA 1,345 4,407 5,751 5,751 132,964 17 August R 40,647 NA 1,215 4,642 5,857 5,857 125,725 16 September 38,231 NA 1,085 4,878 5,963 5,963 1,224 2,25 11	R		^R 46,012	NA	1,426	4,234	5,660	5,660	143,884	186,333
August				NA	1,474	4,172	5,646	5,646	142,325	193,041
August	R		^R 42,735					5,751		174,150
September	R		^R 40,647	NA	1,215		5,857	5,857		164,038
			38,231				5,963	5,963		166,618
October	R		R 37,352	NA	1,025	4,824	5,849	5,849	126,002	168,307
November	к		^R 37,984					5,736		170,425
		·	38,277	NA	905	4,718	5,623	5,623	121,371	165,271
	F		F 33,486	NA	1,020	4,458				153,501
February F 34,947 NA 1,134 4,198 5,332 5,332 110,145 15	F		F 34,947	NA	1,134	4,198	5,332	5,332		150,425
March F 36,618 NA 1,249 3,938 5,187 5,187 113,310 15	F		F 36,618							155,115
April ^F 37,489 NA 1,278 4,056 5,334 5,334 121,440 16	F		^F 37,489	NA						164,263
May F 34,587 NA 1,307 4,175 5,482 5,482 124,232 16	F		^F 34,587	NA						164,301
June F 35,299 NA 1,336 4,294 5,630 5,630 120,777 16	F		F 35,299							161,705
										RE 155,069
August F35,357 NA F1,307 F4,151 F5,459 E5,459 108,906 E14	F		⁺ 35,357	NA	⁺ 1,307	⁺ 4,151	[⊦] 5,459	[⊾] 5,459	108,906	E 149,722

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

are estimates derived from collected annual data; end-use sector monthly values

are estimates derived from collected annual data; end-use sector monthly values are estimates derived from collected quarterly data; and electric power sector monthly values are data from Table 7.4. See Note 3 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: http://www.eia.doe.gov/emeu/mer/coal.html.

Sources: See end of section. Forecast values: Energy Information Administration, Short-Term Integrated Forecasting System. See Note 4 at end of section.

plants only.

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

^c Through 1998, data are for stocks at electric utilities only. Beginning in 1999,

data also include stocks at independent power producers.
R=Revised. E=Estimate. NA=Not available. F=Forecast.

Notes: • Stocks are at end of period. • Producer and distributor monthly values

Coal

Note 1. Production: Preliminary monthly estimates of national coal production are the sum of weekly estimates developed by the 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 data showing the number of railcars loaded with coal during the week by Class I and certain other railroads. number is converted into tons of coal by EIA by using the average number of tons of coal per railcar loaded reported in the most recent "Quarterly Freight Commodity Statistics" from the Surface Transportation Board. If an average coal tonnage per railcar loaded is not available for a specific railroad, the national average is used. To derive the estimate of total weekly production, the total rail tonnage for the week is divided by the ratio of quarterly production shipped by rail and total quarterly production. Data for the corresponding quarter of previous years are used to derive this ratio. This method ensures that the seasonal variations are preserved in the production estimates.

When preliminary quarterly data become available, the monthly and weekly estimates are adjusted to conform to the quarterly figure. 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 9 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. Consumption: Coal consumption 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: Mid World Oil Price 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 the Energy Information Administration (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 times the Btu quantity of oil consumed by the residential sector to derive an estimate of the Btu quantity of coal consumed by the residential sector; and, finally, the amount estimated as the residential sector consumption is subtracted from the residential and commercial sectors' combined consumption to derive the commercial sector's estimated consumption. The 2003 share is applied to 2004 and succeeding years, and the other missing years' shares are interpolated.

Industrial Coke Plants—Prior to 1980, monthly coke plant consumption data were taken directly from reported data. From 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. From 1980-1987, monthly figures were estimated by proportioning quarterly data by using the ratios of monthlyto-quarterly consumption data in 1979, the last year in which monthly data were reported on Form EIA-3. Quarterly consumption data were derived by adding beginning stocks at manufacturing plants to current receipts and subtracting ending stocks at manufacturing plants. In this calculation, current receipts were 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, mining, and construction consumption data were included where appropriate. Starting 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 333; paper manufacturing, NAICS 322; chemical manufacturing, NAICS 325; petroleum and coal products, NAICS 324; nonmetallic 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.

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

Note 3. 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: Mid World Oil Price 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. Beginning in 1980, stock estimates for the sector were considered to be statistically insignificant and are no longer collected.

Industrial Coke Plants—Prior to 1980, monthly stocks at coke plants were taken directly from reported data. From 1980 forward, 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. From 1983 forward, 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—Monthly stocks data at electric power plants are taken directly from reported data.

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

The STIFS model results are published monthly in EIA's *Short-Term Energy Outlook*, which is available from the National Energy Information Center (202-586-8800) and accessible on the Web at http://www.eia.doe.gov. Documentation for the model and instructions for downloading and operating it on a personal computer are provided.

Note 5. Additional 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: Energy Information Administration (EIA), *Weekly Coal Production*.

Waste Coal

EIA, Form EIA-860B, "Annual Electric Generator Report-Nonutility" and predecessor form.

Imports and Exports

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

Stock Change

Calculated from data in Table 6.3.

Losses and Unaccounted for

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

Consumption

Table 6.2.

Table 6.2 Sources

Residential and Commercial

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: Energy Information Administration (EIA), Form EIA-2, "Monthly Coal Report, Retail Dealers-Upper Lake Docks."

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

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

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."

Industrial Other

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

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

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

1998 forward: EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants," and Form EIA-6A, "Coal Distribution Report," annual.

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

1973–1988: Table 7.3e. 1989 forward: Table 7.3b

Table 6.3 Sources

Producers and Distributors

1973–1979: DOI, BOM, Form 6-1419Q, "Distribution of Bituminous Coal and Lignite Shipments."

1980–1997: Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report," quarterly."

1998 forward: EIA, Form EIA-6A, "Coal Distribution Report," annual.

Residential and Commercial

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."

Industrial Coke Plants

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

October 1977–1980: Energy Information Administration (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."

Industrial Other

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

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

1980 forward: EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants."

Electric Power

Table 7.4.

Section 7. Electricity

Overview. In 2003, net generation of electricity totaled 3.8 trillion kilowatthours, down slightly compared with the total in 2002. Of the total generated, 96 percent came from the electric power sector; 4 percent was generated by combined-heat-and power plants and electricity-only plants in the industrial and commercial sectors. The Nation imported 30 billion kilowatthours and exported 24 billion kilowatthours of electricity in 2003.

Net Generation. In August 2004, total net generation of electricity was 366 billion kilowatthours, 3 percent lower than August 2003.

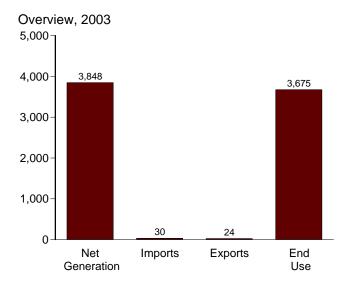
Consumption of Combustible Fuels. The consumption of coal for electricity generation and useful thermal output by all sectors was 95 million short tons in August 2004, 3 percent lower than in August 2003. Total petroleum consumption was 20 million barrels, 14 percent lower than a

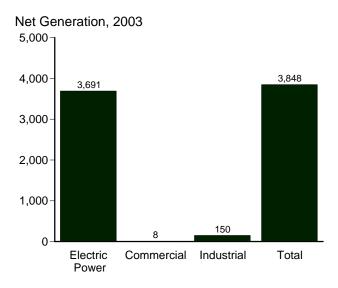
year earlier, and natural gas consumption was 703 billion cubic feet, 8 percent lower than a year ago.

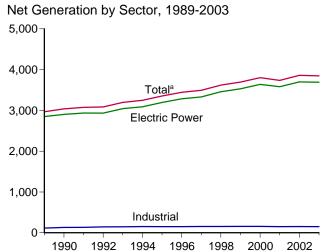
Stocks of Coal and Petroleum. Stocks of coal held by the electric power sector in August 2004 were 109 million short tons, 13 percent below the level held a year earlier. Total petroleum was 52 million barrels in August 2004, 6 percent higher than a year earlier.

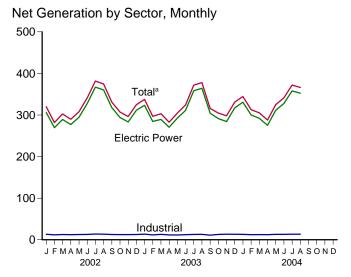
Retail Sales of Electricity. Total retail sales of electricity in August 2004 were 330 billion kilowatthours, 3 percent lower than sales in August 2003. Sales to residential users in August 2004 were 127 billion kilowatthours, 5 percent lower than a year ago; commercial sector sales were 113 billion kilowatthours, 4 percent lower than a year ago; and industrial sector sales were 90 billion kilowatthours, 1 percent higher than a year ago.

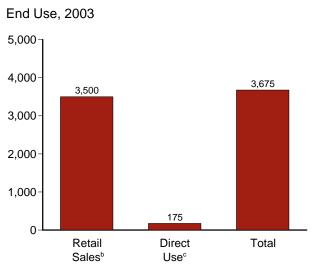
Figure 7.1 Electricity Overview (Billion Kilowatthours)

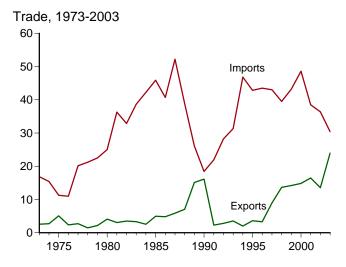












^aIncludes commercial sector.

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

°Commercial and industrial facility use of onsite net electricity generation;

and electricity sales among adjacent or co-located facilities for which revenue information is not available.

Note: Because vertical scales differ, graphs should not be compared . Web Page: http://www.eia.doe.gov/emeu/mer/elect.html.

Sources: Table 7.1.

Table 7.1 Electricity Overview

(Billion Kilowatthours)

	Net Generation							End Use			
	Electric Power Sector ^a	Commercial Sector ^b	Industrial Sector ^c	Total	Importsd	Exports	Losses and Unaccounted for ^e	Retail Sales ^f	Direct Use ⁹	Total	
1973 Total 1974 Total 1975 Total 1976 Total 1976 Total 1977 Total 1978 Total 1978 Total 1978 Total 1980 Total 1981 Total 1982 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1987 Total 1988 Total 1989 Total 1999 Total 1991 Total 1992 Total 1993 Total 1994 Total 1995 Total 1995 Total 1996 Total 1997 Total 1998 Total 1999 Total 1999 Total 1998 Total 1999 Total 1999 Total 1998 Total 1999 Total	1,861 1,867 1,918 2,038 2,124 2,206 2,247 2,286 2,295 2,241 2,310 2,416 2,470 2,487 2,572 2,704 2,888 2,991 2,936 2,934 3,089 3,194 3,284 3,329 3,457 3,530 3,638 3,580	NAA	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 115 131 133 143 146 151 151 151 154 154 156 157 149	1,864 1,870 1,921 2,041 2,127 2,209 2,251 2,290 2,298 2,244 2,313 2,419 2,473 2,473 2,490 2,575 2,707 2,967 3,084 3,074 3,084 3,197 3,248 3,343 3,492 3,620 3,695 3,802 3,737	17 15 11 11 20 21 23 25 36 33 39 42 46 41 52 39 26 18 22 28 31 47 43 43 43 43 49 39	3352312434335567516234243914456	165 177 180 194 197 211 200 216 184 187 198 173 190 158 164 161 223 214 213 224 236 224 235 237 237 232 221 229 231 215	1,713 1,706 1,747 1,855 1,948 2,018 2,071 2,086 2,147 2,286 2,324 2,369 2,457 2,578 2,647 2,713 2,762 2,763 2,762 2,763 3,013 3,146 3,264 3,324 3,326 3,312 3,370	NA NA NA NA NA NA NA NA NA NA NA NA 108 114 118 122 128 134 146 148 161 183 183 183	1,713 1,706 1,747 1,855 1,948 2,018 2,071 2,094 2,147 2,086 2,151 2,286 2,324 2,369 2,457 2,578 2,755 2,827 2,880 2,886 2,989 3,069 3,157 3,247 3,247 3,425 3,495 3,605 3,544	
2002 January	306 269 289 277 295 328 367 360 318 294 283 312 3,698	1 (s) 1 1 1 1 1 1 1 1 7	13 12 13 12 13 13 14 13 13 12 12 12	320 282 303 290 308 341 382 375 331 307 296 325 3,858	3 3 3 2 3 4 4 3 2 3 2 3 4	1 1 2 1 2 1 1 1 1 1 1 1 1	15 6 22 19 24 30 33 24 9 11 21 27	292 264 267 259 269 298 337 338 309 283 262 284 3,463	E 15 E 14 E 15 E 15 E 15 E 15 E 15 E 15 E 178	307 278 282 273 284 313 352 353 324 298 276 299 3,641	
2003 January	323 284 289 270 292 311 358 364 304 291 284 317 3,691	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 12 13 12 11 12 13 13 13 11 13 13 13 150	338 297 303 283 305 324 372 378 316 305 298 331 3,848	3 3 3 3 3 4 4 2 1 1 2 30	1 2 3 2 2 2 1 1 2 3 2 2 2 2 2 2 2 2 2 2	16 1 14 13 21 21 26 24 -6 9 19 21	308 283 274 256 269 289 334 341 307 279 264 295 3,500	E 15 E 13 E 15 E 14 E 15 E 14 E 15 E 14 E 15 E 175	323 297 289 270 284 304 348 356 322 293 279 310 3,675	
2004 January	331 300 292 275 311 328 358 352 2,548	1 1 1 1 1 1 1 5	13 12 12 12 13 13 13 13 13	344 313 305 288 325 341 372 366 2,655	2 2 2 2 2 2 3 4 5 22	2 2 3 2 2 2 1 1 1	23 12 11 11 31 20 26 25 158	307 287 278 262 279 308 334 330 2,387	E 15 E 14 E 15 E 14 E 15 E 15 E 15 E 117	322 301 293 277 294 322 349 345 2,503	
2003 8-Month Total 2002 8-Month Total	2,494 2,491	5 5	99 103	2,598 2,599	24 26	15 9	137 173	2,354 2,325	E 117 E 119	2,471 2,443	

^a 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.

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

plants. See note at end of section.

Clindustrial combined-heat-and-power (CHP) and industrial electricity-only plants. See note at end of section. Through 1988, includes industrial hydroelectric power only.

d Electricity transmitted across U.S. borders with Canada and Mexico.

power only.

d Electricity transmitted across U.S. borders with Canada and Mexico.

e Energy losses that occur between the point of generation and delivery to the customer, and data collection frame differences and nonsampling error. See Note 12 at end of Section 2 for discussion on electrical system energy losses.

f Electricity retail sales to ultimate customers reported by electric utilities and

other energy service providers.

9 Commercial and industrial facility use of onsite net electricity generation; and electricity sales among adjacent or co-located facilities for which revenue information is not available.

information is not available.

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

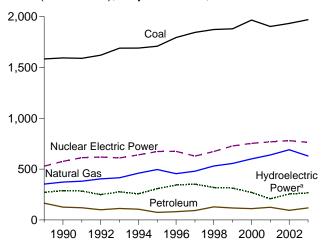
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/elect.html.

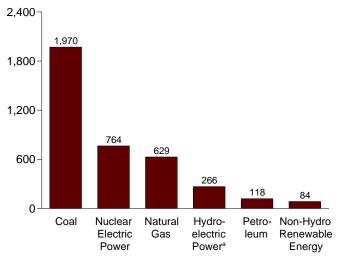
Sources: • Net Generation: Tables 7.2a-7.2c. • Imports and Exports: See end of section. • Losses and Unaccounted for: Calculated as the sum of total net generation and imports minus total end use and exports. • End Use: Table

Figure 7.2 Electricity Net Generation (Billion Kilowatthours)

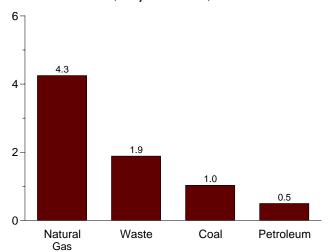
Total (All Sectors), Major Sources, 1989-2003



Total (All Sectors), Major Sources, 2003

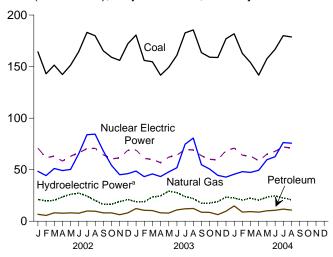


Commercial Sector, Major Sources, 2003

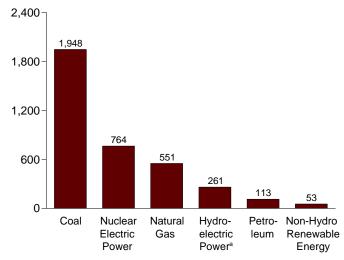


^aConventional and pumped storage hydroelectric power.

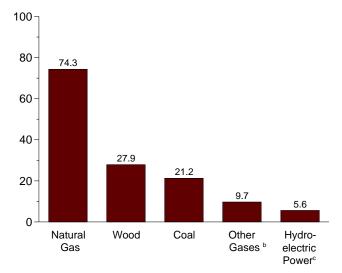
Total (All Sectors), Major Sources, Monthly



Electric Power Sector, Major Sources, 2003



Industrial Sector, Major Sources, 2003



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/elect.html. Sources: Tables 7.2a, 7.2b, and 7.2c.

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

^čConventional only.

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

(Million Kilowatthours)

		Fossil F	uels						Renewable	Energy			
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power	Wood ^f	Waste ^g	Geo- thermal	Solar ^h	Wind	Total ⁱ
1973 Total 1974 Total 1975 Total 1976 Total 1977 Total 1977 Total 1977 Total 1979 Total 1980 Total 1982 Total 1982 Total 1983 Total 1985 Total 1985 Total 1985 Total 1986 Total 1987 Total 1987 Total 1988 Total 1988 Total 1998 Total 1998 Total 1999 Total 1991 Total 1992 Total 1993 Total 1995 Total 1996 Total 1997 Total 1998 Total 1998 Total 1999 Total 1999 Total 1998 Total 1999 Total 2000 Total	1,385,831 1,463,781 1,540,653 1,583,779 1,594,011 1,590,623 1,621,206 1,690,070 1,690,694 1,709,426 1,795,196 1,845,016 1,873,516 1,881,087 1,966,265	314,343 300,931 289,095 319,988 358,179 365,060 303,525 245,994 146,797 144,499 119,808 100,202 136,585 118,493 148,900 164,518 126,621 119,752 100,154 112,788 105,901 74,554 81,411 92,555 128,800 118,061 111,221 124,880	340,858 320,065 299,778 294,624 305,505 305,391 329,485 346,240 277,305 291,946 248,508 277,394 291,946 248,508 277,765 381,553 404,074 414,927 460,219 496,058 455,056 479,399 531,257 556,396 601,038 639,129	NA NA NA NA NA NA NA NA NA NA NA NA NA 11,336 13,270 12,956 13,319 13,870 14,356 13,492 14,126 13,955 14,059 19,039	83,479 113,976 172,505 191,104 250,883 276,403 255,155 251,116 272,674 282,773 293,677 327,634 383,691 414,038 455,270 526,973 529,355 576,862 612,565 618,776 610,291 640,440 673,402 674,729 628,644 673,702 728,254 753,893 768,826	(i) (i) (i) (i) (i) (i) (i) (i) (i) (i)	275,431 304,212 303,153 286,924 223,599 283,465 283,076 279,182 263,845 312,374 335,291 324,311 294,005 252,856 226,101 271,977 292,866 288,994 253,088 280,494 260,126 310,833 347,162 356,453 323,336 319,536 275,573	130 69 18 84 308 197 300 275 245 196 216 492 7,237 32,522 36,529 37,623 37,937 36,521 36,800 36,388 37,041 37,595	198 182 174 182 173 140 198 158 123 125 163 425 685 694 738 9,163 13,260 13,260 17,816 18,333 19,129 20,405 20,911 21,709 22,448 22,572 23,131 21,765	1,966 2,453 3,246 3,616 3,582 2,978 3,889 5,073 5,686 4,843 6,075 7,741 9,325 10,308 11,593 15,434 16,789 15,535 13,378 14,726 14,774 14,827 14,093 13,741	NA NA NA NA NA NA NA NA NA 114 109 251 367 472 400 462 487 521 511 502 495 495 493 543	NA NA NA NA NA NA NA NA NA NA 1 2,112 2,789 2,288 3,006 3,164 3,234 3,234 3,234 4,488 5,593 6,737	1,864,057 1,870,319 1,920,755 2,040,914 2,127,447 2,209,377 2,250,665 2,289,600 2,297,973 2,244,372 2,313,446 2,419,465 2,473,002 2,490,471 2,575,288 2,707,411 2,967,306 3,037,988 3,073,799 3,083,882 3,197,191 3,247,522 3,353,487 3,444,188 3,492,172 3,620,295 3,694,810 3,802,105 3,736,644
2002 January	164,358 143,049 151,486 142,305 151,406 164,668 183,195 179,955 165,366 159,099 156,054 172,190 1,933,130	6,690 5,664 8,217 7,834 8,127 7,796 9,913 9,737 8,075 8,116 6,287 8,112 94,567	48,413 44,308 51,214 49,146 50,275 65,631 83,917 84,477 68,161 54,201 45,161 46,100 691,006	923 760 904 890 910 1,009 1,071 1,117 1,053 908 894 1,025 11,463	70,926 61,658 63,041 58,437 63,032 66,372 70,421 70,778 64,481 60,493 61,520 68,905 780,064	-750 -586 -684 -585 -539 -863 -998 -935 -777 -681 -666 -680	21,795 20,192 21,009 24,247 26,663 28,213 25,471 21,084 17,087 17,171 19,730 21,669 264,329	3,255 2,844 2,961 3,196 3,161 3,395 3,440 3,369 3,313 3,346 3,161 3,222 38,665	1,879 1,666 1,901 1,771 1,925 1,969 2,088 2,096 1,941 1,837 1,834 1,934 22,857	1,287 1,132 1,245 1,115 1,216 1,151 1,262 1,227 1,195 1,235 1,189 1,236	11 24 46 58 96 75 53 31 28 4	811 714 852 1,024 1,078 1,126 890 977 736 734 656 755	319,941 281,826 302,549 289,848 307,675 341,023 381,542 374,586 331,279 307,059 296,290 324,834 3,858,452
2003 January	180,632 156,063 154,690 141,676 149,296 161,009 182,761 185,595 163,589 159,162 158,824 176,975 1,970,273	12,338 10,560 10,323 8,148 7,971 10,968 12,102 12,345 8,716 8,599 6,434 9,752 118,256	48,684 43,291 45,901 43,341 47,854 51,899 74,809 80,665 54,833 50,604 44,515 42,810 629,207	908 730 900 734 757 863 898 818 830 1,037 1,233 1,229 10,937	69,211 60,942 59,933 56,776 62,194 64,181 69,653 69,024 63,584 60,016 59,600 68,612 763,725	-760 -774 -797 -554 -619 -780 -755 -818 -785 -634 -715 -677	19,714 19,630 24,349 25,002 29,928 28,500 24,681 22,837 18,215 18,310 19,733 24,107 275,007	2,976 2,681 3,151 2,992 2,792 2,942 3,109 3,009 2,714 4,064 3,329 36,951	1,741 1,619 1,928 1,905 1,923 1,917 2,027 1,965 1,770 1,948 1,975 2,092 22,811	1,144 1,028 1,118 1,043 1,035 1,099 1,096 1,086 1,077 1,085 1,246 13,149	13 18 50 60 68 91 63 62 56 36 14 4 535	558 692 1,008 1,099 891 964 917 779 824 909 995 1,095	337,504 296,735 303,087 282,721 304,550 324,042 371,782 315,800 304,711 298,165 330,967 3,847,990
2004 January		14,896 8,924 9,383 8,771 10,102 10,589 11,775 10,791 85,230 84,754 63,978	45,585 48,111 47,394 49,485 59,612 62,578 76,329 75,707 464,801 436,444 477,383	1,262 1,181 1,264 1,322 1,275 1,332 1,288 1,295 10,219 6,608 7,582	70,789 64,103 63,285 58,635 64,917 67,787 71,975 71,064 532,557 511,913 524,664	-753 -642 -683 -670 -664 -676 -663 -805 -5,556 -5,858 -5,940	23,228 21,172 23,012 21,110 23,988 25,258 23,213 21,638 182,617 194,641 188,672	3,216 3,038 3,041 3,016 2,935 2,926 3,214 3,207 24,593 23,651 25,622	1,866 1,709 1,870 1,889 2,022 1,946 2,027 2,011 15,341 15,025 15,295	1,254 1,177 1,199 1,119 1,172 1,190 1,241 1,219 9,571 8,655 9,635	12 18 53 57 81 88 82 73 463 425 439	918 967 1,187 1,236 1,635 1,360 1,096 997 9,396 6,906 7,473	344,419 312,843 305,207 287,978 324,908 341,381 371,953 366,270 2,654,959 2,598,348 2,598,990

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

synthetic coal.

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

Distillate rule full, residual rule full, petroleum coke, jet rulei, keroserie, other petroleum, and waste oil.

C Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

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

Pumped storage facility production minus energy used for pumping.

Humped storage racinity production minute strong, asserting
 Wood, black liquor, and other wood waste.
 Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

h Solar thermal and photovoltaic energy.
i "Total" includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies, which are not separately displayed.
J Included in "Conventional Hydroelectric Power."
k Hydroelectric data through 1988 are for generation at electric utilities and industrial plants only; beginning in 1989, data also include generation at independent power producers and commercial plants. For all other series, data through 1988 are for generation at electric utilities only; beginning in 1989, data also include generation at independent power producers, commercial plants, and industrial plants. industrial plants. NA=Not available.

Notes, Web Page, and Sources: See end of section.

Electricity Net Generation: Electric Power Sector Table 7.2b

(Million Kilowatthours)

		Fossil F	uels						Renewable	Energy			
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gases ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power	Wood ^f	Waste ⁹	Geo- thermal	Solar ^h	Wind	Total ⁱ
1973 Total 1974 Total 1975 Total 1976 Total 1977 Total 1977 Total 1978 Total 1979 Total 1980 Total 1981 Total 1982 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1988 Total 1988 Total 1988 Total 1989 Total 1999 Total 1991 Total 1992 Total 1993 Total 1993 Total	847,651 828,433 852,786 944,391 985,219 975,742 1,075,037 1,161,562 1,203,203 11,192,042 1,341,681 1,402,128 1,385,831 1,463,781 1,540,653 1,562,366 1,572,109 1,568,846 1,597,714 1,665,464 1,665,464 1,666,276	314,343 300,931 289,095 319,988 358,179 365,060 303,525 245,994 206,421 144,499 119,808 100,202 136,585 118,493 148,900 159,005 118,864 112,798 92,238 105,425 98,677 68,146	340,858 320,065 299,778 294,624 305,505 305,391 329,485 346,240 345,777 305,260 274,098 297,394 291,946 248,508 272,621 252,801 297,295 309,486 317,773 334,274 342,222 385,689 419,179	NA NA NA NA NA NA NA NA NA NA 454 621 7192 1,927	83,479 113,976 172,505 191,104 250,883 276,403 255,155 251,116 272,674 282,773 293,677 327,634 383,691 414,038 455,270 526,973 529,355 576,862 612,565 618,776 610,291 640,440	(i) (i) (i) (i) (i) (i) (i) (i) (i) (i)	272,083 301,032 300,047 283,707 220,475 280,419 279,783 327,6021 260,684 309,213 332,130 321,150 281,149 290,844 249,695 222,940 269,189 289,753 286,019 250,016 277,524 254,005 305,410	130 69 18 848 849 7300 275 245 196 461 743 492 783 936 5,582 7,032 7,732 7,597 9,152 9,232 7,597	198 182 174 182 173 140 198 158 123 125 163 425 640 685 694 738 7,743 11,500 13,854 15,924 16,223 16,984	1,966 2,453 3,246 3,616 3,582 2,978 3,889 5,686 4,843 6,7741 9,325 10,308 10,775 10,308 15,434 15,966 16,138 16,789 15,535 13,378	NA NA NA NA NA NA NA NA 11 11 12 251 367 472 400 462 487	NA NA NA NA NA NA NA NA 12,112 2,789 2,951 2,958 3,006 3,447	1,860,710 1,867,139 1,917,649 2,037,696 2,124,323 2,206,331 2,247,372 2,286,439 2,294,812 2,241,211 2,310,285 2,416,304 2,469,841 2,487,310 2,572,127 2,704,250 2,848,227 2,901,322 2,935,561 2,935,561 2,934,374 3,043,897 3,088,725 3,194,230
1996 Total 1997 Total 1998 Total 1999 Total 2000 Total 2001 Total	1,771,973 1,820,762 1,850,193 1,858,618 1,943,111 1,882,826	74,783 86,479 122,211 111,539 105,192 119,149	378,757 399,596 449,293 472,996 517,978 554,940	1,341 1,533 2,315 1,607 2,028 586	674,729 628,644 673,702 728,254 753,893 768,826	-3,088 -4,040 -4,467 -6,097 -5,539 -8,823	341,159 350,648 317,867 314,663 271,338 213,749	8,386 8,680 8,608 8,961 8,916 8,294	17,816 18,485 19,233 19,493 20,307 19,486	14,329 14,726 14,774 14,827 14,093 13,741	521 511 502 495 493 543	3,234 3,288 3,026 4,488 5,593 6,737	3,284,141 3,329,375 3,457,416 3,529,982 3,637,529 3,580,053
Page 2 January February March April May June July August September October November December Total	162,521 141,430 149,724 140,498 149,646 162,736 181,001 177,962 163,497 157,195 154,172 170,231 1,910,613	6,265 5,300 7,826 7,463 7,767 7,428 9,504 9,350 7,703 7,690 5,817 7,620 89,733	40,827 37,533 43,875 42,701 43,200 58,686 76,391 76,936 61,381 47,932 38,737 39,484 607,683	201 107 160 131 128 140 198 202 181 171 165 186 1,970	70,926 61,658 63,041 58,437 63,032 66,372 70,421 70,778 64,481 60,493 61,520 68,905 780,064	-750 -586 -684 -585 -539 -863 -998 -935 -777 -681 -666 -680	21,498 19,912 20,732 23,929 26,375 27,957 25,196 20,806 16,828 19,282 21,138 260,491	805 652 776 661 702 749 801 779 808 739 756 782 9,009	1,665 1,481 1,688 1,562 1,694 1,742 1,840 1,836 1,699 1,624 1,619 1,732	1,287 1,132 1,245 1,115 1,216 1,151 1,262 1,227 1,195 1,235 1,189 1,236	11 24 44 46 58 96 86 75 53 31 28 4 555	811 714 852 1,024 1,078 1,126 890 977 736 734 656 755	306,171 269,476 289,322 277,126 294,517 327,553 366,980 360,351 317,976 294,096 283,374 311,516 3,698,458
Pebruary February April May June July August September October November December Total	178.525 154,267 152,801 139,889 147,568 159,239 180,771 183,600 161,900 157,345 157,073 175,019 1,948,007	11,653 10,021 9,805 7,743 7,541 10,500 11,630 11,895 8,346 8,111 9,212 112,522	41,058 36,778 39,085 37,302 41,967 45,284 67,944 73,491 49,084 43,940 38,250 36,464 550,647	111 97 99 123 105 94 92 90 94 112 110 103 1,230	69,211 60,942 59,933 56,776 62,194 64,181 69,653 69,024 63,584 60,016 59,6600 68,612 763,725	-760 -774 -797 -554 -619 -780 -755 -818 -785 -634 -715 -677 -8,668	19,295 19,263 23,816 24,577 29,367 27,995 24,173 22,331 17,783 17,899 19,289 23,500 269,289	820 700 754 703 604 688 819 835 721 805 781 816 9,047	1,534 1,429 1,673 1,657 1,670 1,671 1,782 1,706 1,517 1,677 1,727 1,827	1,144 1,028 1,118 1,043 1,035 1,092 1,099 1,096 1,086 1,077 1,085 1,246 13,149	13 18 50 60 68 91 63 62 56 36 14 4 535	558 692 1,008 1,099 891 964 917 779 824 909 995 1,095 10,729	323,210 284,466 289,424 270,496 292,431 311,065 358,244 364,220 304,244 291,341 284,297 317,231 3,690,670
2004 January	179,816 160,973 152,104 140,060 155,821 164,901 178,005 176,815 1,308,495	14,152 8,517 8,972 8,368 9,712 10,159 11,334 10,368 81,582	39,351 41,725 40,843 43,131 52,275 55,515 69,025 68,378 410,243	145 142 175 223 179 204 283 261 1,613	70,789 64,103 63,285 58,635 64,917 67,787 71,975 71,064 532,557	-753 -642 -683 -670 -664 -676 -663 -805	22,710 20,725 22,593 20,736 23,604 24,914 22,872 21,274 179,427	826 792 788 690 715 701 850 852 6,213	1,648 1,505 1,642 1,634 1,757 1,692 1,763 1,740	1,254 1,177 1,199 1,119 1,172 1,190 1,241 1,219 9,571	12 18 53 57 81 88 82 73 463	918 967 1,187 1,236 1,635 1,360 1,096 997 9,396	330,891 300,051 292,194 275,242 311,233 327,841 357,879 352,261 2,547,591
2003 8-Month Total 2002 8-Month Total	1,296,670 1,265,519	80,789 60,903	382,909 420,150	811 1,268	511,913 524,664	-5,858 -5,940	190,817 186,405	5,923 5,925	13,122 13,507	8,655 9,635	425 439	6,906 7,473	2,493,557 2,491,496

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

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

NA=Not available.
Notes, Web Page, and Sources: See end of section.

petroleum, and waste oil.

C Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

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

Pumped storage facility production minus energy used for pumping.
 Wood, black liquor, and other wood waste.

 ⁹ Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.
 ^h Solar thermal and photovoltaic energy.
 ⁱ "Total" includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies, which are not separately displayed.
 ^j Included in "Conventional Hydroelectric Power."
 ^k Through 1988, data are for generation at electric utilities only. Beginning in 1989, data also include generation at independent power producers.
 NA=Not available.

Table 7.2c Electricity Net Generation: Commercial and Industrial Sectors

(Million Kilowatthours)

		Com	mercial Se	ectora					Industria	I Sector ^b			
	Coal ^c	Petro- leum ^d	Natural Gas ^e	Waste ^f	Total ⁹	Coal ^c	Petro- leum ^d	Natural Gas ^e	Other Gases ^h	Hydro- power ⁱ	Wood ^j	Waste ^f	Total ^k
1989 Total	736	558	2,155	527	4,251	20,677	4,955	53,179	7,297	2,722	21,557	893	114,828
1990 Total	796	589	3,272	812	5,837	21,107	7,169	60,007	9,641	2,975	25,379	949	130,830
1991 Total	775	413	3,213	883	5,659	21,002	6,540	60,567	10,501	2,844	25,863	927	132,579
1992 Total	749	302	3,867	961	6,228	22,743	7,615	65,933	11,953	2,950	27,916	932	143,280
1993 Total	864	334	4,471	1,018	7,000	23,742	7,028	68,234	11,890	2,871	28,358	1,092	146,294
1994 Total	850	417	4,929	1,162	7,619	23,568	6,808	69,600	12,112	6,028	28,650	983	151,178
1995 Total	998	379	5,162	1,519	8,232	22,372	6,030	71,717	11,943	5,304	28,868	900	151,025
1996 Total	1,051	369	5,249	2,176	9,030	22,172	6,260	71,049	13,015	5,878	28,354	919	151,017
1997 Total	1.040	427	4,725	2,342	8,701	23,214	5,649	75,078	11,814	5,685	28,225	882	154,097
1998 Total	985	383	4,879	2,335	8,748	22,337	6,206	77,085	11,170	5,349	27,693	880	154,132
1999 Total	995	434	4,607	2,393	8,563	21,474	6,088	78,793	12,519	4,758	28,060	686	156,264
2000 Total	1,097	432	4,262	1,985	7,903	22,056	5,597	78,798	11,927	4,135	28,652	839	156,673
2001 Total	995	438	4,434	1,464	7,416	20,135	5,293	79,755	8,454	3,145	26,888	815	149,175
2002 January	85	35	355	111	597	1,752	390	7,231	721	296	2,448	103	13,173
February	70	36	291	92	500	1,548	327	6,484	653	279	2,190	92	11,850
March	84	32	338	110	573	1,677	359	7,001	743	276	2,184	103	12,654
April	66	27	328	117	546	1,741	343	6,118	759	317	2,535	92	12,176
May	69	27	314	145	566	1,691	333	6,761	781	287	2,459	86	12,592
June	83	30	378	141	642	1,848	338	6,567	868	255	2,646	87	12,829
July	101	38	448	145	743	2,092	371	7,079	873	273	2,638	103	13,820
August	102	37	490	157	797	1.891	350	7,051	915	277	2.589	102	13,438
September	88	34	392	153	676	1,782	339	6,388	872	247	2,505	89	12,628
October	78	31	344	138	600	1,827	395	5,925	737	343	2,607	75	12,363
November	78	38	294	142	554	1,804	432	6,131	730	447	2,405	89	12,361
December	88	65	339	120	622	1,872	426	6,277	840	529	2,439	83	12,697
Total	992	431	4,310	1,572	7,415	21,525	4,403	79,013	9,493	3,825	29,643	1,104	152,580
2003 January	90	98	376	132	703	2,017	587	7,250	797	413	2,155	75	13,591
February	86	77	293	121	584	1,710	462	6,220	633	362	1,980	69	11,685
March	85	42	356	168	662	1,804	476	6,460	802	524	2,396	88	13,001
April	81	23	341	171	632	1,696	381	5,698	610	414	2,288	77	11,593
May	66	23	415	168	694	1,663	406	5,472	652	539	2,187	85	11,425
June	83	32	466	165	752	1,686	436	6,150	769	499	2,253	81	12,225
July	100	39	396	164	713	1,890	434	6,468	805	498	2,289	82	12,825
August	103	44	427	161	745	1,892	407	6,748	729	497	2,173	97	12,963
September	87	27	284	152	554	1,602	343	5,465	736	428	1,992	101	11,001
October	79	27	322	171	604	1,738	461	6,342	926	407	2,389	100	12,766
November	82	26	293	146	552	1.669	345	5,973	1,124	440	3,281	102	13,315
December	89	43	284	167	590	1,867	497	6,062	1,125	601	2,511	98	13,146
Total	1,033	499	4,252	1,888	7,785	21,233	5,235	74,308	9,707	5,621	27,895	1,053	149,534
2004 January	97	102	297	137	639	1,929	642	5,937	1,118	514	2,389	81	12,890
February	98	39	313	124	583	1,786	367	6,073	1,039	440	2,245	80	12,209
March	91	37	300	141	581	1,781	374	6,251	1,089	408	2,253	87	12,432
April	72	34	285	149	550	1,659	370	6,069	1,099	363	2,325	107	12,186
May	90	29	337	164	633	1,674	362	7,000	1,096	371	2,219	101	13,042
June	97	30	342	158	638	1,742	400	6,722	1,128	332	2,224	96	12,903
July	105	35	378	160	683	1,905	405	6,926	1,005	335	2,363	104	13,391
August	108	32	376	157	678	1,840	390	6,954	1,034	360	2,355	113	13,331
8-Month Total	756	338	2,628	1,189	4,985	14,316	3,310	51,931	8,606	3,124	18,373	770	102,383
2003 8-Month Total	695	377	3,070	1,251	5,485	14,357	3,589	50,465	5,797	3,745	17,722	652	99,306
2002 8-Month Total	661	264	2,941	1,019	4,962	14,242	2,811	54,291	6,315	2,259	19,688	769	102,532

^a Commercial combined-heat-and-power (CHP)

derived from fossil fuels.

- Conventional hydroelectric power.
- Wood, black liquor, and other wood waste.

Sources: • 1989-1997: Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-860B, "Annual Electric Generator Report-Nonutility." • 2001 and 2002: EIA, Form EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant Report." • 2003 forward: EIA, Form EIA-906, "Power Plant Report."

electricity-only plants. See note at end of section.

b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See note at end of section.

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

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

petroleum, and waste oil. e Natural gas, plus a small amount of supplemental gaseous fuels that

cannot be identified separately.

f Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

g Includes a small amount of other gases, wood, and other, which are not

separately displayed.

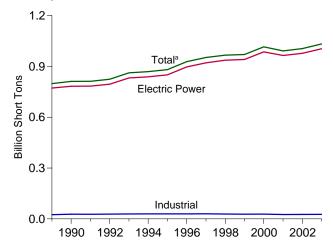
h Blast furnace gas, propane gas, and other manufactured and waste gases

Includes batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies, which are not separately displayed.

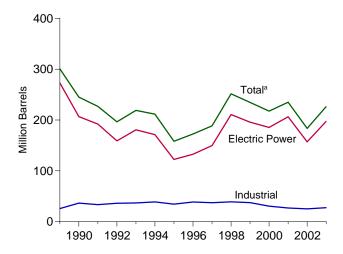
Notes: • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 states and the District of Columbia. Web Page: http://www.eia.doe.gov/emeu/mer/elect.html.

Figure 7.3a Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output

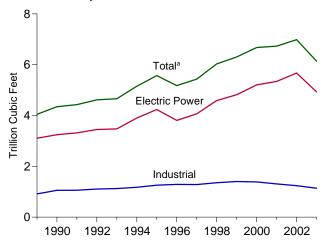




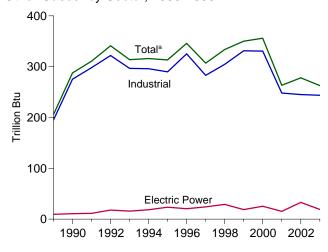
Petroleum by Sector, 1989-2003



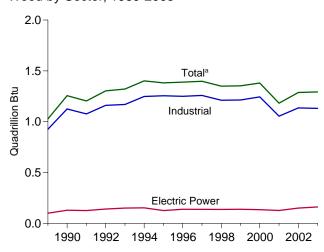
Natural Gas by Sector, 1989-2003



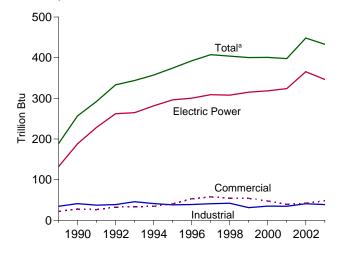
Other Gases^b by Sector, 1989-2003



Wood by Sector, 1989-2003



Waste by Sector, 1989-2003



^aIncludes commercial sector.

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

Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/elect.html. Sources: Tables 7.3a, 7.3b, and 7.3c.

Table 7.3a Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Total (All Sectors)

				Petroleum]				
	Coal ^a	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ⁹	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	TI	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	on Btu	
4000 Tatal	798,181	29,143	266,211	656	915	300,583	4,049	206	1,028	189	88
1989 Total	811,538	29,143	200,211	1,332	2,832	244,998	4,346	288	1,026	257	86
1991 Total	812,124	19,590	193,073	1,215	2,566	226,708	4,429	311	1,204	292	114
1992 Total	824,512	16,852	160,941	1,695	3,366	196,318	4,618	341	1,303	333	92
1993 Total	861,904	19,293	176,992	1,571	4,200	218,855	4,662	314	1,321	344	85
1994 Total	869,405	25,177	164,047	1,539	4,157	211,547	5,151	316	1,401	357	92
1995 Total	881,012	21,697	112,168	1,322	4,590	158,140	5,572	313	1,382	374	97
1996 Total	928,015	22,444	124,607	2,468	4,596	172,499	5,178	346	1,389	392	91
1997 Total	952,955	22,893	134,623	526	6,095	188,517	5,433	307	1,397	407	103
1998 Total	966,615	30,006	189,267	1,230	6,196	251,486	6,030	334	1,349	404	95
1999 Total	970,175	30,616	172,319	1,812	5,989	234,694	6,305	350	1,352	400	101
2000 Total	1,015,398	34,572	156,673	2,904	4,669	217,494	6,677	356	1,380	401	109
2001 Total	991,635	33,724	177,137	1,418	4,532	234,940	6,731	263	1,182	398	94
2002 January	84,830	2,073	8,147	295	570	13,365	501	23	109	37	7
February	74,236	1,343	6,768	185	566	11,125	449	20	94	33	8
March	78,096	2,078	10,451	267	603	15,812	520	22	99	37	8
April	73,775	1,904	9,743	259	575	14,779	508	21	100	35	7
May	78,744	2,261	9,748	297	634	15,475	523	22	108	37	6
June	85,778	1,853	9,761	216	693	15,296	660	24	101	38	6
July	95,331	2,849	12,533	309	654	18,963	852	25	116	40	9
August	94,033	2,637	12,336	283	709	18,798	833	24	103	40	7
September	86,410	1,862	10,086	211	651	15,414	676	25	113	37	9
October	83,060	2,172	10,271	261	572	15,563	546	23	120	37	9
November	81,654	1,689	8,045	285	533	12,686	454	24	108	37	8
December	89,198	2,028	10,747	388	594	16,132	464	25	114	39	7
Total	1,005,144	24,749	118,637	3,257	7,353	183,409	6,986	278	1,287	448	93
2003 January	93,739	5,235	15,522	398	527	23,791	480	21	97	32	4
February	81,134	4,228	13,434	542	438	20,395	427	19	92	30	4
March	81,148	3,704	13,768	400	395	19,845	457	23	110	36	5
April	74,192	1,783	11,277	353	538	16,103	425	20	103	35	5
May	78,760	3,192	9,724	465	516	15,963	472	18	99	36	5
June	84,916	3,410	13,330	537	624	20,396	510	22	105	36	4
July	95,854	2,531	15,918	623	710	22,623	715	23	110	39	4
August	97,190	2,265	16,990	494	684	23,171	766	22	106	38	4
September	85,811	1,333	11,095	454	658	16,173	522	19	99	34	4
October	83,072	1,686	11,055	448	685	16,614	495	23	119	38 38	4
November	83,918	1,248	7,730	269	680	12,649	437 433	26	133		
December Total	92,769 1,032,503	1,992 32,608	12,909 152,752	232 5,214	733 7,190	18,800 226,522	6,1 39	28 263	119 1,293	40 433	5 51
2004 January	95,303	4,575	19,330	875	721	28,387	437	32	118	37	5
2004 January	95,303 85,636	1,454	12,224	194	607	16,907	454	29	107	33	3
March	80,425	1,454	12,224	209	622	17,478	454 452	33	107	35	3
April	74,590	1,261	11,726	178	624	16,288	465	33	111	35	3
May	82,751	1,930	13,261	224	653	18,681	567	33	103	39	3
June	87,827	1,665	14,635	134	614	19.504	589	31	103	38	4
July	95,263	1,465	16,699	185	645	21,576	714	29	112	36 37	6
August	94,692	1,403	14,941	119	704	19,954	703	32	112	38	4
8-Month Total	696,487	15,120	115,577	2,118	5,192	158,773	4,381	252	875	293	30
2003 8-Month Total	686,933	26,348	109,961	3,811	4,433	162,286	4,251	168	822	282	34
2002 8-Month Total	664,823	16,998	79,487	2,111	5.004	123,614	4,846	182	832	297	58

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

synthetic coal.

b For 1989-2000, electric utility data are for light oil (fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel).

^c For 1989-2000, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).

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

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

Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

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

^h Wood, black liquor, and other wood waste.

Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

Notes: • Data are for fuels consumed to produce electricity and useful thermal output at electricity-only and 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: http://www.eia.doe.gov/emeu/mer/elect.html.

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

Table 7.3b Consumption of Combustible Fuels for Electricity Generation and Useful Thermal Output: Electric Power Sector

				Petroleum							
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trill	ion Btu	
1989 Total	772.190	26.156	244.179	10	517	272 024	3.105	9	100	132	3
1990 Total	772,190 782,567	16,567	184,915	26	1.008	272,931 206,550	3,245	11	129	188	(s)
1991 Total	783,874	14,359	172,625	59	974	191.911	3,243	11	126	229	4
1992 Total	795,094	12,623	138,726	128	1,494	158,948	3,448	18	140	262	5
1993 Total	831,645	14,849	152,481	239	2,611	180,625	3,473	16	150	265	5
1994 Total	838,354	20,612	138,222	771	2,315	171,178	3,903	19	152	282	3
1995 Total	850,230	18,553	90,023	499	2,674	122,447	4,237	24	125	296	2
1996 Total	896,921	18,780	99,951	653	2,642	132,593	3,807	20	138	300	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	940,922	24.058	152,493	544	3,735	195,769	4.820	19	138	315	1
2000 Total	985,821	30,016	138,513	454	3,275	185,358	5,206	25	134	318	i
2001 Total	964,433	29,274	159,504	377	3,427	206,291	5,342	15	126	324	0
2002 January	82,424	1,838	6,872	92	441	11,007	381	3	13	30	(s)
February	72,144	1,137	5,789	45	459	9,265	344	2	10	27	1
March	75.823	1.827	9,271	58	486	13.588	407	3	13	30	(s)
April	71,560	1,740	8,687	105	464	12,851	404	2	11	28	(s)
May	76,528	2,017	8,671	136	523	13,441	410	2	11	30	1
June	83,565	1,698	8,746	86	564	13,348	551	2	12	31	1
July	92,766	2,613	11,437	173	500	16,721	734	3	13	33	1
August	91,752	2,430	11,306	166	562	16,710	718	3	13	33	1
September	84,144	1,640	9,031	104	511	13,331	569	3	14	31	1
October	80,714	1,921	9,091	93	430	13,255	442	3	13	30	(s)
November	79,301	1,343	6,687	79	412	10,171	352	3	13	30	(s)
December	86,784	1,672	9,186	132	464	13,308	360	3	14	32	(s)
Total	977,507	21,876	104,773	1,267	5,816	156,996	5,672	33	150	365	7
2003 January	91,109	4,441	14,061	251	402	20,764	367	2	15	27	(s)
February	78,838	3,691	11,984	387	343	17,778	329	2	12	24	(s)
March	78,770	3,273	12,320	260	292	17,311	353	2	13	29	(s)
April	71,993	1,590	10,123	87	432	13,960	333	2	12	28	(s)
May	76,714	2,378	8,778	87	401	13,249	381	1	11	29	(s)
June	82,659	3,159	12,227	99	493	17,951	411	1	13	29	(s)
July	93,326	2,283	14,758	136	589	20,122	609	1	14	32	(s)
August	94,649	2,047	15,767	187	575	20,874	654	2	15	30	(s)
September	83,695	1,192	10,255	91	547	14,273	434	2	13	27	(s)
October	80,710	1,475	9,724	92	559	14,087	391	2	15	30	(s)
November	81,620	1,088	6,671	157	577	10,799	338	2	14	30	(s)
December Total	90,201 1,004,283	1,668 28,285	11,402 138,070	124 1,959	588 5,797	16,133 197,301	329 4,930	2 19	15 161	32 346	(s) 2
2004 January	92,386	4,036	16,948	700	628	24,825	342	2	15	30	(0)
2004 January February	92,386 83,183	4,036 1,251	10,723	700 79	525	24,825 14,677	342 356	2	15	26	(s) (s)
March	78.005	1,231	11,352	116	542	15.394	355	3	14	28	(s)
April	78,005 72,349	1,215	10.484	85	542 542	15,394	369	3	12	28 28	(s) (s)
May	80,710	1,760	12,136	140	569	16,882	456	3	13	30	(s)
June	85.475	1,700	13.401	64	515	17.539	486	3	12	29	(s)
July	92,731	1,309	15,401	77	546	19,525	601	3	16	30	(s)
August	92,731	1,241	13,722	55	616	18,097	589	3	15	30	(s)
8-Month Total	677,012	13,409	104,176	1,315	4,483	141,314	3,554	23	110	231	(s) 1
2003 8-Month Total	668,057	22,863	100,018	1,494	3,527	142,009	3,437	12	104	227	1
2002 8-Month Total	646,563	15,301	70,778	859	3,999	106,931	3,949	21	96	243	5

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

b For 1989-2000, electric utility data are for light oil (fuel oil nos. 1 and 2, and

(s)=l ess than 0.5 trillion Btu

Notes: • Data are for fuels consumed to produce electricity and useful thermal output at electricity-only and 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: http://www.eia.doe.gov/emeu/mer/elect.html.

Sources: • 1989-1997: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report" and Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-759, "Monthly Power Plant Report" and Form EIA-860B, "Annual Electric Generator Report-Nonutility." 2001 and 2002: EIA, Form EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant Report."
 2003 forward: EIA, Form EIA-906, "Power Plant Report."

small amounts of kerosene and jet fuel).

^c For 1989-2000, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).

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

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

f Natural gas, plus a small amount of supplemental gaseous fuels that cannot

be identified separately.

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

Wood, black liquor, and other wood waste.

¹ Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

j Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

Table 7.3c Consumption of Selected Combustible Fuels for Electricity Generation and Useful Thermal Output: Commercial and Industrial Sectors

Petroleum			Commerci	al Sectora				Indu	strial Sector	b		
Short Tons Barrels Oubic Feet Btu Short Tons Barrels Oubic Feet Trillion Btu		Coalc	Petroleum ^d		Waste ^f	Coalc	Petroleumd			Woodh	Waste ^f	Other ⁱ
1990 Total										Trillion	n Btu	
1990 Total	1989 Total	1.125	1.967	30	22	24.867	25.685	914	195	926	35	85
1991 Total												86
1992 Total												110
1993 Total												87
1994 Total		, -						, -				80
1995 Total	1994 Total											89
1996 Total	1995 Total											9
1997 Total												89
1998 Total 1,443 1,807 87 54 28,553 88,910 1,355 305 1,211 42 1999 Total 1,490 1,613 84 54 27,763 37,312 1,401 331 1,213 31 12000 Total 1,547 1,615 85 47 28,031 30,520 1,386 331 1,243 35 2001 Total 1,448 1,832 79 39 25,755 26,817 1,310 248 1,054 35 2002 January 127 99 6 3 2,278 2,259 114 20 97 4 6 7 7 7 8 7 8 7 8 7 9 8 7 8 7 9 8 7 8 7 9 8 7 8 7		,										102
1999 Total												93
2000 Total												99
2001 Total												108
2002 January		, -	,				,					94
February	2001 Total	1,440	1,032	19	39	23,733	20,017	1,310	240	1,034	33	9-
February 102 92 5 3 1,990 1,768 100 18 84 3 March 124 88 6 3 2,150 2,136 107 20 86 4 April 100 84 6 3 2,115 1,844 97 19 89 3 3 June 112 87 6 4 2,110 1,953 107 20 96 3 3 June 112 87 6 4 2,110 1,851 107 20 96 3 3 June 112 87 6 4 2,110 1,851 107 20 96 3 3 June 112 87 6 4 2,110 1,861 102 22 89 3 3 June 126 115 7 4 2,439 2,127 111 22 103 3 3 3 3 3 3 3 3 3	2002 January	127	99	6	3	2,278	2,259	114	20	97	4	7
March 124 88 6 3 2,150 2,136 107 20 86 4 April 100 84 6 3 2,115 1,844 97 19 89 3 May 105 81 5 4 2,110 1,953 107 20 96 3 July 126 115 7 4 2,439 2,127 111 22 103 3 August 127 114 8 4 2,150 1,933 101 22 99 3 September 116 90 7 4 2,150 1,933 101 22 99 3 October 114 89 6 4 2,231 2,219 97 20 107 3 December 134 181 6 3 2,279 2,643 98 22 100 4 Total 1,405		102	92	5	3	1,990	1,768	100	18	84	3	7
April 100 84 6 3 2,115 1,844 97 19 89 3 May 105 81 5 4 2,110 1,953 107 20 96 3 June 1112 87 6 4 2,101 1,861 102 22 89 3 July 126 115 7 4 2,439 2,127 111 22 103 3 August 127 114 8 4 2,153 1,974 108 21 90 3 September 116 90 7 4 2,150 1,933 101 22 99 3 October 114 89 6 4 2,231 2,219 97 20 107 3 November 116 130 5 4 2,237 2,385 97 21 95 4 December 134 181 6 3 2,279 2,643 98 22 100 4 Total 1,405 1,250 74 42 26,232 25,163 1,240 245 1,136 41 2003 January 146 322 6 3 2,484 2,705 106 19 82 3 February 127 270 5 3 2,169 2,347 93 17 79 3 March 125 155 6 4 2,254 2,378 98 21 96 3 April 110 86 5 4 2,254 2,378 98 21 96 3 May 94 67 6 4 2,254 2,378 98 21 96 3 April 110 86 5 4 2,269 2,065 87 18 92 3 May 94 67 6 4 1,952 2,647 85 17 88 3 June 118 104 7 4 2,139 2,341 93 21 92 3 May 94 67 6 4 1,952 2,647 85 17 88 3 June 118 104 7 4 2,139 2,341 93 21 92 3 July 137 144 7 4 2,139 2,341 93 21 92 3 July 137 144 7 4 2,139 2,341 93 21 92 3 August 144 155 8 4 2,397 2,142 104 21 91 3 September 138 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,397 2,142 104 21 91 3 September 137 163 5 4 2,431 2,504 98 26 103 4 December 138 188 6 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,431 2,504 98 26 103 4 Total 1,492 1,709 71 48 26,728 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,278 1,928 11 1,700 95 24 119 4 December 137 163 5 4 2,431 2,504 98 26 103 4 Total 1,492 1,709 71 48 26,728 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,278 1,928 91 31 194 3 April 113 110 6 4 2,278 1,928 91 31 194 3 April 113 110 6 4 2,278 1,928 91 31 194 3 April 113 110 6 4 2,278 1,928 91 31 194 3 April 113 110 6 4 2,278 1,928 91 31 194 3 April 113 110 7 4 2,404 1,939 106 25 96 3 August 128 111 7 4 2,404 1,939 106 25 96 3 August 128 111 7 4 2,404 1,939 106 25 96 3 August 128 111 7 4 2,404 1,939 106 25 96 3 August 128 111 7 4 2,404 1,939 106 25 96 3 August 128 110 7 4 2,404 1,939 106 25 96 3 August 128 110 7 7 4 2,404 1,939 106 25 96 3 August 128 110 7 7 4 2,404 1,939 106 25 96 3 August 128 105 7 4 2,2390 1		124	88	6	3	2,150	2,136	107	20	86	4	7
May 105 81 5 4 2,110 1,953 107 20 96 3 June 112 87 6 4 2,101 1,861 102 22 89 3 July 126 115 7 4 2,439 2,127 111 22 103 3 September 116 90 7 4 2,153 1,974 108 21 90 3 October 114 89 6 4 2,231 2,219 97 20 107 3 November 134 181 6 3 2,279 2,643 98 22 100 4 December 134 181 6 3 2,279 2,643 98 22 100 4 Total 1,405 1,250 74 42 26,522 25,163 1,240 245 1,136 41 2003 <		100	84	6	3		1.844	97	19	89	3	7
Jurie 1112 87 6 4 2,101 1,861 102 22 89 3 July 126 115 7 4 2,439 2,127 111 22 103 3 August 127 114 8 4 2,153 1,974 108 21 90 3 September 116 90 7 4 2,150 1,993 101 22 99 3 October 114 89 6 4 2,231 2,219 97 20 107 3 November 116 130 5 4 2,237 2,385 97 21 95 4 December 134 181 6 3 2,279 2,643 98 22 100 4 Total 1,405 1,250 74 42 26,232 25,163 1,240 245 1,136 41 2003 January 146 322 6 3 2,484 2,705 106 19 82 3 February 127 270 5 3 2,169 2,347 93 17 79 3 March 110 86 5 4 2,287 2,388 98 21 96 3 April 110 86 5 4 2,089 2,056 87 18 92 3 April 110 86 5 4 2,089 2,056 87 18 92 3 June 1118 104 7 4 2,139 2,341 93 21 92 3 July 137 144 7 4 2,391 2,341 93 21 92 3 July 137 144 155 8 4 2,397 2,142 104 21 99 3 July 137 144 155 8 4 2,397 2,142 104 21 99 3 September 121 80 5 4 1,995 1,820 83 17 87 4 October 114 83 6 4 2,264 2,274 99 31 7 87 4 October 114 83 6 4 2,284 2,397 99 21 96 3 August 144 155 8 4 2,397 2,142 104 21 99 3 September 121 80 5 4 1,995 1,820 83 17 87 4 October 114 83 6 4 2,247 2,444 99 21 96 3 August 144 155 8 4 2,397 2,142 104 21 99 3 September 121 80 5 4 1,995 1,820 83 17 87 4 October 114 83 6 4 2,247 2,444 99 21 104 4 November 118 80 5 4 2,180 1,770 95 24 119 4 November 118 88 6 4 2,267 2,444 99 22 26 93 3 February 148 188 6 4 2,247 2,444 99 22 26 93 3 February 148 188 6 4 2,247 2,444 99 22 26 93 3 April 113 110 6 4 2,248 2,7511 1,138 244 1,131 39 2004 January 157 338 6 4 2,760 3,223 89 30 103 4 February 148 188 6 4 2,305 2,042 92 26 93 3 April 113 110 6 4 2,226 1,865 97 28 90 5 June 126 101 6 4 2,226 1,865 97 28 90 5 June 126 101 6 4 2,226 1,865 97 28 90 5 June 126 101 6 4 2,226 1,865 97 28 90 5 June 126 101 6 4 2,226 1,865 97 28 90 5 June 126 101 6 4 2,226 1,865 97 28 90 5 June 126 101 6 4 2,226 1,865 97 28 90 5 June 126 101 6 4 2,226 1,865 97 28 90 5 June 128 105 7 4 2,390 1,751 107 29 98 3 B-Month Total 1,071 1,207 49 32 18,404 16,625 778 229 764 29												6
July 126 115 7 4 2,439 2,127 111 22 103 3 August 127 114 8 4 2,153 1,974 108 22 103 3 September 116 90 7 4 2,150 1,993 101 22 99 3 October 114 89 6 4 2,237 2,219 97 20 107 3 November 116 130 5 4 2,237 2,385 97 21 95 4 December 134 181 6 3 2,279 2,643 98 22 100 4 Total 1,405 1,250 74 42 26,232 25,163 1,962 2,643 98 22 100 4 2003 January 146 322 6 3 2,484 2,705 106 19 82					4							È
August 127 114 8 4 2,153 1,974 108 21 90 3 September 116 90 7 4 2,150 1,993 101 22 99 3 October 114 89 6 4 2,231 2,219 97 20 107 3 November 116 130 5 4 2,237 2,385 97 21 95 4 December 134 181 6 3 2,279 2,643 98 22 100 4 Total 1,405 1,250 74 42 26,232 25,163 1,240 245 1,136 41 2003 January 146 322 6 3 2,484 2,705 106 19 82 3 February 127 270 5 3 2,484 2,705 106 19 82 3 February 127 270 5 3 2,484 2,378 98 21 96 3 April 110 86 5 4 2,254 2,378 98 21 96 3 April 110 86 5 4 2,264 2,378 98 21 96 3 June 118 104 7 4 2,393 2,341 93 21 92 3 June 118 104 7 4 2,139 2,341 93 21 92 3 June 118 104 7 4 2,139 2,341 93 21 92 3 August 144 155 8 4 2,397 2,142 104 21 91 3 September 121 80 5 4 2,287 2,344 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,247 2,444 98 21 104 4 November 118 80 6 4 2,247 2,444 98 21 104 4 November 118 80 6 4 2,247 2,444 98 21 104 4 November 118 80 6 4 2,247 8,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,235 2,042 92 26 93 3 3 4 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1												8
September 116 90 7 4 2,150 1,993 101 22 99 3 October 114 89 6 4 2,237 2,385 97 21 95 4 Docember 134 181 6 3 2,279 2,643 98 22 100 4 2003 January 146 322 6 3 2,484 2,705 106 19 82 3 February 127 270 5 3 2,169 2,347 93 17 79 3 March 125 155 6 4 2,254 2,378 98 21 96 3 April 110 86 5 4 2,089 2,056 87 18 92 3 May 94 67 6 4 1,952 2,647 85 17 88 3 3 June												6
October 114 89 6 4 2,231 2,219 97 20 107 3 November 116 130 5 4 2,237 2,219 97 21 95 4 December 134 181 6 3 2,279 2,643 98 22 100 4 Total 1,405 1,250 74 42 26,232 25,163 1,240 245 1,136 41 2003 January 146 322 6 3 2,484 2,705 106 19 82 3 February 127 270 5 3 2,169 2,347 93 17 79 3 March 125 155 6 4 2,254 2,378 98 21 96 3 April 110 86 5 4 2,089 2,056 87 18 92 3				-		,						g
November 116 130 5 4 2,237 2,385 97 21 95 4 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					•							g
December	November			-	•							8
Total 1,405 1,250 74 42 26,232 25,163 1,240 245 1,136 41 2003 January 146 322 6 3 2,484 2,705 106 19 82 3 February 127 270 5 3 2,169 2,347 93 17 79 3 March 125 155 6 4 2,254 2,378 98 21 96 3 April 110 86 5 4 2,089 2,056 87 18 92 3 May 94 67 6 4 1,952 2,647 85 17 88 3 June 118 104 7 4 2,391 2,356 99 21 96 3 August 144 155 8 4 2,397 2,142 104 21 91 3 September <												7
2003 January 146 322 6 3 2,484 2,705 106 19 82 3 February 127 270 5 3 2,169 2,347 93 17 79 3 March 125 155 6 4 2,254 2,378 98 21 96 3 April 110 86 5 4 2,089 2,056 87 18 92 3 May 94 67 6 4 1,952 2,647 85 17 88 3 June 118 104 7 4 2,139 2,341 93 21 96 3 July 137 144 7 4 2,397 2,142 104 21 96 3 August 144 155 8 4 2,397 2,142 104 21 91 3 September 121												85
February 127 270 5 3 2,169 2,347 93 17 79 3 March 125 155 6 4 2,254 2,378 98 21 96 3 April 110 86 5 4 2,089 2,056 87 18 92 3 May 94 67 6 4 1,952 2,647 85 17 88 3 June 118 104 7 4 2,139 2,341 93 21 92 3 July 137 144 7 4 2,391 2,356 99 21 96 3 August 144 155 8 4 2,397 2,142 104 21 91 3 September 121 80 5 4 1,995 1,820 83 17 87 4 October 114 83 6 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,180 1,770 95 24 119 4 November 137 163 5 4 2,431 2,504 98 26 103 4 Total 1,492 1,709 71 48 26,728 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,262 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,2760 3,223 89 30 103 4 February 148 188 6 4 2,305 2,042 92 26 93 3 March 143 156 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,278 1,928 91 31 94 3 April 113 110 7 4 2,2404 1,939 106 25 96 3 August 128 111 7 4 2,404 1,939 106 25 96 3 August 128 111 7 4 2,404 1,939 106 25 96 3 August 128 105 7 4 2,390 1,751 107 29 98 3 August 128 105 7 4 2,390 1,751 107 29 98 3 B-Month Total 1,071 1,207 49 32 18,404 16,252 778 229 764 29	!			_								
March 125 155 6 4 2,254 2,378 98 21 96 3 April 110 86 5 4 2,089 2,056 87 18 92 3 May 94 67 6 4 1,952 2,647 85 17 88 3 June 118 104 7 4 2,139 2,341 93 21 92 3 July 137 144 7 4 2,391 2,356 99 21 96 3 August 144 155 8 4 2,397 2,142 104 21 91 3 September 121 80 5 4 1,995 1,820 83 17 87 4 October 114 83 6 4 2,247 2,444 98 21 104 4 104 4 104 4 <td></td> <td>4</td>												4
April												3
May 94 67 6 4 1,952 2,647 85 17 88 3 June 118 104 7 4 2,139 2,341 93 21 92 3 July 137 144 7 4 2,391 2,356 99 21 96 3 August 144 155 8 4 2,397 2,142 104 21 91 3 September 121 80 5 4 1,995 1,820 83 17 87 4 October 114 83 6 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,180 1,770 95 24 119 4 December 137 163 5 4 2,431 2,504 98 26 103 4 Total 1,492 1,709 71 48 26,728 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,260 3,223 89 30 103 4 February 148 188 6 4 2,305 2,042 92 26 93 3 March 143 156 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,128 1,801 90 30 99 3 May 127 98 6 4 1,914 1,702 104 30 91 5 June 126 101 6 4 2,226 1,865 97 28 90 5 July 128 111 7 4 2,404 1,939 106 25 96 3 August 128 111 7 4 2,390 1,751 107 29 98 3 August 128 111 7 4 2,404 1,939 106 25 96 3 August 128 105 7 4 2,390 1,751 107 29 98 3 August 128 105 7 4 2,390 1,751 107 29 98 3 August 128 105 7 4 2,390 1,751 107 29 98 3 August 1,071 1,207 49 32 18,404 16,252 778 229 764 29												5
June 118 104 7 4 2,139 2,341 93 21 92 3 July 137 144 7 4 2,391 2,356 99 21 96 3 August 144 155 8 4 2,397 2,142 104 21 91 3 September 121 80 5 4 1,995 1,820 83 17 87 4 October 114 83 6 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,180 1,770 95 24 119 4 November 118 80 5 4 2,180 1,770 95 24 119 4 December 137 163 5 4 2,181 2,504 98 26 103 4 Total 1,492 <td></td> <td></td> <td></td> <td>-</td> <td>•</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td>4</td>				-	•						_	4
July 137 144 7 4 2,391 2,356 99 21 96 3 August 144 155 8 4 2,397 2,142 104 21 91 3 September 121 80 5 4 1,995 1,820 83 17 87 4 October 114 83 6 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,180 1,770 95 24 119 4 December 137 163 5 4 2,180 1,770 95 24 119 4 Total 1,492 1,709 71 48 26,728 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,760 3,223 89 30 103 4 February </td <td></td> <td>5</td>												5
August 144 155 8 4 2,397 2,142 104 21 91 3 September 121 80 5 4 1,995 1,820 83 17 87 4 October 114 83 6 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,180 1,770 95 24 119 4 December 137 163 5 4 2,431 2,504 98 26 103 4 Total 1,492 1,709 71 48 26,728 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,760 3,223 89 30 103 4 February 148 188 6 4 2,760 3,223 89 30 103 4 February 148 188 6 4 2,278 1,928 91 31 <td< td=""><td>June</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4</td></td<>	June											4
September 121 80 5 4 1,995 1,820 83 17 87 4 October 114 83 6 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,180 1,770 95 24 119 4 December 137 163 5 4 2,431 2,504 98 26 103 4 Total 1,492 1,709 71 48 26,728 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,760 3,223 89 30 103 4 February 148 188 6 4 2,305 2,042 92 26 93 3 March 143 156 6 4 2,278 1,928 91 31 94 3 April <td>July</td> <td>137</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>4</td>	July	137		-								4
October 114 83 6 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,180 1,770 95 24 119 4 December 137 163 5 4 2,431 2,504 98 26 103 4 Total 1,492 1,709 71 48 26,728 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,760 3,223 89 30 103 4 February 148 188 6 4 2,305 2,042 92 26 93 3 March 143 156 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,128 1,801 90 30 99 3 May												4
October 114 83 6 4 2,247 2,444 98 21 104 4 November 118 80 5 4 2,180 1,770 95 24 119 4 December 137 163 5 4 2,431 2,504 98 26 103 4 Total 1,492 1,709 71 48 26,728 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,760 3,223 89 30 103 4 February 148 188 6 4 2,305 2,042 92 26 93 3 March 143 156 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,128 1,801 90 30 99 3 May	September	121								87	•	4
December 137 163 5 4 2,431 2,504 98 26 103 4 Total 1,492 1,709 71 48 26,728 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,760 3,223 89 30 103 4 February 148 188 6 4 2,305 2,042 92 26 93 3 March 143 156 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,128 1,801 90 30 99 3 May 127 98 6 4 1,914 1,702 104 30 91 5 June 126 101 6 4 2,226 1,865 97 28 90 5 July <		114		6	4	2,247	2,444			104	4	4
Total 1,492 1,709 71 48 26,728 27,511 1,138 244 1,131 39 2004 January 157 338 6 4 2,760 3,223 89 30 103 4 February 148 188 6 4 2,305 2,042 92 26 93 3 March 143 156 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,128 1,801 90 30 99 3 May 127 98 6 4 1,914 1,702 104 30 91 5 June 126 101 6 4 2,226 1,865 97 28 90 5 July 128 111 7 4 2,404 1,939 106 25 96 3 August <td< td=""><td>November</td><td>118</td><td>80</td><td>5</td><td>4</td><td>2,180</td><td>1,770</td><td>95</td><td>24</td><td>119</td><td>4</td><td>4</td></td<>	November	118	80	5	4	2,180	1,770	95	24	119	4	4
2004 January 157 338 6 4 2,760 3,223 89 30 103 4 February 148 188 6 4 2,305 2,042 92 26 93 3 March 143 156 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,128 1,801 90 30 99 3 May 127 98 6 4 1,914 1,702 104 30 91 5 June 126 101 6 4 2,226 1,865 97 28 90 5 July 128 111 7 4 2,404 1,939 106 25 96 3 August 128 105 7 4 2,390 1,751 107 29 98 3 8-Month Total 1,071<	December	137	163	5	4	2,431	2,504	98	26	103	4	5
February 148 188 6 4 2,305 2,042 92 26 93 3 March 143 156 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,128 1,801 90 30 99 3 May 127 98 6 4 1,914 1,702 104 30 91 5 June 126 101 6 4 2,226 1,865 97 28 90 5 July 128 111 7 4 2,404 1,939 106 25 96 3 August 128 105 7 4 2,390 1,751 107 29 98 3 8-Month Total 1,071 1,207 49 32 18,404 16,252 778 229 764 29	Total	1,492	1,709	71	48	26,728	27,511	1,138	244	1,131	39	50
February 148 188 6 4 2,305 2,042 92 26 93 3 March 143 156 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,128 1,801 90 30 99 3 May 127 98 6 4 1,914 1,702 104 30 91 5 June 126 101 6 4 2,226 1,865 97 28 90 5 July 128 111 7 4 2,404 1,939 106 25 96 3 August 128 105 7 4 2,390 1,751 107 29 98 3 8-Month Total 1,071 1,207 49 32 18,404 16,252 778 229 764 29	2004 January	157	338	6	4	2 760	3 223	89	30	103	4	5
March 143 156 6 4 2,278 1,928 91 31 94 3 April 113 110 6 4 2,128 1,801 90 30 99 3 May 127 98 6 4 1,914 1,702 104 30 91 5 June 126 101 6 4 2,226 1,865 97 28 90 5 July 128 111 7 4 2,404 1,939 106 25 96 3 August 128 105 7 4 2,390 1,751 107 29 98 3 8-Month Total 1,071 1,207 49 32 18,404 16,252 778 229 764 29											•	3
April 113 110 6 4 2,128 1,801 90 30 99 3 May 127 98 6 4 1,914 1,702 104 30 91 5 June 126 101 6 4 2,226 1,865 97 28 90 5 July 128 111 7 4 2,404 1,939 106 25 96 3 August 128 105 7 4 2,390 1,751 107 29 98 3 8-Month Total 1,071 1,207 49 32 18,404 16,252 778 229 764 29				-								3
May 127 98 6 4 1,914 1,702 104 30 91 5 June 126 101 6 4 2,226 1,865 97 28 90 5 July 128 111 7 4 2,404 1,939 106 25 96 3 August 128 105 7 4 2,390 1,751 107 29 98 3 8-Month Total 1,071 1,207 49 32 18,404 16,252 778 229 764 29												2
June 126 101 6 4 2,226 1,865 97 28 90 5 July 128 111 7 4 2,404 1,939 106 25 96 3 August 128 105 7 4 2,390 1,751 107 29 98 3 8-Month Total 1,071 1,207 49 32 18,404 16,252 778 229 764 29					-							3
July 128 111 7 4 2,404 1,939 106 25 96 3 August 128 105 7 4 2,390 1,751 107 29 98 3 8-Month Total 1,071 1,207 49 32 18,404 16,252 778 229 764 29				-	•							2
August 128 105 7 4 2,390 1,751 107 29 98 3 8-Month Total 1,071 1,207 49 32 18,404 16,252 778 229 764 29												5
8-Month Total 1,071 1,207 49 32 18,404 16,252 778 229 764 29							,					2
				-		,	, -					29
2003 8-Month Total 1,002 1,303 50 32 17,874 18,973 765 155 717 23		•	,			,	•					
2002 8-Month Total 924 761 50 28 17,336 15,922 846 160 734 26												33 53

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

Web Page: http://www.eia.doe.gov/emeu/mer/elect.html.

plants. See note at end of section.

^b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See note at end of section.

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

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

petroleum, and waste oil.

e Natural gas, plus a small amount of supplemental gaseous fuels that cannot

be identified separately.

f Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

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

h Wood, black liquor, and other wood waste.

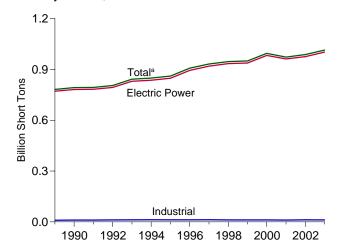
¹ Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

Notes: • Data are for fuels consumed to produce electricity and useful thermal output at electricity-only and 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.

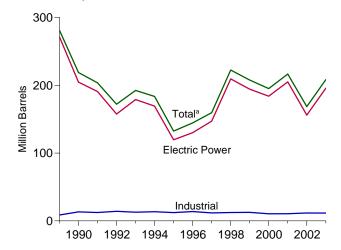
Sources: • 1989-1997: Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-860B, "Annual Electric Generator Report—Nonutility." • 2001 and 2002: EIA, Form EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant Report." • 2003 forward: EIA, Form EIA-906, "Power Plant Report."

Figure 7.3b Consumption of Selected Combustible Fuels for Electricity Generation

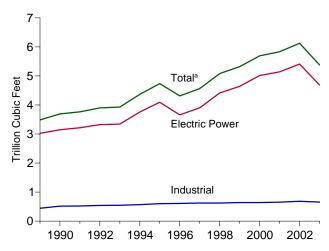




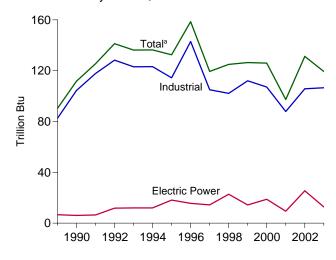
Petroleum by Sector, 1989-2003



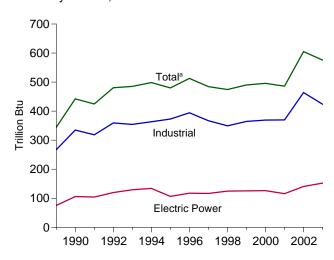
Natural Gas by Sector, 1989-2003



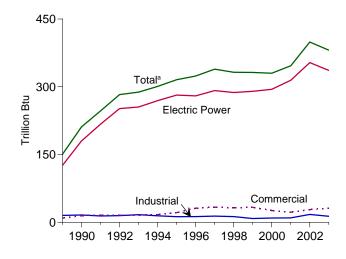
Other Gases^b by Sector, 1989-2003



Wood by Sector, 1989-2003



Waste by Sector, 1989-2003



^aIncludes commercial sector.

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

Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/elect.html. Sources: Tables 7.3d, 7.3e, and 7.3f.

Table 7.3d Consumption of Combustible Fuels for Electricity Generation: Total (All Sectors)

				Petroleum	 						
	Coal ^a	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Totale	Natural Gas ^f	Other Gases ^g	Woodh	Waste ⁱ	Other ^j
	Thousand Short Tons	TI	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trilli	ion Btu	
973 Total 974 Total 975 Total 976 Total 976 Total 977 Total 977 Total 978 Total 980 Total 981 Total 981 Total 982 Total 983 Total 984 Total 985 Total 985 Total 987 Total 987 Total 987 Total 987 Total 987 Total 988 Total 988 Total 988 Total 998 Total 999 Total 999 Total 991 Total 991 Total 992 Total 993 Total 994 Total 994 Total 995 Total 996 Total 996 Total 997 Total 998 Total 997 Total 998 Total	389,212 391,811 405,962 448,371 477,126 481,235 527,051 569,274 593,666 625,211 664,399 693,841 685,056 717,894 758,372 781,672 792,457 793,666 805,140 842,153 848,796 860,594 907,209 931,949 946,295	47,058 53,128 38,907 41,843 48,837 47,520 30,691 29,051 21,313 15,337 16,512 15,190 14,635 14,326 15,367 18,769 27,733 18,143 16,564 14,493 16,845 22,365 19,615 20,252 20,309 25,062	513,190 483,146 467,221 514,077 574,869 588,319 492,606 391,163 329,798 234,434 228,984 189,289 158,779 216,156 184,011 229,327 249,820 190,849 177,780 144,467 159,059 145,225 95,507 106,055 118,741 172,728	NA NA NA NA NA NA NA NA NA NA NA NA NA N	507 625 70 68 98 398 268 179 139 261 252 231 313 348 409 667 1,914 1,789 2,504 3,169 3,020 3,355 3,322 4,086 4,860	562,781 539,399 506,479 556,261 624,193 637,830 524,636 421,110 351,806 250,517 246,804 205,736 174,571 232,046 201,116 250,141 281,192 218,997 203,669 172,241 192,462 183,618 132,578 144,626 159,715 222,6440	3,660 3,443 3,158 3,081 3,191 3,188 3,491 3,682 3,640 3,226 2,911 3,111 3,044 2,602 2,844 2,636 3,485 3,692 3,765 3,900 3,929 4,367 4,738 4,312 4,565 5,081	NA NA NA NA NA NA NA NA NA NA NA 1125 136 1136 1136 1139 1125	1 (s) 1 3 2 3 3 3 3 2 2 5 8 8 10 345 442 425 481 485 480 513 484 475	2 2 2 2 2 2 2 2 2 2 2 2 1 1 2 2 2 1 1 2 2 4 7 7 7 8 151 211 247 283 288 301 3316 3324 3339 3332	NA N
999 Total 000 Total 001 Total	949,802 994,933 972,691	25,951 31,675 31,150	158,187 143,381 165,312	974 1,450 855	4,552 3,744 3,871	207,871 195,228 216,672	5,322 5,691 5,832	126 126 97	490 496 486	332 330 347	4 4 4
Representation of the control of the	83,186 72,845 76,541 72,379 77,322 84,412 93,763 92,604 84,932 81,613 80,234 87,752 987,583	1,963 1,239 1,943 1,819 2,130 1,788 2,730 2,549 1,759 2,049 1,492 1,825 23,286	7,271 6,108 9,696 9,044 9,003 9,076 11,793 11,635 9,359 9,453 7,123 9,674 109,235	148 88 112 143 175 119 208 202 135 183 177 204 1,894	524 527 569 530 590 645 600 660 616 529 498 548 6,836	12,003 10,069 14,594 13,657 14,258 14,209 17,730 17,688 14,333 14,333 11,282 14,442 168,597	424 381 448 439 453 589 777 759 605 475 385 390 6,126	11 9 10 10 12 13 12 11 11 11 12 11	51 46 48 50 47 50 53 52 52 54 50 605	32 29 32 31 33 34 37 37 34 33 33 34 399	4
February February March April May June July August September October November December Total	92,030 79,659 79,600 72,784 77,505 83,468 94,233 95,573 84,466 81,518 82,392 91,078 1,014,307	4,816 3,956 3,427 1,670 2,682 3,270 2,425 2,166 1,267 1,590 1,164 1,856 30,290	14,529 12,367 12,768 10,478 9,095 12,594 15,076 16,077 10,470 10,245 6,982 11,876 142,557	298 415 320 196 257 297 353 345 273 307 195 156 3,411	460 388 338 478 453 560 649 611 598 619 625 659 6,435	21,941 18,679 18,203 14,732 14,299 18,960 21,097 21,642 15,001 15,236 11,465 17,182 208,436	408 365 391 365 417 452 646 697 468 432 374 366 5,380	10 8 9 8 10 9 10 8 11 14 14 14	50 44 49 46 42 46 47 47 43 52 57 53 576	29 26 32 31 32 35 34 30 33 33 35 381	2
February	93,288 84,006 78,874 73,166 81,436 86,662 94,000 93,432 684,864	4,236 1,310 1,284 1,192 1,842 1,592 1,402 1,326 14,183	17,748 11,210 11,817 10,915 12,580 13,943 15,978 14,287 108,479	725 104 148 132 175 114 173 112	666 560 569 574 605 594 609 686 4,862	26,038 15,425 16,093 15,108 17,622 18,621 20,599 19,152 148,657	376 394 394 407 505 540 661 650 3,926	14 13 15 16 16 18 16 19	49 45 44 48 49 56 60 59 410	31 27 30 31 32 33 34 34 251	1
2003 8-Month Total 2002 8-Month Total	674,853 653,052	24,413 16,161	102,984 73,626	2,481 1,195	3,935 4,645	149,553 114,208	3,740 4,270	73 86	371 399	250 265	1

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

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

b For 1973-1979, gas turbine and internal combustion plant use of petroleum.

For 1980-2000, electric utility data are for light oil (fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.)

c For 1973-1979, steam plant use of petroleum. For 1980-2000, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4.)

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

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

f Natural gas, blus a small amount of supplemental gaseous fuels that cannot

f Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

9 Blast furnace gas, propane gas, and other manufactured and waste gases

derived from fossil fuels.

h Wood, black liquor, and other wood waste.
i Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

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

miscellaneous technologies.

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

NA=Not available. (s)=Less than 0.5 trillion Btu. Notes, Web Page, and Sources: See end of section.

Table 7.3e Consumption of Combustible Fuels for Electricity Generation: Electric Power Sector

				Petroleum							
	Coala	Distillate Fuel Oil ^b	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e	Natural Gas ^f	Other Gases ^g	Wood ^h	Waste ⁱ	Other ^j
	Thousand Short Tons	Tł	nousand Barre	els	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillio	n Btu	
1973 Total 1974 Total 1975 Total 1975 Total 1976 Total 1977 Total 1978 Total 1979 Total 1980 Total 1981 Total 1982 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1987 Total 1987 Total 1987 Total 1988 Total 1998 Total 1999 Total 1991 Total 1992 Total 1993 Total 1994 Total 1995 Total 1994 Total 1995 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 1997 Total 1998 Total 1997 Total 1998 Total 1998 Total 1999 Total 1999 Total 1998 Total 1999 Total	389,212 391,811 405,962 448,371 477,126 481,235 527,051 569,274 596,797 593,666 625,211 664,399 693,841 685,056 717,894	47,058 53,128 38,907 41,843 48,837 47,520 30,691 29,051 21,313 15,337 16,512 15,190 14,635 14,326 15,367 18,769 26,036 16,394 14,255 12,469 14,555 12,469 14,555 12,469 14,555 20,241 18,066 18,472 18,646 23,166 23,166 23,166 23,875 29,722	513,190 483,146 467,221 514,077 574,869 588,319 492,606 391,163 329,798 234,434 228,984 189,289 216,156 184,011 229,327 242,708 183,285 171,629 137,681 151,407 137,198 88,895 98,795 112,423 165,875 151,921	NA NA NA NA NA NA NA NA NA NA NA NA NA N	507 625 700 68 98 398 398 179 139 149 261 252 231 313 348 409 517 1,008 974 1,490 2,571 2,256 2,452 2,452 2,452 3,999 3,607 3,155	562,781 539,399 506,479 556,261 624,193 637,830 524,636 421,110 351,806 250,517 246,804 205,736 174,571 232,046 201,116 250,141 271,340 204,745 190,810 157,719 179,034 169,387 119,663 130,168 147,202 209,447 194,345 183,946	3,660 3,443 3,191 3,191 3,188 3,491 3,682 3,640 2,911 3,111 3,014 2,602 2,844 2,636 3,024 3,147 3,1216 3,325 3,344 3,758 4,094 3,660 3,603 4,416 4,644 5,014	NA N	1 1 (s) 1 3 3 3 3 3 3 2 2 2 2 5 8 8 5 5 106 1120 1299 1344 1066 1117 1125 1255 126	2 2 2 2 2 2 2 2 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 1 1 2 2 2 2 1 1 2	NA N
2001 Total 2002 January February March April May June July August September October November December Total	961,523 82,197 71,972 75,613 71,377 76,367 83,393 92,575 91,543 83,958 80,533 79,132 86,591 975,251	29,056 1,832 1,134 1,823 1,738 2,012 1,696 2,611 2,428 1,638 1,918 1,338 1,642 21,810	6,853 5,772 9,258 8,680 8,658 8,729 11,419 11,289 9,016 9,070 6,668 9,164	374 89 43 57 103 135 85 170 163 101 91 77 128 1,243	3,308 431 450 476 456 514 552 487 553 507 423 405 453 5,705	205,119 10,928 9,198 13,515 12,800 13,373 13,268 16,637 16,646 13,292 13,194 10,105 13,199 156,154	5,142 360 324 385 384 390 529 710 693 546 421 330 336 5,408	9 3 2 2 2 1 2 2 2 3 2 2 3 2 2 2 2 2 2 2 2	116 12 9 12 11 10 11 12 13 13 12 12 13	314 29 26 29 28 29 30 32 32 32 29 29 29 31 353	(s) (s) (s) (s) 1 1 1 1 (s) (s) (s)
2003 January February March April May June July August September October November December Total	90,900 78,666 78,581 71,814 76,535 82,496 93,165 94,486 83,551 80,557 81,447 90,010 1,002,210	4,349 3,641 3,235 1,586 2,376 3,153 2,280 2,044 1,190 1,478 1,075 1,655 28,062	13,974 11,906 12,281 10,084 8,754 12,207 14,690 15,696 10,187 9,706 6,603 11,333 137,421	237 364 257 86 86 98 136 91 92 157 123	392 336 280 419 392 485 582 553 539 551 573 583 5,685	20,522 17,589 17,175 13,850 13,178 17,883 20,015 20,690 14,164 14,031 10,699 16,027 195,823	343 308 332 312 365 394 588 634 416 373 317 306 4,688	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	14 11 13 11 10 12 14 14 12 14 13 14	26 23 28 27 28 28 31 30 26 29 29 31	(s) (s) (s) (s) (s) (s) (s) (s) (s) (s)
2004 January	92,181 82,992 77,821 72,205 80,538 85,321 92,581 92,029 675,669 666,645 645,036	3,944 1,225 1,199 1,094 1,750 1,495 1,306 1,238 13,251 22,664 15,274	16,939 10,718 11,348 10,479 12,130 13,396 15,403 13,717 104,130 99,592 70,659	668 77 114 83 133 63 76 54 1,268	614 513 520 528 561 515 546 615 4,411 3,439 3,917	24,619 14,586 15,259 14,297 16,816 17,527 19,514 18,087 140,706	323 340 339 353 440 473 589 577 3,436 3,276 3,775	2 1 2 2 2 2 3 3 2 17	13 13 13 11 12 12 15 14 103	28 25 27 27 29 28 29 29 223 221 221 235	(s) (s) (s) (s) (s) (s) (s) (s) 1

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

a Anthracite, bituminous coal, subbituminous coal, lignite, waste coal, and synthetic coal.
 b For 1973-1979, gas turbine and internal combustion plant use of petroleum. For 1980-2000, electric utility data are for light oil (fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel.)
 c For 1973-1979, steam plant use of petroleum. For 1980-2000, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4.)
 d Jet fuel, kerosene, other petroleum liquids, and waste oil.
 e Petroleum coke is converted from short tons to barrels by multiplying by 5.
 f Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

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

h Wood, black liguer, and other wood waste.

h Wood, black liquor, and other wood waste.

i Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

J Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

k Through 1988, data are for consumption at electric utilities only. Beginning

in 1989, data also include consumption at independent power producers. NA=Not available. (s)=Less than 0.5 trillion Btu. Notes, Web Page, and Sources: See end of section.

Table 7.3f Estimated Consumption of Selected Combustible Fuels for Electricity Generation: **Commercial and Industrial Sectors**

		Commerci	al Sectora		Industrial Sector ^b						
	Coalc	Petroleum ^d	Natural Gas ^e	Waste ^f	Coalc	Petroleum ^d	Natural Gas ^e	Other Gases	Woodh	Waste ^f	Other ⁱ
	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet	Trillion Btu	Thousand Short Tons	Thousand Barrels	Billion Cubic Feet		Trillior	n Btu	
1989 Total	414	1,165	18	9	9.707	8.688	444	83	267	15	37
1990 Total	417	953	28	15	10,740	13,299	517	104	335	16	36
1991 Total	403	576	27	15	10,610	12,283	522	118	318	14	55
1992 Total	371	429	33	16	11,379	14,093	542	128	359	15	37
1993 Total	404	672	37	16	11,898	12,755	547	123	355	17	31
1994 Total	404	694	41	17	12,279	13,537	568	123	364	14	38
1995 Total	569	649	43	21	12,171	12,265	601	114	373	13	40
1996 Total	656	645	42	31	12,153	13,813	610	143	394	13	35
1997 Total	630	790	39	34	12,311	11,723	623	105	367	14	36
1998 Total	440	802	41	32	11,728	12,392	625	102	349	13	35
1999 Total	481	931	39	33	11,432	12,595	639	112	364	8	39
2000 Total	514	823	37	26	11,706	10,459	640	107	369	10	45
2001 Total	532	1,023	36	22	10,636	10,530	654	88	370	10	41
	40	67	2	0	040	4.000	64		20	4	
2002 January	46 30	67 64	3 2	2 2	943 843	1,008 808	61 55	8 8	39 36	1 1	3
February											3
March	42	56	3 3	2	887	1,022	60	8	36	1 2	4
April	36	49			966	807	53	8	39	_	3
May	36	51	2	3	919	835	61	8	37	1	2
June	39	56	3	3	980	885	57	10	39	2	2
July	41	71	3	3	1,147	1,022	63	10	41	2	4
August	46	73	4	3	1,015	969	62	10	40	2	3
September	44	62	3	3	930	979	56	9	39	1	5
October	39	59	3	3	1,041	1,080	52	9	42	1	5
November	37	92	2	3	1,064	1,084	53	9	38	1	4
December Total	41 477	135 834	2 33	2 28	1,120 11,855	1,108 11,608	52 685	9 106	37 464	1 18	3 41
Total	477	004	55	20	11,000	11,000	000	100	404	.0	7.
2003 January	48	228	3	2	1,082	1,192	62	9	36	1	2
February	41	186	2	2	952	904	54	7	33	1	2
March	40	90	3	3	978	938	56	8	37	1	3
April	36	53	3	3	934	829	50	7	35	1	2
May	33	46	3	3	937	1,075	49	8	32	1	3
June	43	71	4	3	929	1,006	54	10	34	1	2
July	50	100	3	3	1,018	983	55	8	34	1	2
August	51	100	4	3	1,036	852	59	8	33	1	2
September	44	56	2	2	871	781	49	7	31	1	2
October	36	57	3	3	925	1,148	56	10	39	1	2
November	35	58	3	3	910	708	55	13	43	1	2
December	44	116	2	3	1,025	1,039	57	13	38	1	3
Total	501	1,161	35	32	11,596	11,453	656	107	424	13	25
2004 January	48	207	3	2	1,059	1,212	51	12	36	1	2
February	48	87	3	2	966	751	51	12	32	1	1
March	49	80	3	2	1,005	753	52	14	31	1	1
April	36	77	3	3	925	734	51	14	37	i	i
May	44	65	3	2	853	740	62	13	38	1	1
June	52	76	3	3	1.290	1.018	63	15	44	1	2
July	53	89	4	3	1,366	996	68	13	45	1	3
August	56	79	4	3	1,347	986	69	16	45	2	2
8-Month Total	385	760	25	20	8,811	7,191	465	109	308	9	14
2003 8-Month Total	342	873	25	21	7 966	7 770	439	65	272	8	17
2003 8-Month Total	342 317	873 486	25 22	21 18	7,866 7,700	7,778 7,358	439 472	70	308	8 12	17 25

^a Commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See note at end of section.

b Industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See note at end of section.

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

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

petroleum, and waste oil.

^e Natural gas, plus a small amount of supplemental gaseous fuels that cannot

be identified separately.

f Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts,

and other biomass.

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

h Wood, black liquor, and other wood waste.

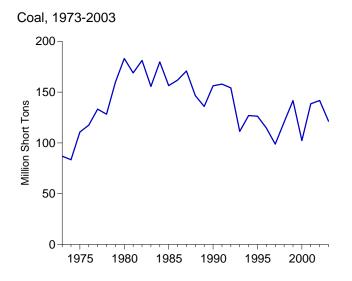
Batteries, chemicals, hydrogen, pitch, purchased steam, sulfur, and miscellaneous technologies.

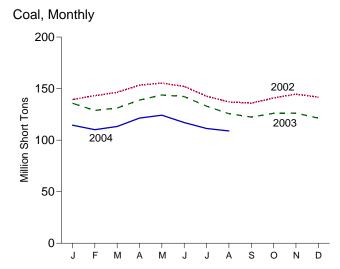
Notes: • Estimates are for fuels consumed to produce electricity; they exclude fuels consumed to produce useful thermal output. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of Columbia.

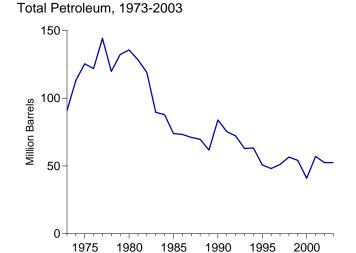
and the District of Columbia.

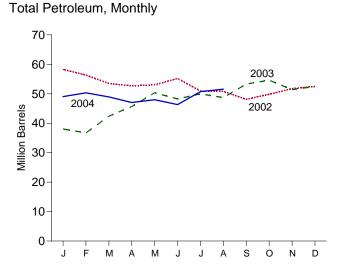
Web Page: http://www.eia.doe.gov/emeu/mer/elect.html.
Sources: • 1989-1997: Energy Information Administration (EIA), Form EIA-867,
"Annual Nonutility Power Producer Report." • 1998-2000: EIA, Form EIA-860B,
"Annual Electric Generator Report—Nonutility." • 2001 and 2002: EIA, Form
EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant
Report." • 2003 forward: EIA, Form EIA-906, "Power Plant Report."

Figure 7.4 Stocks of Coal and Petroleum: Electric Power Sector

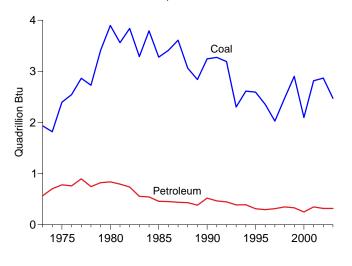




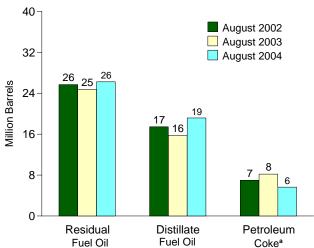




Coal and Petroleum Stocks, 1973-2003



Petroleum by Type, End of Month



^aConverted from short tons to barrels by multiplying by 5. Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/elect.html. Source: Tables 7.4, A1, and A5.

Table 7.4 Stocks of Coal and Petroleum: Electric Power Sector

				Petroleum		
	Coal ^a	Distillate Fuel Oilb	Residual Fuel Oil ^c	Other Liquids ^d	Petroleum Coke ^e	Total ^e
	Thousand Short Tons		Thousand Barrels		Thousand Short Tons	Thousand Barre
973 Total	86,967	10,095	79,121	NA	312	90,776
974 Total		15,199	97,718	NA	35	113,091
975 Total		16,432	108,825	NA NA	31	125,413
976 Total		14,703	106,993	NA NA	32	121,857
					32 44	
77 Total		19,281	124,750	NA NA		144,252
78 Total		16,386	102,402	NA	198	119,778
79 Total		20,301	111,121	NA	183	132,338
80 Total		30,023	105,351	NA	52	135,635
81 Total		26,094	102,042	NA	42	128,345
82 Total		23,369	95,515	NA	41	119,090
83 Total		18,801	70,573	NA	55	89,652
84 Total	179,727	19,116	68,503	NA	50	87,870
85 Total		16,386	57,304	NA	49	73,933
86 Total		16,269	56,841	NA	40	73,313
87 Total		15,759	55,069	NA	51	71,084
88 Total		15,099	54,187	NA NA	86	69,714
089 Total		13,824	47,446 67,030	NA NA	105	61,795
990 Total		16,471	67,030	NA	94	83,970
91 Total	157,876	16,357	58,636	NA	70	75,343
92 Total		15,714	56,135	NA	67	72,183
93 Total		15,674	46,770	NA	89	62,890
94 Total	126,897	16,644	46,344	NA	69	63,333
95 Total	126,304	15,392	35,102	NA	65	50,821
96 Total	114,623	15,216	32,473	NA	91	48,146
97 Total		15,456	33,336	NA	469	51,138
98 Total		16,343	37,451	NA	559	56,591
99 Total f	141,604	17,995	34,256	NA NA	372	54,109
000 Total	102,296	15,127	24,748	NA NA	211	40,932
01 Total		20,486	34,594	NA NA	390	57,031
002 January	139,400	18,558	34,833	903	798	58,283
February		18,314	32,792	688	912	56,353
March		18,866	28,447	774	1,082	53,500
April		17,693	28,485	787	1,144	52,683
May		18,305	28,241	758	1,149	53,047
June	152,134	18,113	30,412	638	1,206	55,190
July	142,634	17,206	26,986	692	1,208	50,921
August		17,439	25,697	718	1,393	50,820
September		16,967	22,841	768	1,508	48,117
October	140,800	16,838	23,926	731	1,667	49,829
November	144.608	16,959	25,127	1.111	1.714	51,767
December		17,413	25,723	800	1,711	52,490
December	171,717	17,413	25,125	000	1,711	32,430
03 January	135,771	15,431	20,870	NA	350	38,051
February		14,564	20,621	NA	306	36,713
March		19,849	20,961	NA	315	42,385
April	138,895	15,351	22,737	NA	1,519	45,681
May	143,884	15,058	26,772	NA	1,702	50,339
June	142,325	15,426	24,447	NA	1,675	48,250
July		16,570	25,029	NA	1,672	49,957
August		15,771	24,758	NA	1,638	48,722
September		20,509	24,796	NA	1,601	53,309
October	126,002	21,213	25,831	NA	1,514	54,617
				NA NA		
November		16,776	26,699		1,585	51,400
December	121,371	19,563	25,653	NA	1,455	52,489
04 January	114,537	18,567	24,020	38	1,286	49,053
February		18,502	25,609	38	1,235	50,322
March		18,137	24,489	38	1,254	48,936
April		17,568	24,291	38	1,026	47,025
May		18,156	24,853	38	987	47,981
June		18,454	25,908	38	1,097	49,885
		19,018	25,885	470	1,068	50,714
July		19,018	25,885 26,253	470 488	1,068	50,714 51,562
August	108,906	19 180				

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.

Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/elect.html.
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: Energy Information Administration (EIA), Form EIA-759, "Monthly Power Plant Report." • 1989-1997: EIA, Form EIA-759, "Monthly Power Plant Report." • 1989-1997: EIA, Form EIA-759, "Monthly Power Plant Report." Report" and Form EIA-867, "Annual Nonutility Power Producer Report."

• 1998-2000: EIA, Form EIA-759, "Monthly Power Producer Report."

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

• 2001: EIA, Form EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant Report."

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

^b For 1973-1979, gas turbine and internal combustion plant stocks of petroleum. For 1980-2001, electric utility data are for light oil (fuel oil nos. 1 and 2, and small amounts of kerosene and jet fuel).

^c For 1973-1979, steam plant stocks of petroleum. For 1980-2001, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no.

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

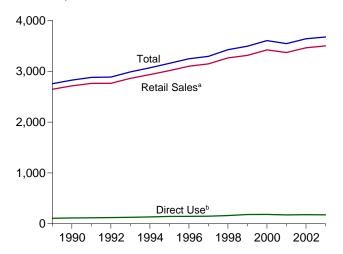
Petroleum coke is converted from short tons to barrels by multiplying by 5.

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

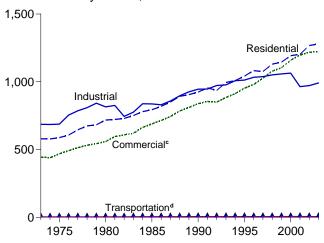
[•] Stocks are at end of year. • Totals may not equal sum of components due to independent rounding. • Geographic coverage is the 50 States and the District of

Figure 7.5 Electricity End Use (Billion Kilowatthours)

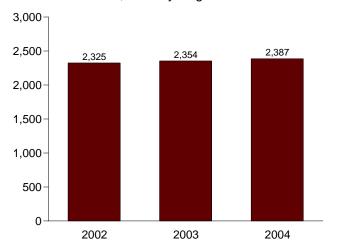
Electricity End Use Overview, 1989-2003



Retail Sales^a by Sector, 1973-2003

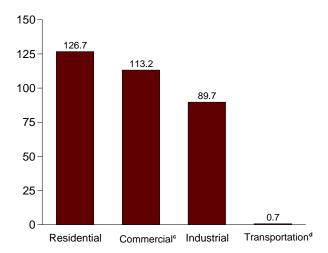


Retail Sales^a Total, January-August

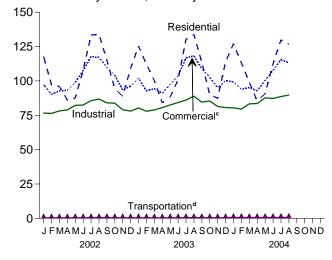


^aElectricity retail sales to ultimate customers reported by electric utilities and other energy service providers.

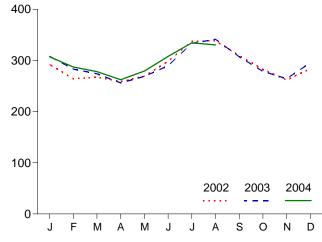
Retail Sales^a by Sector, August 2004



Retail Sales^a by Sector, Monthly



Retail Sales^a Total, Monthly



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

^dTransportation sector, including sales to railroads and railways. Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/elect.html. Source: Table 7.5.

^bCommercial and industrial facility use of onsite net electricity generation; and electricity sales among adjacent or co-located facilities for which revenue information is not available.

Table 7.5 Electricity End Use

(Million Kilowatthours)

,		Watti loui o,			Retail Sales	a					
		Old Bas	sis			New Ba	ısis			-	
	Residential	Commercial ^b	Industrial ^c	Otherd	Residential	Commerciale	Industrial ^f	Transpor- tation ^g	Total ^h	Direct Use ⁱ	Total
1973 Total 1974 Total 1975 Total 1976 Total 1977 Total 1977 Total 1978 Total 1979 Total 1980 Total 1981 Total 1982 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1987 Total 1988 Total 1989 Total 1999 Total 1991 Total 1992 Total 1993 Total 1994 Total 1995 Total 1995 Total 1996 Total 1997 Total 1997 Total 1998 Total 1997 Total 1998 Total 1999 Total 1999 Total 1997 Total 1998 Total 1998 Total 1999 Total 1999 Total 1999 Total 1999 Total 1999 Total 1999 Total	579,231 578,184 588,140 606,452 645,239 674,466 682,819 717,495 722,265 729,520 750,948 780,092 793,934 819,088 850,410 892,866 905,525 924,019 955,417 935,247 1,008,482 1,042,501 1,082,512 1,075,880 1,130,109 1,144,923 1,192,446 1,202,647	388,266 384,826 403,049 425,094 446,514 461,163 473,307 488,155 514,338 526,397 543,788 582,621 605,989 630,520 660,433 699,100 725,861 751,027 765,664 761,271 794,573 820,269 862,685 887,445 928,633 979,401 1,001,996 1,055,232 1,089,154	686,085 684,875 687,680 754,069 786,037 809,078 841,903 815,067 825,743 744,949 775,999 837,836 836,772 830,531 858,233 896,498 925,659 945,522 946,583 972,714 977,164 1,007,981 1,012,693 1,038,197 1,051,203 1,058,217 1,064,239 964,224	59,326 58,039 68,222 69,631 70,571 73,215 73,070 73,732 84,756 85,575 80,218 87,279 88,615 89,598 89,598 89,765 91,988 94,339 93,442 97,830 95,407 103,518 106,952 109,496 113,756	579,231 578,184 588,140 606,4529 645,229 647,466 682,819 717,495 722,265 729,520 750,948 780,092 793,934 819,866 905,507 905,417 935,936 1,042,501 1,042,501 1,104,923 1,144,923 1,192,446 1,202,647	E 444,505 E 440,016 E 468,296 E 491,777 E 514,029 E 531,439 E 543,412 E 558,643 E 608,748 E 608,748 E 620,292 E 663,680 E 689,121 E 714,721 E 774,029 E 810,856 E 838,263 E 855,244 E 850,007 E 8810,856 E 838,263 E 855,244 E 61,077,957 E 1,103,821 E 1,077,957 E 1,103,821 E 1,159,347 E 1,197,426	686,085 684,875 687,680 754,069 786,037 809,078 841,903 815,067 825,743 744,949 775,999 837,836 836,772 830,572 830,533 896,498 925,659 945,522 946,583 972,7164 1,007,981 1,013,631 1,038,197 1,051,203 1,058,217 1,058,217	E 3,087 E 2,849 E 2,974 E 2,948 E 3,048 E 3,244 E 3,715 E 4,189 E 4,147 E 4,169 E 4,750 E 4,750 E 4,751 E 4,954 E 4,977 E 4,954 E 5,126 E 5,382 E 5,484	1,712,999 1,705,924 1,747,091 1,855,246 1,948,361 2,017,922 2,071,099 2,094,449 2,147,103 2,086,441 2,150,945 2,285,796 2,323,974 2,368,753 2,457,272 2,578,062 2,646,809 2,712,555 2,762,003 2,763,4563 3,013,287 3,101,127 3,145,610 3,264,203 3,264,213 3,312,087 3,421,414 3,369,781	NA NA NA NA NA NA NA NA NA NA NA 108,145 114,036 118,033 122,251 127,253 134,111 144,857 148,428 160,857 182,508 183,263 E 174,370	1,712,999 1,705,924 1,747,091 1,855,246 1,948,361 2,017,922 2,071,099 2,094,449 2,147,103 2,086,441 2,150,945 2,285,796 2,323,974 2,368,753 2,457,272 2,754,962 2,754,962 2,754,951 2,880,036 2,885,691 2,886,691 2,886,691 2,886,691 2,886,691 2,886,691 2,886,691 3,068,677 3,544,984 3,294,039 3,425,128 3,604,677 3,544,151
2002 January February March April May June July August September October November December Total	117,742 97,309 95,919 86,103 87,494 107,853 133,389 133,951 114,951 94,237 88,926 109,085 1,266,959	89,366 82,526 85,055 85,549 90,819 98,638 108,091 107,439 100,138 95,188 85,363 88,076 1,116,248	76,600 76,413 78,122 78,918 82,242 82,432 85,724 86,739 84,107 83,783 79,057 78,032 972,168	8,315 8,028 8,010 8,009 8,501 9,306 10,064 10,183 10,266 9,456 8,464 8,546	117,742 97,309 95,919 86,103 87,494 107,853 133,389 133,951 114,951 94,237 88,926 109,085 1,266,959	E 97,280 E 90,166 E 92,678 E 93,171 E 98,910 E 107,496 E 117,670 E 117,131 E 109,909 E 104,189 E 93,419 E 96,209 E 1,218,228	76,600 76,413 78,122 78,918 82,242 82,432 85,724 86,739 84,107 83,783 79,057 78,032 972,168	E 401 E 387 E 386 E 386 E 410 E 449 E 485 E 491 E 495 E 456 E 408 E 412	292,023 264,275 267,105 258,578 269,055 298,230 337,268 338,312 309,462 282,665 261,810 283,738 3,462,521	E15,131 E13,667 E15,131 E14,643 E15,131 E14,643 E15,131 E14,643 E15,131 E14,643 E15,131	307,154 277,942 282,237 273,221 284,186 312,873 352,400 353,444 324,105 297,796 276,454 298,870 3,640,681
2003 January February March April May June July August September October November December Total	125,307 112,021 100,154 84,102 88,340 100,912 130,254 133,889 113,506 90,044 87,474 113,903 1,279,907	93,712 84,886 86,482 83,470 89,391 94,911 106,961 108,218 99,408 93,497 86,722 91,592 1,119,250	80,351 77,901 78,914 80,561 82,495 84,296 86,064 88,825 84,526 85,438 81,374 80,612 991,359	8,743 8,327 8,265 7,924 8,581 9,353 10,232 10,550 9,939 9,525 8,838 9,176 109,452	125,307 112,021 100,154 84,102 88,340 100,912 130,254 133,889 113,506 90,044 87,474 113,903 1,279,907	E 102,034 E 92,812 E 94,349 E 91,012 E 97,558 E 103,813 E 116,699 E 118,259 E 108,868 E 102,563 E 95,134 E 100,326 E 1,223,425	80,351 77,901 78,914 80,561 82,495 84,296 86,064 88,825 84,526 85,438 81,374 80,612 991,359	E 422 E 401 E 398 E 382 E 414 E 451 E 493 E 509 E 479 E 459 E 426 E 426 E 442	308,113 283,136 273,816 256,057 268,807 289,472 333,510 341,481 307,379 278,504 264,408 295,283 3,499,968	E 14,878 E 13,439 E 14,878 E 14,399 E 14,878 E 14,878 E 14,878 E 14,878 E 14,399 E 14,878 E 14,399 E 14,878 E 175,182	322,992 296,574 288,694 270,456 283,686 303,871 348,389 356,360 321,778 293,383 278,807 310,161 3,675,150
2004 January	-	-	-		126,963 113,075 99,047 85,439 90,658 112,373 129,759 126,724 884,039	99,245 93,853 95,208 92,830 100,384 107,616 115,501 113,211 817,849	80,385 79,568 83,325 83,540 87,687 87,242 88,601 89,701 680,050	610 614 540 560 548 559 602 657 4,690	307,203 287,110 278,119 262,370 279,278 307,790 334,463 330,293 2,386,627	E 14,838 E 13,881 E 14,838 E 14,359 E 14,838 E 14,359 E 14,838 E 14,838	322,041 300,991 292,957 276,729 294,116 322,149 349,301 345,131 2,503,415
2003 8-Month Total 2002 8-Month Total	874,980 859,760	748,031 747,483	659,408 647,189	71,974 70,415	874,980 859,760	E 816,535 E 814,502	659,408 647,189	E 3,470 E 3,395	2,354,393 2,324,846	E 116,628 E 118,611	2,471,021 2,443,457

^a Electricity retail sales to ultimate customers reported by electric utilities and, beginning in 1996, other energy service providers. Beginning in 2004, the category "Other" has been replaced by "Transportation," and the categories "Commercial" and "Industrial" have been redefined. For all years, data for "Electricity Retail Sales" in Tables 2.2-2.5 are based on the "New Basis" data in this table.

Description of the "New Basis" data in this table.

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

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

and railways.

e Commercial ^e Commercial sector, including public street and highway lighting, interdepartmental sales, and other sales to public authorities. Through 2003, data are estimated as the sum of "Old Basis Commercial" and approximately 95 percent

of "Other"; beginning in 2004, data are actual survey data.

f Industrial sector. Through 2003, excludes agriculture and irrigation; beginning in 2004, includes agriculture and irrigation.

g Transportation sector, including sales to railroads and railways. Through 2003, data are estimated as approximately 5 percent of "Other"; beginning in 2004, data are actual survey data.

h The sum of the four "Old Basis" categories, as well as the sum of the four "New Basis" categories.

[&]quot;New Basis" categories.

Commercial and industrial facility use of onsite net electricity generation; and electricity sales among adjacent, or co-located facilities for which revenue information is not available.

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

Notes, Web Page, and Sources: See end of section.

Electricity

Note. Classification of Power Plants Into Energy-Use Sectors

The Energy Information Administration (EIA) classifies power plants (both electricity-only and combined-heat-andpower 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 code **NAICS** from the universal list www.census.gov/epcd/naics02/naicod02.htm.

Table 7.1 Sources: Imports and Exports of Electricity

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: 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."

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.

Electricity Trade with Mexico, 1990 Forward:

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

Table 7.2a Notes:

• Totals may not equal sum of components due to independ-

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

Table 7.2a Web Page:

Http://www.eia.doe.gov/emeu/mer/elect.html.

Table 7.2a Sources:

See sources for Tables 7.2b and 7.2c.

Table 7.2b 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.

Table 7.2b Web Page:

http://www.eia.doe.gov/emeu/mer/elect.html.

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: 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 and 2002: EIA, Form EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant Report."

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

Table 7.3d Notes:

- Data are for fuels consumed to produce electricity; they exclude fuels consumed to produce useful thermal output. Consumption for electricity generation at combined-heat-and-power (CHP) plants is estimated. Totals may not equal sum of components due to independent rounding.
- Geographic coverage is the 50 States and the District of Columbia.

Table 7.3d Web Page:

Http://www.eia.doe.gov/emeu/mer/elect.html.

Table 7.3d Sources:

See sources for Tables 7.3e and 7.3f.

Table 7.3e Notes:

• Data are for fuels consumed to produce electricity; they exclude fuels consumed to produce useful thermal output. Consumption for electricity generation at combined-heat-and-power (CHP) plants is estimated. • 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.

Table 7.3e Web Page:

Http://www.eia.doe.gov/emeu/mer/elect.html.

Table 7.3e Sources:

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

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

1982-1988: 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 and 2002: EIA, Form EIA-860, "Annual Electric Generator Report" and Form EIA-906, "Power Plant Report."

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

Table 7.5 Notes:

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

Http://www.eia.doe.gov/emeu/mer/elect.html.

Table 7.5 Sources:

Retail Sales:

1973-September 1977: Federal Power Commission (FPC), 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: Energy Information Administration (EIA), Form EIA-826, "Monthly Electric Utility Sales and Revenue Report with State Distributions" (formerly "Electric Utility Company Monthly Statement").

1984-1989: EIA, Form EIA-861, "Annual Electric Utility Report."

1990 forward: EIA, *Electric Power Monthly*, November 2004, 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."

2001-2003: Estimates are based on the 2000 value adjusted by the percentage increase in commercial and industrial net generation on Table 7.1.

Direct Use, Monthly: Estimates are derived by dividing the annual value by the number of days in the year and then multiplying by the number of days in the month. (To derive monthly estimates for the current year, the previous year's annual value is used in the calculation.)

Section 8. Nuclear Energy

U.S. nuclear electricity net generation during August 2004 was 71 net terawatthours (billion kilowatthours) of electricity, 3 percent higher than the level in August 2003.

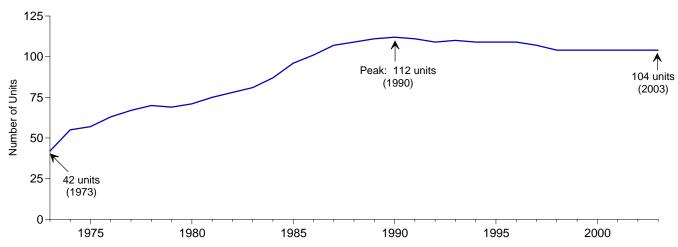
Nuclear units generated at an average capacity factor of 96.7 percent in August 2004, 2.8 percentage points higher than the capacity factor in August 2003.

The nuclear share of total electricity net generation in August 2004 was 19.4 percent, compared with 18.3 percent 1 year earlier.

On August 31, 2004, there were 104 operable nuclear generating units in the United States, with a collective net summer capacity of 98.8 million kilowatts of electricity.

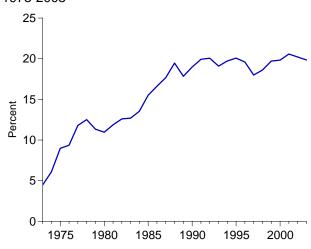
Figure 8.1 Nuclear Energy Overview

Operable Units, End of Year, 1973-2003

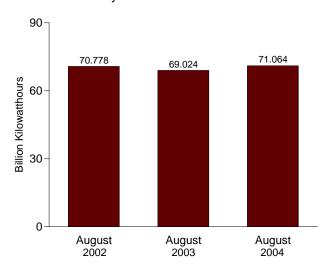


Electricity Net Generation, 1973-2003

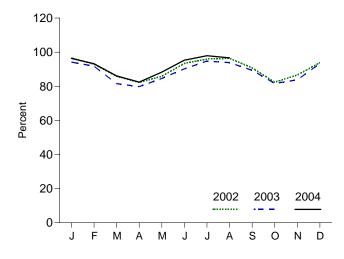
Nuclear Share of Electricity Net Generation, 1973-2003



Nuclear Electricity Net Generation



Capacity Factor, Monthly



Web Page: http://www.eia.doe.gov/emeu/mer/nuclear.html. Sources: Table 7.1 and 8.1.

Table 8.1 Nuclear Energy Overview

	Total Operable Units ^{a,b}	Net Summer Capacity of Operable Units ^{b,c}	Nuclear Electricity Net Generation	Nuclear Share of Electricity Net Generation	Capacity Factor
	Number	Million Kilowatts	Million Kilowatthours	Pe	rcent
70 V	40	00.000	00.470	4.5	50.5
73 Year	42	22.683	83,479	4.5	53.5
74 Year	55	31.867	113,976	6.1	47.8
75 Year	57	37.267	172,505	9.0	55.9
76 Year	63	43.822	191,104	9.4	54.7
77 Year	67	46.303	250,883	11.8	63.3
78 Year	70	50.824	276,403	12.5	64.5
79 Year	69	49.747	255,155	11.3	58.4
80 Year	71	51.810	251,116	11.0	56.3
81 Year	75	56.042	272,674	11.9	58.2
82 Year	78	60.035	282,773	12.6	56.6
83 Year	81	63.009	293,677	12.7	54.4
84 Year	87	69.652	327,634	13.5	56.3
85 Year	96	79.397	383,691	15.5	58.0
86 Year	101	85.241	414,038	16.6	56.9
87 Year	107	93.583	455,270	17.7	57.4
88 Year	109	94.695	526,973	19.5	63.5
89 Year	111	98.161	529,355	17.8	62.2
90 Year	112	99.624	576,862	19.0	66.0
91 Year	111	99.589	612,565	19.9	70.2
92 Year	109	98.985	618,776	20.1	70.9
93 Year	110	99.041	610,291	19.1	70.5
94 Year	109	99.148	640,440	19.7	73.8
95 Year	109	99.515	673,402	20.1	77.4
96 Year	109	100.784	674,729	19.6	76.2
97 Year	107	99.716	628,644	18.0	71.1
98 Year	104	97.070	673.702	18.6	78.2
99 Year	104	97.411	728,254	19.7	85.3
00 Year	104	97.860	753,893	19.8	88.1
	104		768.826		
01 Year	104	98.159	700,020	20.6	89.4
02 January	104	98.657	70,926	22.2	96.6
February	104	98.657	61,658	21.9	93.0
March	104	98.657	63,041	20.8	85.9
April	104	98.657	58,437	20.2	82.3
May	104	98.657	63,032	20.5	85.9
June	104	98.657	66,372	19.5	93.4
July	104	98.657	70,421	18.5	95.9
August	104	98.657	70,778	18.9	96.4
September	104	98.657	64,481	19.5	90.8
October	104	98.657	60,493	19.7	82.4
November	104	98.657	61,520	20.8	86.6
December	104	98.657	68,905	21.2	93.9
Year	104	98.657	780,064	20.2	90.3
03 January	104	98.794	69,211	20.5	94.2
	104	98.794	60,942	20.5	94.2 91.8
February	104	98.794 98.794	59,933	20.5 19.8	91.8 81.5
March	104	98.794 98.794	59,933 56,776	20.1	81.5 79.8
April					
May	104	98.794	62,194	20.4	84.6
June	104	98.794	64,181	19.8	90.2
July	104	98.794	69,653	18.7	94.8
August	104	98.794	69,024	18.3	93.9
September	104	98.794	63,584	20.1	89.4
October	104	98.794	60,016	19.7	81.7
November	104	98.794	59,600	20.0	83.8
December	104	98.794	_68,612	20.7	93.3
Year	104	98.794	763,725	19.8	88.2
04 January	104	98.794	70,789	20.6	96.3
February	104	98.794	64,103	20.5	93.2
March	104	98.794	63,285	20.7	86.1
April	104	98.794	58,635	20.7	82.4
	104	98.794		20.4	88.3
May	104	98.794 98.794	64,917 67,787	20.0 19.9	95.3
June					
July	104	98.794	71,975	19.4	97.9
August	104	98.794	71,064	19.4	96.7
8 Months	104	98.794	532,557	20.1	92.1
03 8 Months	104	98.794	511,913	19.7	88.8
02 8 Months	104	98.657	524,664	20.2	91.2

^a Total of nuclear generating units holding full-power licenses, or equivalent a lotal of nuclear generating units holding full-power licenses, or equivalent permission to operate, at the end of the period—see Note 1 at end of section. Although Browns Ferry 1 was shut down in 1985, the unit has remained fully licensed and thus has continued to be counted as operable during the shutdown; in May 2002, the Tennessee Valley Authority announced its intenton to have the unit resume operation in 2007—see Note 1(a) at end of section. For additional information on nuclear generating units, see *Annual Energy Review 2003*, September 2004, Table 9.1.

b At end of period.

Web Page: http://www.eia.doe.gov/emeu/mer/nuclear.html. Sources: See end of section.

At end of period.

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

at end of section.

Notes: • See Note 1 at end of section for discussion of reactor unit coverage.

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.

Nuclear Energy

- **Note 1.** 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. Browns Ferry 1 remains shut down and has been defueled, while the other units were idle for several years, restarting in 1991, 1995, 1988, and 1988, respectively. All five units are counted as operable during the shutdowns. Browns Ferry 1 is the only one of the five TVA plants that has not returned to service. Because it is still fully licensed to operate, it continues to meet the definition of operable.
- (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.** 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 computed as the actual monthly generation divided by the maximum possible generation for that month. The maximum possible generation is the number of hours in the month multiplied by the net summer capacity at the end of the month. That fraction is then multiplied by 100 to obtain a percentage. Annual capacity factors are averages of the monthly values for that year.

Table 8.1 Sources

Total Operable Units and Net Summer Capacity of Operable Units: 1973-1982: Compiled from various sources, primarily DOE, Office of Nuclear Reactor Programs, "U.S. Central Station Nuclear Electric Generating Units: Significant Milestones." 1983 forward: Energy Information Administration (EIA), Form EIA-860, "Annual Electric Generator Report," and monthly updates as appropriate. For a list of currently operable units, see: http://eia.doe.gov/cneat/nuclear/page/nuc_reactors/operational.html.
Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation: See Table 7.2a for actual data.

Capacity Factor: EIA, Office of Coal, Nuclear, Electric and Alternate Fuels for actual data.

Section 9. Energy Prices

Crude Oil. The average price of domestic crude oil at the wellhead was \$40.10 per barrel in August 2004, 44 percent above the level of August 2003. The refiner acquisition cost of imported crude oil in August 2004 was \$39.57 per barrel, 39 percent higher than the August 2003 level. The average cost of domestic crude oil in August 2004 was \$41.55, 37 percent more than the August 2003 average.

Motor Gasoline. The national city average retail price of unleaded regular gasoline at all types of stations was \$1.89 per gallon in September 2004, 9 percent higher than the price in September 2003. The price of unleaded premium gasoline averaged \$2.08 in September 2004, 9 percent higher than the price in September 2003.

Residual Fuel Oil. The average price, excluding taxes, of residual fuel oil sold to end users in August 2004 was 73 cents per gallon, 3 percent higher than the previous month's price and 5 percent higher than the August 2003 average. The average resale price, excluding taxes, of residual fuel oil in August 2004 was 68 cents, 2 percent higher than the July 2004 price and 7 percent higher than the price 1 year earlier.

Jet Fuel. The average price, excluding taxes, of kerosene-type jet fuel sold to end users in August 2004 was \$1.27 per gallon, 9 percent higher than the previous month's average price and 46 percent more than the August 2003 average price.

No. 2 Distillate Fuel Oil. The August 2004 national average price, excluding taxes, of heating oil sold to residential customers was \$1.50 per gallon, 5 percent higher than the July 2004 price and 27 percent higher than the August 2003 price. The average price of No. 2 fuel oil sold to all end

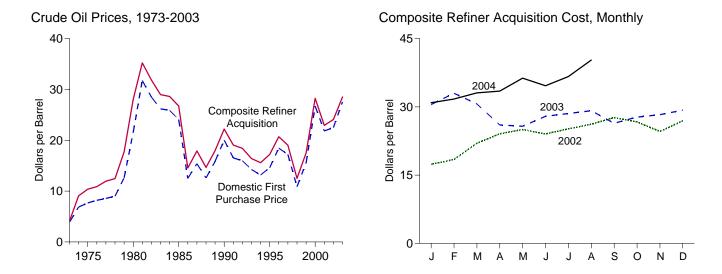
users was \$1.23 per gallon in August 2004, 8 percent higher than the July 2004 price and 41 percent higher than the price 1 year earlier.

Electricity. The average retail price of electricity sold to all ultimate consumers in the United States in August 2004 (latest month for which data are available) was 8.12 cents per kilowatthour, 3 percent higher than the average price in August 2003. The price of electricity sold to residential consumers in August 2004 averaged 9.47 cents per kilowatthour, 3 percent higher than the August 2003 price. The price of electricity sold to commercial consumers averaged 8.70 cents per kilowatthour in August 2004, 2 percent higher than the August 2003 price. The price of electricity sold to transportation users in August 2004 averaged 6.63 cents per kilowatthour. The price of electricity sold to industrial users in August 2004 averaged 5.48 cents per kilowatthour, 4 percent higher than the price 1 year earlier.

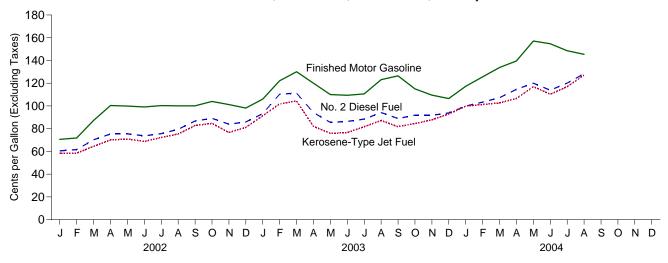
Natural Gas. The average wellhead price of natural gas for August 2004 (latest month for which data are available) was estimated as \$5.36 per thousand cubic feet, 14 percent higher than the August 2003 price.

The average price of natural gas delivered to the electric power sector was \$6.00 per thousand cubic feet in August 2004, 15 percent higher than the August 2003 price. The average price of natural gas used by residential consumers in August 2004 was \$13.78 per thousand cubic feet, 7 percent higher than the August 2003 price. The average price of natural gas used by commercial consumers in August 2004 was \$9.47 per thousand cubic feet, 13 percent higher than the August 2003 price. The average price of natural gas used by industrial consumers in August 2004 was \$6.19 per thousand cubic feet, 19 percent above the August 2003 price.

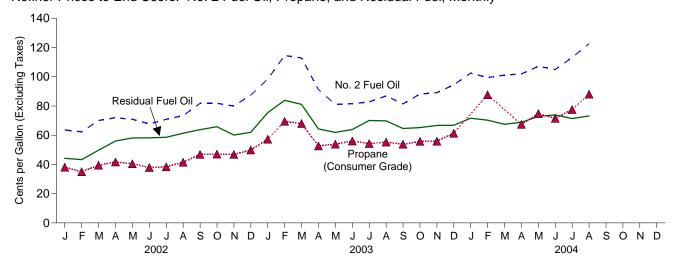
Figure 9.1 Petroleum Prices



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



Web Page: http://www.eia.doe.gov/emeu/mer/prices.html. Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Dollars per Barrel)

				Re	efiner Acquisition Co	sta
	Domestic First Purchase Price ^b	F.O.B. Cost of Imports ^c	Landed Cost of Imports ^d	Domestic	Imported	Composite
973 Average	3.89	e 5.21	e 6.41	^E 4.17	^E 4.08	^E 4.15
974 Average	6.87	10.91	12.32	7.18	12.52	9.07
975 Average	7.67	11.18	12.70	8.39	13.93	10.38
976 Average	8.19	12.15	13.32	8.84	13.48	10.89
977 Average	8.57	13.24	14.36	9.55	14.53	11.96
978 Average	9.00	13.29	14.35	10.61	14.57	12.46
979 Average	12.64	20.07	21.45	14.27	21.67	17.72
980 Average	21.59	32.37	33.67	24.23	33.89	28.07
981 Average	31.77	35.15	36.47	34.33	37.05	35.24
982 Average	28.52	32.02	33.18	31.22	33.55	31.87
983 Average	26.19	27.81	28.93	28.87	29.30	28.99
984 Average	25.88	27.60	28.54	28.53	28.88	28.63
985 Average	24.09	25.84	26.67	26.66	26.99	26.75
986 Average	12.51	12.52	13.49	14.82	14.00	14.55
987 Average	15.40	16.69	17.65	17.76	18.13	17.90
988 Average	12.58	13.25	14.08	14.74	14.56	14.67
989 Average	15.86	16.89	17.68	17.87	18.08	17.97
990 Average	20.03	20.37	21.13	22.59	21.76	22.22
991 Average	16.54	16.89	18.02	19.33	18.70	19.06
992 Average	15.99	16.77	17.75	18.63	18.20	18.43
993 Average	14.25	14.71	15.72	16.67	16.14	16.41
004 Average	13.19			15.67		15.59
994 Average		14.18	15.18		15.51	
995 Average	14.62	15.69	16.78	17.33	17.14	17.23
996 Average	18.46	19.32	20.31	20.77	20.64	20.71
997 Average	17.23	16.94	18.11	19.61	18.53	19.04
998 Average	10.87	10.76	11.84	13.18	12.04	12.52
999 Average	15.56	16.47	17.23	17.90	17.26	17.51
000 Average	26.72	26.27	27.53	29.11	27.70	28.26
001 Average	21.84	20.46	21.82	24.33	22.00	22.95
002 January	15.89	16.01	17.29	17.84	17.04	17.38
February	16.93	17.67	19.17	18.70	18.24	18.43
March	20.28	21.60	22.24	21.61	22.29	22.00
April	22.52	23.04	24.15	24.26	23.98	24.10
May	23.51	23.16	24.49	25.78	24.44	25.03
June	22.59	22.63	23.95	24.81	23.45	24.05
July	23.51	23.72	25.01	25.37	24.99	25.16
August	24.76	24.57	25.93	26.87	25.68	26.19
September	26.08	25.80	26.78	28.40	27.14	27.66
October	25.29	24.32	25.58	27.82	25.99	26.70
November	23.38	22.42	24.22	26.02	23.68	24.60
December	25.29	25.86	27.08	27.25	26.68	26.93
Average	22.51	22.63	23.91	24.65	23.71	24.10
003 January	28.42	29.15	30.34	30.82	30.30	30.52
February	31.85	29.78	31.34	34.05	32.23	33.00
March	30.10	26.32	28.86	32.70	29.23	30.65
April	25.45	22.74	25.20	28.55	24.48	26.02
May	24.95	23.48	25.40	26.75	25.15	25.74
June	26.84	25.34	27.36	29.07	27.22	27.92
July	27.52	26.10	27.72	29.54	27.95	28.55
August	27.94	26.87	28.01	30.28	28.50	29.15
September	25.23	24.07	25.91	27.75	25.66	26.39
October	26.53	26.06	27.37	28.43	27.32	27.75
November	27.21	26.03	27.68	29.55	27.47	28.28
December	28.53	26.77	28.80	30.27	28.63	29.28
Average	27.56	25.86	27.69	29.82	27.71	28.53
104 lanuary	20.25	20.16	20.76	22.01	20.24	20.02
004 January	30.35	28.16	30.76	32.01	30.24	30.92
February	31.21	28.50	31.14	33.19	30.77	31.72
March	32.86	30.02	32.30	34.53	32.25	33.09
April	33.23	30.98	32.88	35.25	32.42	33.46
May	36.07	33.81	35.09	37.23	35.82	36.31
June	34.53	R 32.20	R 34.37	36.57	33.58	34.65
July	R 36.54	R 34.80	R 36.68	37.90	R 35.98	R 36.67
August	40.10	36.51	38.77	41.55	39.57	40.30

^a See Note 4 at end of section.

a See Note 4 at end of section.
b See Note 1 at end of section.
c See Note 2 at end of section.
d See Note 3 at end of section.
e Based on October, November, and December data only.
R=Revised. E=Estimate.
Notes: • Values for Domestic First Purchase Price and Re Notes: • Values for Domestic First Purchase Price and Refiner Acquisition
Cost for the current month and for F.O.B. and Landed Costs of Imports for the current 2 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: http://www.eia.doe.gov/emeu/mer/prices.html. Sources: See end of section.

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

(Dollars per Barrel)

Angola Colombia Mexico Nigeria Arabia United Venezuela Nations OPEC Total Non-OF				S	elected Cou	ntries					
1974 Average		Angola	Colombia	Mexico	Nigeria			Venezuela			Total Non-OPEC
1975 Average	1973 Average ^c										4.80
1976 Average			W								9.59
1977 Average			(")								
1978 Average 19.85 (d) 13.24 14.05 12.70 13.82 12.78 13.21 13.21 13.21 1379 Average 19.85 (d) 20.27 21.69 17.28 21.70 16.90 16.77 19.88 20.93 19.80 Average 33.45 (W) 31.06 35.93 28.17 34.56 28.81 28.93 32.21 32.81 19.80 Average 33.45 (W) 31.06 35.93 28.17 34.56 28.81 28.93 32.21 32.81 19.81 Average 31.85 (d) 32.08 35.33 28.17 34.56 28.81 28.93 32.21 32.81 19.81 28.91 28.91 28.91 27.53 28.81 28.91 27.53 28.91 27	1976 Average										
1990 Average 33.45 W 31.06 35.93 28.17 34.36 24.81 28.92 32.21 22.81 1991 Average 33.45 W 31.06 35.93 28.17 34.36 24.81 28.92 32.21 22.81 1991 Average 31.55 (4) 25.03 35.01 35.11 32.60 36.06 28.95 33.00 35.17 35.15 1992 Average 31.84 (4) 25.03 28.91 37.33 32.41 23.43 32.60 35.17 35.15 1992 Average 31.84 (4) 25.03 28.91 27.73 32.41 23.73 32.41 23.74 32.	1977 Average										
1980 Average	1970 Average		\ d \								
1981 Average 31.86 (°) 28.08 35.13 32.60 36.06 28.95 33.00 35.17 35.15 1982 Average 31.86 (°) 28.08 35.13 33.73 33.72 33.74 33.55 33.48 30.01 31.983 Average 27.40 0°) 26.39 28.81 27.55 29.91 21.48 27.70 28.46 27.24 1984 Average 27.40 0°) 26.39 28.51 27.52 29.91 21.48 27.70 28.46 27.24 1984 Average 27.40 0°) 26.39 28.51 27.52 29.91 21.48 27.70 28.46 27.24 1984 Average 27.40 0°) 26.39 28.51 27.52 29.91 21.48 27.70 28.46 27.24 1984 Average 17.27 17.84 16.36 18.47 11.84 11.85 11.85 11.85 11.85 11.85 11.87 11.85 11.			`w′								
1982 Average 28.14 (°) 25.20 28.81 33.13 33.73 33.42 23.74 33.55 33.48 30.55 1983 Average 28.14 (°) 25.20 28.81 27.53 29.91 21.48 27.70 27.48 27.1984 Average 27.46 (°) 25.23 29.51 27.53 29.91 21.48 27.79 27.48 27.78 27.49			(d)								35.12
1983 Average 28.14 (1982 Average		(d)								30.58
1984 Average	1983 Average		(d)								27.20
1986 Average	1984 Average		(d)								27.45
1987 Average 17.27 17.84 16.36 18.47 15.12 18.28 15.08 15.97 16.43 16.98 1988 Average 13.70 13.76 13.61 12.18 15.16 12.16 14.80 12.96 12.38 13.43 13.00 13.989 Average 20.23 20.75 19.26 22.46 16.29 17.89 16.09 16.61 17.06 16.77 1990 Average 20.23 20.75 19.26 22.46 16.29 17.89 16.09 16.61 17.06 16.77 1990 Average 18.47 18.49 15.37 20.29 14.62 20.81 14.91 15.25 18.54 20.40 20.31 1991 Average 18.47 18.49 15.37 20.29 14.62 20.81 14.91 15.22 16.59 16.77 1992 Average 18.47 18.49 15.37 20.29 14.62 20.81 14.91 15.22 16.59 16.77 1992 Average 18.47 18.49 15.37 15.44 17.99 15.85 18.64 14.91 15.22 16.59 16.77 1992 Average 15.40 14.99 13.68 16.32 14.71 15.66 17.3 15.64 17.40 W 16.94 13.66 W 15.36 16.00 1995 Average 20.71 21.33 19.14 21.27 19.28 19.43 17.73 19.22 18.94 19.66 1997 Average 18.81 18.85 16.72 19.43 15.16 18.59 15.33 15.24 16.26 17.51 1998 Average 17.46 17.20 15.89 17.32 17.65 19.14 13.33 19.90 10.20 11.21 1999 Average 27.90 29.04 25.39 28.70 24.62 27.21 24.45 24.72 25.56 26.77 2010 Average 23.25 24.25 18.89 24.85 18.98 23.30 18.01 18.89 19.73 21.00 2002 Average 27.90 29.04 25.39 24.70 24.70 24.50 18.91 18.77 17.61 17.77 February 18.76 18.76 18.99 Average 27.90 29.04 25.39 24.70 24.70 24.70 24.70 25.70 24.70 24.70 24.70 24.70 25.70											
1988 Average 17.66 17.89 15.96 18.31 16.29 17.89 16.09 16.61 17.06 16.77 1990 Average 20.23 20.75 19.26 22.46 20.36 23.43 19.55 18.54 20.40 20.31 1991 Average 18.47 18.49 15.37 20.29 14.62 20.81 14.91 15.22 16.99 16.71 1992 Average 18.47 18.49 15.37 20.29 14.62 20.81 14.91 15.22 16.99 16.71 1992 Average 18.44 18.02 15.27 19.99 14.62 20.81 14.91 15.22 16.99 16.77 1992 Average 19.44 18.02 15.24 19.99 15.85 18.54 14.31 16.25 16.87 16.87 1992 Average 19.44 19.99 15.85 18.54 14.31 16.35 16.35 16.87 16.86 1994 Average 15.40 14.99 13.68 16.32 14.12 15.66 12.21 13.97 14.00 14.33 1995 Average 20.71 21.33 19.14 21.27 19.28 19.43 17.73 19.22 18.49 19.68 1996 Average 12.11 12.56 10.49 12.97 18.87 19.89 15.33 15.24 16.26 17.51 1998 Average 12.11 12.56 10.49 12.97 8.87 12.52 9.31 9.09 10.20 11.22 1998 Average 21.21 11 2.56 10.49 12.97 8.87 12.52 9.31 9.09 10.20 11.22 1998 Average 27.90 29.04 25.39 28.70 24.62 27.21 24.45 24.72 25.56 28.77 2001 Average 27.90 29.04 25.39 28.70 24.62 27.21 24.45 24.72 25.56 28.77 2001 Average 27.89 29.04 25.39 28.70 24.62 27.21 24.45 24.72 25.56 28.77 2001 Average 27.29 29.04 25.39 28.70 24.62 27.21 24.30 18.01 18.89 19.73 21.00 200 Average 27.20 24.39 24.85 18.99 23.30 18.01 18.89 19.73 21.00 Average 27.26 23.28 24.25 18.89 23.30 18.01 18.89 19.73 21.00 200 Average 27.90 29.04 25.39 28.70 24.62 27.21 24.55 24.50 24.50 24.30 22.30 18.01 18.89 19.73 21.00 200 Average 27.90 29.04 25.39 28.70 24.62 27.21 24.91 24.50 24.8											12.87
1989 Average 20.23 20.75 19.26 22.46 20.36 23.43 19.55 18.54 20.40 20.33 1991 Average 20.23 20.75 19.26 22.46 20.36 23.43 19.55 18.54 20.40 20.33 1991 Average 18.47 18.49 15.37 20.29 14.62 20.81 14.91 15.22 16.99 16.77 1992 Average 18.47 18.49 15.37 20.29 14.62 20.81 14.91 15.22 16.99 16.77 1992 Average 18.47 18.49 15.37 20.29 14.62 20.81 14.91 15.22 16.99 16.77 1992 Average 18.41 18.02 15.26 19.98 15.85 19.61 14.39 16.35 16.87 16.66 1993 Average 15.48 19.58 15.86 16.33 14.72 15.64 12.46 14.21 14.78 14.85 1994 Average 15.48 19.37 18.64 17.79 18.40 14.22 15.66 19.94 19.27 19.28 19.40 19.28 19.29 19.20 19.29 19.2											
1990 Average 18.47 18.49 15.37 20.29 14.62 20.36 23.43 19.55 18.54 20.40 20.37 1991 Average 18.41 18.02 15.26 19.98 15.85 19.61 14.39 16.35 16.87 16.61 14.99 16.77 1993 Average 16.23 15.67 13.74 17.79 13.77 16.64 14.39 16.35 16.87 16.64 14.99 15.65 12.21 13.97 14.00 14.39 14.99 13.68 16.32 15.66 12.21 13.97 14.00 14.39 14.99 13.68 16.32 14.12 15.66 12.21 13.97 14.00 14.39 14.99 14.99 13.68 16.32 15.64 17.44 W 16.34 13.86 W 15.36 16.60 19.96 1											
1992 Average 18.47 18.49 15.37 20.29 14.62 20.81 14.91 15.22 16.99 16.71 1992 Average 18.41 18.02 15.26 19.98 15.85 19.61 14.39 16.35 16.87 16.64 1993 Average 15.40 14.99 13.68 16.32 14.12 15.66 12.21 13.97 14.00 14.33 1995 Average 16.58 16.73 15.64 17.40 W W 15.36 W 15.36 16.03 1996 Average 20.71 21.33 19.14 21.27 19.28 19.43 17.73 19.22 18.94 19.65 1997 Average 18.81 18.85 16.72 19.43 15.16 18.59 15.33 15.24 16.26 17.51 1998 Average 12.11 12.56 10.49 12.97 8.87 12.52 9.31 9.09 10.20 11.21 1998 Average 17.46 17.20 15.89 17.32 17.65 19.43 17.15 15.90 16.87 1998 Average 23.25 24.25 18.89 24.85 18.98 27.21 24.45 24.72 25.56 26.72 2000 Average 23.25 24.25 18.89 24.85 18.98 23.30 18.01 18.89 19.73 2002 January 19.12 18.93 14.25 19.63 W W 14.84 19.77 17.61 17.77 2014 Average 22.65 23.88 20.21 24.39 23.42 W 20.02 23.38 22.48 23.33 2024 June 22.93 24.30 22.05 24.39 23.55 23.24 20.50 23.66 22.66 23.84 2014 June 22.93 24.30 22.05 24.39 23.55 23.24 20.50 23.66 22.26 22.84 2014 June 22.93 24.30 22.05 24.39 23.55 23.24 20.50 23.66 22.26 22.84 203.4 August 25.93 26.10 23.70 27.28 25.10 W 22.67 25.33 24.12 24.88 204.0 September 27.97 29.11 25.31 28.56 24.67 28.41 28.99 23.06 22.88 22.26 2003 Average 24.49											
1993 Average 16.23 15.67 13.74 17.79 13.77 16.64 12.46 14.21 14.78 14.67 1993 Average 16.23 15.67 13.74 17.79 13.77 16.65 12.21 13.97 14.00 14.39 195 Average 15.40 14.99 13.68 16.32 15.66 12.21 13.97 14.00 14.39 195 Average 16.58 16.73 15.64 17.40 W 15.94 13.86 W 15.36 16.00 1995 Average 20.71 21.33 19.14 21.27 19.22 18.93 17.73 19.22 18.94 19.61 1997 Average 18.16 16.72 19.24 19.25 19.26 19.25 19.2	1991 Average										
1993 Average 16.23 15.87 13.74 17.79 13.77 16.64 12.46 14.21 14.78 14.65 1994 Average 15.40 14.99 13.68 16.32 14.12 15.66 12.21 13.97 14.00 14.33 1995 Average 20.71 21.33 19.14 21.27 19.28 19.43 17.73 19.22 18.94 19.61 1996 Average 20.71 21.33 19.14 21.27 19.28 19.43 17.73 19.22 18.94 19.61 1997 Average 18.81 18.86 16.72 19.45 15.16 18.59 17.73 19.22 18.94 19.61 1997 Average 18.81 18.86 16.72 19.45 15.16 18.59 17.73 19.22 18.94 19.61 1998 Average 17.90 19.04 15.89 17.72 16.5 19.5 19.5 19.5 19.00 17.5	1992 Average										
1995 Average	1993 Average										14.65
1995 Average 20.71	1994 Average										14.34
1998 Average		16.58	16.73	15.64	17.40	w	16.94	13.86	w	15.36	16.02
1989 1984 12-11 12-56 10-49 12-97 8.87 12-52 9.31 9.09 10-20 11-21 12-99 Average 17-46 17-20 15.89 17-32 17-65 19-14 14-33 17-15 15-90 16.21 16.21 17-65 19-14 14-33 17-15 15-90 16.21 16.21 17-65 19-14 14-33 17-15 15-90 16.21 17-65 19-14 14-33 17-15 15-90 16.21 17-75	1996 Average	20.71	21.33			19.28			19.22	18.94	19.65
1999 Average	1997 Average										17.51
2000 Average 27,90 29,04 25,39 28,70 24,62 27,21 24,45 24,72 25,56 26,77 2001 Average 23,25 24,25 18,89 24,85 18,98 23,30 18,01 18,89 19,73 21,01 2002 January 19,12 18,93 14,25 19,63 W W 13,49 17,46 15,79 16,17 February 18,76 19,28 15,91 20,73 21,11 W 14,46 19,77 17,61 17,77 March 22,63 23,88 20,21 24,39 23,42 W 20,02 23,38 22,48 23,34 May 24,436 25,57 22,42 25,66 23,17 W 20,02 23,38 22,48 23,34 June 22,293 24,30 22,05 24,39 23,55 23,24 20,50 23,56 22,26 22,82 July 24,63 29,33 26,10 23,70 27	1998 Average										
2002 January	1999 Average										
2002 January	2000 Average										
February	2001 Average	23.25	24.25	18.89	24.85	18.98	23.30	18.01	18.89	19.73	21.04
March											16.17
April	February										
May 24.49 26.11 22.83 W 23.19 24.52 19.90 22.78 22.26 23.77 June 22.93 24.30 22.05 24.39 23.55 23.24 20.50 23.56 22.26 22.84 July 24.63 W 22.50 26.01 25.12 25.39 21.71 24.99 23.46 23.93 August 25.93 26.10 23.70 27.28 25.10 W 22.67 25.33 24.12 24.88 September 27.97 29.11 25.31 28.56 24.67 28.41 23.98 24.71 25.09 26.30 October 26.57 27.03 23.68 27.28 23.46 28.20 21.59 23.06 22.88 25.24 December 28.75 27.75 24.25 29.98 26.75 W 23.41 26.64 26.53 25.57 Average 24.09 24.64 21.60 25.38 23.92	March										
Jurie	April										
July											
August 25.93 26.10 23.70 27.28 25.10 W 22.67 25.33 24.12 24.85 September 27.97 29.11 25.31 28.56 24.67 28.41 23.98 24.71 25.09 26.36 October 26.57 27.03 23.68 27.28 23.46 28.20 21.59 23.06 22.88 25.28 November 23.58 24.14 20.63 24.93 25.12 25.10 20.18 24.58 22.36 22.45 December 28.75 27.75 24.25 29.98 26.75 W 23.41 26.64 26.53 25.57 Average 24.09 24.64 21.60 25.38 23.92 24.50 20.13 23.38 22.18 22.93 2003 January 31.59 32.94 28.32 31.76 27.79 31.66 W 27.83 29.05 29.27 February 33.49 35.25 28.43 33.64											
September 27.97 29.11 25.31 28.56 24.67 28.41 23.98 24.71 25.09 26.37 October 23.58 24.14 20.63 27.28 23.46 28.20 21.59 23.06 22.88 25.26 November 23.58 24.14 20.63 24.93 25.12 25.10 20.18 24.58 22.36 22.46 December 28.75 27.75 24.25 29.98 26.75 W 23.41 26.64 26.53 25.57 Average 24.09 24.64 21.60 25.38 23.92 24.50 20.13 23.38 22.18 22.93 2003 January 31.59 32.94 28.32 31.76 27.79 31.66 W 27.83 29.05 29.27 March 29.34 31.28 24.97 30.82 24.87 28.78 22.83 25.09 25.39 26.93 26.93 24.81 24.85 21.53 25.27 20.97											
October 26.57 27.03 23.68 27.28 23.46 28.20 21.59 23.06 22.88 25.22 November 23.58 24.14 20.63 24.93 25.12 25.10 20.18 24.58 22.36 22.46 December 28.75 27.75 24.25 29.98 26.75 W 23.41 26.64 26.53 22.46 Average 24.09 24.64 21.60 25.38 23.92 24.50 20.13 23.38 22.18 22.93 2003 January 31.59 32.94 28.32 31.76 27.79 31.66 W 27.83 29.05 29.27 February 33.49 35.25 28.43 33.64 26.67 32.97 28.50 27.17 28.65 30.52 March 29.34 31.28 24.97 30.82 24.87 28.78 22.83 25.09 25.39 26.92 April 24.81 24.85 21.53 25.27											26.30
November 23.58 24.14 20.63 24.93 25.12 25.10 20.18 24.58 22.36 22.46 26.57 27.75 24.25 29.98 26.75 W 23.41 26.64 26.53 25.57 24.09 24.64 21.60 25.38 23.92 24.50 20.13 23.38 22.18 22.95 24.09 24.64 21.60 25.38 23.92 24.50 20.13 23.38 22.18 22.95 22.50 24.09 24.64 21.60 25.38 23.92 24.50 20.13 23.38 22.18 22.95 22.50 24.09 24.64 24.65 25.57 24.65 30.57 24.65 30.57 24.65 30.57 24.65 30.57 24.65 30.57 24.65 30.57 24.65 30.57 24.65 25.39 26.99 26.33 27.49 25.60 27.79 26.45 W 22.98 26.37 24.88 25.61 24.39 27.79 26.45 W 22.98 26.37 24.88 25.61 25.60 25.40 25.54 22.94 24.87 25.99 26.33 27.25 25.25 25.28 24.87 25.99 26.33 27.25 25.25											25.29
Average 24.09 24.64 21.60 25.38 23.92 24.50 20.13 23.38 22.18 22.93 2003 January 31.59 32.94 28.32 31.76 27.79 31.66 W 27.83 29.05 29.22 February 33.49 35.25 28.43 33.64 26.67 32.97 28.50 27.17 28.65 30.52 March 29.34 31.28 24.97 30.82 24.87 28.78 22.83 25.09 25.39 26.98 April 24.81 24.85 21.53 25.27 20.97 W 21.00 21.08 21.83 23.44 May 25.63 25.13 22.56 27.03 22.52 25.28 21.61 22.57 22.78 23.94 July 27.83 W 25.60 29.14 25.54 W 22.98 26.37 24.88 25.63 August 28.76 28.97 25.88 30.08 26.22											22.46
2003 January	December	28.75	27.75	24.25	29.98	26.75	W	23.41	26.64	26.53	25.51
February 33.49 35.25 28.43 33.64 26.67 32.97 28.50 27.17 28.65 30.52	Average	24.09	24.64	21.60	25.38	23.92	24.50	20.13	23.38	22.18	22.93
February 33.49 35.25 28.43 33.64 26.67 32.97 28.50 27.17 28.65 30.52	2003 January	31.59	32.94	28.32	31.76	27.79	31.66	W	27.83	29.05	29.21
March 29,34 31,28 24,97 30,82 24,87 28,78 22,83 25,09 25,39 26,99 April 24,81 24,85 21,53 25,27 20,97 W 21,00 21,08 21,83 23,40 May 25,63 25,13 22,56 27,03 22,52 25,28 21,61 22,57 22,78 23,94 June 26,66 27,63 24,39 27,79 26,45 W 22,98 26,37 24,88 25,67 July 27,83 W 25,60 29,14 25,54 W 24,51 25,58 26,63 26,47 August 28,76 28,97 25,88 30,08 26,22 9,42 24,87 25,99 26,33 27,22 September 26,13 27,44 23,33 27,28 23,82 W 22,76 23,80 23,78 24,32 October 29,47 28,91 23,77 30,02 W W </td <td>February</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>30.52</td>	February										30.52
April 24.81 24.85 21.53 25.27 20.97 W 21.00 21.08 21.83 23.44 May 25.63 25.13 22.56 27.03 22.52 25.28 21.61 22.57 22.78 23.98 June 26.66 27.63 24.39 27.79 26.45 W 22.98 26.37 24.88 25.66 July 27.83 W 25.60 29.14 25.54 W 24.51 25.58 25.63 26.44 August 28.76 28.97 25.88 30.08 26.22 29.42 24.87 25.99 26.33 27.20 September 26.13 27.44 23.33 27.28 23.82 W 22.76 23.80 23.78 24.33 October 29.47 28.91 23.77 30.02 W W 23.77 26.29 25.84 26.27 November 28.94 W 24.92 29.78 27.70 29.32 23.75 26.88 26.09 25.95 Average 28.22 <	March	29.34	31.28	24.97		24.87	28.78				26.99
May 25.63 25.13 22.56 27.03 22.52 25.28 21.61 22.57 22.78 23.95 June 26.66 27.63 24.39 27.79 26.45 W 22.98 26.37 24.88 25.67 July 27.83 W 25.60 29.14 25.54 W 24.51 25.58 25.63 26.43 August 28.76 28.97 25.88 30.08 26.22 29.42 24.87 25.99 26.33 27.20 September 26.13 27.44 23.33 27.28 23.82 W 22.76 23.80 23.78 24.33 October 29.47 28.91 23.77 30.02 W W 23.77 26.29 25.84 26.22 November 28.94 W 24.92 29.78 27.70 29.32 23.75 26.88 26.09 25.96 December 29.58 30.02 25.56 30.60 27.70											23.40
June 26.66 27.63 24.39 27.79 26.45 W 22.98 26.37 24.88 25.61 July 27.83 W 25.60 29.14 25.54 W 24.51 25.58 25.63 26.47 August 28.76 28.97 25.88 30.08 26.22 29.42 24.87 25.99 26.33 27.26 September 26.13 27.44 23.33 27.28 23.82 W 22.76 23.80 23.78 24.33 October 29.47 28.91 23.77 30.02 W W 23.77 26.29 25.84 26.27 November 28.94 W 24.92 29.78 27.70 29.32 23.75 26.88 26.09 25.94 December 29.58 30.02 25.56 30.60 27.70 W 25.71 27.32 27.05 26.56 Average 28.22 28.89 24.83 29.40 25.03	May							21.61			23.99
August 28.76 28.97 25.88 30.08 26.22 29.42 24.87 25.99 26.33 27.26 September 26.13 27.44 23.33 27.28 23.82 W 22.76 23.80 23.78 24.32 October 29.47 28.91 23.77 30.02 W W 23.77 26.29 25.84 26.21 November 28.94 W 24.92 29.78 27.70 29.32 23.75 26.88 26.09 25.99 December 29.58 30.02 25.56 30.60 27.70 W 25.71 27.32 27.05 26.56 Average 28.22 28.89 24.83 29.40 25.03 28.76 23.81 25.17 25.36 26.21 2004 January W 33.14 26.65 31.25 W W 25.94 27.98 27.88 28.44 February 30.06 W 26.24 32.03 W W 26.70 28.05 28.70 28.33 March W	June										25.67
September 26.13 27.44 23.33 27.28 23.82 W 22.76 23.80 23.78 24.32 October 29.47 28.91 23.77 30.02 W W 23.75 26.29 25.84 26.27 November 28.94 W 24.92 29.78 27.70 29.32 23.75 26.88 26.09 25.94 December 29.58 30.02 25.56 30.60 27.70 W 25.71 27.32 27.05 26.56 Average 28.22 28.89 24.83 29.40 25.03 28.76 23.81 25.17 25.36 26.21 2004 January W 33.14 26.65 31.25 W W 25.94 27.98 27.88 28.40 February 30.06 W 26.24 32.03 W W 26.70 28.05 28.70 28.33 March W 33.17 28.26 33.80 W 33.72 <td></td> <td>26.41</td>											26.41
October 29.47 28.91 23.77 30.02 W W 23.77 26.29 25.84 26.21 November 28.94 W 24.92 29.78 27.70 29.32 23.75 26.88 26.09 25.98 December 29.58 30.02 25.56 30.60 27.70 W 25.71 27.32 27.05 26.59 Average 28.22 28.89 24.83 29.40 25.03 28.76 23.81 25.17 25.36 26.21 2004 January W 33.14 26.65 31.25 W W 25.94 27.98 27.88 26.21 2004 January W 30.06 W 26.24 32.03 W W 25.94 27.98 27.88 28.40 February 30.06 W 26.24 32.03 W W 26.70 28.05 28.70 28.33 March W 33.17 28.26 33.80 W											
November 28.94 W 24.92 29.78 27.70 29.32 23.75 26.88 26.09 25.98 December 29.58 30.02 25.56 30.60 27.70 W 25.71 27.32 27.05 26.56 Average 28.22 28.89 24.83 29.40 25.03 28.76 23.81 25.17 25.36 26.21 2004 January W 33.14 26.65 31.25 W W 25.94 27.98 27.88 28.44 February 30.06 W 26.24 32.03 W W 26.70 28.05 28.70 28.35 March W 33.17 28.26 33.80 W 33.72 28.15 29.76 30.08 29.97 April 32.43 34.47 29.46 34.21 W W 31.23 29.89 31.54 30.47 May W 36.67 35.10 30.33 35.63 R32.91											
December 29.58 Average 30.02 25.56 30.60 27.70 W 25.71 27.32 27.05 26.56 26.21 Average 28.22 28.89 24.83 29.40 25.03 28.76 23.81 25.71 25.36 26.21 2004 January W 33.14 26.65 31.25 W W 25.94 27.98 27.88 28.40 February 30.06 W 26.24 32.03 W W 26.70 28.05 28.70 28.35 March W 33.17 28.26 33.80 W 33.72 28.15 29.76 30.08 29.97 April 32.43 34.47 29.46 34.21 W W 31.23 29.89 31.54 30.47 May W 36.46 32.40 38.16 W W 33.18 32.49 34.50 33.25 June R 36.57 35.10 R 30.33 35.63 R 32.91 W 30.92 R 32.31 R 32.46 R 32.05 R 32.46 R 32.05 July R 36.61 39.28 32.56 R 39.80 R 34.55 (d) R 32.46 R 34.35 R 35.08 R 34.55											
Average 28.22 28.89 24.83 29.40 25.03 28.76 23.81 25.17 25.36 26.21 2004 January W 33.14 26.65 31.25 W W 25.94 27.98 27.88 28.46 February 30.06 W 26.24 32.03 W W 26.70 28.05 28.70 28.33 March W 33.17 28.26 33.80 W 33.72 28.15 29.76 30.08 29.97 April 32.43 34.47 29.46 34.21 W W 31.23 29.89 31.54 30.48 May W 36.46 32.40 38.16 W W 33.18 32.49 34.50 33.25 Jule R 36.57 35.10 R 30.33 35.63 R 32.91 W 30.92 R 32.31 R 32.46 R 34.55 R 34.455 (d) R											
February 30.06 W 26.24 32.03 W W 26.70 28.05 28.70 28.35 March W 33.17 28.26 33.80 W 33.72 28.15 29.76 30.08 29.97 April 32.43 34.47 29.46 34.21 W W 31.23 29.89 31.54 30.47 May W 36.46 32.40 38.16 W W 33.18 32.49 34.50 33.25 June R 36.57 35.10 R 30.33 35.63 R 32.91 W 30.92 R 32.31 R 32.46 R 32.07 July R 36.61 39.28 32.56 R 39.80 R 34.55 (d) R 32.46 R 35.08 R 34.50											26.21
February 30.06 W 26.24 32.03 W W 26.70 28.05 28.70 28.35 March W 33.17 28.26 33.80 W 33.72 28.15 29.76 30.08 29.97 April 32.43 34.47 29.46 34.21 W W 31.23 29.89 31.54 30.47 May W 36.46 32.40 38.16 W W 33.18 32.49 34.50 33.25 June R 36.57 35.10 R 30.33 35.63 R 32.91 W 30.92 R 32.31 R 32.46 R 32.07 July R 36.61 39.28 32.56 R 39.80 R 34.55 (d) R 32.46 R 35.08 R 34.50	2004 lonuor:	\^/	22 4 4	26.65	24.05	\^/	101	25.04	27.00	27.00	20 40
March W 33.17 28.26 33.80 W 33.72 28.15 29.76 30.08 29.97 April 32.43 34.47 29.46 34.21 W W 31.23 29.89 31.54 30.47 May W 36.46 32.40 38.16 W W 33.18 32.49 34.50 33.25 June R 36.57 35.10 R 30.33 35.63 R 32.91 W 30.92 R 32.31 R 32.46 R 32.46 R 34.55 (d) R 32.46 R 34.35 R 35.08 R 34.54											
April 32.43 34.47 29.46 34.21 W W 31.23 29.89 31.54 30.47 May W 36.46 32.40 38.16 W W 33.18 32.49 34.50 33.25 June R 36.57 35.10 R 30.33 35.63 R 32.91 W 30.92 R 23.21 R 32.46 R 32.46 R 32.46 R 32.46 R 34.35 R 34.54 July R 36.61 39.28 32.56 R 39.80 R 34.55 (d) R 32.46 R 34.35 R 35.08 R 34.54											
May W 36.46 32.40 38.16 W W 33.18 32.49 34.50 33.25 June R 36.57 35.10 R 30.33 35.63 R 32.91 W 30.92 R 32.31 R 32.46 R 32.01 July R 36.61 39.28 32.56 R 39.80 R 34.55 (d) R 32.46 R 34.35 R 35.08 R 34.54											30.47
June R 36.57 35.10 R 30.33 35.63 R 32.91 W 30.92 R 32.31 R 32.46 R 32.07 July		W		32.40		W			32.49	34.50	33.25
July		R 36.57		R 30.33	35.63	R 32.91	W	30.92			R 32.01
		R 36.61		32.56	R 39.80	R 34.55	(^d)				R 34.54
nugusi vv vv 34.21 43.10 vv 41.09 34.31 34.12 30.24 30.17	August	W	W	34.27	43.70	W	41.89	34.31	34.72	36.24	36.71

^a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab

section. • Values for the current 2 months are preliminary. • Prices through section. • Values for the current 2 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.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html. Sources: See end of section.

b Current members are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela. Ecuador is included in the data through 1992 and Gabon through 1995.

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

Based on October, November, and December data only.
 No data reported.
 R=Revised. NA=Not available. W=Value withheld to avoid disclosure of

individual company data.

Notes: • The Free on Board (F.O.B.) cost at the country of origin excludes all costs related to insurance and transportation. See Note 2 at end of

Table 9.3 Landed Costs of Crude Oil Imports From Selected Countries

(Dollars per Barrel)

				Selected	Countries						
	Angola	Canada	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^a	Total OPEC ^b	Total Non-OPEC
1973 Average ^c	w	5.33	w	NA	9.08	5.37	NA	5.99	5.91	6.85	5.64
1974 Average	12.48	11.48	W	W	13.16	11.63	NA	11.25	12.21	12.49	11.81
1975 Average	11.81	12.84	(d)	12.61	12.70	12.50	NA	12.36	12.64	12.70	12.70
1976 Average	12.71 14.04	13.36 14.13	(d)	12.64 13.82	13.81 15.29	13.06 13.69	W 14.83	11.89 13.11	13.03 13.85	13.32 14.35	13.35 14.42
1977 Average 1978 Average	14.04	14.13	{a}	13.56	14.88	13.94	14.53	12.84	14.01	14.34	14.38
1979 Average	21.06	20.22	{d {	20.77	22.97	18.95	22.97	17.65	20.42	21.29	22.10
1980 Average	34.76	30.11	`w′	31.77	37.15	29.80	35.68	25.92	30.59	33.56	33.99
1981 Average	36.84	32.32	(d)	33.70	39.66	34.20	37.29	29.91	34.61	36.60	36.14
1982 Average	33.08	27.15	(d)	28.63	36.16	34.99	34.25	24.93	34.94	34.81	31.47
1983 Average	29.31	25.63	(d)	25.78	30.85	29.27	30.87	22.94	29.37	29.84	28.08
1984 Average	28.49	26.56	(d)	26.85	30.36	29.20	29.45	25.19	29.07	29.06	28.14
1985 Average	27.39	25.71	(°) 12.85	25.63 12.17	28.96 15.29	24.72	28.36	24.43 11.52	25.50	26.86	26.53 13.52
1986 Average 1987 Average	14.09 18.20	13.43 17.04	18.43	16.69	19.32	12.84 16.81	14.63 18.78	15.76	12.92 17.47	13.46 17.64	17.66
1988 Average	14.48	13.50	14.47	12.58	15.88	13.37	15.82	13.66	13.51	14.18	13.96
1989 Average	18.36	16.81	18.10	16.35	19.19	17.34	18.74	16.78	17.37	17.78	17.54
1990 Average	21.51	20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
1991 Average	19.90	17.16	19.55	15.89	21.39	17.22	21.37	15.92	17.34	18.08	17.93
1992 Average	19.36	17.04	18.46	15.60	20.78	17.48	20.63	15.13	17.58	17.81	17.67
1993 Average	17.40	15.27	16.54	14.11	18.73	15.40	17.92	13.39	15.26	15.68	15.78
1994 Average	16.36	14.83	15.80	14.09	17.21	15.11	16.64	13.12	15.00	15.08	15.29
1995 Average	17.66	16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
1996 Average	21.86 20.24	19.94 17.63	22.02 19.71	19.64 17.30	21.95 20.64	20.49 17.52	20.88 20.64	18.59 16.35	20.45 17.44	20.14 17.73	20.47 18.45
1997 Average 1998 Average	13.37	11.62	13.26	11.04	14.14	11.16	13.55	10.16	11.18	11.46	12.22
1999 Average	18.37	17.54	18.09	16.12	17.63	17.48	18.26	15.58	17.37	16.94	17.51
2000 Average	29.57	26.69	29.68	26.03	30.04	26.58	29.26	26.05	26.77	27.29	27.80
2001 Average	25.13	20.72	25.88	19.37	26.55	20.98	25.32	19.81	20.73	21.52	22.17
2002 January	20.03	15.64	19.86	14.87	20.41	19.02	W	15.07	18.02	17.57	16.95
February	19.70	18.00	20.33	16.29	21.57	21.99	20.83	16.49	20.67	19.68	18.58
March April	22.99 25.24	20.05 23.37	24.54 26.22	20.38 22.90	24.33 26.47	24.01 24.18	23.72 25.35	20.82 22.02	23.31 24.06	22.79 24.03	21.72 24.26
May	25.52	23.97	25.85	23.45	26.56	24.10	25.93	21.92	24.33	24.11	24.78
June	24.48	23.15	24.99	22.61	25.55	24.61	25.12	22.30	24.48	23.98	23.93
July	26.06	24.38	25.99	23.09	26.89	25.97	26.36	23.34	25.77	25.06	24.98
August	26.99	25.63	27.00	24.21	27.75	26.67	27.00	24.43	26.51	25.94	25.92
September	28.93	26.00	29.77	25.76	29.44	25.93	28.20	25.45	25.97	26.37	27.16
October	27.75	25.16	28.07	24.14	28.59	25.02	28.90	23.06	24.92	24.73	26.30
November	25.06	23.24	25.28	21.24	26.53	26.37	26.96	22.02	25.86	24.53	23.92
December Average	30.65 25.43	24.53 22.98	28.42 25.28	24.63 22.09	30.58 26.45	28.20 24.77	29.38 26.35	25.09 21.93	27.91 24.13	28.07 23.83	26.32 23.97
_											
2003 January	33.28	27.91	34.11	28.71	33.40	30.55	32.89	29.38	30.22	30.79	29.99
February	36.01	30.10	36.79	29.28	35.65	29.25 26.23	34.74	30.80	29.85	30.73	31.94
March	32.00 27.77	29.93 26.06	32.73 26.15	26.18 22.24	34.29 29.54	26.23 24.46	31.32 28.23	26.51 23.33	27.01 24.26	28.24 24.86	29.52 25.62
April May	27.77	24.98	26.15	23.12	28.33	25.40	26.23 26.75	23.42	25.15	25.30	25.50
June	28.52	26.91	29.35	25.09	29.49	28.22	29.58	25.06	28.11	27.38	27.33
July	29.60	26.88	30.17	26.05	30.40	27.54	29.83	26.11	27.50	27.58	27.84
August	30.04	27.48	30.24	26.37	31.10	27.08	30.52	26.23	26.93	27.70	28.27
September	27.91	25.17	28.13	23.76	29.12	25.81	28.95	24.09	25.88	25.99	25.84
October	31.07	25.57	29.88	24.37	30.38	28.23	31.14	25.48	28.01	27.76	26.97
November	30.57	25.06	30.38	25.54	31.45	29.13	31.60	25.85	28.61	28.36	26.95
December Average	31.60 30.14	26.16 26.76	32.63 30.55	26.27 25.48	32.51 31.07	30.56 27.50	31.46 30.62	27.70 25.70	30.17 27.54	29.84 27.70	27.79 27.68
2004 January	34.03	29.37	34.85	27.81	33.63	31.73	32.89	28.79	31.43	31.20	30.32
February	34.44	30.21	35.99	27.10	35.09	31.98	33.30	28.98	31.70	31.86	30.35
March	35.00	30.95	35.34	28.92	36.06	33.11	36.41	30.00	32.89	32.92	31.60
April	35.29	31.20	35.30	29.82	36.65	33.37	35.11	32.39	33.21	33.69	31.97
May	37.90	32.70	37.78	32.84	39.33	34.89	38.14	34.16	34.68	35.70	34.45
June	R 38.44	33.05	36.19	30.89	R 38.05	R 36.14	36.50	32.29	R 35.43	R 35.21	R 33.55
July		R 35.00	38.49	R 32.84	R 41.00	R 38.30	R 40.93	R 33.78	R 37.97	R 37.67	R 35.60
August	44.34	38.17	42.30	34.67	44.50	40.02	42.51	36.33	38.87	39.59	38.07

^a Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab

a Bahrain, Iran, Iran, Ruwaii, Ruwaii, Galaii, Galaii,

Notes: • See Note 3 at end of section. • Values for the current 2 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. and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.
Sources: • October 1973-September 1977: Federal Energy
Administration, Form FEA-F701-M-0, "Transfer Pricing Report."
• October 1977-December 1977: Energy Information Administration (EIA),
Form FEA-F701-M-0, "Transfer Pricing Report." • 1978 forward: EIA,
Petroleum Marketing Monthly, November 2004, Table 25.

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

	Leaded Regular	Unleaded Regular	Unleaded Premium	All Types ^a
973 Average	38.8	NA	NA	NA
974 Average	53.2	NA	NA	NA
975 Average	56.7	NA	NA	NA
976 Average	59.0	61.4	NA	NA
977 Average	62.2	65.6	NA	NA
078 Average	62.6	67.0	NA	65.2
79 Average	85.7	90.3	NA	88.2
80 Average	119.1	124.5	NA	122.1
81 Average ^b	131.1	137.8	^c 147.0	135.3
82 Average	122.2	129.6	141.5	128.1
983 Average	115.7	124.1	138.3	122.5
84 Average	112.9	121.2	136.6	119.8
985 Average	111.5	120.2	134.0	119.6
986 Average	85.7	92.7	108.5	93.1
987 Average	89.7	94.8	109.3	95.7
988 Average	89.9	94.6	110.7	96.3
989 Average	99.8	102.1	119.7	106.0
990 Average	114.9	116.4	134.9	121.7
91 Average	NA	114.0	132.1	119.6
992 Average	NA NA	112.7	131.6	119.0
993 Average	NA.	110.8	130.2	117.3
994 Average	NA	111.2	130.5	117.4
995 Average	NA	114.7	133.6	120.5
996 Average	NA	123.1	141.3	128.8
997 Average	NA NA	123.4	141.6	129.1
998 Average	NA NA	105.9	125.0	111.5
999 Average	NA NA	116.5	135.7	122.1
000 Average	NA NA	151.0	169.3	156.3
001 Average	NA NA	146.1	165.7	153.1
002 January	NA	113.9	132.3	120.9
February	NA	113.0	133.0	121.0
March	NA	124.1	145.0	132.4
April	NA	140.7	162.2	149.3
May	NA	142.1	162.5	150.8
June	NA	140.4	160.6	148.9
July	NA	141.2	160.7	149.6
August	NA	142.3	162.0	150.8
September	NA	142.2	161.9	150.7
October	NA	144.9	164.3	153.5
November	NA	144.8	164.3	153.4
December	NA	139.4	158.9	147.7
Average	NA	135.8	155.6	144.1
003 January	NA	147.3	166.6	155.7
February	NA	164.1	182.8	168.6
March	NA	174.8	192.4	179.1
April	NA	165.9	184.6	170.4
May	NA	154.2	172.9	158.7
June	NA	151.4	170.0	155.8
July	NA	152.4	171.0	156.7
August	NA	162.8	180.8	167.1
September	NA	172.8	191.1	177.1
October	NA	160.3	178.9	164.6
November	NA	153.5	172.4	157.8
December	NA	149.4	168.6	153.8
Average	NA	159.1	177.7	163.8
104 January	NA	159.2	177.9	163.5
February	NA	167.2	185.8	171.5
March	NA	176.6	194.9	180.9
April	NA	183.3	201.2	187.5
May	NA	200.9	218.6	205.0
June	NA	204.1	222.5	208.3
July	NA	193.9	213.0	198.2
August	NA	189.8	209.1	194.1

NA=Not available.

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

when areas.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.
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 Energy Information Administration as the simple averages of monthly data.

^a Also includes types of motor gasoline not shown separately.
^b 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.

^c Based on September through December data only.

Notes: • See Note 5 at end of section. • Geographic coverage for

Table 9.5 Refiner Prices of Residual Fuel Oil

	Sulfur Co	I Fuel Oil ntent Less al to 1 Percent	Sulfur	ll Fuel Oil Content an 1 Percent	Ave	erage
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users
978 Average	29.3	31.4	24.5	27.5	26.3	29.8
979 Average	45.0	46.8	36.6	38.9	39.9	43.6
980 Average	60.8	67.5	47.9	52.3	52.8	60.7
981 Average	74.8	82.9	62.2	67.3	66.3	75.6
982 Average	69.5	74.7	57.2	61.1	61.2	67.6
983 Average	64.3	69.5	59.1	61.1	60.9	65.1
984 Average	68.5	72.0	63.9	65.9	65.4	68.7
085 Average	61.0	64.4	56.0	58.2	57.7	61.0
986 Average	32.8	37.2	28.9	31.7	30.5	34.3
987 Average	41.2	44.7	36.2	39.6	38.5	42.3
988 Average	33.3	37.2	27.1	30.0	30.0	33.4
NO Average	40.7	43.6	33.1	34.4	36.0	38.5
989 Average	40.7 47.2	50.5	37.2	40.0	41.3	36.5 44.4
990 Average						
991 Average	36.4	40.2	29.2	30.6	31.4	34.0
992 Average	35.1	38.9	28.6	31.2	30.8	33.6
993 Average	33.7	39.7	25.6	30.3	29.3	33.7
994 Average	34.5	40.1	28.7	33.0	31.7	35.2
95 Average	38.3	43.6	33.8	37.7	36.3	39.2
996 Average	45.6	52.6	38.9	43.3	42.0	45.5
997 Average	41.5	48.8	36.6	40.3	38.7	42.3
998 Average	29.9	35.4	26.9	28.7	28.0	30.5
99 Average	38.2	40.5	32.9	36.2	35.4	37.4
000 Average	62.7	70.8	51.2	56.6	56.6	60.2
01 Average	52.3	64.2	42.8	49.2	47.6	53.1
002 January	40.4	51.8	33.7	41.6	38.2	44.2
February	37.1	52.2	33.7	40.9	35.9	43.3
March	46.0	53.5	40.5	48.3	43.7	49.7
April	53.8	59.4	48.0	55.0	51.2	56.0
May	56.3	63.5	52.1	56.6	54.5	58.1
June	53.5	61.4	53.3	57.2	53.4	58.2
July	55.7	63.2	50.9	56.8	53.7	58.6
	60.6	67.4	55.8	59.2	58.4	61.4
August						
September	60.1	67.8	56.8	62.6	58.7	63.8
October	65.1	72.7	54.5	63.7	60.7	65.8
November	59.1	73.6	58.2	54.8	58.7	60.1
December Average	67.6 54.6	73.9 64.0	59.7 50.8	56.6 54.4	64.1 53.0	62.0 56.9
003 January	79.7	86.6	NA 70.0	71.2	73.1	75.4
February	94.4	97.2	76.0	77.1	87.3	83.9
March	88.1	98.1	62.4	72.1	77.4	81.1
April	60.3	77.3	51.9	59.5	56.9	64.3
May	62.8	74.9	53.2	58.8	57.2	61.9
June	62.6	71.9	54.1	60.0	58.0	63.9
July	64.9	74.5	58.9	67.8	61.7	70.1
August	67.2	75.4	60.7	67.2	63.4	69.8
September	62.6	72.0	56.1	61.2	58.6	64.6
October	65.2	70.7	56.6	62.8	60.1	65.2
November	67.3	76.7	58.7	62.2	62.7	66.7
December	66.7	79.3	54.5	60.7	62.3	66.8
Average	72.8	80.4	58.8	65.1	66.1	69.8
04 January	75.3	84.4	57.6	64.9	69.0	71.6
February	76.3	80.7	59.3	64.0	69.7	70.3
March	67.3	76.3	57.1	62.5	62.8	67.5
April	69.9	75.8	58.4	64.8	64.4	68.8
May	76.4	79.1	62.9	69.8	68.9	72.8
	75.7	78.7		71.6	69.6	72.8 73.9
June			62.7			
July	72.2	76.3	60.4	69.3	66.4	71.4
August	75.2	79.8	60.8	70.1	67.8	73.2

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 Energy Information Administration (EIA) estimates. See Note 6 at end of section. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html. Source: EIA, *Petroleum Marketing Monthly*, November 2004, Table 19.

Table 9.6 Refiner Prices of Petroleum Products for Resale

	Finished	Finished	Kerosene-		No. 2	No. 2	Propane
	Motor	Aviation	Туре	14	Fuel	Diesel	(Consume
	Gasolinea	Gasoline	Jet Fuel	Kerosene	Oil	Fuel	Grade)
978 Average	43.4	53.7	38.6	40.4	36.9	36.5	23.7
979 Average	63.7	72.1	66.0	62.4	56.9	57.4	29.1
980 Average	94.1	112.8	86.8	86.4	80.3	80.1	41.5
981 Average	106.4	125.0	101.2	106.6	97.6	97.2	46.6
982 Average	97.3	122.8	95.3	101.8	91.4	91.4	42.7
983 Average	88.2	117.8	85.4	89.2	81.5	80.8	48.4
984 Average	83.2	116.5	83.0	91.6	82.1	80.3	45.0
985 Average	83.5	113.0	79.4	87.4	77.6	77.2	39.8
986 Average	53.1	91.2	49.5	60.6	48.6	45.2	29.0
987 Average	58.9	85.9	53.8	59.2	52.7	53.4	25.2
988 Average	57.7	85.0	49.5	54.9	47.3	47.3	24.0
989 Average	65.4	95.0	58.3	66.9	56.5	56.7	24.7
990 Average	78.6	106.3	77.3	83.9	69.7	69.4	38.6
991 Average	69.9	100.1	65.0	72.2	62.2	61.5	34.9
992 Average	67.7	99.1	60.5	63.2	57.9	59.1	32.8
993 Average	62.6	96.5	57.7	60.4	54.4	57.0	35.1
994 Average	59.9	93.3	53.4	61.8	50.6	52.9	32.4
995 Average	62.6	97.5	53.9	58.0	51.1	53.8	34.4
996 Average	71.3	105.5	64.6	71.4	63.9	65.9	46.1
997 Average	70.0	106.5	61.3	65.3	59.0	60.6	41.6
998 Average	52.6	91.2	45.0	46.5	42.2	44.4	28.8
999 Average	64.5	100.7	53.3	55.0	49.3	54.6	34.2
000 Average	96.3	133.0	88.0	96.9	88.6	89.8	59.5
001 Average	88.6	125.6	76.3	82.1	75.6	78.4	54.0
002 January	61.2	97.5	57.2	61.9	57.6	54.6	37.4
February	62.8	99.8	57.1	61.1	57.8	56.7	36.4
March	78.4	105.1	63.9	69.8	64.5	66.6	39.7
April	87.1	118.9	69.1	70.5	68.3	70.9	41.6
May	85.9	114.4	69.6	71.1	68.4	70.6	40.8
June	85.6	116.7	67.8	69.4	66.0	68.2	37.9
July	87.8	118.9	71.4	73.2	68.9	71.0	37.5
August	87.4	115.5	73.8	76.4	71.3	75.7	41.5
September	88.9	119.2	81.5	85.5	78.3	83.4	47.1
October	93.0	123.7	84.5	88.5	79.6	85.7	48.9
November	85.0	116.1	75.1	81.3	74.8	78.7	49.4
December	85.9	113.2	79.9	87.9	80.8	82.0	53.3
Average	82.8	114.6	71.6	75.2	69.4	72.4	43.1
003 January	94.7	122.4	89.8	98.8	90.0	89.2	60.5
February	110.0	130.1	103.1	118.4	108.6	107.8	72.7
March	112.9	135.0	102.4	116.6	105.3	102.5	69.2
April	99.7	125.8	82.3	86.1	83.0	86.4	53.8
May	93.6	122.6	75.1	75.4	75.8	79.2	54.3
June	95.6	NA	76.9	77.4	76.9	81.0	57.1
July	98.2	129.5	81.3	82.8	78.9	83.7	55.9
August	110.2	139.7	86.2	88.2	83.6	88.8	58.6
September	102.5	134.9	80.8	82.7	77.3	80.7	56.7
October	98.2	131.3	83.7	91.6	84.2	87.0	59.7
November	94.3	124.4	86.5	89.5	84.2	86.5	58.7
December	93.9	124.4	90.7	97.0	88.6	89.2	64.8
Average	100.2	128.8	87.1	95.5	88.1	88.3	60.7
004 January	105.0	135.3	99.7	110.9	97.0	96.2	71.7
February	112.7	143.6	100.0	114.6	93.0	96.8	70.1
March	119.9	148.9	101.4	104.3	93.6	101.0	61.9
April	125.4	155.7	103.3	104.3	95.5	107.6	60.4
May	143.5	172.8	115.1	119.4	102.9	112.4	65.6
June	133.5	174.0	108.5	108.0	101.9	107.2	66.1
July	134.1	170.6	115.6	118.8	109.4	115.6	72.1
		169.1		127.8			

^a See Note 5 at end of section.

NA=Not available.

Notes: • Sales for resale are those made to purchasers other than ultimate consumers. Sales to end users are shown in Table 9.7; they are sales made 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 Energy Information Administration (EIA) estimates. See Note 6 at end of section. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.

Source: EIA, *Petroleum Marketing Monthly*, November 2004, Table 4.

Table 9.7 Refiner Prices of Petroleum Products to End Users

	Finished Motor	Finished Aviation	Kerosene- Type	Varanana	No. 2 Fuel Oil	No. 2 Diesel	Propane (Consume
	Gasolinea	Gasoline	Jet Fuel	Kerosene	Oii	Fuel	Grade)
978 Average	48.4	51.6	38.7	42.1	40.0	37.7	33.5
979 Average	71.3	68.9	54.7	58.5	51.6	58.5	35.7
980 Average	103.5	108.4	86.8	90.2	78.8	81.8	48.2
	114.7	130.3	102.4	112.3	91.4	99.5	56.5
981 Average							
982 Average	106.0	131.2	96.3	108.9	90.5	94.2	59.2
983 Average	95.4	125.5	87.8	96.1	91.6	82.6	70.9
984 Average	90.7	123.4	84.2	103.6	91.6	82.3	73.7
985 Average	91.2	120.1	79.6	103.0	84.9	78.9	71.7
986 Average	62.4	101.1	52.9	79.0	56.0	47.8	74.5
987 Average	66.9	90.7	54.3	77.0	58.1	55.1	70.1
	67.3	89.1	51.3	73.8	54.4	50.0	71.4
988 Average							
989 Average	75.6	99.5	59.2	70.9	58.7	58.5	61.5
990 Average	88.3	112.0	76.6	92.3	73.4	72.5	74.5
991 Average	79.7	104.7	65.2	83.8	66.5	64.8	73.0
992 Average	78.7	102.7	61.0	78.8	62.7	61.9	64.3
993 Average	75.9	99.0	58.0	75.4	60.2	60.2	67.3
994 Average	73.8	95.7	53.4	66.0	57.2	55.4	53.0
995 Average	76.5	100.5	54.0	58.9	56.2	56.0	49.2
996 Average	84.7	111.6	65.1	74.0	67.3	68.1	60.5
997 Average	83.9	112.8	61.3	74.5	63.6	64.2	55.2
998 Average	67.3	97.5	45.2	50.1	48.2	49.4	40.5
999 Average	78.1	105.9	54.3	60.5	55.8	58.4	45.8
000 Average	110.6	130.6	89.9	112.3	92.7	93.5	60.3
	103.2	132.3	77.5	104.5	82.9	84.2	50.6
001 Average	103.2	132.3	11.5	104.5	02.9	04.2	50.0
002 January	70.6	111.8	58.2	98.0	63.6	60.5	38.1
February	71.8	110.6	58.5	99.6	62.3	61.6	35.0
March	87.2	122.6	64.4	101.3	70.1	70.2	39.5
April	100.4	129.8	70.1	87.3	72.0	75.3	41.7
	99.9	128.9	70.9	91.5	70.9	75.5	40.5
May							
June	99.1	127.3	68.8	83.6	67.8	73.7	37.9
July	100.3	139.2	72.2	80.7	70.9	75.6	38.4
August	100.1	136.9	75.3	79.8	73.4	79.5	41.5
September	100.1	139.1	82.8	99.1	81.8	86.7	46.9
October	104.0	143.0	84.7	111.1	81.8	89.1	47.1
November	101.2	141.8	76.7	104.4	80.0	84.0	46.9
					87.5	85.9	49.9
December Average	98.1 94.7	139.8 128.8	81.1 72.1	115.2 99.0	73.7	76.2	49.9 41.9
Average	94.7	120.0	72.1	99.0	73.7	70.2	41.9
003 January	106.0	139.7	91.4	121.0	98.3	93.2	57.3
February	122.1	W	101.8	137.2	114.5	110.3	69.5
March	130.1	W	104.3	138.6	112.9	111.3	68.0
April	120.0	W	82.1	127.7	91.2	94.2	52.7
May	110.0	139.8	75.9	NA	81.1	85.5	53.9
June	109.4	145.7	76.6	90.8	81.6	86.4	56.0
July	110.6	151.9	81.7	89.8	82.8	88.4	54.3
August	123.1	162.2	87.2	100.7	86.9	94.2	55.3
September	126.5	158.9	81.7	NA	81.4	88.9	53.8
October	115.0	150.8	84.5	117.2	88.2	91.9	55.8
November	109.5	W	87.8	120.9	89.1	91.7	55.9
December	106.5	146.6	92.9	NA	94.5	93.8	61.3
Average	115.6	149.3	87.2	122.4	93.3	94.4	57.7
04 January	117.3	W	99.8	132.5	102.5	99.9	NA
February	125.6	W	101.3	93.9	99.4	103.3	87.7
March	133.8	W	102.7	NA	101.1	107.3	NA
April	139.6	177.4	106.6	139.8	101.9	114.6	67.4
May	157.1	194.9	117.0	111.7	107.2	120.0	74.8
June	154.7	193.2	110.3	105.2	104.9	113.9	71.5
		187.0		W	R 113.2	120.1	
July	148.6	187 0	116.9	VV	"113 <i>2</i>	120.1	77.6

^a See Note 5 at end of section.

ultimate consumers. • Values for the current month are preliminary. • Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section. • Geographic coverage is the 50 States and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.

Source: EIA, *Petroleum Marketing Monthly*, November 2004, Table 2.

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

Table 9.8a No. 2 Distillate Prices to Residences: Northeastern States

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvani
978 Average	48.6	50.3	50.8	48.8	50.7	50.1	50.1	49.6	48.8
979 Average	68.8	72.5	72.5	70.9	72.8	72.0	71.2	71.0	69.8
980 Average	96.3	100.4	101.5	97.8	101.1	98.3	98.2	97.9	96.4
981 Average	120.4	123.7	125.4	121.3	123.8	121.7	123.2	121.5	118.1
982 Average	115.5	117.4	120.1	117.6	120.1	118.3	120.5	117.4	113.7
983 Average	102.8	104.1	112.9	109.1	110.5	109.1	112.1	107.9	105.8
984 Average	103.9	108.4	111.9	111.6	111.4	112.1	115.5	111.0	107.9
985 Average	99.7	102.4	107.7	107.0	106.7	108.0	111.3	105.9	102.3
986 Average	74.4	75.9	86.6	82.1	82.8	89.0	91.1	90.2	81.4
987 Average	74.7	76.5	81.1	80.6	82.5	83.4	85.2	84.3	76.9
988 Average	77.7	78.2	82.6	82.1	83.6	85.3	86.3	84.8	77.8
989 Average	89.4	89.3	90.5	92.6	93.9	92.9	95.8	91.8	85.1
990 Average	98.9	102.8	107.0	108.4	108.6	109.8	112.5	108.7	102.6
991 Average	96.0	91.6	101.9	103.0	99.9	106.2	111.3	104.0	99.7
992 Average	87.1	85.6	92.1	92.5	91.2	94.7	102.8	93.9	89.0
993 Average	82.6	82.8	90.4	89.7	89.3	91.9	100.1	92.4	86.3
994 Average	81.8	79.2	87.6	87.0	88.5	89.0	96.6	89.5	85.7
995 Average	78.7	77.9	85.3	84.4	87.4	86.4	95.5	88.8	82.6
996 Average	97.2	94.0	96.9	97.6	98.6	98.6	106.3	102.4	95.3
997 Average	94.2	94.2	98.7	96.0	98.9	96.3	106.5	103.3	95.0
	78.8	78.8	87.3	81.8	86.8	83.1	94.8	89.2	81.4
998 Average									
999 Average	81.3	77.0	85.4	83.6	85.8	85.2	96.9	91.3	81.5
000 Average	129.7	128.1	125.5	127.3	125.9	129.1	144.2	140.4	122.4
001 Average	121.7	125.6	126.1	122.1	123.6	123.9	136.3	131.4	115.9
02 January	109.5	113.2	117.9	107.4	112.1	108.3	121.5	113.8	102.9
February	108.6	114.1	117.6	106.9	110.9	106.6	119.9	113.4	100.2
March	112.2	110.1	116.2	111.2	107.7	109.1	119.0	117.0	104.6
April	111.4	109.7	117.7	114.0	112.0	109.6	120.0	121.0	106.6
May	111.5	108.4	118.1	113.6	109.8	108.9	117.6	119.6	104.3
	110.1	104.6	114.0	110.9	106.1	110.6	115.9	116.7	102.8
June									
July	109.5	101.4	111.5	111.3	105.6	106.4	114.2	113.4	95.2
August	107.7	102.2	112.1	112.5	107.7	107.3	NA	114.7	96.1
September	111.2	106.0	114.3	113.7	110.6	110.7	116.6	120.7	101.4
October	116.7	111.4	117.6	116.2	110.5	112.0	120.1	123.6	106.6
November	115.4	113.4	117.9	118.5	114.4	115.5	125.1	127.5	111.3
December	119.4	118.1	120.5	125.0	120.8	121.5	130.1	135.4	117.5
Average	112.9	111.9	117.2	114.1	112.4	111.8	121.8	122.0	106.4
M3 January	128.0	127.2	126.4	135.0	132.3	130.9	139.2	145.8	127.4
03 January									
February	142.5	145.0	138.9	152.4	151.8	149.6	156.1	166.6	147.7
March	147.0	148.4	144.0	153.9	151.4	152.2	160.0	170.5	153.7
April	130.1	132.6	131.9	136.0	131.5	133.5	141.6	146.1	132.8
May	125.2	126.4	125.8	132.7	123.9	127.8	137.8	135.9	124.0
June	124.5	121.4	122.3	129.5	119.9	124.6	130.0	133.9	NA
July	121.3	118.7	120.3	127.1	117.3	120.6	128.4	128.5	105.6
August	120.6	119.1	121.0	127.4	NA	120.8	124.9	NA	108.8
September	121.5	119.4	121.3	125.9	120.6	122.6	128.9	126.1	110.7
	121.3								
October		120.4	126.0	126.0	121.1	124.4	131.8	133.3	116.3
November	124.3	121.8	126.9	129.8	127.3	129.8	137.5	136.5	121.4
December	129.4	126.1	129.0	134.9	133.1	133.6	142.4	144.7	128.4
Average	131.4	131.2	130.9	138.6	134.4	135.5	143.6	148.9	130.4
04 January	135.4	136.4	135.6	143.1	143.4	140.8	148.9	152.1	138.0
February	138.3	139.8	137.3	144.3	141.7	139.8	150.9	155.5	138.6
March	137.0	135.2	137.9	142.9	137.0	138.7	147.2	153.9	136.9
	137.0	133.6	137.9	142.9	137.4	137.7	146.8	151.1	135.6
April									
May	138.6	133.7	138.8	145.1	141.1	139.7	148.4	152.3	136.1
June	141.6	135.8	144.0	144.6	137.8	143.3	_ 148.5	_ 151.9	134.8
July	^R 145.1	138.8	150.6	^R 149.4	^R 140.1	^R 146.9	^R 151.8	^R 151.8	^R 133.2
August	153.5	146.2	155.1	156.6	148.4	151.6	155.5	158.6	141.6

R=Revised. NA=Not available.

Notes: • States are grouped in Tables 9.8a, 9.8b, and 9.8c by geographic region of the country. • Values for the current month are preliminary.
• Prices prior to 1983 are Energy Information Administration (EIA) estimates.

See Note 6 at end of section.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.

Source: EIA, *Petroleum Marketing Monthly*, November 2004, Table 18.

Table 9.8b No. 2 Distillate Prices to Residences: Selected South Atlantic and Midwestern States

		District									
	Delaware	of Columbia	Maryland	Virginia	West Virginia	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesota
				- · · · g · · · · · ·			9				
978 Average	47.8	50.7	49.2	49.1	46.2	47.4	47.9	48.5	46.5	44.7	47.8
979 Average	68.2	74.2	70.1	70.4	65.1	68.6	70.9	72.7	68.8	67.3	72.4
980 Average	95.4	102.6	97.9	98.5	92.2	91.9	97.8	99.6	95.8	91.5	99.9
981 Average	117.3	127.4	121.4	120.5	115.0	113.2	118.3	118.5	114.9	109.1	118.4
982 Average	111.3	124.5	117.1	117.7	109.3	110.2	113.9	114.3	110.9	107.8	115.1
983 Average	106.0	117.0	110.3	108.7	101.0	101.3	106.4	100.7	100.4	101.2	103.1
984 Average	109.6	118.7	113.5	110.5	102.1	102.1	105.0	103.1	100.1	101.0	104.1
985 Average	104.6	114.3	108.8	106.3	98.0	99.7	102.1	99.1	97.5	98.3	101.9
986 Average	85.0	93.1	91.4	86.6	74.6	77.7	81.0	74.8	NA	75.6	79.2
987 Average	79.3	91.8	86.6	79.5	76.4	74.7	77.5	75.4	79.8	75.1	74.6
988 Average	80.1	91.6	87.0	80.5	74.2	74.7	77.5	75.4	77.6	73.9	73.5
989 Average	88.2	98.6	93.8	87.0	83.0	81.6	85.3	83.2	80.9	81.1	82.4
990 Average	105.8	107.8	111.9	110.6	99.1	98.1	100.9	99.3	96.1	94.2	101.4
991 Average	99.7	112.2	108.4	101.1	93.4	91.0	94.2	91.8	92.7	89.5	91.1
992 Average	92.3	105.7	100.0	92.8	86.4	83.6	87.2	81.2	87.7	81.6	82.6
993 Average	89.9 89.4	104.5	98.1	89.3	85.6 80.9	84.0	87.2	81.0	84.4	82.3	83.2 80.6
994 Average	89.4 87.0	100.0 101.0	95.0 93.6	85.3 84.4	80.9 81.5	81.2 80.8	86.3 86.0	81.2 81.6	78.4 78.5	81.1 81.2	80.6 80.1
995 Average 996 Average	98.4	117.8	106.3	95.2	96.0	92.1	97.7	91.2	76.5 89.3	89.9	90.9
	98.4	117.6	105.7	94.8	96.2	91.3	94.2	86.5	87.0	93.3	89.9
997 Average 998 Average	85.8	102.2	90.2	85.6	81.8	76.7	80.4	74.8	73.5	80.1	73.8
999 Average	88.4	101.1	90.7	87.0	78.9	82.0	88.3	79.3	71.6	84.7	77.4
000 Average	127.0	w	135.1	126.9	125.1	122.0	NA	120.7	109.5	117.1	115.6
001 Average	123.4	143.1	134.2	120.2	113.9	116.0	NA	113.3	112.1	118.0	112.2
002 January	114.2	W	115.8	101.7	96.7	94.2	102.2	91.7	87.0	97.0	91.2
February	111.0	W	115.1	99.9	95.7	94.3	101.8	95.7	84.4	95.9	91.6
March	113.0	W	117.6	102.2	99.5	101.4	103.6	93.9	85.0	100.3	94.0
April	116.2	129.2	118.9	100.7	101.5	103.1	108.3	94.9	84.7	105.3	102.0
May	106.1	NA	114.2	97.2	102.3	100.6	106.4	W	83.7	106.4	102.6
June	100.5	111.5	111.5	97.1	101.6	96.9	107.0	W	NA	101.7	101.7
July	98.2	W	109.4	98.0	101.5	95.3	106.8	W	96.6	102.0	101.9
August	99.5	W	110.9	100.2	102.4	100.5	107.4	W	NA	103.3	105.2
September	111.2	W	116.4	103.1	107.1	107.1	113.1	W	101.2	112.3	111.1
October	114.8	129.2	120.1	108.7	111.1	114.5	120.9	W	105.6	118.0	116.6
November	119.8	W	124.7	111.1	113.7	115.8	122.2	114.0	111.9	120.2	114.9
December	129.1	W	131.3	120.2	121.1	119.5	124.7	121.0	111.0	121.5	117.0
Average	116.4	W	120.1	105.7	105.4	105.8	110.9	102.5	97.5	107.3	105.1
003 January	138.4	W	141.4	130.9	131.7	129.4	130.5	130.3	116.6	127.1	120.5
February	161.4	W	158.2	147.2	155.5	144.8	148.5	146.7	130.5	138.5	135.3
March	168.5	W	165.5	143.4	155.9	141.3	148.8	142.4	131.8	140.2	133.7
April	142.2	NA	145.2	127.7	130.9	126.0	130.5	W	112.5	125.4	119.6
May	130.0	NA 107.0	135.7	119.3	116.5	115.4	120.9	W	108.1	117.9	113.4
June	125.5	127.6	128.4	120.3	113.2	113.4	114.0	W	106.1	113.6	114.6
July	119.7	W	124.4	118.5	109.5	111.5	113.5		NA 114.0	112.1	113.8
August	117.2	W 129.6	125.6	120.4	113.8	113.9	119.6	106.0	114.9	114.1	115.4
September	121.7 125.6	128.6 W	126.9	121.1 122.7	112.3	114.1	119.8	W	114.0	117.5	113.3
October November	125.6	W	133.8 136.5	122.7	117.2 119.3	120.5 122.3	122.1 125.9	vv 112.8	116.5 117.7	121.9 122.7	119.6 118.3
	130.0	W	143.0	123.6	128.9	125.3		123.0	117.7	123.8	110.3
December Average	143.3	w	145.5	131.1	120.9 130.4	125.3 128.4	126.5 132.1	123.0 120.2	119.9 119.8	123.6 126.9	121.8
004 January	147.3	NA	152.2	135.6	137.6	132.4	133.2	130.1	125.4	132.6	125.4
February	150.6	W	155.9	134.7	140.4	134.9	137.8	133.3	126.6	132.0	126.5
March	148.6	w	153.6	134.2	137.2	137.6	140.4	134.0	132.6	132.3	127.9
April	148.6	Ŵ	153.1	130.0	136.3	140.3	139.8	W	134.2	134.1	133.0
May	146.7	160.4	150.1	NA	140.3	137.7	141.0	W	136.2	NA	134.9
June	140.2	154.7	145.9	125.8	NA	134.9	138.1	W	134.5	136.2	135.1
		RW	R 150.3	R 134.3	R 137.2	R 141.4	143.2	W	R 139.8	R 141.8	139.4
July	140.8	VV		134.3	131.2	141.4		V V		141.0	133.4

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

individual company data.

Notes: • States are grouped in Tables 9.8a, 9.8b, and 9.8c by geographic region of the country.

• Values for the current month are preliminary.

Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section.
 Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.
 Source: EIA, Petroleum Marketing Monthly, November 2004, Table 18.

Table 9.8c No. 2 Distillate Prices to Residences: Selected Western States and U.S. Average

	Idaho	Washington	Oregon	Alaska	U.S. Average
978 Average	43.6	48.6	45.8	53.2	49.0
979 Average	62.1	69.7	68.0	68.2	70.4
980 Average	91.6	100.8	97.3	97.8	97.4
981 Average	110.4	116.5	111.4	118.0	119.4
982 Average	110.4	117.6	111.6	117.4	116.0
983 Average	101.8	109.0	103.6	108.8	107.8
	98.5	102.6	99.3	106.9	107.8
984 Average					
985 Average	97.2	101.1	97.1	108.3	105.3
986 Average	73.8	77.5	70.4	94.9	83.6
987 Average	68.8	79.5	72.5	86.5	80.3
988 Average	68.8	78.5	70.9	86.9	81.3
989 Average	77.8	87.4	80.2	96.4	90.0
990 Average	97.4	102.9	97.0	110.1	106.3
991 Average	95.1	101.6	93.3	105.0	101.9
992 Average	85.7	94.0	87.6	94.1	93.4
993 Average	86.2	99.9	91.8	96.1	91.1
	78.9	95.0	88.7	96.1 86.5	88.4
994 Average					
995 Average	83.9	96.2	89.4	83.4	86.7
996 Average	93.3	108.0	98.9	90.9	98.9
997 Average	95.3	113.9	103.1	97.3	98.4
998 Average	78.4	97.8	86.1	85.2	85.2
999 Average	76.2	106.5	93.8	96.6	87.6
000 Average	117.0	144.5	136.8	133.7	131.1
001 Average	103.8	133.6	121.1	137.7	125.0
002 January	74.7	108.9	93.7	114.0	109.7
February	74.5	108.2	94.4	114.5	108.4
,					
March	82.2	117.0	104.3	110.4	110.0
April	92.6	124.1	108.0	111.8	111.6
May	90.0	124.9	107.5	104.6	109.3
June	89.0	122.4	103.9	106.0	105.7
July	88.0	117.7	NA	102.7	102.9
August	89.9	117.0	107.6	105.8	103.8
September	96.6	124.2	115.5	110.0	109.9
October	103.4	128.5	118.5	110.5	114.8
November	103.5	131.2	119.3	113.0	118.0
	103.0	131.2	118.0	113.9	123.8
December Average	91.9	131.2 120.4	106.0	108.7	112.9
_					
003 January	107.6	137.9	124.4	115.7	133.2
February	120.5	155.4	144.6	121.1	150.8
March	133.9	179.5	158.6	137.4	153.9
April	121.1	154.8	130.6	129.9	134.6
May	111.4	143.0	120.6	122.2	126.7
June	NA	143.3	125.3	122.6	121.7
July	107.4	141.0	131.1	NA	116.4
August	114.3	145.4	130.3	127.2	117.6
	114.3		119.1	NA	118.8
September		137.0			
October	NA	135.1	116.8	NA	123.6
November	122.4	141.8	123.5	126.6	128.3
December	120.7	146.2	125.6	127.3	134.1
Average	118.8	148.7	130.3	124.3	135.5
004 January	122.6	147.7	129.0	129.1	141.7
February	124.1	157.7	140.3	130.8	143.2
March	134.2	166.4	144.6	136.8	141.3
	144.3				141.1
April		178.7	159.3	143.5	
May	162.5	191.5	177.0	155.3	142.0
June	ຼ 148.9	185.5	163.5	159.2	140.8
July	^R 142.7	182.2	171.8	165.4	^R 142.9
			165.0		

R=Revised. NA=Not available.

Notes: • States are grouped in Tables 9.8a, 9.8b, and 9.8c by geographic region of the country. • Values for the current month are preliminary.
• Prices prior to 1983 are Energy Information Administration (EIA) estimates.

See Note 6 at end of section.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.

Source: EIA, *Petroleum Marketing Monthly*, November 2004, Table 18.

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

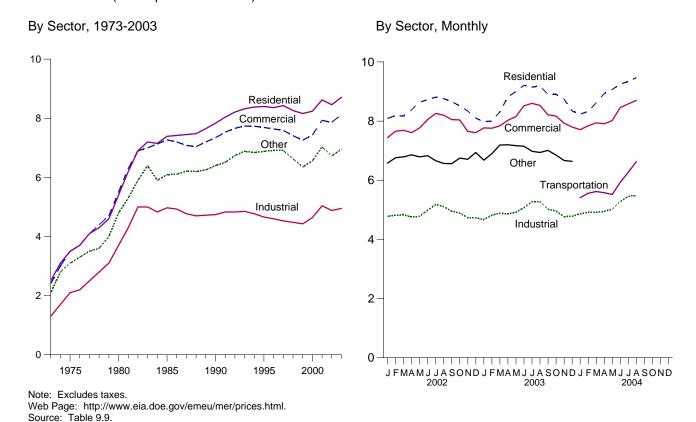
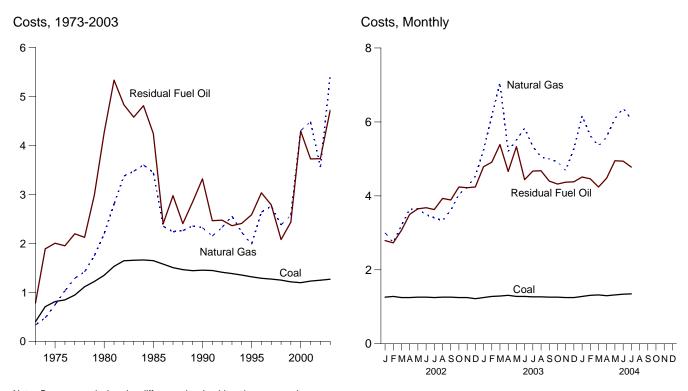


Figure 9.3 Cost of Fossil-Fuel Receipts at Electric Generating Plants (Dollars per Million Btu)



Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.

Source: Table 9.10.

Table 9.9 Average Retail Prices of Electricity

(Cents per Kilowatthour, Excluding Taxes)

	Residential	Commerciala	Industrial ^b	Transportation ^c	Otherd	Total
1973 Average	2.5	2.4	1.3	NA	2.1	2.0
1974 Average	3.1	3.0	1.7	NA	2.8	2.5
1975 Average	3.5	3.5	2.1	NA	3.1	2.9
1976 Average	3.7	3.7	2.2	NA	3.3	3.1
1977 Average	4.1	4.1	2.5	NA	3.5	3.4
1978 Average	4.3	4.4	2.8	NA NA	3.6	3.7
1979 Average	4.6	4.7	3.1	NA	4.0	4.0
1980 Average	5.4	5.5	3.7	NA	4.8	4.7
1981 Average	6.2	6.3	4.3 5.0	NA NA	5.3 5.9	5.5 6.1
1982 Average	6.9 7.2	6.9 7.0	5.0 5.0	NA NA	5.9 6.4	6.3
1983 Average	7.2 7.15	7.0 7.13	4.83	NA NA	5.90	6.25
1984 Average 1985 Average	7.13	7.13	4.97	NA NA	6.09	6.44
1986 Average	7.42	7.20	4.93	NA NA	6.11	6.44
1987 Average	7.45	7.08	4.77	NA	6.21	6.37
1988 Average	7.48	7.04	4.70	NA	6.20	6.35
1989 Average	7.65	7.20	4.72	NA	6.25	6.45
1990 Average	7.83	7.34	4.74	NA	6.40	6.57
1991 Average	8.04	7.53	4.83	NA	6.51	6.75
1992 Average	8.21	7.66	4.83	NA	6.74	6.82
1993 Average	8.32	7.74	4.85	NA	6.88	6.93
1994 Average	8.38	7.73	4.77	NA	6.84	6.91
1995 Average	8.40	7.69	4.66	NA	6.88	6.89
1996 Average	8.36	7.64	4.60	NA	6.91	6.86
1997 Average	8.43	7.59	4.53	NA	6.91	6.85
1998 Average	8.26	7.41	4.48	NA	6.63	6.74
1999 Average	8.16	7.26	4.43	NA	6.35	6.64
2000 Average	8.24	7.43	4.64	NA	6.56	6.81
2001 Average	8.62	7.93	5.04	NA	7.03	7.32
2002 January	8.09	7.44	4.78	NA	6.58	6.98
February	8.19	7.66	4.82	NA	6.76	7.01
March	8.17	7.69	4.83	NA	6.79	7.00
April	8.38	7.61	4.76	NA	6.86	6.97
May	8.64	7.77	4.78	NA	6.79	7.11
June	8.72	8.05	4.99	NA	6.83	7.41
July	8.81	8.26	5.18	NA	6.66	7.65
August	8.76	8.20	5.11	NA	6.57	7.58
September	8.66	8.05	4.95	NA	6.56	7.38
October	8.51	8.04	4.89	NA	6.75	7.22
November	8.34	7.65	4.73	NA NA	6.71	6.97
December	8.10	7.61 7.86	4.73 4.88	NA NA	6.94	6.99 7.21
Average	8.46	7.00	4.00	INA	6.73	7.21
2003 January	7.98	7.77	4.67	NA	6.68	7.02
February	8.00	7.76	4.82	NA	6.90	7.02
March	8.31	7.84	4.89	NA	7.19	7.14
April	8.82	8.03	4.86	NA	7.20	7.27
May	9.00	8.15	4.92	NA	7.17	7.40
June	9.21	8.52	5.07	NA	7.15	7.71
July	9.15	8.60	5.28	NA NA	6.98	7.91
August	9.19	8.53	5.27	NA NA	6.94	7.89
September	8.90	8.21	5.02	NA NA	7.01	7.55
October	8.90	8.17	4.96	NA NA	6.85	7.38
November	8.74	7.93	4.77	NA NA	6.67	7.18
December	8.34 9.71	7.80	4.78 4.05	NA NA	6.64	7.15 7.40
Average	8.71	8.13	4.95	NA	6.95	7.40
2004 January	8.24	7.71	4.87	5.41	_	7.18
February	8.32	7.84	4.91	5.56	-	7.21
March	8.62	7.94	4.91	5.62	_	7.27
April	8.93	7.91	4.95	5.58	-	7.29
May	9.07	8.02	5.02	5.52	_	7.41
June	9.25	8.46	5.28	5.93	_	7.84
July	9.34	8.58	5.46	6.27	_	8.05
August	9.47	8.70 9.17	5.48 5.43	6.63	_	8.12 7.57
8-Month Average	8.91	8.17	5.12	5.83	-	7.57
2003 8-Month Average 2002 8-Month Average	8.71 8.49	8.18 7.86	4.98 4.91	NA NA	7.02 6.73	7.44 7.24

^a Commercial sector. For 1973-2003, prices exclude public street and highway lighting, interdepartmental sales, and other sales to public authorities.

b Industrial sector. For 1973-2003, prices exclude agriculture and irrigation.

Web Page: http://www.eia.doe.gov/emeu/mer/prices.html.

Transportation sector, including railroads and railways.

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

nailroads and railways.

NA=Not available. —=Not applicable.

Notes: • Beginning in 2004, 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. See Note 7 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: http://www.eia.doe.gov/emeu/mer/prices.html.
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: Energy Information Administration
(EIA), Form EIA-826, "Electric Utility Company Monthly Statement."
• 1984-1989: EIA, Form EIA-861, "Annual Electric Utility Report." • 1990
forward: EIA, Electric Power Monthly, November 2004, Table 5.3.

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

(Dollars per Million Btu)

			Petroleu	m			
	Coal	Residual Fuel Oila	Distillate Fuel Oilb	Petroleum Coke	Total ^c	Natural Gas ^d	All Fossil Fuels
973 Average	0.41	0.79	NA	NA	0.80	0.34	0.48
974 Average	.71	1.89	NA	NA	1.91	.48	.91
975 Average	.81	2.01	NA	NA	2.02	.75	1.04
976 Average	.85	1.95	NA	NA	1.99	1.03	1.12
977 Average	.95	2.20	NA	NA	2.25	1.29	1.30
978 Average	1.12	2.13	NA	NA	2.19	1.42	1.41
979 Average	1.22	2.99	NA	NA	3.07	1.75	1.64
980 Average	1.35	4.27	NA	NA	4.35	2.20	1.93
981 Average	1.53	5.33	NA	NA	5.43	2.81	2.26
982 Average	1.65	4.83	NA	NA	4.92	3.38	2.25
983 Average	1.66	4.58	NA	NA	4.63	3.47	2.21
984 Average	1.66	4.81	NA	NA	4.86	3.60	2.19
185 Average	1.65	4.24	NA	NA	4.32	3.44	2.09
986 Average	1.58	2.40	NA	NA	2.44	2.35	1.75
187 Average	1.51	2.98	NA	NA	3.01	2.24	1.71
988 Average	1.47	2.41	NA	NA	2.44	2.26	1.64
189 Average	1.45	2.85	NA	NA	2.89	2.36	1.68
90 Average	1.45	3.32	5.38	.80	3.35	2.32	1.69
91 Average	1.45	2.47	4.83	.81	2.53	2.15	1.60
92 Average	1.41	2.48	4.51	.75	2.51	2.33	1.59
93 Average	1.39	2.36	4.22	.70	2.37	2.56	1.59
94 Average	1.36	2.41	3.99	.69	2.42	2.23	1.52
95 Average	1.32	2.59	3.99	.65	2.57	1.98	1.45
96 Average	1.29	3.03	4.87	.78	3.03	2.64	1.52
97 Average	1.27	2.79	4.49	.91	2.73	2.76	1.52
98 Average	1.25	2.08	3.30	.71	2.02	2.38	1.44
99 Average	1.22	2.44	4.03	.65	2.36	2.57	1.44
000 Average	1.20	4.29	6.65	.58	4.18	4.30	1.74
001 Average	1.23	3.73	6.30	.78	3.69	4.49	1.73
February March April May June July August September October November December Average	1.28 1.25 1.26 1.26 1.25 1.26 1.25 1.26 1.25 1.25 1.25	2.73 3.07 3.50 3.65 3.68 3.63 3.93 3.89 4.24 4.22 4.24 3.73	4.15 4.46 5.15 5.24 4.87 5.19 5.30 6.05 6.19 5.78 6.39 5.34	.94 .82 .75 .75 .76 .71 .72 .91 .70 1.02 .56 .78	2.42 2.68 3.16 3.30 3.34 3.29 3.46 3.38 3.74 3.96 3.88 3.34	2.74 3.20 3.64 3.65 3.49 3.41 3.33 3.61 4.04 4.23 4.53 3.56	1.49 1.51 1.48 1.52 1.51 1.53 1.47 1.53 1.57 1.55 1.55
003 January	1.25	4.79	6.39	.65	4.37	5.24	2.09
February	1.28	4.91	7.77	.63	4.90	6.16	2.36
March	1.29	5.39	8.29	.72	5.39	7.06	2.54
April	1.31	4.66	6.55	.52	4.34	5.21	2.17
May	1.28	5.33	6.06	.65	4.74	5.51	2.27
June	1.28	4.44	5.96	.66	4.27	5.83	2.30
July	1.27	4.67	6.05	.79	4.28	5.34	2.42
August	1.27	4.68	6.43	.69	4.06	5.05	2.33
September	1.26	4.40	6.08	.75	3.75	5.00	2.15
October	1.26	4.32	6.49	.69	3.81	4.92	2.04
November	1.25	4.37	6.32	.70	3.51	4.69	1.95
December	1.25	4.38	6.61	.75	3.90	5.27	2.10
Average	1.27	4.72	6.70	.69	4.31	5.42	2.22
_							
04 January	1.28	4.51	7.27	.74	4.34	6.16	2.32
February	1.31	4.46	7.29	.75	4.32	5.63	2.36
March	1.32	4.24	6.67	.82	3.87	5.35	2.23
April	1.30	4.48	7.34	.75	3.96	5.60	2.32
May	1.32	4.95	7.74	.75	4.26	6.09	2.50
June	1.34	4.94	7.24	.80	4.37	6.37	2.64
July	1.35	4.78	8.11	.84	4.30	6.07	2.77
7-Month Average	1.32	4.63	7.28	.78	4.22	5.93	2.46
03 7-Month Average 02 7-Month Average	1.28 1.26	4.91 3.38	6.83 4.87	.67 .80	4.64 3.03	5.73 3.33	2.30 1.50

a For 1973-2001, electric utility data are for heavy oil (fuel oil nos. 5 and 6, and small amounts of fuel oil no. 4).
 b For 1973-2001, electric utility data are for light oil (fuel oil nos. 1 and 2).

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: http://www.eia.doe.gov/emeu/mer/prices.html. Sources: See end of section.

C 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.

d Natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately. For 1973-2001, data also include a small amount of blast

furnace gas and other gases derived from fossil fuels.

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

Gas."

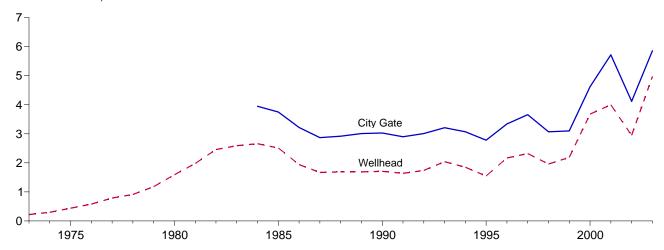
f Through 2001, data are for electric utilities only. Beginning in 2002, data also include independent power producers, and electric generating plants in the commercial and industrial sectors. See Note 8 at end of section for plant coverage.

NA=Not available.

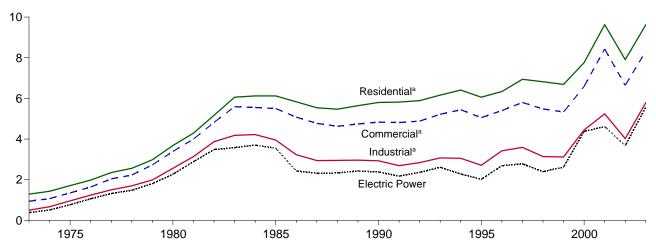
Figure 9.4 Natural Gas Prices

(Dollars per Thousand Cubic Feet)

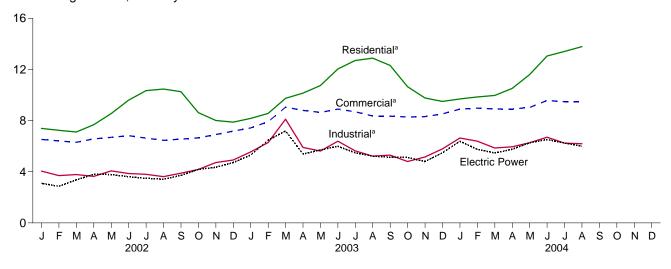
Selected Prices, 1973-2003



Consuming Sectors, 1973-2003



Consuming Sectors, Monthly



^aIncludes taxes. Note: Because vertical scales differ, graphs should not be compared. Web Page: http://www.eia.doe.gov/emeu/mer/prices.html. Source: Table 9.11.

Table 9.11 Natural Gas Prices

(Dollars per Thousand Cubic Feet)

			Consuming Sectors ^a								
		City	Res	idential	Com	mercial ^b	Indu	ustrial ^c	Electri	ic Power ^d	
	Wellhead Price	Gate Price	Pricee	Percentage of Sector ^f	Pricee	Percentage of Sector ^f	Pricee	Percentage of Sector ^f	Price	Percentage of Sector ^f	
973 Average	0.22	NA	1.29	NA	0.94	NA	0.50	NA	0.38	92.1	
974 Average	.30	NA	1.43	NA	1.07	NA	.67	NA	.51	92.7	
975 Average	.44	NA	1.71	NA	1.35	NA	.96	NA	.77	96.1	
976 Average	.58	NA	1.98	NA	1.64	NA	1.24	NA	1.06	96.2	
977 Average	.79	NA	2.35	NA	2.04	NA	1.50	NA	1.32	97.1	
978 Average	.91	NA	2.56	NA	2.23	NA	1.70	NA	1.48	98.0	
979 Average	1.18	NA	2.98	NA	2.73	NA	1.99	NA	1.81	96.1	
980 Average	1.59	NA	3.68	NA	3.39	NA	2.56	NA	2.27	96.9	
981 Average	1.98	NA	4.29	NA	4.00	NA	3.14	NA 05.4	2.89	97.6	
982 Average	2.46 2.59	NA NA	5.17	NA NA	4.82 5.59	NA NA	3.87 4.18	85.1 80.7	3.48 3.58	92.6 93.9	
983 Average 984 Average	2.66	3.95	6.06 6.12	NA NA	5.55	NA NA	4.10	74.7	3.70	93.9 94.4	
985 Average	2.51	3.75	6.12	NA NA	5.50	NA NA	3.95	68.8	3.55	94.0	
986 Average	1.94	3.22	5.83	NA	5.08	NA	3.23	59.8	2.43	91.7	
987 Average	1.67	2.87	5.54	NA	4.77	93.1	2.94	47.4	2.32	91.6	
988 Average	1.69	2.92	5.47	NA	4.63	90.7	2.95	42.6	2.33	89.6	
989 Average	1.69	3.01	5.64	99.9	4.74	89.1	2.96	36.9	2.43	88.6	
90 Average	1.71	3.03	5.80	99.3	4.83	86.6	2.93	35.2	2.38	89.2	
991 Average	1.64	2.90	5.82	99.2	4.81	85.1	2.69	32.7	2.18	93.2	
92 Average	1.74	3.01	5.89	99.1	4.88	83.2	2.84	30.3	2.36	93.2	
93 Average	2.04	3.21	6.16	99.1	5.22	83.9	3.07	29.7	2.61	93.4	
994 Average	1.85	3.07	6.41	99.1	5.44	79.3	3.05	25.5	2.28	93.5	
995 Average	1.55 2.17	2.78 3.34	6.06 6.34	99.1 99.1	5.05 5.40	76.7 77.6	2.71 3.42	24.5 19.4	2.02 2.69	92.0 92.2	
996 Average 997 Average	2.32	3.66	6.94	98.8	5.80	70.8	3.59	18.1	2.78	91.0	
98 Average	1.96	3.07	6.82	97.7	5.48	67.0	3.14	16.1	2.40	82.5	
99 Average	2.19	3.10	6.69	95.2	5.33	66.1	3.12	18.8	2.62	75.3	
000 Average	3.68	4.62	7.76	92.6	6.59	63.9	4.45	19.8	4.38	64.3	
001 Average	4.00	5.72	9.63	92.4	8.43	66.0	5.24	20.8	4.61	41.9	
002 JanuaryFebruary	2.50 2.19	3.79 3.76	7.39 7.24	NA NA	6.53 6.41	80.8 81.2	4.05 3.70	20.1 20.4	^d 3.10 2.86	^d 80.8 87.4	
March	2.40	3.84	7.11	NA	6.30	82.3	3.78	20.4	3.37	86.1	
April	2.94	4.21	7.68	NA	6.57	77.8	3.64	26.1	3.80	84.4	
May	2.94	4.07	8.55	NA	6.69	74.1	4.07	23.8	3.78	81.8	
June	2.96	4.15	9.60	NA	6.82	74.4	3.86	25.4	3.61	78.7	
July	2.92	3.95	10.34	NA	6.63	72.7	3.80	23.8	3.49	74.5	
August	2.76	3.67	10.47	NA	6.46	73.3	3.62	22.4	3.42	78.6	
September	2.97	3.99	10.26	NA	6.55	71.0	3.89	22.4	3.71	79.1	
October	3.24	4.32	8.62	NA	6.65	74.7	4.18	21.6	4.19	81.0	
November	3.59	4.65	8.01	NA	6.91	79.5	4.72	21.7	4.35	84.9	
December Average	3.96 2.95	4.74 4.12	7.88 7.91	NA 91.4	7.18 6.64	80.7 78.4	4.92 4.02	23.0 22.5	4.72 3.68	88.2 81.1	
	E 4.47	R 5.32	R 8.17	NA	R 7.43	79.0	R 5.55	21.0	5.31	83.8	
103 JanuaryFebruary	E 5.45	5.86	R 8.56	NA NA	R 7.43	79.0 79.6	R 6.28	21.8	6.47	83.5	
March	€ 6.69	7.60	R 9.74	NA NA	R 9.05	80.2	R 8.11	21.2	7.19	86.1	
April	E 4.71	5.61	R 10.15	NA	R 8.80	76.9	5.90	21.1	5.38	89.8	
May	E 4.97	5.67	^R 10.74	NA	^R 8.64	73.7	5.62	20.4	5.71	88.5	
June	E 5.35	6.37	R 12.04	NA	R 8.90	72.6	6.39	19.9	5.99	83.0	
July	^E 4.91	5.82	R 12.70	NA	8.69	71.4	5.63	25.6	5.48	79.1	
August	E 4.72	5.50	R 12.88	NA	R 8.36	73.6	5.22	23.6	5.22	78.1	
September	E 4.58	5.58	R 12.31	NA NA	R 8.35	R 72.4	5.30	23.0	5.14	85.7	
October	E 4.43 E 4.34	5.30	R 10.65	NA NA	^R 8.28 ^R 8.31	R 72.1	4.80 R = 16	23.2	5.12	78.5	
November	E 5.08	5.55 5.90	^R 9.77 ^R 9.50	NA NA	^N 8.31 ^R 8.52	77.3 79.9	^R 5.16 ^R 5.79	22.2 23.2	4.80 5.48	83.6 93.1	
December Average	E 4.98	5.86	R 9.62	E 92.1	R 8.32	R 77.3	5.79	23.2 22.2	5.46 5.57	83.6	
04 January	E 5.53	6.39	9.69	NA	R 8.90	80.7	6.64	R 22.2	6.38	92.4	
February	E 5.15	6.34	9.85	NA	R 8.97	80.7	6.39	R 23.1	5.75	89.7	
March	E 4.97	6.24	9.97	NA	R 8.91	R 78.4	5.86 R F 05	R 22.3	5.47	93.4	
April	E 5.20	6.33 ^R 6.48	10.52	NA NA	R 8.90	R 76.5	R 5.95	R 22.9	5.76	95.9	
May	E 5.63 E 5.85	6.48	11.60	NA NA	^R 9.03 9.57	73.2 71.7	6.27 6.70	22.7 24.4	6.27	90.6 89.7	
June July	E 5.60	6.92 R 6.68	13.05 ^R 13.41	NA NA	9.57 R 9.48	71.7 ^R 71.5	6.70	24.4 R 24.6	6.52 R 6.24	89.7 R 87.6	
August	E 5.36	6.45	13.78	NA NA	9.47	70.9	6.19	23.8	NA	NA	
8-Month Average	E 5.41	6.42	10.42	NA NA	9.03	77.6	6.29	23.2	NA	NA NA	
003 8-Month Average 002 8-Month Average	E 5.16 2.70	5.98 3.90	9.46 7.76	NA NA	8.28 6.50	77.5 78.7	6.07 3.81	21.8 22.7	NA NA	NA NA	

a See Note 9 at end of section.
 b Commercial sector, including commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See note at end of Section 7.
 c Industrial sector, including industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See note at end of Section 7.
 d The electric power sector comprises electricity-only and combined-heat-and-power (CHP) plants within the NAICS 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 2001, data are for electric utilities only; beginning in 2002, data also include independent power producers.
 See Note 8 at end of section for plant coverage.
 e Includes taxes.

f The percentage of the sector's consumption in Table 4.4 for which price data are available.

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

Notes: • Prices are for natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately. • Prices are intended to include all taxes. See Note 9 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: http://www.eia.doe.gov/emeu/mer/prices.html.

Sources: See end of section.

Energy Prices

Note 1. 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. 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. 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. Beginning with January 1981, refiner acquisition costs of crude oil are from data collected on 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. 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 were 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. 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 reprinted from the December 1983 [3] *Petroleum Marketing Monthly*, published by EIA.

Note 7. 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. 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 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. Delivered-to-consumers prices for 1987 forward represent natural gas delivered and sold to residential, commercial, industrial, and electric power consumers. They do not include the price of natural gas delivered to industrial and commercial consumers on behalf of third parties. Volumes of natural gas delivered on behalf of third parties are included in the consumption data shown in Table 4.4. 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 (FEA), based on Form FEA-P124, "Domestic Crude Oil Purchaser's Monthly Report."

1978 forward: Energy Information Administration (EIA), *Petroleum Marketing Monthly*, November 2004, Table 1.

F.O.B. and Landed Cost of Imports

December 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 forward: EIA, *Petroleum Marketing Monthly*, November 2004, 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 forward: EIA, *Petroleum Marketing Monthly*, November 2004, 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: Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report."

1978 forward: EIA, *Petroleum Marketing Monthly*, November 2004, Table 24.

Table 9.10 Sources

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

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

1978 and 1979: Energy Information Administration (EIA), Form FERC-423, "Monthly Report on 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 forward: EIA, *Electric Power Monthly*, November 2004, Table 4.1; Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report on Cost and Quality of Fuels for Electric Utility Plants"; and EIA, Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report."

Table 9.11 Sources

Wellhead Price:

1973–1998: Energy Information Administration (EIA), *Natural Gas Annual* 2000, Table 96.

1999 forward: EIA, *Natural Gas Monthly*, October 2004, Table 4.

City Gate Price:

1984-1987: EIA, *Natural Gas Monthly*, March 1990, Table 4; 1988–1992: EIA, *Natural Gas Monthly*, March 1995, Table 4;

1993–1998: EIA, Natural Gas Monthly, December 1999, Table 4.

1999 forward: EIA, *Natural Gas Monthly*, October 2004, Table 4.

Residential, Commercial, and Industrial Sector Prices:

1973–1998: EIA, *Natural Gas Annual 2001*, Table 96. 1999 forward: EIA, *Natural Gas Monthly*, October 2004, Table 4.

Percentage of Residential, Commercial, and Industrial Sectors, Annual

Calculated from EIA, *Natural Gas Annual, Volume 1*, report series, Table 1, "Summary Statistics for Natural Gas in the

United States," as total amount of natural gas delivered to the sector's consumers minus the amount delivered for the account of others (to derive the amount on system) divided by the total amount delivered to the sector.

Percentage of Commercial, and Industrial Sectors, Monthly

EIA, table titled, "Percentage of Total Deliveries Represented by Onsystem Sales, by State," in the *Natural Gas Monthly* issues as follows:

April 1988–March 1989	Table C-1
April 1989–December 1991	Table 33
January 1992–February 1993	Table 32
March 1993–October 1995	Table 28
November 1995–December 1997	Table 24
January 1998–Present	Table 25

Electric Power Sector Price:

1973–1998: EIA, *Natural Gas Annual 2000*, Table 96. 1999–2002: EIA, *Natural Gas Monthly*, October 2004, Table 4.

2003: Federal Energy Regulatory Commission, Form FERC-423, "Monthly Report on Cost and Quality of Fuels for Electric Utility Plants," and EIA, Form EIA-423 "Monthly Cost and Quality of Fuels for Electric Plants Report."

2004: EIA, Natural Gas Monthly, October 2004, Table 4.

Percentage of Electric Power Sector:

1973-2001: Calculated by EIA as the quantity of natural gas receipts reported on FERC Form-423, "Monthly Report on Cost and Quantity of Fuels for Electric Utility Plants" (and predecessor forms) divided by the quantity of natural gas consumed in the electric power sector, as shown on Monthly Energy Review Table 7.3b. Natural gas receipts, 1973 -1975: Federal Power Commission, "Annual Summary of Cost and Quality of Steam-Electric Plant Fuels," 1973 edition (page ii), 1974 edition (page ii), and 1975 edition (Table 3); 1976–1981: EIA, Electric Power Annual, November 1982, Table 68; 1982-1985: EIA, Electric Power Annual 1986, September 1987, Table 16; 1986-1995: EIA, Electric Power Monthly, December 1996, Table 26; 1996-2000: EIA, Electric Power Monthly, March 2002, Table 26; and 2001: EIA, Electric Power Monthly, June 2004, Table 4.1.

2002 forward: Calculated by EIA as the quantity of natural gas receipts reported on FERC Form-423, "Monthly Report on Cost and Quantity of Fuels for Electric Utility Plants" (and published in EIA, *Electric Power Monthly*, November 2004, Table 4.1), and Form EIA-423, "Monthly Cost and Quality of Fuels for Electric Plants Report," divided by the quantity of natural gas consumed in the electric power sector, as shown on *Monthly Energy Review* Table 7.3b.

Section 10. Renewable Energy

Sources. The Nation consumed 6.2 quadrillion Btu of renewable energy in 2003, accounting for 6 percent¹ of total energy consumption during the year. At 2.8 quadrillion Btu, conventional hydroelectric power was the largest component of the renewable energy total, measuring 45 percent of the total. Wood was the next largest component at 2.1 quadrillion Btu and 34 percent of the total. Waste, the third largest component of the renewable energy total, contributed 0.6 quadrillion Btu in 2003, a 9-percent share of the total.

Electric Power Sector. In 2003, the electric power sector consumed 3.6 quadrillion Btu of renewable energy resources, 1.1 quadrillion Btu more than all of the end-use sectors combined and a share of 59 percent of the total. Conventional hydroelectric power recorded 2.7 quadrillion Btu in 2003, for 75 percent of the electric power sector total. Waste, at 0.3 quadrillion Btu, was the second largest

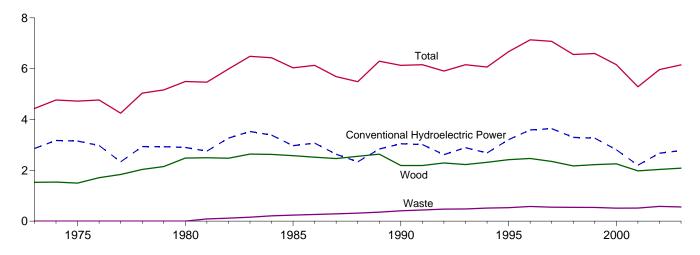
source consumed for electricity generation, followed by geothermal and wood.

End-Use Sectors. Of the end-use sectors, the industrial sector was the largest consumer of renewable energy in 2003. Industrial facilities used 1.8 quadrillion Btu of renewable energy in 2003, 87 percent in the form of wood. The residential sector was the next largest end-use sector in the use of renewable energy, consuming 0.4 quadrillion Btu---83 percent in the form of wood, 13 percent solar, and 4 percent geothermal. The transportation sector consumed renewable energy in the form of alcohol fuels used in the blending of motor gasoline; in 2003, alcohol fuel use was 0.2 quadrillion Btu. The commercial sector used 0.1 quadrillion Btu in 2003, 45 percent of it as waste and 39 percent as wood.

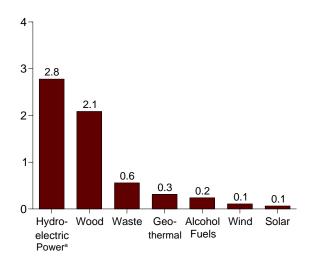
¹A small amount of alcohol fuel (ethanol blended into motor gasoline) is both fossil fuel (as petroleum) and renewable energy and is counted in both those subtotals but counted only once in total energy consumption.

Figure 10.1 Renewable Energy Consumption (Quadrillion Btu)

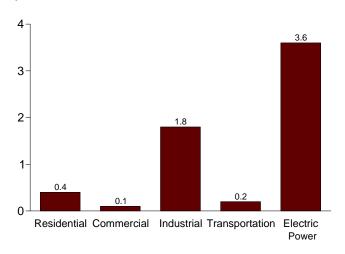
Total and Major Sources, 1973-2003



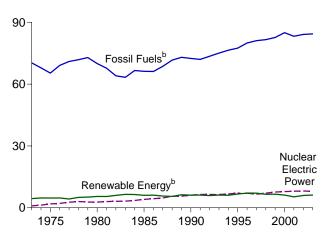
By Source, 2003



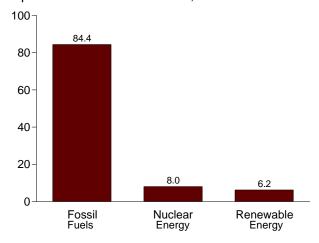
By Sector, 2003



Compared With Other Resources, 1973-2003



Compared With Other Resources, 2003



^aConventional hydroelectric power.

^bA small amount of alcohol (ethanol blended into motor gasoline) is both fossil fuel (as petroleum) and renewable energy and is counted in both

those subtotals but counted only once in total energy consumption. Web Page: http://www.eia.doe.gov/emeu/mer/renew.html. Sources: Tables 1.3 and 10.1-10.2c.

Table 10.1 Renewable Energy Consumption by Source

(Trillion Btu)

	Conventional Hydroelectric Power ^a	Wood b	Waste ^c	Alcohol Fuels ^d	Geothermal ^e	Solar ^f	Wind ⁹	Total
) TO T. () I	0.004	4 507	•		40			4 400
973 Total	2,861	1,527	2	NA	43	NA	NA	4,433
974 Total	3,177	1,538	2	NA	53	NA	NA	4,769
975 Total	3,155	1,497	2	NA	70	NA	NA	4,723
976 Total	2,976	1,711	2	NA	78	NA	NA	4,768
977 Total	2,333	1,837	2	NA	77	NA	NA	4,249
78 Total	2,937	2,036	1	NA	64	NA	NA	5,039
79 Total	2.931	2,150	ż	NA NA	84	NA	NA NA	5,166
79 Total								
80 Total	2,900	2,483	2	N <u>A</u>	110	NA	NA	5,494
81 Total	2,758	2,495	88	7	123	NA	NA	5,471
82 Total	3,266	2,477	119	19	105	NA	NA	5,985
83 Total	3.527	2.639	157	35	129	NA	(s)	6,488
84 Total	3,386	2,629	208	43	165	(s)	(s)	6,431
85 Total	2.970	2,576	236	52	198	(s)	(s)	6,033
					219			
86 Total	3,071	2,518	263	60		(s)	(s)	6,132
87 Total	2,635	2,465	289	69	229	(s)	(s)	5,687
38 Total	2,334	2,552	315	70	217	(s)	(s)	5,489
39 Total	2,837	2,637	354	71	317	ŠŚ	22	6,294
00 Total	3.046	2,191	408	63	336	60	29	6,133
	3,016	2,190	440	73		63	31	
01 Total					346			6,158
2 Total	2,617	2,290	473	83	349	64	30	5,907
93 Total	2,892	2,227	479	97	364	66	31	6,156
4 Total	2,683	2,315	515	109	338	69	36	6,065
5 Total	3,205	2,420	531	117	294	70	33	6,669
6 Total	3,590	2,467	577	84	316	70 71	33	7,137
7 Total	3,640	2,350	551	106	325	70	34	7,075
98 Total	3,297	2,175	542	117	328	70	31	6,561
99 Total	3,268	2,224	540	122	331	69	46	6,599
0 Total	2,811	2,257	511	139	317	66	57	6,158
01 Total	2,201	1,980	514	147	311	65	68	5,286
02 January	221	173	49	13	29	5	8	497
February	204	152	43	12	26	5	7	449
March	213	163	49	12	28	5	9	478
	245	162	46	12	25	5	10	506
April								
May	270	171	48	14	28	6	11	547
June	285	163	49	12	26	6	11	552
July	258	180	52	15	29	6	9	547
August	213	167	51	14	28	6	10	490
September	173	175	48	15	27	5	7	450
October	174	184	48	17	28	5	7	464
November	200	170	48	20	27	5	7	476
December	219	178	50	19	28	5	8	506
Total	2,675	2,036	581	174	328	64	105	5,963
)3 January	199	165	43	17	27	5	6	462
February	198	153	40	20	25	5	7	446
March	246	177	47	17	27	5	10	529
April	253	169	46	20	25	5	11	528
May	302	167	46	19	25	6	9	574
June	288	170	46	19	26	6	10	564
July	249	178	50	20	26	6	9	537
August	231	174	48	21	26	6	8	513
					26			
September	184	165	44	18		5	8	451
October	185	187	49	21	26	5	9	482
November	199	199	48	24	26	5	10	511
December	244	186	51	25	29	5	11	552
Total	2,779	2,087	559	239	314	63	108	6,150
14 January	235	185	48	24	30	5	9	536
February	214	170	43	22	28	5	10	491
March	233	175	46	24	28	5	12	524
April	213	176	46	24	27	5	12	504
May	242	170	50	25	28	6	17	538
June	255	168	48	25	28	6	14	544
July	235	179	48	25	29	6	11	533
August 8-Month Total	219 1,846	180 1,404	48 377	24 193	29 226	6 43	10 95	515 4,185
	•	•						-
3 8-Month Total	1,967	1,351	366	151	207	43	70	4,155

^a Hydroelectricity generated by pumped storage is not included in renewable

energy.

b Wood, black liquor, and other wood waste.

c Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

d Ethanol blended into motor gasoline.
e Geothermal electricity net generation, heat pump, and direct use energy.
f Solar thermal and photovoltaic electricity net generation, and solar thermal

direct use energy.

^g Wind electricity net generation. NA=Not available. (s)=Less than 0.5 trillion Btu.

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: http://www.eia.doe.gov/emeu/mer/renew.html. Sources: Tables 10.2a, 10.2b, and 10.2c.

Table 10.2a Estimated Renewable Energy Consumption: **Residential and Commercial Sectors**

(Trillion Btu)

		Residentia	al Sector			Co	mmercial Sec	tora	
	Woodb	Geothermal ^c	Solard	Total	Hydropowere	Woodb	Waste ^f	Geothermal ^c	Total
73 Total	354	NA	NA	354	NA	7	NA	NA	7
74 Total	371	NA NA	NA NA	371	NA NA	7	NA NA	NA NA	7
75 Total	425	NA NA	NA NA	425	NA NA	8	NA NA	NA NA	8
76 Total	482	NA NA	NA NA	482	NA NA	9	NA NA	NA NA	9
77 Total	542	NA NA	NA NA	542	NA NA	10	NA NA	NA NA	10
	622	NA NA	NA NA	622	NA NA	12	NA NA	NA NA	12
78 Total 79 Total	728	NA NA	NA NA	728	NA NA	14	NA NA	NA NA	14
80 Total	859	NA NA	NA NA	859	NA NA	21	NA NA	NA NA	21
1 Total	869	NA NA	NA NA	869	NA NA	21	NA NA		21
11 Total	937	NA NA	NA NA	937	NA NA	22	NA NA	NA NA	21
2 Total 3 Total	925	NA NA	NA NA	93 <i>1</i> 925	NA NA	22	NA NA	NA NA	22
	923	NA NA	NA NA	923	NA NA		NA NA	NA NA	22
4 Total						22			24
85 Total	899	NA NA	NA NA	899	NA NA	24	NA	NA NA	
86 Total	876	NA	NA	876	NA	27	NA	NA	27
7 Total	852	NA	NA	852	NA	29	NA	NA	29
88 Total	885	Ν <u>Ā</u>	NA 50	885	NA	32	NA	NA	32
9 Total	918	5	53	976	1	36	22	3	61
0 Total	581	6	56	642	1	39	28	3	71
1 Total	613	6	58	677	1	41	26	3	72
2 Total	645	<u>6</u>	60	711	1	44	32	3	81
3 Total	548	7	62	616	1	46	33	3	84
4 Total	537	6	64	607	1	46	35	4	86
5 Total	596	7	65	667	1	46	40	5	92
6 Total	595	7	65	667	1	50	53	5	110
7 Total	433	8	65	506	1	49	58	6	113
98 Total	387	8	65	459	1	48	54	7	111
9 Total	414	9	64	486	1	52	54	7	114
0 Total	433	9	61	503	1	53	47	8	109
01 Total	370	9	60	439	1	40	39	8	89
12 January	27	1	5	32	(s)	4	3	1	7
February	24	1	5	29	(s)	3	3	1	7
March	27	1	5	32	(s)	4	3	1	7
April	26	1	5	31	(s)	3	3	1	7
May	27	1	5	32	(s)	4	4	1	8
June	26	1	5	31	(s)	3	4	1	8
July	27	1	5	32	(s)	4	4	1	8
August	27	1	5	32	(s)	4	4	1	8
September	26	1	5	31	(s)	3	4	1	8
October	27	1	5	32	(s)	4	4	1	8
November	26	1	5	31	(s)	3	4	1	8
December	27	i	5	32	(s)	4	3	1	7
Total	313	10	59	382	(s)	42	42	9	93
					. ,				
3 January February	30 28	2 1	5 4	37 33	(s) (s)	4 3	3 3	1 1	8
March	30	2	5	33 37	(s)	4	4	1	9
	30	1	5	36	(s)	3	1	1	9
April	30	2	5 5	36 37		3 4	4	1	9
May		1	5 5		(s)	3	4	1	9
June	30	•	5 5	36	(s)		4	I 4	9
July	30	2		37	(s)	4	4	1	
August	30	2	5	37	(s)	4	4	7	9
September	30	1	5	36	(s)	3	4	1	8
October	30	2	5	37	(s)	4	4	1	9
November	30	1	5	36	(s)	3	4	1	9
December	30	2	_5	37	(s)	4	4	.1	9
Total	359	18	58	435	1	42	48	15	107
4 January	30	2	5	37	(s)	4	4	1	9
February	28	1	5	34	(s)	3	4	1	8
March	30	2	5	37	(s)	4	4	1	9
April	29	1	5	36	(s)	4	4	1	9
May	30	2	5	37	(s)	4	4	1	9
June	29	1	5	36	(s)	3	4	1	9 9 9
July	30	2	5	37	(s)	4	4	1	9
August	30	2	5	37	(s)	4	4	1	9
8-Month Total	239	12	39	290	1	29	32	10	72

^a Commercial sector fuel use, including that at commercial combined-heat-and-power (CHP) and commercial electricity-only plants. See note at end of Section 7.

^b Wood, black liquor, and other wood waste.

Sources: See end of section.

^c Geothermal heat pump and direct use energy.

d Solar thermal direct use energy and photovoltaic electricity generation. Small amounts of commercial sector use are included in the residential sector.

^e Conventional hydroelectric power.

^f Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.

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

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: http://www.eia.doe.gov/emeu/mer/renew.html.

Table 10.2b Estimated Renewable Energy Consumption: Industrial and Transportation Sectors

(Trillion Btu)

			Industrial Sectora	1		Transportation Sector
	Hydropowerb	Wood ^c	Wasted	Geothermal ^e	Total	Alcohol Fuels ^f
973 Total	35	1,165	NA	NA	1,200	NA
974 Total	33	1,159	NA NA	NA NA	1,192	NA NA
975 Total	32	1,063	NA NA	NA NA	1,096	NA NA
976 Total	33	1,220	NA NA	NA NA	1,253	NA NA
	33	1,281	NA NA	NA NA	1,314	NA NA
977 Total						
978 Total	32	1,400	NA	NA	1,432	NA
79 Total	34	1,405	NA	NA	1,439	NA
80 Total	33	1,600	NA	NA	1,633	NA
81 Total	33	1,602	87	NA	1,722	7
82 Total	33	1,516	118	NA	1,667	19
83 Total	33	1,690	155	NA	1,879	35
84 Total	33	1,679	204	NA	1,916	43
85 Total	33	1,645	230	NA	1,908	52
86 Total	33	1,610	256	NA	1,899	60
87 Total	33	1,576	282	NA	1,891	69
88 Total	33	1,625	308	NA	1,965	70
89 Total	28	1,584	200	2	1,814	71
90 Total	31	1,442	192	2	1,667	63
01 Total	30	1,410	185	2	1,626	73
92 Total	31	1,461	179	2	1,672	83
93 Total	30	1,483	181	2	1,696	97
94 Total	62	1,580	199	3	1,844	109
95 Total	55	1,652	195	3	1,905	117
6 Total	61	1,683	224	3	1,971	84
7 Total	58	1,731	184	3	1,976	106
98 Total	55	1,603	180	3	1,841	117
99 Total	49	1,620	171	4	1,843	122
00 Total	42	1,636	145	4	1,828	139
01 Total	32	1,443	150	5	1,630	147
02 January	3	130	15	(s)	149	13
February	3	114	13	(s)	131	12
March	3	120	15	(s)	138	12
April	3	121	14	(s)	139	12
May	3	130	14	(s)	147	14
June	3	122	14	(s)	139	12
July	3	137	14	(s)	154	15
August	3	124	14	(s)	141	14
September	2	132	14	(s)	148	15
October	3	141	15	(s)	159	17
November	5	128	15	(s)	148	20
December	5	133	16	(s)	155	19
Total	39	1,531	174	5	1,748	174
		•			•	
3 January	4	116	13	(s)	134	17
February	4	110	12	(s)	126	20
March	5	130	14	(s)	149	17
April	4	124	13	(s)	142	20
May	5	122	14	(s)	141	19
June	5	125	13	(s)	143	19
July	5	129	13	(s)	148	20
August	5	125	14	(s)	144	21
September	4	119	14	(s)	137	18
October	4	138	15	(s)	157	21
November	4	151	14	(s)	170	24
December	6	137	15	(s)	158	25
Total	57	1,524	164	5	1,750	239
		•		(2)		
4 January	5	136	14	(s)	156	24
February	4	124	13	(s)	142	22
March	4	127	14	(s)	145	24
April	4	131	14	(s)	149	24
May	4	124	15	(s)	143	25
June	3	123	15	(s)	141	25
July	3	130	14	(s)	147	25
August	4	131	14	(s)	149	24
8-Month Total	32	1,026	113	3	1,174	193
03 8-Month Total	38	979	107	3	1,127	151
2 8-Month Total	23	997		3	1,138	104

a Industrial sector fuel use, including that industrial combined-heat-and-power (CHP) and industrial electricity-only plants. See note at end of Section 7.

^b Conventional hydroelectric power.

^c Wood, black liquor, and other wood waste.

^d Municipal solid waste, landfill gas, sludge waste, tires, agricultural hydroelectric power.

e Geothermal heat pump and direct use energy.
f Ethanol blended into motor gasoline.
NA=Not available. (s)=Less than 0.5 trillion Btu.
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: http://www.eia.doe.gov/emeu/mer/renew.html.
Sources: See end of section.

byproducts, and other biomass.

Table 10.2c Renewable Energy Consumption: Electric Power Sector (Trillion Btu)

	Hydropower ^a	Wood ^b	Waste ^c	Geothermald	Solar ^e	Wind ^f	Total
		_	_				
973 Total	2,827	1	2	43	NA	NA	2,873
974 Total	3,143	1	2	53	NA	NA	3,199
975 Total	3,122	(s)	2	70	NA	NA	3,194
976 Total	2,943	1	2	78	NA	NA	3,024
77 Total	2,301	3	2	77	NA	NA	2,383
78 Total	2,905	2	1	64	NA	NA	2,973
79 Total	2,897	3	ż	84	NA NA	NA	2,986
		3	2			NA NA	2,982
080 Total	2,867			110	NA		
81 Total	2,725	3	1	123	NA	NA	2,852
82 Total	3,233	2	1	105	NA	NA	3,341
83 Total	3,494	2	2	129	NA	(s)	3,627
84 Total	3,353	5	4	165	(s)	(s)	3,527
85 Total	2,937	8	7	198	(s)	(s)	3,150
86 Total	3,038	5	7	219	(s)	(s)	3,270
87 Total	2,602	8	7	229	(s)		2,846
						(s)	
38 Total	2,302	10	8	217	(s)	(s)	2,536
39 Total ^g	2,808	100	132	308	3	22	3,372
90 Total	3,014	129	188	326	4	29	3,689
1 Total	2,985	126	229	335	5	31	3,710
2 Total	2,586	140	262	338	4	30	3,360
3 Total	2,861	150	265	351	5	31	3,662
		152			5		
94 Total	2,620		282	325		36	3,420
5 Total	3,149	125	296	280	5	33	3,889
6 Total	3,528	138	300	300	5	33	4,305
7 Total	3,581	137	309	309	5	34	4,375
98 Total	3,241	137	308	311	5	31	4,032
9 Total	3,218	138	315	312	5	46	4,034
00 Total	2,768	134	318	296	5	57	3,579
01 Total	2,169	126	324	289	6	68	2,982
12 January	218	13	30	27	(s)	8	296
February	201	10	27	24	(s)	7	270
March	210	13	30	26	(s)	9	288
April	242	11	28	23	(s)	10	316
	267	11	30	26	1	11	345
May					•		
June	283	12	31	24	1	11	362
July	255	13	33	27	1	9	337
August	211	13	33	26	1	10	293
September	170	14	31	25	1	7	248
October	170	13	30	26	(s)	7	247
November	195	13	30	25	(s)	7	270
	214	14	32	26			293
December					(s)	8	
Total	2,636	150	365	305	6	105	3,567
)3 January	195	15	27	24	(s)	6	267
February	195	12	24	22	(s)	7	260
March	241	13	29	23	ĺĺ	10	317
April	248	12	28	22	1	11	322
May	297	11	29	22	1	9	368
	283	13	29	23	1	10	358
June					1		
July	244	14	32	23	1	9	323
August	226	15	30	23	1	8	302
September	180	13	27	23	1	8	251
October	181	15	30	23	(s)	9	258
November	195	14	30	23	(s)	10	272
December	238	15	32	26	(s)	11	322
Total	2,722	161	346	276	5	108	3,619
. J. Cai	۷,1 ۲۲	101	340	210	J	100	3,019
14 January	230	15	30	26	(s)	9	310
February	209	14	26	25	(s)	10	284
March	228	14	28	25	ĺĺ	12	309
April	210	12	28	24	1	12	286
May	239	13	30	25	i	17	323
June	252	12	29	25	1	14	333
July	231	16	30	26	1	11	315
August	215	15	30	26	1	10	296
8-Month Total	1,813	110	231	201	5	95	2,456
03 8-Month Total	1,929	104	227	182	4	70	2,516
O O MONINI I DIAI	1,323	104	221	102	4	10	2,510

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: http://www.eia.doe.gov/emeu/mer/renew.html.
Sources: Wood and Waste • 1973-1988: Table 7.3d. • 1989 forward: Table 7.3b. Hydropower, Geothermal, Solar, and Wind: Tables 7.2b and A6

A6.

 ^a Conventional hydroelectric power.
 ^b Wood, black liquor, and other wood waste.
 ^c Municipal solid waste, landfill gas, sludge waste, tires, agricultural byproducts, and other biomass.
 ^d Geothermal electricity pet generation.

Geothermal electricity net generation.
 Solar thermal and photovoltaic electricity net generation.
 Wind electricity net generation.

⁹ Through 1988, data are for consumption at electric utilities only. Beginning in 1989, data also include consumption at independent power producers.

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

Renewable Energy

Tables 10.2a and 10.2b Sources

Wood, Residential

1973–1979: Energy Information Administration (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,

1985 and 1986: Values interpolated.

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

1988: Value interpolated.

1989: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 1.

1990–2001: EIA, *Renewable Energy Annual*, annual reports, Table 6. Includes revisions published in the EIA, *Annual Energy Review 2000*, Table 10.2a.

2002 forward: EIA, Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), estimates.

Wood, Commercial

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, CNEAF, estimate.

1985-1992: Values interpolated.

1993–2001: EIA, *Renewable Energy Annual*, annual reports, Table 6. Includes revisions published in the EIA, *Annual Energy Review 2000*, Table 10.2a.

2002 forward: EIA, CNEAF, estimates.

Wood, Industrial

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: American Paper Institute, *Fact Sheet on 1990 Energy Use in the U.S. Pulp and Paper Industry* (July 1991), total pulp and paper industry wood consumption, minus nonutility power producers' use of wood to produce electricity (see Table 10.3b).

1990–2001: EIA, *Renewable Energy Annual 2001* (November 2002), Table B1, and CNEAF staff for subsequent data updates.

2002 forward: EIA, CNEAF, estimates.

Waste, Commercial

Table 7.3c

Waste, Industrial

1981: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8, total waste consumption, minus electric utilities' use of waste to produce electricity (see Table 10.3a).

1982 and 1983: EIA, CNEAF, estimates for total waste consumption, minus electric utilities' use of waste to produce electricity (see Table 10.3a).

1984: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8, total waste consumption, minus electric utilities' use of waste to produce electricity (see Table 10.3a).

1985 and 1986: Values interpolated.

1987: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8, total waste consumption, minus electric utilities' use of waste to produce electricity (see Table 10.3a).

1988: Value interpolated.

1989: EIA, *Estimates of U.S. Biofuels Consumption 1990*, Table 8, total waste consumption, minus electric utilities' and nonutility power producers' use of waste to produce electricity (see Tables 10.3a and 10.3b).

1990–2001: EIA, *Renewable Energy Annual 2001* (November 2002), Table B1, and CNEAF staff for subsequent data updates.

2002 forward: EIA, CNEAF, estimates.

Hydroelectric, Commercial

Hydroelectric total (all sectors) from Table 7.2a minus electric power sector hydroelectric from Table 7.2b minus industrial sector hydroelectric from Table 7.2c, times the fossil-fueled steam-electric plants heat rate from Table A6.

Hydroelectric, Industrial

1973–1978: 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, and Table A6.

1979: FPC, Form FPC-4, "Monthly Power Plant Report," for plants with generating capacity exceeding 10 megawatts, and EIA estimates for all other plants; and Table A6.

1980–1988: Estimated by EIA as the average generation over the 6-year period of 1974-1979, and Table A6.

1989 forward: Tables 7.2c and A6.

Alcohol Fuels

1981: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1982 and 1983: EIA, CNEAF, estimates.

1984: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1985 and 1986: Values interpolated.

1987: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1988: Value interpolated.

1989: EIA, Estimates of U.S. Biofuels Consumption 1990, Table 10.

1990: EIA, Estimates of U.S. Biomass Energy Consumption 1992, Table D1.

1991: Value interpolated.

1992: EIA, Estimates of U.S. Biomass Energy Consumption 1992, Table D1.

1993 forward: EIA, *Petroleum Supply Monthly (PSM)*, Tables 2 and 28, and *Monthly Energy Review (MER)* Table A1. Ten percent of the "Field Production" of "Oxygenated Finished Motor Gasoline" from *PSM* Table 2 is added to the "Refinery Input of Fuel Ethanol" from *PSM* Table 28. The sum is multiplied by the conversion factor of 3.539 million Btu per barrel as shown in the *MER* Table A1.

Geothermal

1989 forward: John Lund, Oregon Institute of Technology Geoheat Center, unpublished data.

Solar

1989-1991: EIA, CNEAF, estimates.

1992–2001: EIA *Renewable Energy Annual*, annual reports, Table 2. Includes revisions published in the EIA, *Annual Energy Review 2000*, Table 10.2a and 10.2b.

2002 forward: EIA, CNEAF, estimates.

Section 11. International Petroleum

Crude Oil Production. World crude oil production during August 2004 was 73 million barrels per day, down 0.8 million barrels per day from the level in the previous month.

Organization of Petroleum Exporting Countries (OPEC) production during August 2004 averaged 31 million barrels per day, down 0.2 million barrels per day from the level in the previous month. During August 2004, production increased in the United Arab Emirates by 70 thousand barrels per day; Iran by 20 thousand barrels per day; and Libya by 10 thousand barrels per day. Production decreased in Iraq by 200 thousand barrels per day and Nigeria by 100 thousand barrels per day. Production remained unchanged in Saudi Arabia, Venezuela, Kuwait, Algeria, Indonesia, and Oatar.

Among the non-OPEC nations, production during August 2004 increased in Russia by 65 thousand barrels per day and Egypt by 1 thousand barrels per day. Production decreased in Norway by 454 thousand barrels per day; the United States by 124 thousand barrels per day; the United Kingdom by 62 thousand barrels per day; Canada by 40 thousand per

day; China by 18 thousand barrels per day; and Mexico by 9 thousand barrels per day.

Petroleum Consumption. In July 2004, consumption in all Organization for Economic Cooperation and Development (OECD) countries was 49.1 million barrels per day, 2 percent¹ higher than the July 2003 rate. Comparing July rates in 2004 and 2003, consumption was higher in 2004 in Canada (+6 percent); Japan and the United Kingdom (both +4 percent); the United States (+3 percent); and Italy and Germany (both +2 percent). The July 2004 consumption rate was lower in France (-4 percent) and South Korea (-1 percent) compared with the rate 1 year earlier.

Petroleum Stocks. For all OECD countries, petroleum stocks at the end of July 2004 totaled 4.0 billion barrels, 2 percent¹ higher than the ending stock level in July 2003. Stock levels were higher in July 2004 in Canada (+8 percent); France (+6 percent); and the United States (+5 percent). Stock levels were lower in Japan (-3 percent); South Korea and Italy (both -2 percent); the United Kingdom (-1 percent); and Germany (less than -1 percent), compared with levels 1 year earlier.

¹Percentage changes are based on unrounded data.

Table 11.1a World Crude Oil Production: OPEC Members

(Thousand Barrels per Day)

				• • • • • • • • • • • • • • • • • • • •								
										United		
									Saudi	Arab		
	Algeria	Indonesia	Iran	Iraq	Kuwaita	Libya	Nigeria	Qatar	Arabiaa	Emirates	Venezuela	OPEC ^b
1072 1	4 007	4 220	E 004	2.040	2 000	0.475	2.054	E70	7 500	4 522	2 200	20.020
1973 Average 1974 Average	1,097 1,009	1,339 1,375	5,861 6,022	2,018 1,971	3,020	2,175 1,521	2,054 2,255	570 518	7,596 8,480	1,533 1,679	3,366 2,976	30,629 30,351
1975 Average	983	1,373	5,350	2,262	2,546 2,084	1,480	1,783	438	7,075	1,664	2,346	26,771
1976 Average	1,075	1,504	5,883	2,415	2,145	1,933	2,067	497	8,577	1,936	2,294	30,327
1977 Average	1,152	1,686	5,663	2,348	1,969	2,063	2,085	445	9,245	1,999	2,234	30,893
1978 Average	1,231	1,635	5,242	2,563	2,131	1,983	1,897	487	8,301	1,831	2,165	29,464
1979 Average	1,224	1,591	3,168	3,477	2,500	2,092	2,302	508	9,532	1,831	2,356	30,581
1980 Average	1,106	1,577	1,662	2,514	1,656	1,787	2,055	472	9,900	1,709	2,168	26,606
1981 Average	1,002	1,605	1,380	1,000	1,125	1,140	1,433	405	9,815	1,474	2,102	22,481
1982 Average	987	1,339	2,214	1,012	823	1,150	1,295	330	6,483	1,250	1,895	18,778
1983 Average	968	1,343	2,440	1,005	1,064	1,105	1,241	295	5,086	1,149	1,801	17,497
1984 Average	1,014	1,412	2,174	1,209	1,157	1,087	1,388	394	4,663	1,146	1,798	17,442
1985 Average	1,037	1,325	2,250	1,433	1,023	1,059	1,495	301	3,388	1,193	1,677	16,181
1986 Average	945	1,390	2,035	1,690	1,419	1,034	1,467	308	4,870	1,330	1,787	18,275
1987 Average	1,048	1,343	2,298	2,079	1,585	972	1,341	293	4,265	1,541	1,752	18,517
1988 Average	1,040	1,342	2,240	2,685	1,492	1,175	1,450	346	5,086	1,565	1,903	20,324
1989 Average	1,095	1,409	2,810	2,897	1,783	1,150	1,716	380	5,064	1,860	1,907	22,071
1990 Average	1,175	1,462	3,088	2,040	1,175	1,375	1,810	406	6,410	2,117	2,137	23,195
1991 Average	1,230	1,592	3,312	305	190	1,483	1,892	395	8,115	2,386	2,375	23,275
1992 Average	1,214	1,504	3,429	425	1,058	1,433	1,943	423	8,332	2,266	2,371	24,398
1993 Average	1,162	1,511	3,540	512	1,852	1,361	1,960	413	8,198	2,159	2,450	25,119
1994 Average	1,180	1,510	3,618	553	2,025	1,378	1,931	415	8,120	2,193	2,588	25,510
1995 Average	1,202	1,503	3,643	560	2,057	1,390	1,993	442	8,231	2,233	2,750	26,004
1996 Average	1,242	1,547	3,686	579	2,062	1,401	2,001	510	8,218	2,278	2,938	26,461
1997 Average	1,277	1,520	3,664	1,155	2,007	1,446	2,132	550	8,362	2,316	3,280	27,710
1998 Average	1,246	1,518	3,634	2,150	2,085	1,390	2,153	696	8,389	2,345	3,167	28,774
1999 Average	1,202	1,472	3,557	2,508	1,898	1,319	2,130	665	7,833	2,169	2,826	27,579
2000 Average	1,254	1,423	3,696	2,571	2,079	1,410	2,165	737	8,404	2,368	3,155	29,262
2001 Average	1,310	1,340	3,724	2,390	1,998	1,367	2,256	714	8,031	2,205	3,010	28,344
2002 January	1,221	1,310	3,385	2,315	1,850	1,260	2,150	625	7,300	2,060	2,630	26,106
February	1,215	1,280	3,365	2,545	1,803	1,280	2,100	625	7,300	2,050	2,600	26,073
March	1,235	1,280	3,385	2,515	1,850	1,290	2,100	635	7,210	2,055	2,620	26,295
April	1,245	1,270	3,375	1,215	1,860	1,300	2,120	655	7,455	2,070	2,530	25,105
May	1,275	1,270	3,395	1,865	1,880	1,310	2,070	675	7,450	2,060	2,730	25,980
June	1,285	1,270	3,415	1,525	1,890	1,320	2,060	665	7,500	2,060	2,735	25,725
July	1,305	1,265	3,425	1,835	1,910	1,330	2,050	675	7,700	2,080	2,735	26,310
August	1,315	1,260	3,440	1,505	1,910	1,330	2,100	685	7,730	2,090	2,765	26,130
September	1,345	1,260	3,485	1,825	1,930	1,350	2,143	695	7,880	2,103	2,955	26,971
October	1,395	1,260	3,535	2,425	1,930	1,350	2,140	725	7,900	2,113	2,980	27,753
November	1,383	1,250	3,535	2,395	1,940	1,350	2,150	730	8,100	2,100	2,972	27,905
December	1,445	1,230	3,585	2,325	1,970	1,350	2,200	755	8,050	2,140	1,020	26,069
Average	1,306	1,267	3,444	2,023	1,894	1,319	2,118	679	7,634	2,082	2,604	26,370
0000 1	4 400	4.000	0.000	0.555	4 000	4.075	0.040	700	0.570	0.000	000	00.700
2003 January	1,490	1,230	3,660	2,555	1,990	1,375	2,310	760	8,570	2,200	630	26,769
February	1,495	1,225	3,735	2,490	2,050	1,400	2,360	785	8,870	2,250	1,450	28,110
March	1,555 1,645	1,200	3,760 3,755	1,373 53	2,300 2,400	1,405 1,430	2,030 1,965	785 785	9,460	2,450	2,390 2,555	28,708 27,818
April May	1,645 1,645	1,180 1,170	3,755 3,755	293	2,400	1,430	2,050	785	9,600 9,400	2,450 2,400	2,555	27,816
June	1,625	1,170	3,755	453	2,203	1,430	2,050	735	8,700	2,350	2,640	27,003
July	1,645	1,165	3,785	573	2,100	1,430	2,185	735	8,610	2,350	2,640	27,103
August	1,645	1,150	3,785	1,053	2,100	1,425	2,160	735	8,610	2,340	2,640	27,743
September	1,645	1,150	3,785	1,403	2,100	1,425	2,360	735	8,550	2,300	2,640	28,093
October	1,645	1,145	3,785	1,753	2,200	1,420	2,360	735	8,650	2,330	2,640	28,663
November	1,645	1,140	3,835	1,853	2,200	1,420	2,410	785	8,500	2,350	2,540	28,678
December	1,645	1,140	3,950	1,953	2,300	1,450	2,460	785	8,660	2,400	2,540	29,283
Average	1,611	1,171	3,779	1,312	2,178	1,421	2,241	762	8,848	2,348	2,335	28,006
. •	•	•	,	•		•	•	-		,	,	,
2004 January	1,645	1,130	3,950	2,103	2,300	1,450	2,530	785	8,700	2,400	2,540	29,533
February	1,645	1,130	3,950	2,003	2,300	1,450	2,530	795	8,700	2,420	2,540	29,463
March	1,645	1,120	3,960	2,203	2,355	1,450	2,530	795	8,400	2,370	2,540	29,368
April	1,645	1,120	3,970	2,303	2,350	1,450	2,530	795	8,400	2,220	2,540	29,323
May	1,645	1,115	3,980	1,903	2,400	1,450	2,530	795	8,500	2,280	2,540	29,138
June	1,665	1,105	3,990	1,703	2,400	1,500	2,580	835	9,500	2,510	2,540	30,328
July	1,695	1,100	4,010	2,003	2,400	1,550	2,580	835	9,500	2,530	2,540	30,743
August	1,695	1,100	4,030	1,803	2,400	1,560	2,480	835	9,500	2,600	2,540	30,543
8-Mo. Avg	1,660	1,115	3,980	2,003	2,364	1,483	2,536	809	8,901	2,417	2,540	29,808
2003 8-Mo. Avg	1,594	1,185	3,749	1,095	2,166	1,416	2,162	763	8,977	2,350	2,207	27,665
2003 8-Mo. Avg 2002 8-Mo. Avg	1,594	1,185	3,749 3,399	1,095	1,870	1,416	2,162	655	7,460	2,350 2,066	2,207 2,669	27,665 25,969
	.,_00	.,	5,500	.,5.2	.,5.0	.,500	_,50.	300	.,100	_,500	_,	_0,000

^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 August 2004, Neutral Zone production by

respectively, are excluded from all OPEC totals.

both Kuwait and Saudi Arabia totaled about 610 thousand barrels per day.

^b Current members of OPEC are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela. Ecuador and Gabon, which withdrew from OPEC membership at the end of 1992 and 1994,

Notes: • Crude oil includes lease condensate but excludes natural gas plant liquids. • Monthly data are often preliminary figures and may not average to the annual totals because of rounding or because updates to the preliminary monthly data are not available.

Web Page: http://www.eia.doe.gov/emeu/mer/inter.html.

Sources: See end of section.

Table 11.1b World Crude Oil Production: Persian Gulf Nations, Non-OPEC, and World

(Thousand Barrels per Day)

	(111000)				Calaat	ad Nan Ol	DEC Dradua				I	Τ
	Persian			I	Selecti	ea Non-Oi	PEC Produc	ers			Total	
	Gulf Nations ^a	Canada	China	Egypt	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom	United States	Non- OPEC	World
	Hations	Janaaa	Onnia	Едурі	MICKIGO	Horway	0.0.0.11.	Russia	rangaom	Otates	0.20	World
1973 Average	20,668	1,798	1,090	165	465	32	8,324	NA	2	9,208	25,050	55,679
1974 Average	21,282	1,551	1,315	150	571 705	35 189	8,912	NA NA	2	8,774	25,366	55,716
1975 Average 1976 Average	18,934 21,514	1,430 1,314	1,490 1,670	235 330	705 831	279	9,523 10,060	NA NA	12 245	8,375 8,132	26,058 27,018	52,828 57,344
1977 Average	21,725	1,321	1,874	415	981	280	10,603	NA	768	8,245	28,814	59,707
1978 Average	20,606	1,316	2,082	485	1,209	356	11,105	NA	1,082	8,707	30,694	60,158
1979 Average 1980 Average	21,066 17,961	1,500 1,435	2,122 2,114	525 595	1,461 1,936	403 528	11,384 11,706	NA NA	1,568 1,622	8,552 8,597	32,094 32,994	62,674 59,600
1981 Average	15,245	1,435	2,012	598	2,313	501	11,700	NA	1,811	8,572	33,595	56,076
1982 Average	12,156	1,271	2,045	670	2,748	520	11,912	NA	2,065	8,649	34,703	53,481
1983 Average	11,081 10.784	1,356	2,120	727	2,689	614	11,972	NA	2,291	8,688	35,759	53,256
1984 Average 1985 Average	9,630	1,438 1,471	2,296 2,505	822 887	2,780 2,745	697 788	11,861 11,585	NA NA	2,480 2,530	8,879 8,971	37,047 37,801	54,489 53,982
1986 Average	11,696	1,474	2,620	813	2,435	870	11,895	NA	2,539	8,680	37,952	56,227
1987 Average	12,103	1,535	2,690	896	2,548	1,022	12,050	NA	2,406	8,349	38,149	56,666
1988 Average 1989 Average	13,457 14,837	1,616 1,560	2,730 2,757	848 865	2,512 2,520	1,158 1,554	12,053 11,715	NA NA	2,232 1,802	8,140 7,613	38,413 37,792	58,737 59,863
1990 Average	15,278	1,553	2,774	873	2,553	1,704	10,975	NA	1,820	7,355	37,371	60,566
1991 Average	14,741	1,548	2,835	874	2,680	1,890	9,992	NA	1,797	7,417	36,932	60,207
1992 Average	15,970	1,605	2,845	881	2,669	2,229	_	7,632	1,825	7,171	35,815	60,213
1993 Average 1994 Average	16,715 16,964	1,679 1,746	2,890 2,939	890 896	2,673 2,685	2,350 2,521	_	6,730 6,135	1,915 2,375	6,847 6,662	35,117 35,481	60,236 60,991
1995 Average	17,208	1,805	2,990	920	2,618	2,768	_	5,995	2,489	6,560	36,331	62,335
1996 Average	17,367	1,837	3,131	922	2,855	3,104	-	5,850	2,568	6,465	37,250	63,711
1997 Average 1998 Average	18,095 19,337	1,922 1,981	3,200 3,198	856 834	3,023 3,070	3,143 3,017	-	5,920 5,854	2,518 2,616	6,452 6,252	37,980 38,147	65,690 66,921
1999 Average	18,667	1,907	3,195	852	2,906	3,018	_	6,079	2,684	5,881	38,269	65,848
2000 Average	19,892	1,977	3,249	748	3,012	3,197	-	6,479	2,275	5,822	39,081	68,342
2001 Average	19,098	2,029	3,300	698	3,157	3,117	_	6,917	2,282	5,801	39,598	67,942
2002 January	17,570	2,091	3,365	627	3,253	3,079	-	7,017	2,396	5,848	40,350	66,456
February	17,633	2,167	3,330	629	3,142	3,150	-	7,094	2,392	5,871	40,469	66,542
March April	17,785 16,665	2,159 2,204	3,350 3,333	624 630	3,125 3,178	2,787 3,157	_	7,157 7,179	2,334 2,388	5,883 5,859	40,088 40,679	66,383 65,784
May	17,360	2,130	3,365	667	3,136	3,028	_	7,184	2,338	5,924	40,398	66,378
June	17,090	2,155	3,415	635	3,158	2,918	-	7,337	2,323	5,915	40,499	66,224
July August	17,660 17,395	2,201 2,165	3,395 3,490	628 624	3,145 3,214	3,114 2,896	_	7,441 7,574	2,114 1,953	5,770 5,811	40,413 40,412	66,723 66,542
September	17,953	2,135	3,430	628	3,162	2,752	-	7,686	2,186	5,411	40,155	67,126
October	18,663	2,179	3,447	625	3,257	2,993	-	7,735	2,364	5,363	40,704	68,457
November December	18,835 18,859	2,224 2,238	3,379 3,371	629 630	3,080 3,269	3,059 2,962	_	7,753 7,721	2,350 2,375	5,597 5,699	40,691 40,808	68,596 66,877
Average	17,792	2,230 2,171	3,390	631	3,209 3,177	2,902 2,990	_	7,721 7,408	2,373 2,292	5,746	40,808 40,472	66,842
	40.700	0.000	0.054	000	0.000	0.005		7.705	0.050	F 70F	40.050	07.000
2003 January February	19,769 20,215	2,220 2,215	3,354 3,375	630 630	3,330 3,325	2,935 3,015	_	7,765 7,831	2,256 2,275	5,785 5,791	40,853 41,046	67,622 69,156
March	20,163	2,235	3,385	625	3,317	2,965	-	7,868	2,250	5,817	40,972	69,680
April	19,078	2,185	3,445	625	3,282	2,860	-	7,922	2,145	5,774	40,813	68,631
May June	18,953 18.128	2,190 2,250	3,430 3,450	625 620	3,320 3,396	2,845 2,576	_	8,030 8,180	2,005 1,950	5,733 5,701	40,742 40,750	68,625 67,853
July	18,188	2,405	3,405	610	3,400	2,840	_	8,250	1,988	5,526	41,181	68,399
August	18,658	2,365	3,425	605	3,426	2,699	-	8,345	1,892	5,595	41,154	68,897
September October	18,908 19,488	2,350 2,325	3,371 3,401	614 615	3,417 3,398	2,689 2,816	_	8,470 8,490	2,047 2,171	5,683 5,635	41,500 41,804	69,593 70,467
November	19,558	2,440	3,426	610	3,380	2,941	_	8,500	1,956	5,560	42,015	70,693
December	20,083	2,480	3,438	610	3,455	2,978	-	8,510	2,192	5,579	42,691	71,974
Average	19,262	2,306	3,409	618	3,371	2,846	_	8,182	2,093	5,681	41,296	69,301
2004 January	20,273	2,414	3,440	610	3,417	3,143	-	8,686	2,041	E 5,644	42,647	72,180
February	20,203	2,470	3,474	607	3,360	3,179	-	8,630	1,898	E 5,584	42,514	71,977
March April	20,118 20,073	2,440 2,363	3,393 3,435	590 580	3,368 3,439	3,089 3,064	_	8,681 8,760	2,028 1,966	E 5,622 E 5,568	42,553 42,566	71,921 71,889
May	19,893	2,384	3,420	591	3,394	3,028	_	8,837	1,800	[≗] 5,612	42,477	71,615
June	20,973	2,430	3,460	585	3,436	3,068	_	8,930	1,923	E 5,403	R 42,767	R 73,095
July August	21,313 21,203	2,410 2,370	3,486 3,468	595 596	3,363 3,354	3,079 2,625	_	9,260 9,325	1,818 1,756	^E 5,404 ^E 5,280	^R 42,882 42,276	^R 73,625 72,819
8-Mo. Avg	20,508	2,410	3,447	594	3,391	3,033	_	8,8 91	1,903	E 5,514	42,585	72,393
2003 8-Mo. Avg	19,135	2,259	3,409	621	3,350	2,841	_	8,026	2,093	5,714	40,939	68,604
2002 8-Mo. Avg	17,396	2,159	3,381	633	3,169	3,014	-	7,250	2,278	5,860	40,411	66,380

 ^a 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 "Persian Gulf Nations."
 R=Revised. NA=Not available. – =Not applicable. E=Estimate.
 Notes: • Crude oil includes lease condensate but excludes natural gas plant liquids. • Monthly data are often preliminary figures and may not

average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. • Data for countries may not sum to World totals due to independent rounding. • U.S. geographic coverage is

the 50 States and the District of Columbia.

Web Page: http://www.eia.doe.gov/emeu/mer/inter.html.

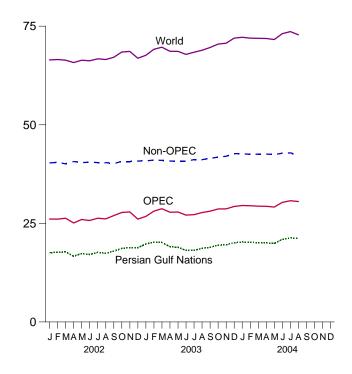
Sources: See end of section.

Figure 11.1a Crude Oil Production Overview (Million Barrels per Day)

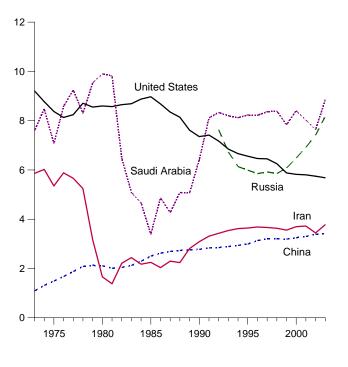
World Production, 1973-2003

Non-OPEC Persian Gulf Nations 1975 1980 1985 1990 1995 2000

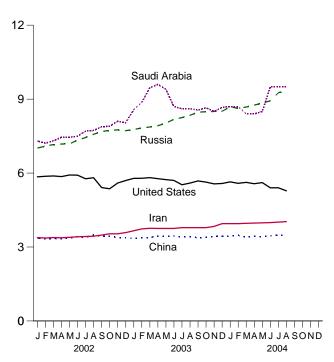
World Production, Monthly



Selected Producers, 1973-2003



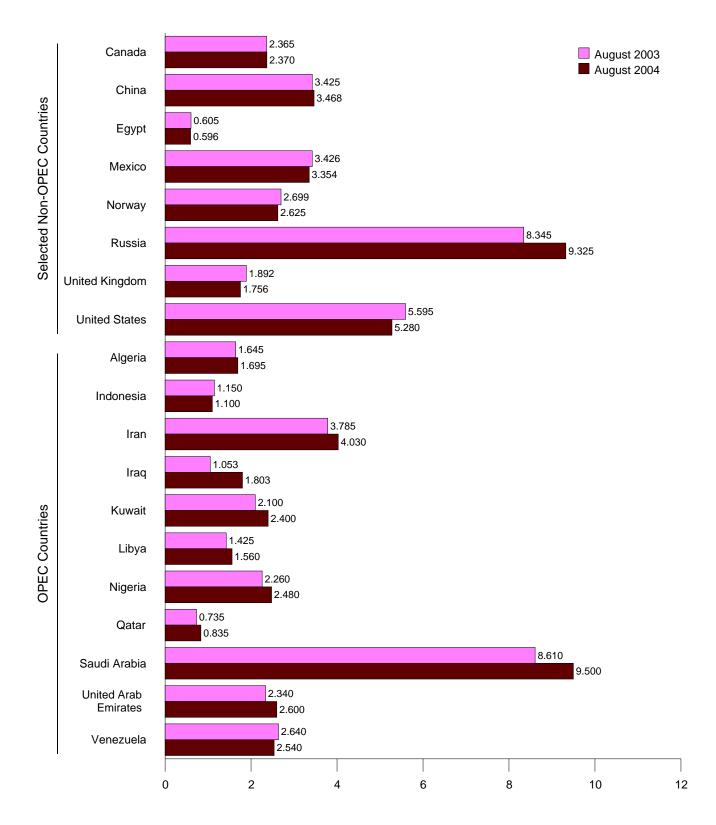
Selected Producers, Monthly



Notes: • OECD is the Organization for Economic Cooperation and Development. • Because vertical scales differ, graphs should not be compared.

Web Page: http://www.eia.doe.gov/emeu/mer/inter.html. Source: Tables 11.1a and 11.b.

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

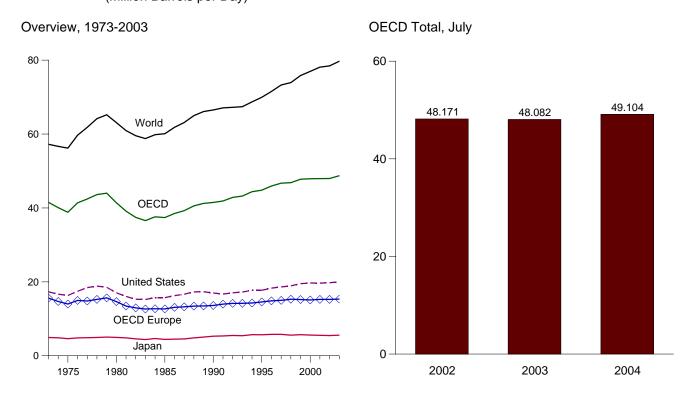


Note: OPEC is the Organization of Petroleum Exporting Countries.

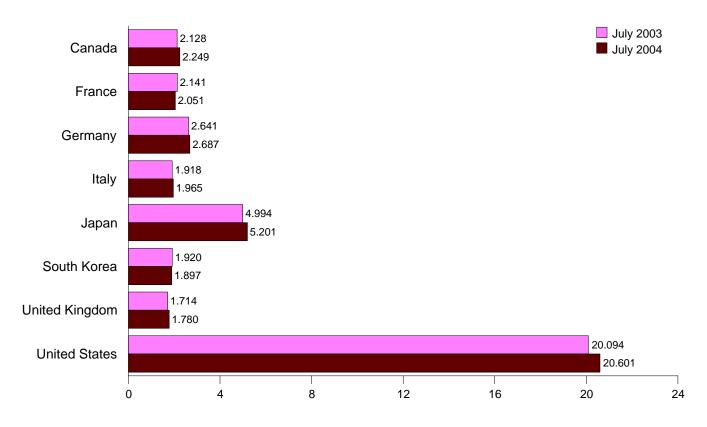
Web Page: http://www.eia.doe.gov/emeu/mer/inter.html.

Sources: Tables 11.1a and 11.1b.

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



By Selected OECD Country



Notes: • OECD is the Organization for Economic Cooperation and Development. • Because vertical scales differ, graphs should not be compared.

Web Page: http://www.eia.doe.gov/emeu/mer/inter.html. Source: Table 11.2.

Table 11.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

	(7,								
						South	United	United	OECD	Other		
	Canada	France	Germanya	Italy	Japan	Korea	Kingdom	States	Europe ^b	OECDC	OECD ^d	World
1973 Average	1,729	2,601	3,324	2,068	4,949	281	2,341	17,308	15,598	1,658	41,523	57,237
1974 Average	1,779	2,447	3,030	2,004	4,864	287	2,210	16,653	14,699	1,806	40,089	56,677
1975 Average	1,779	2,252	2,957	1,855	4,621	311	1,911	16,322	13,998	1,794	38,825	56,198
1976 Average	1,818	2,420	3,206	1,971	4,837	357	1,892	17,461	14,964	1,946	41,382	59,673
1977 Average	1,850	2,294	3,212	1,897	4,880	422	1,905	18,431	14,810	2,035	42,429	61,826
1978 Average	1,902	2,408	3,290	1,952	4,945	482	1,938	18,847	15,247	2,194	43,616	64,158
1979 Average	1,971	2,463	3,373	2,039	5,050	525	1,971	18,513	15,668	2,278	44,005	65,220
1980 Average	1,873	2,256	3,082	1,934	4,960	537	1,725	17,056	14,640	2,342	41,408	63,108
1981 Average	1,768	2,023	2,804	1,874	4,848	536	1,590	16,058	13,452	2,479	39,141	60,944
1982 Average	1,578	1,880	2,743	1,781	4,582	534	1,590	15,296	12,965	2,484	37,439	59,543
1983 Average	1,448	1,835	2,661	1,750	4,395	561	1,531	15,231	12,650	2,303	36,588	58,779
1984 Average	1,520	1,771	2,557	1,720	4,666	554	1,825	15,726	12,727	2,408	37,601	59,829
1985 Average	1,526	1,753	2,651	1,705	4,436	552 592	1,617	15,726	12,683	2,469	37,392	60,087
1986 Average	1,531 1,607	1,764 1,785	2,792	1,734 1,815	4,503 4,567	627	1,637 1,611	16,281 16,665	13,114 13,240	2,491 2,549	38,512 39,255	61,826
1987 Average 1988 Average	1,681	1,801	2,723 2,723	1,829	4,849	746	1,692	17,283	13,429	2,578	40,567	63,127 64,991
1989 Average	1,754	1,844	2,581	1,897	5.058	860	1,731	17,203	13,485	2,744	41,227	66,097
1990 Average	1,746	1,826	2,682	1,874	5,296	1,048	1,776	16,988	13,607	2,804	41,489	66,514
1991 Average	1,674	1,940	2,829	1,862	5,369	1,263	1,802	16,714	13,966	2,897	41,883	67,090
1992 Average	1,725	1,932	2,841	1,894	5,488	1,527	1,815	17,033	14,168	2,919	42,860	67,236
1993 Average	1,755	1,877	2,908	1,891	5,414	1,684	1,829	17,237	14,193	2,942	43,225	67,400
1994 Average	1,771	1,865	2,883	1,869	5,703	1,840	1,833	17,718	14,275	3,089	44,396	68,709
1995 Average	1,819	1,919	2,882	1,942	5,676	2,008	1,815	17,725	14,567	3,005	44,799	69,951
1996 Average	1,870	1,949	2,922	1,920	5,785	2,101	1,851	18,309	14,867	2,996	45,928	71,517
1997 Average	1,956	1,969	2,917	1,934	5,797	2,255	1,803	18,620	14,998	3,091	46,717	73,283
1998 Average	1,942	2,040	2,923	1,941	5,577	1,917	1,791	18,917	15,304	3,191	46,848	73,923
1999 Average	2,027	2,029	2,838	1,891	5,698	2,084	1,794	19,519	15,215	3,236	47,780	75,822
2000 Average	2,027	2,001 2,051	2,772	1,854	5,607	2,135	1,758	19,701	15,103	3,325	47,899	76,958
2001 Average	2,043	2,051	2,815	1,837	5,530	2,132	1,724	19,649	15,263	3,326	47,942	78,115
2002 January	2,038	2,213	2,583	1,947	5,811	2,404	1,737	19,454	R 15,526	3,210	R 48,442	NA
February	2,117	2,068	2,684	2,032	6,147	2,266	1,797	19,444	R 15,534	3,418	R 48,926	NA
March	2,072	1,954	2,648	1,866	5,555	2,286	1,806	19,676	R 14,998	3,211	R 47,798	NA
April	1,986	1,932	2,675	1,828	5,034	2,144	1,786	19,552	R 14,979	3,319	R 47,013	NA
May	2,001	1,785	2,491	1,811	4,638	1,865	1,778	19,728	R 14,496	3,231	R 45,958	NA
June	2,056	1,936	2,775	1,831	4,721	1,886	1,679	19,875	R 15,031	3,189	R 46,757	NA
July	2,089	2,093	2,921	1,941	5,199	1,866	1,801	20,076	R 15,647	3,293	^R 48,171	NA
August	2,144	1,865	2,789	1,757	5,170	1,965	1,725	20,221	R 14,870	3,299	R 47,668	NA
September	2,025	1,998	2,933	1,842	5,216	2,107	1,738	19,461	R 15,471	3,281	R 47,562	NA
October	2,142	2,069	2,771	1,934	5,273	2,118	1,808	19,678	R 15,762	3,339	R 48,313	NA
November	2,170	1,978	2,746	1,794	6,099	2,334	1,801	19,991	R 15,378	3,207	R 49,179	NA
December	2,115 2,079	1,908 1,983	2,642 2,721	1,869 1,870	6,753 5,465	2,555 2,149	1,757 1,768	19,943 19,761	R 15,255 R 15,243	3,376 3,280	^R 49,997 ^R 47,978	NA R 78,444
Average	2,079	1,903	2,721	1,070	3,403	2,149	1,700	19,701	13,243	3,200	41,510	70,444
2003 January	2,125	2,173	2,359	1,796	6,224	2,520	1,759	20,017	^R 15,184	3,299	R 49,368	NA
February	2,267	2,244	2,698	2,047	6,665	2,408	1,746	20,375	R 16,015	3,395	^R 51,125	NA
March	2,113	1,927	2,530	1,821	6,241	2,206	1,742	19,708	^R 14,851	3,343	R 48,462	NA
April	2,166	1,972	2,735	1,834	5,302	1,970	1,740	19,830	R 15,225	3,414	R 47,908	NA
May	R 2,189	1,885	2,752	1,808	5,073	1,991	1,684	19,344	R 14,954	3,448	R 46,997	NA
June	R 2,111	2,026	2,676	1,870	5,127	2,051	1,684	19,793	R 15,074	3,383	R 47,540	NA
July	2,128	2,141	2,641	1,918	4,994	1,920	1,714	20,094	R 15,475	3,470	R 48,082	NA
August	2,198 2,168	1,887 2,188	2,454 2,867	1,762 1,945	5,012 5,108	1,951 1,991	1,608 1,755	20,586 19,933	R 14,597 R 16,008	3,336 3,466	R 47,680 R 48,673	NA NA
September October	2,100	2,100	2,742	1,945	5,106	2,203	1,735	20,182	R 15,981	3,400	R 49,420	NA NA
November	2,209	1,928	2,608	1,808	5,510	2,331	1,737	19,873	R 15,118	3,355	R 48,395	NA
December	2 220	2,168	2,591	1,976	6,372	2,489	1,784	20,679	R 15,783	3,575	^R 51,138	NA
Average	R 2,182	2,060	2,636	1,874	5,578	2,168	1,722	20,034	R 15,350	3,407	R 48,719	R 79,709
		•	•			•	,	,	,	,	•	
2004 January	2,219	2,122	2,502	1,796	6,002	2,376	1,797	20,393	15,128	3,391	49,508	NA
February	2,301	2,159	2,677	1,903	6,203	2,247	1,866	20,549	15,788	3,523	50,611	NA
March	2,307	2,117	2,764	1,949	5,980	2,248	1,887	20,161	R 16,067	3,498	50,260	NA
April	2,307 R 2,246	2,094	2,643	1,831	5,184	2,041	1,993	20,207	R 15,794	3,369	R 48,841	NA
May	^2,188	1,778	2,340	1,787	4,803	1,972	1,794	20,209	R 14,476	3,435 R 2,470	R 47,083	NA
June	2,306	2,009	2,641	1,929	4,868	2,033 1.897	1,858	20,333	R 15,683	R 3,479	R 48,702 49.104	NA NA
July	2,249 2,259	2,051 2,046	2,687 2,607	1,965 1,880	5,201 5,460	1,897 2,116	1,780 1,853	20,601 20,349	15,666 15,510	3,490 3,455	49,104 49,148	NA NA
7-Mo. Avg	2,233	2,040	2,007	1,000	3,400	2,110	1,000	20,343	13,310	3,433	43,140	IVA
2003 7-Mo. Avg	2,156	2,050	2,626	1,868	5,651	2,150	1,724	19,874	15,244	3,393	48,467	NA
2002 7-Mo. Avg	2,050	1,997	2,682	1,892	5,293	2,101	1,769	19,690	15,169	3,265	47,568	NA
	•	-	•	•	-	•	•	•	•	-	•	

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

R=Revised. NA=Not available.

Germany.

b "OECD Europe" consists of Austria, Belgium, Czech Republic (beginning in 1993), Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Italy, Luxembourg, the Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

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

Territories.

 $^{^{\}rm d}$ The Organization for Economic Cooperation and Development (OECD) consists of Canada, Japan, the United States, "OECD Europe" and "Other OECD."

R=Revised. NA=Not available.

Notes: • Data through 1996 are final. Subsequent data are preliminary.

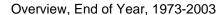
• Totals may not equal sum of components due to independent rounding.

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

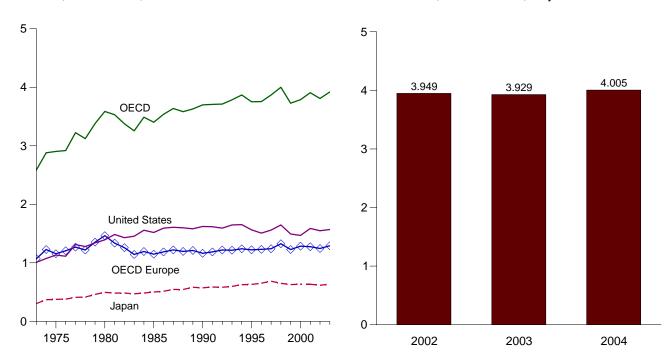
Web Page: http://www.eia.doe.gov/emeu/mer/inter.html.

Sources: • United States: Table 3.1a. • All Other Data: 1973-1981—International Energy Agency (IEA), Quarterly Oil Statistics and Energy Balances in OECD Countries, various issues. 1982-1983—IEA, Monthly Oil and Gas Statistics Database. 1984-2004—IEA, Monthly Oil Data Service, July 13, 2004.

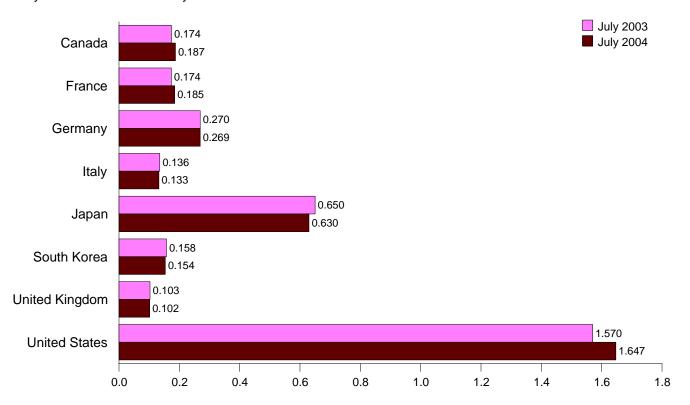
Figure 11.3 Petroleum Stocks in OECD Countries (Billion Barrels)



OECD Stocks, End of Month, July



By Selected OECD Country



Note: OECD is the Organization for Economic Cooperation and Development. Web Page: http://www.eia.doe.gov/emeu/mer/inter.html.

Source: Table 11.3.

Table 11.3 Petroleum Stocks in OECD Countries

(Million Barrels)

(1411)	illoit batt	CIO									
	Canada	France	Germanya	Italy	Japan	South Korea ^b	United Kingdom	United States	OECD Europe ^c	Other OECD ^d	OECDe
1973 Year	140	201	181	152	303	NA	156	1,008	1,070	67	2,588
1974 Year		249	213	167	370	NA	191	1,074	1,227	64	2,880
1975 Year		225	187	143	375	NA	165	1,133	1,154	67	2,903
1976 Year	153	234	208	143	380	NA	165	1,112	1,205	68	2,918
1977 Year	167	239	225	161	409	NA	148	1,312	1,268	68	3,224
1978 Year	144 150	201 226	238 272	154 163	413 460	NA NA	157 169	1,278	1,219	68 75	3,122 3.379
1979 Year 1980 Year		243	272 319	170	460 495	NA NA	168	1,341 1,392	1,353 1,464	75 72	3,379 3,587
1981 Year	161	214	297	167	482	NA NA	143	1,484	1,337	67	3,537
1982 Year	136	193	272	179	484	NA	125	1,430	1,258	68	3,376
1983 Year	121	153	249	149	470	NA	118	1,454	1,142	68	3,255
1984 Year	129	153	280	158	483	NA	129	1,556	1,193	112	3,488
1985 Year	112	139	277	156	500	NA	131	1,519	1,148	110	3,402
1986 Year	111 128	127 127	295 304	154 168	514 545	NA NA	133 133	1,593 1.607	1,186 1,221	113 115	3,538 3.637
1987 Year 1988 Year		140	303	155	543	NA NA	126	1,597	1,194	114	3,583
1989 Year	118	138	310	162	582	NA	131	1,581	1,211	114	3,629
1990 Year	143	143	265	143	572	NA	103	1,621	1,163	117	3,700
1991 Year	140	161	288	134	586	NA	109	1,617	1,185	113	3,707
1992 Year	127	157	311	149	582	NA	104	1,592	1,219	115	3,712
1993 Year		153	310	139	597	NA	109	1,647	1,215	115	3,785
1994 Year	142	153	314	143	625	NA	109	1,653	1,239	114	3,869
1995 Year 1996 Year	132 127	155 154	302 303	141 135	631 651	NA NA	101 103	1,563 1.507	1,222 1,229	113 118	3,753 3.756
1997 Year	144	161	299	147	685	124	100	1,560	1,229	115	3,869
1998 Year		161	323	135	649	129	104	1,647	1,325	111	4.000
1999 Year		160	290	130	629	132	101	1,493	1,227	105	3,727
2000 Year	144	170	272	140	634	140	100	1,468	1,285	117	3,788
2001 Year	156	165	273	134	634	143	116	1,586	1,275	112	3,906
2002 January	156	164	277	140	631	142	116	1,591	1,304	114	3,937
February	160	167	276	138	620	137	114	1,576	1,310	116	3,918
March		163	276	132	630	144	109	1,573	1,284	110	3,901
April	159	164	276	133	624	140	111	1,588	1,277	114	3,902
May	155 155	173 170	274 269	136 132	626	144 154	108	1,611	1,291	110 112	3,936 3.960
June July	159	169	269 264	132	634 633	154	116 116	1,616 1,611	1,289 1,283	112	3,960 3,949
August		171	264	142	633	152	108	1,596	1,281	123	3.948
September		174	259	136	627	149	107	1.574	1,261	115	3.889
October		176	254	140	628	150	113	1,573	1,282	111	3,906
November	159	170	253	143	616	149	113	1,578	1,260	114	3,876
December	155	175	253	138	615	140	105	1,548	1,244	105	3,809
2003 January	155	170	265	140	618	140	105	1,504	1,250	107	3,773
February		162	260	128	614	140	103	1,460	1,220	110	3,694
March	154	175	266	136	619	137	105	1,474	1,271	115	3,772
April		174	266	139	619	141	106	1,496	1,275	104	R 3,797
May	R 163	180	267	137	632	142	108	1,533	1,268	110	R 3,848
June	^R 168 174	173 174	268 270	135	647 650	152 158	101 103	1,560	1,265 1,272	107 103	R 3,899 3,929
July August		174	270 276	136 140	651	150	103	1,570 1,572	1,272	103	3,929 3.945
September	177	179	266	141	654	155	98	1,598	1,284	103	3,970
October	177	176	269	139	642	148	98	1,602	1,278	99	3,946
November		183	272	139	636	149	106	1,598	1,299	107	3,963
December	175	185	272	135	636	155	102	1,568	1,291	96	3,921
2004 January	171	183	277	132	631	143	105	1,552	1,309	99	3,904
February	_ 170	178	275	132	625	151	102	1,547	1,284	100	3,877
March	R 170	176	270	136	614	143	101	1,566	1,287	97	R 3,879
April	^R 171	181	267	134	612	148	98	1,574	1,272	108	R 3,885
May		186	270	131	625	146	98	1,600	R 1,288	104	R 3,933
June		184 185	267 269	^R 135 133	622 630	153 154	97 102	1,629 1,647	R 1,288 1,287	R 99 99	R 3,968 4,005
July	107	190	209	133	630	154	102	1,047	1,287	99	4,005

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. Petroleum stocks include all nonmilitary petroleum held for storage, regardless of ownership, within each country in bulk terminals, refinery tanks, pipeline tankage, intercoastal tankers, tankers in port, and inland ship bunkers. Data exclude oil held in pipelines (except for those in the United States), rail and truck cars, sea-going ships' bunkers, service stations, retail stores, and tankers asea. • 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. • Data through 1996 are final. Subsequent data are preliminary. • 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: http://www.eia.doe.gov/emeu/mer/inter.html.

Web Page: http://www.eia.doe.gov/emeu/mer/inter.html.
Sources: • United States: Table 3.1a. • All Other Data: International
Energy Agency, quarterly and monthly computer tapes supporting Quarterly Oil
Statistics and Energy Balances.

^a Through December 1990, the data for Germany are for the former West Germany only. Beginning with January 1991, the data for Germany are for the unified Germany, i.e., the former East Germany and West Germany.

^b Beginning in January 2002, data include previously confidential South Korean government-controlled oil stocks.

^c "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom, and, for 1997 forward, Czech Republic, Hungary, and Poland.

^d "Other OECD" consists of Australia, New Zealand, and the U.S. Territories, and, for 1997 forward, Mexico.

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

International Petroleum

Tables 11.1a and 11.1b Sources

United States: See Table 3.1a.

All Other Countries: Monthly Data

2002 forward: Energy Information Administration (EIA),

International Petroleum Monthly.

All Other Countries: Annual Data

1973–1979: Energy Information Administration (EIA),

International Energy Annual 1981, Table 8.

1980-2002: Office of Energy Markets and End Use,

International Energy Database, February 2004.

2003: Average of monthly data.

World: Monthly Data

2002 forward: EIA, *International Petroleum Monthly*, sum of all countries' monthly data.

World: Annual Data

1973–1979: EIA, *International Energy Annual 1981*, Table

1980–2002: Office of Energy Markets and End Use, International Energy Database, February 2004.

2003: Average of monthly data.

Appendix A. Thermal 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 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 **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	Natural Gasoline and Isopentane	4.620
Aviation Gasoline	5.048	Pentanes Plus	4.620
Butane	4.326	Petrochemical Feedstocks	
Butane-Propane Mixture ^a	4.130	Naptha Less Than 401°F	5.248
Distillate Fuel Oil	5.825	Other Oils Equal to or Greater Than 401°F	5.825
Ethane	3.082	Still Gas	6.000
Ethane-Propane Mixture ^b	3.308	Petroleum Coke	6.024
Isobutane	3.974	Plant Condensate	5.418
Jet Fuel, Kerosene Type	5.670	Propane	3.836
Jet Fuel, Naphtha Type	5.355	Residual Fuel Oil	6.287
Kerosene	5.670	Road Oil	6.636
Lubricants	6.065	Special Naphthas	5.248
Motor Gasoline		Still Gas	6.000
Conventional ^c	5.253	Unfinished Oils	5.825
Reformulated ^c	5.150	Unfractionated Stream	5.418
Oxygenated ^c	5.150	Waxes	5.537
Fuel Ethanold	3.539	Miscellaneous	5.796

^a 60 percent butane and 40 percent propane

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

^b 70 percent ethane and 30 percent propane

[°] See Table A3 for motor gasoline annual weighted averages beginning in 1994.

^d Fuel ethanol, which is derived from agricultural feedstocks (primarily corn), is not a petroleum product but is blended into motor gasoline. Its gross heat content (3.539 million Btu per barrel) is used in *Monthly Energy Review* calculations; its net heat content (3.192 million Btu per barrel) is used in the Energy Information Administration's *Renewable Energy Annual* calculations.

Web Page: http://www.eia.doe.gov/emeu/mer/append.html.

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

	Pro	duction		Imports			Exports	
	Crude Oil	Natural Gas Plant Liquids	Crude Oil	Petroleum Products	Total	Crude Oil	Petroleum Products	Total
1973	5.800	4.049	5.817	5.983	5.897	5.800	5.752	5.752
1974	5.800	4.011	5.827	5.959	5.884	5.800	5.773	5.774
1975	5.800	3.984	5.821	5.935	5.858	5.800	5.747	5.748
1976	5.800	3.964	5.808	5.980	5.856	5.800	5.743	5.745
1977	5.800	3.941	5.810	5.908	5.834	5.800	5.796	5.797
1978	5.800	3.925	5.802	5.955	5.839	5.800	5.814	5.808
1979	5.800	3.955	5.810	5.811	5.810	5.800	5.864	5.832
1980	5.800	3.914	5.812	5.748	5.796	5.800	5.841	5.820
1981	5.800	3.930	5.818	5.659	5.775	5.800	5.837	5.821
1982	5.800	3.872	5.826	5.664	5.775	5.800	5.829	5.820
983	5.800	3.839	5.825	5.677	5.774	5.800	5.800	5.800
984	5.800	3.812	5.823	5.613	5.745	5.800	5.867	5.850
985	5.800	3.815	5.832	5.572	5.736	5.800	5.819	5.814
986	5.800	3.797	5.903	5.624	5.808	5.800	5.839	5.832
1987	5.800	3.804	5.901	5.599	5.820	5.800	5.860	5.858
988	5.800	3.800	5.900	5.618	5.820	5.800	5.842	5.840
989	5.800	3.826	5.906	5.641	5.833	5.800	5.869	5.857
990	5.800	3.822	5.934	5.614	5.849	5.800	5.838	5.833
1991	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
1993	5.800	3.801	5.954	5.620	5.883	5.800	5.777	5.779
1994	5.800	3.794	5.950	5.534	5.861	5.800	5.777	5.779
1995	5.800	3.796	5.938	5.483	5.855	5.800	5.740	5.746
1996	5.800	3.777	5.947	5.468	5.847	5.800	5.728	5.736
1997	5.800	3.762	5.954	5.469	5.862	5.800	5.726	5.734
1998	5.800	3.769	5.953	5.462	5.861	5.800	5.710	5.720
999	5.800	3.744	5.942	5.421	5.840	5.800	5.684	5.699
2000	5.800	3.733	5.959	5.432	5.849	5.800	5.651	5.658
2001	5.800	3.735	5.976	5.443	5.862	5.800	5.751	5.752
2002	5.800	3.729	5.971	5.451	5.863	5.800	5.687	5.688
2003	5.800	3.739	5.970	5.438	5.857	5.800	5.739	5.740
2004 ^E	5.800	3.739	5.970	5.438	5.857	5.800	5.739	5.740

E=Estimate.

Note: Crude oil includes lease condensate.

Web Page: http://www.eia.doe.gov/emeu/mer/append.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A3. Approximate Heat Content of Petroleum Consumption

(Million Btu per Barrel)

	Total Petroleum ^a							
		End-Use	Sectors		Electric Power	Total	Liquefied Petroleum Gases	Motor
	Residential	Commercial	Industrial	Transportation	Sectorb			Gasoline
1973	5.205	5.749	5.568	5.395	6.245	5.515	3.746	5.253
1974	5.196	5.740	5.538	5.394	6.238	5.504	3.730	5.253
1975	5.192	5.704	5.528	5.392	6.250	5.494	3.715	5.253
1976	5.215	5.726	5.538	5.395	6.251	5.504	3.711	5.253
1977	5.213	5.733	5.555	5.400	6.249	5.518	3.677	5.253
1978	5.213	5.716	5.553	5.404	6.251	5.519	3.669	5.253
1979	5.298	5.769	5.418	5.428	6.258	5.494	3.680	5.253
1980	5.245	5.803	5.376	5.440	6.254	5.479	3.674	5.253
1981	5.191	5.751	5.313	5.432	6.258	5.448	3.643	5.253
1982	5.167	5.751	5.263	5.422	6.258	5.415	3.615	5.253
1983	5.022	5.642	5.273	5.415	6.255	5.406	3.614	5.253
1984	5.129	5.700	5.223	5.422	6.251	5.395	3.599	5.253
1985	5.115	5.660	5.221	5.423	6.247	5.387	3.603	5.253
1986	5.130	5.691	5.286	5.427	6.257	5.418	3.640	5.253
1987	5.095	5.659	5.253	5.430	6.249	5.403	3.659	5.253
1988	5.118	5.657	5.248	5.434	6.250	5.410	3.652	5.253
1989	5.057	5.619	5.234	5.440	^b 6.240	5.410	3.683	5.253
1990	4.950	5.617	5.272	5.444	6.244	5.411	3.625	5.253
1991	4.912	5.590	5.190	5.442	6.246	5.384	3.614	5.253
1992	4.942	5.577	5.188	5.445	6.238	5.378	3.624	5.253
1993	4.942	5.571	5.195	5.438	6.230	5.379	3.606	5.253
1994	4.936	5.580	5.165	5.426	6.213	5.361	3.635	^c 5.230
1995	4.925	5.546	5.133	5.419	6.188	5.341	3.623	5.215
1996	4.869	5.494	5.129	5.421	6.195	5.336	3.613	5.216
1997	4.870	5.459	5.133	5.417	6.199	5.336	3.616	5.213
1998	4.842	5.440	5.149	5.414	6.210	5.349	3.614	5.212
1999	4.749	5.349	5.105	5.415	6.205	5.328	3.616	5.211
2000	4.754	5.388	5.072	5.423	6.189	5.326	3.607	5.210
2001	4.824	5.422	5.120	5.421	6.199	5.345	3.614	5.210
2002	E4.824	E5.422	E5.120	E5.421	E6.173	5.324	3.613	5.208
2003	E4.824	E5.422	E5.120	E5.421	P6.181	5.340	3.629	5.207
2004	E4.824	E5.422	E5.120	E5.421	E6.181	E5.340	E3.629	E5.207

Note: Weighted averages of the products included in each category are calculated by using heat content values shown in Table A1.

Web Page: http://www.eia.doe.gov/emeu/mer/append.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

^a Petroleum products supplied, including natural gas plant liquids and crude oil burned directly as fuel.
^b Electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 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.

^c There is a discontinuity in this time series between 1993 and 1994; beginning in 1994, the single constant factor is replaced by a factor that is a quantity-weighted average of motor gasoline's major components. See Table A1.

P=Preliminary. E=Estimate.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Produ	ction		Consumptiona			
	Marketed	Dry	End-Use Sectors	Electric Power Sector ^b	Total	Imports	Exports
973	1,093	1,021	1,020	1,024	1,021	1,026	1,023
974	1.097	1,024	1.024	1.022	1.024	1.027	1,016
975	1,095	1,021	1,020	1,026	1,021	1,026	1,014
976	1.093	1.020	1.019	1.023	1.020	1.025	1,013
977	1,093	1,021	1,019	1,029	1,021	1,026	1,013
978	1,088	1,019	1.016	1,034	1,019	1,030	1,013
979	1,092	1,021	1,018	1,035	1,021	1,037	1,013
980	1,098	1,026	1.024	1,035	1,026	1,022	1,013
981	1,103	1.027	1.025	1,035	1,027	1,014	1,011
982	1.107	1,028	1.026	1,036	1,028	1,018	1.011
983	1,115	1,031	1,031	1,030	1,031	1,024	1,010
984	1,109	1,031	1,030	1,035	1,031	1,005	1,010
985	1,112	1,032	1,031	1,038	1,032	1,002	1,011
986	1,110	1,030	1,029	1,034	1,030	997	1,008
987	1.112	1.031	1.031	1.032	1.031	999	1,011
988	1,109	1,029	1,029	1,028	1,029	1,002	1,018
989	1,107	1,031	1,031	^b 1,028	1,031	1,004	1,019
990	1,105	1,029	1,030	1,027	1,029	1,012	1,018
991	1,108	1,030	1,031	1,025	1,030	1,014	1,022
992	1,110	1,030	1,031	1,025	1,030	1,011	1,018
993	1,106	1,027	1.028	1,025	1,027	1,020	1,016
994	1,105	1,028	1,029	1,025	1,028	1,022	1,011
995	1.106	1,026	1.027	1.021	1.026	1.021	1,011
996	1,109	1,026	1,027	1,020	1,026	1,022	1,011
997	1,107	1,026	1,027	1,020	1,026	1,023	1,011
998	1,109	1,031	1,033	1,024	1,031	1,023	1,011
999	1,107	1,027	1,028	1,022	1,027	1,022	1,006
000	1.107	1,025	1,026	1,021	1,025	1,023	1,006
001	1.105	1,030	1.031	1.026	1,030	1.023	1,010
002	1,107	1,028	1,030	1,020	1,028	1,022	1,008
003 ^P	1,106	1,028	1,029	1,025	1,028	1,023	1,008
004 ^E	1,106	1,028	1,029	1,025	1,028	1,023	1,008

a Consumption factors are for natural gas, plus a small amount of supplemental gaseous fuels that cannot be identified separately.

Web Page: http://www.eia.doe.gov/emeu/mer/append.html.

Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

b Electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers. P=Preliminary. E=Estimate.

Table A5. Approximate Heat Content of Coal and Coal Coke

(Million Btu per Short Ton)

		Coal							
			(Consumption					
		ı	End-Use Sectors]		
			Residential	Indus	strial	Electric			
	Production	and Commercial	Coke Plants	Other a	Power Sector ^b	Total	Imports	Exports	and Exports
1973	23.376	22.831	26.780	22.586	22.246	23.057	25.000	26.596	24.800
1974	23.072	22.479	26.778	22.419	21.781	22.677	25.000	26.700	24.800
1975	22.897	22.261	26.782	22.436	21.642	22.506	25.000	26.562	24.800
1976	22.855	22.774	26.781	22.530	21.679	22.498	25.000	26.601	24.800
1977	22.597	22.919	26.787	22.322	21.508	22.265	25.000	26.548	24.800
1978	22.248	22.466	26.789	22.207	21.275	22.017	25.000	26.478	24.800
1979	22.454	22.242	26.788	22.452	21.364	22.100	25.000	26.548	24.800
1980	22.415	22.543	26.790	22.690	21.295	21.947	25.000	26.384	24.800
1981	22.308	22.474	26.794	22.585	21.085	21.713	25.000	26.160	24.800
1982	22.239	22.695	26.797	22.712	21.194	21.674	25.000	26.223	24.800
1983	22.052	22.775	26.798	22.691	21.133	21.576	25.000	26.291	24.800
1984	22.010	22.844	26.799	22.543	21.101	21.573	25.000	26.402	24.800
1985	21.870	22.646	26.798	22.020	20.959	21.366	25.000	26.307	24.800
1986	21.913	22.947	26.798	22.198	21.084	21.462	25.000	26.292	24.800
1987	21.922	23.404	26.799	22.381	21.136	21.517	25.000	26.291	24.800
1988	21.823	23.571	26.799	22.360	20.900	21.317	25.000	26.299	24.800
1989	21.765	23.650	26.800	22.347	b20.898	21.307	25.000	26.160	24.800
1990	21.822	23.137	26.799	22.457	20.779	21.197	25.000	26.202	24.800
1991	21.681	23.114	26.799	22.460	20.779	21.120	25.000	26.188	24.800
1992	21.682	23.114	26.799	22.250	20.709	21.120	25.000	26.161	24.800
1993	21.418	22.994	26.800	22.123	20.709	21.000	25.000	26.335	24.800
1994	21.394	23.112	26.800	22.123	20.589	20.929	25.000	26.329	24.800
1995	21.326	23.112	26.800	21.950	20.543	20.880	25.000	26.329	24.800
1996	21.322	23.116	26.800	22.105	20.543	20.870	25.000	26.174	24.800
	21.296	22.494	26.800	22.103	20.547	20.830	25.000	26.251	24.800
1997									
1998	21.418	21.620	27.426	23.164	20.516	20.881	25.000	26.800	24.800
1999	21.070	23.880	27.426	22.489	20.490	20.818	25.000	26.081	24.800
2000	21.072	25.020	27.426	22.433	20.511	20.828	25.000	26.117	24.800
2001	20.865	24.909	27.426	23.209	20.337	20.707	25.000	25.998	24.800
2002	20.742	22.962	27.426	23.793	20.238	20.612	25.000	26.062	24.800
2003 ^P	20.861	24.916	27.425	23.941	20.381	20.754	25.000	25.972	24.800
2004 ^E	20.861	24.916	27.425	23.941	20.381	20.754	25.000	25.972	24.800

^a Includes transportation.

Web Page: http://www.eia.doe.gov/emeu/mer/append.html.
Sources: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

b Electricity-only and combined-heat-and-power (CHP) plants within the NAICS (North American Industry Classification System) 22 category whose primary business is to sell electricity, or electricity and heat, to the public. Through 1988, data are for electric utilities only; beginning in 1989, data are for electric utilities and independent power producers.
P=Preliminary. E=Estimate.

Table A6. Approximate Heat Rates for Electricity

(Btu per Kilowatthour)

		Electricity Net Generation	n	
	Fossil-Fueled Plants ^{a,b}	Nuclear Plants ^c	Geothermal Energy Plants ^d	Electricity Consumption ⁶
73	10,389	10,903	21,674	3,412
74	10.442	11.161	21.674	3.412
75	10,406	11.013	21.611	3,412
76	10,373	11,047	21,611	3,412
7	10,435	10.769	21,611	3,412
8	10,361	10,941	21,611	3,412
9	10,353	10,879	21.545	3,412
0	10,388	10,908	21,639	3,412
11	10,453	11,030	21,639	3,412
32	10,454	11,073	21,629	3,412
3	10,520	10,905	21,290	3,412
34	10,440	10,843	21,303	3,412
5	10,447	10,622	21,263	3,412
66	10.446	10.579	21.263	3,412
7	10,419	10,442	21,263	3,412
88	10.324	10.602	21.096	3,412
9	10,432	10,583	21,096	3,412
0	10,402	10,582	21,096	3,412
1	10,436	10,484	20,997	3,412
02	10,342	10.471	20.914	3,412
93	10,309	10,504	20,914	3,412
94	10,316	10.452	20.914	3,412
95	10,312	10,507	20,914	3,412
96	10,340	10.503	20.960	3,412
97	10,213	10,494	20,960	3,412
98	10,197	10,491	21,017	3,412
99	10,226	10,450	21,017	3,412
00	10,201	10.429	21.017	3,412
01	10,146	10,448	21,017	3,412
)2	P10,119	10.439	21.017	3,412
03	P10.107	P10,439	P21,017	3,412
)4	E 10.107	E 10,439	E 21,017	3,412

a Through 2000, used as the thermal conversion factor for wood and waste electricity net generation at electric utilities. For all years, used as the thermal conversion factor for hydroelectric, solar, and wind electricity net generation.

Sources: See "Thermal Conversion Factor Source Documentation," which follows this table.

b Through 2000, heat rates are for fossil-fueled steam-electric plants at electric utilities. For 2001 and 2002, heat rates are for fossil-fueled steam-electric plants at electric utilities and independent power producers. For 2003 forward, heat rates are for all fossil-fueled plants at electric utilities and independent power producers.

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

d Used as the thermal conversion factor for geothermal electricity net generation.

e Used as the thermal conversion factor for electricity retail sales, and electricity imports and exports.

P=Preliminary. E=Estimate.

Web Page: http://www.eia.doe.gov/emeu/mer/append.html.

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The 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**.

Fuel Ethanol (Blended Into Motor Gasoline). 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.

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 (Blended Into Motor Gasoline).

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.doe.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Electric Power Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the electric power sector weighted by the quantities consumed by the electric power sector. Data are from Form EIA-860, "Annual Electric Generator Report"; Form EIA-906, "Power Plant 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.doe.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Residential Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential sector weighted by the estimated quantities consumed by the residential sector. The quantities of petroleum products consumed by the residential sector are estimated in the State Energy Data System—see documentation at http://www.eia.doe.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Consumption, Total. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed weighted by the quantities consumed.

Petroleum Consumption, Transportation Sector. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the transportation sector weighted by the estimated quantities consumed by the transportation sector. The quantities of petroleum products consumed by the transportation sector are estimated in the State Energy Data System—see documentation at http://www.eia.doe.gov/emeu/states/sep_use/notes/use_petrol.pdf.

Petroleum Products Exports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported weighted by the quantities exported.

Petroleum Products Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported weighted by the quantities imported.

Plant Condensate. Estimated to be 5.418 million Btu per barrel by EIA from data provided by McClanahan Consultants, Inc., Houston, Texas.

Propane. EIA adopted the Bureau of Mines thermal conversion factor of 3.836 million Btu per barrel as published in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Residual Fuel Oil. EIA adopted the thermal conversion factor of 6.287 million Btu per barrel as reported in the Bureau of Mines internal memorandum, "Bureau of Mines Standard Average Heating Values of Various Fuels, Adopted January 3, 1950."

Road Oil. EIA adopted the Bureau of Mines thermal conversion factor of 6.636 million Btu per barrel, which was assumed to be equal to that of asphalt (see **Asphalt**) and was first published by the Bureau of Mines in the *Petroleum Statement, Annual, 1970*.

Special Naphthas. EIA adopted the Bureau of Mines thermal conversion factor of 5.248 million Btu per barrel, which was assumed to be equal to that of the total gasoline (aviation and motor) factor and was first published in the *Petroleum Statement, Annual, 1970*.

Still Gas. EIA adopted the Bureau of Mines estimated thermal conversion factor of 6.000 million Btu per barrel, first published in the *Petroleum Statement*, *Annual*, 1970.

Total Petroleum Exports. Calculated annually by EIA as the average of the thermal conversion factors for crude oil and each petroleum product exported weighted by the quantities exported. See **Crude Oil Exports** and **Petroleum Products Exports**.

Total Petroleum Imports. Calculated annually by EIA as the average of the thermal conversion factors for each type of crude oil and petroleum product imported weighted by the quantities imported. See **Crude Oil Imports** and **Petroleum Products Imports**.

Unfinished Oils. EIA assumed the thermal conversion factor to be 5.825 million Btu per barrel or equal to that for distillate fuel oil (see **Distillate Fuel Oil**) and first published it in EIA's *Annual Report to Congress, Volume 3*, 1977.

Unfractionated Stream. EIA assumed the thermal conversion factor to be 5.418 million Btu per barrel or equal to that for plant condensate (see **Plant Condensate**) and first published it in EIA's *Annual Report to Congress, Volume 2*, 1981.

Waxes. EIA adopted the thermal conversion factor of 5.537 million Btu per barrel as estimated by the Bureau of Mines and first published in the *Petroleum Statement*, *Annual*, 1956.

Approximate Heat Content of 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-860, "Annual Electric Generator Report"; Form EIA-906, "Power Plant 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-860, "Annual Electric Generator Report"; Form EIA-906, "Power Plant Report"; and predecessor forms.

Coal Consumption, End-Use Sectors. Calculated annually by EIA by dividing the heat content of coal consumed by the end-use sectors (residential, commercial, industrial, and transportation) by the quantity consumed.

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-860, "Annual Electric Generator Report"; and Form EIA-906, "Power Plant Report."

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).

Approximate Heat Rates for Electricity

Electricity Net Generation, Fossil-Fueled Plants. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydro, wind, photovoltaic, or solar thermal energy sources. Therefore, EIA calculates a rate factor that is equal to the prevailing annual average heat rate factor for fossilfueled power plants in the United States. By using that factor, it is possible to evaluate fossil fuel requirements for replacing those sources during periods of interruption, such as droughts. The heat content of a kilowatthour of electricity produced, regardless of the generation process, is 3,412 Btu. 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 forward: Calculated annually by EIA by using the heat rate reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and the generation on Form EIA-906, "Power Plant Report."

Electricity Net Generation, Geothermal Energy Plants. 1973–1981: Calculated annually by EIA by weighting the annual average heat rates of operating geothermal units by the installed nameplate capacities as reported on Form FPC-12, "Power System Statement." 1982 forward: Estimated annually by EIA on the basis of an informal survey of relevant plants.

Electricity Net Generation, Nuclear Plants. 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 reported on Form EIA-860, "Annual Electric Generator Report" (and predecessor forms); and the generation reported on Form EIA-906, "Power Plant Report."

Appendix B. Metric and Other Physical Conversion Factors

Data presented in the *Monthly Energy Review* and in other Energy Information Administration publications are expressed predominately in units that historically have been used in the United States, such as British thermal units, barrels, cubic feet, and short tons. However, because U.S. commerce involves other nations, most of which use metric units of measure, the U.S. Government is committed to the transition to the metric system, as stated in the Metric Conversion Act of 1975 (Public Law 94–168), amended by the Omnibus Trade and Competitiveness Act of 1988 (Public Law 100–418), and Executive Order 12770 of July 25, 1991.

The metric conversion factors presented in Table B1 can be used to calculate the metric-unit equivalents of values expressed in U.S. customary units. For example, 500 short tons are the equivalent of 453.6 metric tons (500 short tons x 0.9071847 metric tons/short ton = 453.6 metric tons).

In the metric system of weights and measures, the names of multiples and subdivisions of any unit may be derived by combining the name of the unit with prefixes, such as deka, hecto, and kilo, meaning, respectively, 10, 100, 1,000, and deci, centi, and milli, meaning, respectively, one-tenth, one-hundredth, and one-thousandth. Common metric prefixes can be found in Table B2.

The conversion factors presented in Table B3 can be used to calculate equivalents in various physical units commonly used in energy analyses. For example, 10 barrels are the equivalent of 420 U.S. gallons (10 barrels x 42 gallons/barrel = 420 gallons).

Table B1. Metric Conversion Factors

Type of Unit	U.S. Unit		Equivalent in	Metric Units
Mass	1 short ton (2,000 lb)	=	0.907 184 7	metric tons (t)
	1 long ton	=	1.016 047	metric tons (t)
	1 pound (lb)	=	0.453 592 37ª	kilograms (kg)
	1 pound uranium oxide (lb U ₃ O ₈)	=	0.384 647 ^b	kilograms uranium (kgU)
	1 ounce, avoirdupois (avdp oz)	=	28.349 52	grams (g)
Volume	1 barrel of oil (bbl)	=	0.158 987 3	cubic meters (m³)
	1 cubic yard (yd³)	=	0.764 555	cubic meters (m³)
	1 cubic foot (ft ³)	=	0.028 316 85	cubic meters (m³)
	1 U.S. gallon (gal)	=	3.785 412	liters (L)
	1 ounce, fluid (fl oz)	=	29.573 53	milliliters (mL)
	1 cubic inch (in³)	=	16.387 06	milliliters (mL)
Length	1 mile (mi)	=	1.609 344ª	kilometers (km)
	1 yard (yd)	=	0.914 4 ^a	meters (m)
	1 foot (ft)	=	0.304 8 ^a	meters (m)
	1 inch (in)	=	2.54ª	centimeters (cm)
Area	1 acre	=	0.404 69	hectares (ha)
	1 square mile (mi ²)	=	2.589 988	square kilometers (km²)
	1 square yard (yd²)	=	0.836 127 4	square meters (m²)
	1 square foot (ft²)	=	0.092 903 04°	square meters (m²)
	1 square inch (in²)	=	6.451 6ª	square centimeters (cm ²)
Energy	1 British thermal unit (Btu) ^c	=	1,055.055 852 62ª	joules (J)
	1 calorie (cal)	=	4.186 8 ^a	joules (J)
	1 kilowatthour (kWh)	=	3.6ª	megajoules (MJ)
Temperature ^d	32 degrees Fahrenheit (°F)	=	O ^a	degrees Celsius (°C)
-	212 degrees Fahrenheit (°F)	=	100 ^a	degrees Celsius (°C)

^aExact conversion.

^bCalculated by the Energy Information Administration.

^cThe Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. ^dTo convert degrees Fahrenheit (°F) to degrees Celsius (°C) exactly, subtract 32, then multiply by 5/9.

Notes: • Spaces have been inserted after every third digit to the right of the decimal for ease of reading. • Most metric units belong to the International System of Units (SI), and the liter, hectare, and metric ton are accepted for use with the SI units. For more information about the SI units, see http://physics.nist.gov/cuu/Units/index.html.

Web Page: http://www.eia.doe.gov/emeu/mer/append.html.

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.

Table B2. Metric Prefixes

Unit Multiple	Prefix	Symbol	Unit Subdivision	Prefix	Symbol
10¹	deka	da	10 ⁻¹	deci	d
10 ²	hecto	h	10 ⁻²	centi	С
10 ³	kilo	k	10 ⁻³	milli	m
10 ⁶	mega	M	10 ⁻⁶	micro	μ
10 ⁹	giga	G	10 ⁻⁹	nano	n
10 ¹²	tera	Т	10 ⁻¹²	pico	р
10 ¹⁵	peta	Р	10 ⁻¹⁵	femto	f
10 ¹⁸	exa	Е	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	z
10 ²⁴	yotta	Υ	10 ⁻²⁴	yocto	у

Web Page: http://www.eia.doe.gov/emeu/mer/append.html.

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		Equiva	lent 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)	=	128 ^a	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 Energy Information Administration.

Web Page: http://www.eia.doe.gov/emeu/mer/append.html.

Appendix C. List of Energy Plugs

Energy Plugs are synopses of products that have been released recently by the Energy Information Administration. They appear on a regular basis at the front of the *Monthly Energy Review*. Following is a list of the Energy Plug titles that have been published over the past few years. For a

complete list of all features that have appeared in the *Monthly Energy Review* since the first article was published in March 1975, go the Energy Plug web site at: http://www.eia.doe.gov/emeu/plugs/plugsrgt.html.

Title	Cover Date
2004	
Annual Energy Outlook 2004.	January 2004
Natural Gas Annual 2002.	
Analysis of Restricted Natural Gas Supply Cases	•
Performance Profiles of Major Energy Producers 2002	
International Energy Outlook 2004.	
Biodiesel Performance, Costs, and Use	
State Renewable Energy Requirements and Goals	-
Annual Energy Review 2003.	
U.S. Natural Gas Pipeline and Underground Storage Expansions in 2003	October 2004
2003	
Annual Energy Outlook 2003	
Performance Profiles of Major Energy Producers 2001	
Voluntary Reporting of Greenhouse Gases 2001	
Electric Power Annual 2001	
International Energy Outlook 2003	•
Uranium Industry Annual 2002	June 2003
Residential Energy Consumption Special Topics	
New Reactor Designs	. August 2003
Foreign Direct Investment in U.S. Energy in 2001	
Annual Energy Review 2002	October 2003
Annual Coal Report 2002	November 2003
Renewable Energy Annual 2002	. December 2003
2002	
Performance Profiles of Major Energy Producers 2000	
Voluntary Reporting of Greenhouse Gases 2000	February 2002
Analysis of Corporate Average Fuel Economy Standards for Light Trucks and Increased	
Alternative Fuel Use	
Summer 2002 Motor Gasoline Outlook	
International Energy Outlook 2002	•
Weekly Natural Gas Storage Report	
International Energy Annual 2000	
Delivered Energy Consumption Projections by Industry	. June 2002
Uranium Industry Annual 2001	
Biomass for Electricity Generation	•
Measuring Changes in Energy Efficiency	
Foreign Direct Investment in U.S. Energy in 2000	. August 2002
U.S. Natural Gas Markets: Relationship Between Henry Hub Spot Prices and	
U.S. Wellhead Prices	
Diesel Fuel Price Pass-through	September 2002

2002 (Continued) Winter Fuels Outlook: 2002-2003. Annual Energy Review 2001. Renewable Energy Annual 2001.	November 2002
Energy Education Resources. Impact of Interruptible Natural Gas Service on Northeast Heating Oil Demand. Performance Profiles of Major Energy Producers 1999. Renewable Energy 2000: Issues and Trends. Summer 2001 Motor Gasoline Outlook. International Energy Outlook 2001. State Energy Data Report 1999: Consumption Estimates. The Transition to Ultra-Low-Sulfur Diesel Fuel: Effects on Prices and Supply. Energy Market Maps. Coal Industry Annual 1999. Annual Energy Review 2000. World Energy "Areas To Watch". Electric Power Annual 2000, Volume I. Winter Fuels Outlook: 2001-2002. Fuel Oil and Kerosene Sales 2000. The Majors' Shift to Natural Gas. Annual Energy Outlook 2002, Early Release. Emissions of Greenhouse Gases in the United States 2000. State Energy Price and Expenditure Report 1999. Energy Education Resources. U.S. Natural Gas Markets: Mid-Term Prospects for Natural Gas Supply.	February 2001 February 2001 February 2001 March 2001 April 2001 April 2001 May 2001 May 2001 June 2001 July 2001 August 2001 August 2001 Cotober 2001 October 2001 November 2001 November 2001 November 2001 December 2001
2000 Inventory of Nonutility Electric Power Plants in the United States 1998	. January 2000
	January 2000 February 2000 February 2000 March 2000 March 2000 April 2000
Inventory of Nonutility Electric Power Plants in the United States 1998. The Changing Structure of the Electric Power Industry 1999: Mergers and Other Corporate Combinations. International Energy Annual 1998. Performance Profiles of Major Energy Producers 1998. OPEC Revenues Fact Sheet. Country Analysis Brief: Iran. International Energy Outlook 2000. Outlook for Biomass Ethanol Production and Demand. Summer 2000 Motor Gasoline Outlook. State Energy Price and Expenditure Report 1997. Energy Consumption and Renewable Energy Development Potential on Indian Lands. Annual Energy Review 1999. A Primer on Gasoline Prices. Long-Term World Oil Supply: A Resource Base/Production Path Analysis.	January 2000 February 2000 February 2000 March 2000 March 2000 April 2000 April 2000 June 2000 June 2000 July 2000 August 2000 August 2000 August 2000
Inventory of Nonutility Electric Power Plants in the United States 1998. The Changing Structure of the Electric Power Industry 1999: Mergers and Other Corporate Combinations. International Energy Annual 1998. Performance Profiles of Major Energy Producers 1998. OPEC Revenues Fact Sheet. Country Analysis Brief: Iran. International Energy Outlook 2000. Outlook for Biomass Ethanol Production and Demand. Summer 2000 Motor Gasoline Outlook. State Energy Price and Expenditure Report 1997. Energy Consumption and Renewable Energy Development Potential on Indian Lands. Annual Energy Review 1999. A Primer on Gasoline Prices.	January 2000 February 2000 February 2000 March 2000 March 2000 April 2000 April 2000 June 2000 June 2000 July 2000 August 2000 August 2000 September 2000 Cotober 2000 Cotober 2000 Cotober 2000

Glossary

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.

Black Liquor (Pulping Liquor): The alkaline spent liquor removed from the digesters in the process of chemically pulping wood. After evaporation, the 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 of a Quantity of Fuel, Gross and Heat Content of a Quantity of Fuel, Net.

Butane: A normally gaseous straight-chain or branched-chain hydrocarbon (C_4H_{10}). It is extracted from natural gas or refinery gas streams. It includes isobutane and normal butane and is designated in ASTM Specification D1835 and Gas Processors Association Specifications for commercial butane.

Isobutane: A normally gaseous branched-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams.

Normal Butane: A normally gaseous straight-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 31.1° F. It is extracted from natural gas or refinery gas streams.

Butylene: An olefinic hydrocarbon (C₄H₈) recovered from refinery processes.

Capacity Factor: The ratio of the electrical energy produced by a generating unit for a given period of time to the electrical energy that could have been produced at continuous full-power operation during the same period.

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.

City Gate: A point or measuring station at which a distribution gas utility receives gas from a natural gas pipeline company or transmission system.

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.

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.

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 above-mentioned commercial establishments.

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.

Constant Dollars: See Chained Dollars.

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 number that translates units of one system into corresponding values of another system. Conversion factors can be used to translate physical units of measure for various fuels into Btu equivalents. See British Thermal Unit.

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, 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

Degree-Days, Population-Weighted: Heating or cooling degree-days weighted by the population of the area in which the degree-days are recorded. To compute State population-weighted degree-days, each State is divided into from one to

nine climatically homogeneous divisions, which are assigned weights based on the ratio of the population of the division to the total population of the State. Degree-day readings for each division are multiplied by the corresponding population weight for each division and those products are then summed to arrive at the State population-weighted degree-day figure. To compute national population-weighted degree-days, the Nation is divided into nine Census regions, each comprising from three to eight States, which are assigned weights based on the ratio of the population of the region to the total population of the Nation. Degree-day readings for each region are multiplied by the corresponding population weight for each region and those products are then summed to arrive at the national population-weighted degree-day figure.

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.

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 electric power 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**.

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 the electrical 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 Celectricity 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.

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: A corporation, person, agency, authority, or other legal entity or instrumentality aligned with distribution facilities for delivery of electric energy for use primarily by the public. Included are investor-owned electric utilities, municipal and State utilities, Federal electric utilities, and rural electric cooperatives. A few entities that are tariff based and corporately aligned with companies that own distribution facilities are also included. Note: Due to the issuance of FERC Order 888 that required traditional electric utilities to functionally unbundle their generation, transmission, and distribution operations, "electric utility" currently has inconsistent interpretations from State to State.

End-Use Sectors: The residential, commercial, industrial, and transportation sectors of the economy.

Energy: The capacity for doing work as measured by the capability of doing work (potential energy) or the conversion of this capability to motion (kinetic energy). Energy has several forms, some of which are easily convertible and can be changed to another form useful for work. Most of the world's convertible energy comes from fossil fuels that are burned to produce heat that is then used as a transfer medium to mechanical or other

means in order to accomplish tasks. Electrical energy is usually measured in kilowatthours, while heat energy is usually measured in British thermal units.

Energy Consumption: The use of energy as a source of heat or power or as an input in the manufacturing process.

Energy Service Provider: An energy entity that provides service to a retail or end-use customer.

Energy-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and analyze energy use. The sectors most commonly referred to in EIA are: **residential**, **commercial**, **industrial**, **transportation**, and **electric power**.

Ethane: A normally gaseous straight-chain hydrocarbon (C₂H₆). It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethanol: An anhydrous denatured aliphatic alcohol intended for gasoline blending. See Oxygenates.

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 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 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 Department of Energy was created. Its functions were divided between the Department of Energy and the Federal Energy Regulatory Commission, an independent regulatory agency.

First Purchase Price: The marketed first sales price of domestic crude oil, consistent with the removal price defined by the provisions of the Windfall Profits Tax on Domestic Crude Oil (Public Law 96-223, Sec. 4998 (c)).

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 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: An anhydrous, denatured aliphatic alcohol (C_2H_5OH) intended for motor gasoline blending. See **Oxygenates**.

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.

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 of a Quantity of Fuel, Gross: The total amount of heat released when a fuel is burned. Coal, crude oil, and natural gas all include chemical compounds of carbon and hydrogen. When those fuels are burned, the carbon and hydrogen combine with oxygen in the air to produce carbon dioxide and water. Some of the energy released in burning goes into transforming the water into steam and is usually lost. The amount of heat spent in transforming the water into steam is counted as part of gross heat content but is not counted as part of net heat content. It is also referred to as the higher heating value. Btu conversion factors typically used in EIA represent gross heat content.

Heat Content of a Quantity of Fuel, Net: The amount of usable heat energy released when a fuel is burned under conditions similar to those in which it is normally used. Also referred to as the lower heating value. Btu conversion factors typically used in EIA represent gross heat content.

Heavy Oil: The fuel oils remaining after the lighter oils have been distilled off during the refining process. Except for start-up and flame stabilization, virtually all petroleum used in steam-electric power plants is heavy oil.

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.

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 (North American Industry Classification System) codes 31-33); agriculture, forestry, fishing and hunting (NAICS code 11); mining, including oil and gas extraction (NAICS code 21); natural gas distribution (NAICS code 2212); 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.

Injections (Natural Gas): Natural gas injected into storage reservoirs.

Isobutane: A normally gaseous branch-chain hydrocarbon. It is a colorless paraffinic gas that boils at a temperature of 10.9° F. It is extracted from natural gas or refinery gas streams. See **Butane**.

Isobutylene: An olefinic hydrocarbon recovered from refinery processes or petrochemical processes.

Isopentane: A saturated branched-chain hydrocarbon obtained by fractionation of natural gasoline or isomerization of normal pentane.

Jet Fuel: A refined petroleum product used in jet aircraft engines. It includes kerosene-type jet fuel and naphtha-type jet fuel.

Jet Fuel, Kerosene-Type: A kerosene-based product with a maximum distillation temperature of 400° F at the 10-percent recovery point and a final maximum boiling point of 572° F. Fuel specifications are provided in ASTM Specification D 1655 and Military Specifications MIL-T-5624P and MIL-T-83133D (Grades JP-5 and JP-8). It is

used primarily for commercial turbojet and turboprop aircraft engines.

Jet Fuel, Naphtha-Type: A fuel in the heavy naphtha boiling range, with an average gravity of 52.8 degrees API, 20 to 90 percent distillation temperatures of 290° to 470° F and meeting Military Specification MIL-T-5624L (Grade JP-4). It is used by the military for turbojet and turboprop engines.

Kerosene: A petroleum distillate having a maximum distillation temperature of 401° F at the 10-percent recovery point, a final boiling point of 572° F, and a minimum flash point of 100° F. Included are the two grades designated in ASTM D3699 (No. 1-K and No. 2-K) and all grades of kerosene called range or stove oil. Kerosene is used in space heaters, cook stoves, and water heaters; it is suitable for use as an illuminant when burned in wick lamps.

Kilowatt: A unit of electrical power equal to 1,000 watts.

Kilowatthour (**kWh**): A measure of electricity defined as a unit of work or energy, measured as 1 **kilowatt** (1,000 **watts**) of power expended for 1 hour. One kilowatthour is equivalent to 3,412 Btu. See **Watthour**.

Landed Costs: The dollar-per-barrel price of crude oil at the port of discharge. Included are the charges associated with the purchase, transporting, and insuring of a cargo from the purchase point to the port of discharge. Not included are charges incurred at the discharge port (e.g., import tariffs or fees, wharfage charges, and demurrage charges).

Lease and Plant Fuel: Natural gas used in well, field, and lease operations (such as gas used in drilling operations, heaters, dehydrators, and field compressors) and used as fuel in natural gas processing plants.

Lease Condensate: A mixture consisting primarily of pentanes and heavier hydrocarbons, which is recovered as a liquid from natural gas in lease or field separation facilities. Note: This category excludes natural gas liquids, such as butane and propane, which are recovered at natural gas processing plants or facilities.

Light Oil: Lighter fuel oils distilled off during the refining process. Virtually all petroleum used in internal combustion and gas-turbine engines is light oil.

Lignite: The lowest rank of coal. Often referred to as brown coal, it is 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 ton on a moist, mineral-matter-free basis. The heat content of lignite consumed in the United States

averages 14 million Btu per 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 hydroge 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/epcd/www/naics.html).

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. 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.

Nonhydrocarbon Gases: Typical nonhydrocarbon gases that may be present in reservoir natural gas are carbon dioxide, helium, hydrogen sulfide, and nitrogen.

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.

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.

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): Members are Australia, Austria, Belgium, Canada, Denmark, Faeroe Islands, Finland, France, Germany, Greece, Greenland, Hawaiian Trade Zone, Iceland, Ireland, Italy, Japan, Luxembourg, Mexico, Netherlands, New Zealand, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, United Kingdom, and United States

and its territories (Guam, Puerto Rico, and the Virgin Islands). In addition, Czech Republic, Hungary, Poland, and South Korea joined the OECD in 1996.

Organization of Petroleum Exporting Countries (OPEC): Countries that have organized for the purpose of negotiating with oil companies on matters of oil production, prices, and future concession rights. Current members are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

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: The sum of all refined petroleum products supplied. For each refined petroleum product, the amount supplied is calculated by adding production and imports, then subtracting changes in primary stocks (net withdrawals are a plus quantity and net additions are a minus quantity) and exports.

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 Products Supplied: Same as **Petroleum Consumption**.

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.

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.

Primary Consumption: Includes consumption of coal, natural gas, petroleum, nuclear electric power, hydroelectric power, wood, waste, alcohol fuels, geothermal, solar, wind, net imports of coal coke, and net imports of electricity.

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.

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 (Petroleum): An installation that manufactures finished petroleum products from crude oil, unfinished oils, natural gas liquids, other hydrocarbons, and alcohol.

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, wood, waste, alcohol fuels, 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. For further explanation see

http://www.eia.doe.gov/neic/datadefinitions/Guideforwebres.htm.

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 steampowered 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.

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.

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 petroleum hydrocarbons that may easily be substituted for or interchanged with pipelinequality natural gas.

Thermal Conversion Factor: See Conversion Factor.

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 further information For see coverage. http://www.eia.doe.gov/neic/datadefinitions/Guideforwebtrans.htm.

Unaccounted-for Crude Oil: Represents the arithmetic difference between the calculated supply and the calculated disposition of crude oil. The calculated supply is the sum of crude oil production and imports minus changes in crude oil stocks. The calculated disposition of crude oil is the sum of crude oil input to refineries, crude oil exports, crude oil burned as fuel, and crude oil losses.

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.

Underground Storage: The storage of natural gas in underground reservoirs at a different location from which it was produced.

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.: The Union of Soviet Socialist Republics consisted of 15 constituent republics: Armenia, Azerbaijan,

Belarus, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Moldova, Russia, Tajikistan, Turkmenistan, Ukraine, and Uzbekistan. As a political entity, the U.S.S.R. ceased to exist as of December 31, 1991.

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 Energy: Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile waste, tall oil, waste alcohol,

medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw used as fuel.

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 Energy: Wood and wood products used as fuel, including round wood (cord wood), limb wood, wood chips, bark, sawdust, forest residues, charcoal, pulp waste, and spent pulping liquor.

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.

ENERGY KID'S PAGE

energy information administration

Everybody needs energy, especially kids. How else can you listen to music, go online, get where you're going, or stay warm when the mercury plunges? Energy is a hot topic these days, and it's important to know more about it. So the Energy Information Administration (EIA) created the **Energy Kid's Page**, a special Web site where youngsters can learn about energy—and have fun while they're at it.

energy facts

For a homework project or just out of curiosity, the Kid's Page is the place for **Energy Facts**. You'll find information about energy science and answers to questions like:

- **★** What is energy?
- **★** Where does it come from?
- ★ What are the sources of renewable energy?
- **★** What are the advantages of each type of energy?
- **★** Why is hydrogen important?
- **★** Is it true that you can get energy from ocean tides?

The Kid's Page isn't just about facts, it's also about fun. In **Fun & Games**, young people learn while they:

- do crossword puzzles;
- master energy slang (guess what a "cat cracker" is...);
- ▶ follow Energy Ant as he reports from cool energy sites all over the country;
- color in the Energy Ant coloring book;
- ▶ test their energy knowledge with Energy Ant's quiz.

energy history Energy History has timelines and milestones in the history of energy. You'll also find "Did You Know?", a collection of information that brings energy facts to life, as well as brief biographies

fun &

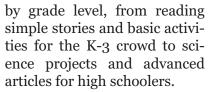
games

of famous people like Marie Curie, Thomas Edison, Nikola Tesla, and Albert Einstein.

Classroom Activities presents ideas and activities that can be used in school:

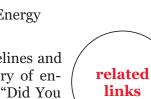
classroom activities

Teachers and Students features exploration activities



- Science Fair Experiments offers instructors a guide to teaching students the scientific method, with an emphasis on energy-related science fair projects. This area is linked to a Web site that has suggestions and instructions for science fair projects.
- ► Energy News has interesting short articles on topics like "Energy Efficiency and the Internet," "French Fries for Fuel," and "Cape Cod Wind Project."
- Related Materials takes you to a lot more energy information, and Related Links provides an extensive list of resources on other Web sites. And finally, there is a glossary

of energy terms.



Note to Educators: See also EIA's updated $Energy\ Education\ Resources$: $Kindergarten\ Through\ 12^{th}\ Grade$ at www.eia.doe.gov/bookshelf/eer/kiddietoc.html.

Did you know? When natural gas is burned, it produces mostly carbon dioxide and water vapor. These are the same substances emitted when people breathe.

Petroleum Marketing Annual

Monthly and annual sales volumes and prices for crude oil and a selection of petroleum products by State and Petroleum Administration for Defense (PAD) Districts.

Petroleum Marketing Monthly

Prices and volumes by type of sale for crude oil and refined petroleum products. Includes a brief review of significant factors affecting petroleum markets.

Petroleum Supply Annual

Two-volume report containing information on the supply and disposition of crude oil and petroleum products. Includes data on crude oil production; natural gas processing; refinery operations, capacity and other statistics; imports, exports, and domestic movements of crude oil and petroleum products.

Petroleum Supply Monthly

Crude oil and petroleum products supply and disposition statistics at the national and PAD District levels. Includes data on production, imports, exports, movements, and inventories.

This Week In Petroleum

Weekly review of petroleum activities with a focus on motor gasoline, crude oil, distillate fuels, and propane. Includes data about prices, stocks, production, imports, and demand. Features numerous interactive charts and links to related information.

Weekly Petroleum Status Report

Timely information on supply and selected prices of crude oil and the principal petroleum products, with a review of the week's highlights.

Gasoline and Diesel Fuel Update

Current average motor gasoline and diesel fuel prices for the United States and major regions, with links to related information.

Heating Oil and Propane Update

Current average residential and wholesale heating oil and propane prices for the United States, and U.S. distillate and propane supply (stocks, production, and demand), with links to related information.

U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves

Estimates of proved reserves, as well as production volumes, nationally and for selected States and State subdivisions. Extensive appendices contain supplementary information and maps.

Oil Market Basics

Explanation of the fundamentals of petroleum supply, demand, trade, refining, stocks, and prices. Includes links to related information from EIA and other sources.

Analysis Publications

Topical reports include: "A Primer on Gasoline Prices"; "2003 California Gas Price Study"; "Inquiry into August 2003 Gasoline Price Spikes"; "Preparations for Meeting New York and Connecticut MTBE Bans" and "Update of Summer Reformulated Gasoline Supply Assessment for New York and Connecticut"; Residential Heating Oil Prices: What Consumers Should Know"; and others.

The reports above are a small sample of the information available from the Energy Administration Information (EIA) about petroleum. These publications can be found in the petroleum section of EIA's Web site starting at http://www.eia.doe.gov/oil_gas/petro-leum/info_glance/petroleum.html. A variety of related data is offered in popular electronic formats and some reports are available in hard copy. For more information, visit the EIA Web site or contact the National Energy Information Center at 202–586–8800 or infoctr@eia.doe.gov.