Monthly Energy Review on the Web at: www.eia.doe.gov/mer

March 2001

www.eia.doe.gov

Energy Information Administration

Renewada Erreigh And: Is she's and Trand

Monthly Energy Review

The Monthly Energy Review (MER) presents an overview of the Energy Information Administration's recent monthly energy statistics. The statistics cover the major activities of U.S. production, consumption, trade, stocks, and prices for petroleum, natural gas, coal, electricity, and nuclear energy. Also included are international energy and thermal and metric conversion factors.

Publication of this report is in keeping with responsibilities given to the Energy Information Administration (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 data series in 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 Statistics Report.

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
Fax: 202-586-0727
Internet E-Mail: infoctr@eia.doe.gov
TTY: For people who are deaf
or hard of hearing: 202-586-1181
9 a.m. to 5 p.m., Eastern time, M-F

This publication and other EIA publications may be **purchased** from the Superintendent of Documents, U.S. Government Printing Office. Orders may be directed to:

Superintendent of Documents
U.S. Government Printing Office
P.O. Box 371954
Pittsburgh, PA 15250-7954
202-512-1800
Fax: 202-512-2250
7:30 a.m. to 5:00 p.m., Eastern time, M-F

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 \$98.00 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, El-30, 1000 Independence Avenue, SW, Washington, DC 20585-0623.

Electronic Access

The Monthly Energy Review (MER) is available on the Energy Information Administration (EIA) website in a wide variety of formats at: http://www.eia.doe.gov/mer

- * Tables: ASCII text (TXT) and Portable Document Format (PDF) files.
- * Table Data Files: Excel (XLS) and Lotus (WK1).
- * Database Files (unrounded monthly data 1973 forward): Excel (XLS) files.

* Graph pages, MER sections, and complete MER: PDF files.

Complete *MER* PDF files are also available on the EIA "Energy Info Disk" through the U.S. Department of Commerce at 1-800-STAT-USA.

Also available are ASCII comma delimited data files at:

http://www.eia.doe.gov/pub/energy.overview/monthly.energy/current.mer.

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.



Monthly Energy Review

March 2001

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

Contacts

The Monthly Energy Review is prepared in the Integrated Energy Statistics Division of the Office of Energy Markets and End Use, Energy Information Administration, 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 Chuck Allen, 202-586-5828 (chuck.allen@eia.doe.gov), Diane 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 dianne.dunn@eia.doe.gov
Section	2.	Energy Consumption by Sector	Dianne R. Dunn	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	Ann M. Ducca	202-586-6137 ann.ducca@eia.doe.gov
Section	5.	Oil and 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		
		Electric Utilities	Melvin E. Johnson	202-287-1754 melvin.johnson@eia.doe.gov
		Nonutility Power Producers	Barbara A. Rucker	202-287-1765 barbara.rucker@eia.doe.gov
		Retail Sales	Deborah Johnson	202-287-1970 deborah.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
		Electricity Retail Prices	Deborah Johnson	202-287-1970 deborah.johnson@eia.doe.gov
		Electricity Fossil-Fuel Receipts	Kenneth M. McCleve	ey 202-287-1732 kenneth.mcclevey@eia.doe.gov
Section	10.	International Energy		
		Petroleum Production	Patricia Smith	202-586-6925 patricia.smith@eia.doe.gov
		Petroleum Consumption and Stocks	H. Vicky McLaine	202-586-9412 harriet.mclaine@eia.doe.gov
		Nuclear Electricity Gross Generation	John R. Moens	202-287-1976 john.moens@eia.doe.gov

ii

Contents

			Page
Energy Pl	ug:	Renewable Energy 2000: Issues and Trends	ix
Section	1.	Energy Overview	1
Section	2.	Energy Consumption by Sector	23
Section	3.	Petroleum	41
Section	4.	Natural Gas	71
Section	5.	Oil and Gas Resource Development	81
Section	6.	Coal	85
Section	7.	Electricity	93
Section	8.	Nuclear Energy	109
Section	9.	Energy Prices	115
Section	10.	International Energy	135
Appendix	A.	Thermal Conversion Factors	151
Appendix	B.	Metric and Other Physical Conversion Factors	161
Appendix	C.	Carbon Dioxide Emission Factors for Coal	165
Appendix	D.	List of Features	167
Appendix	E.	Renewable Energy	173
Glossary			181

Tables

Section	1	Energy Overview	Page
1.1	1.	Energy Summary for December 2000	1
1.2		Energy Overview	3
1.3		Energy Production by Source.	5
1.4		Energy Consumption by Source.	7
1.5		Energy Net Imports by Source.	9
1.6		Merchandise Trade Value	11
1.7		Cost of Fuels to End Users in Constant (1982-1984) Dollars	13
1.8		Overview of U.S. Petroleum Trade	15
1.9		Energy Consumption per Dollar of Gross Domestic Product	16
1.10		Motor Vehicle Mileage, Fuel Consumption, and Fuel Rates	17
1.11		Heating Degree-Days by Census Division	18
1.12		Cooling Degree-Days by Census Division	19
Section	2	Energy Consumption by Sector	
2.1	4.	Energy Consumption by Sector	25
2.2		Residential Sector Energy Consumption	27
2.3		Commercial Sector Energy Consumption	
2.4		Industrial Sector Energy Consumption	31
2.5		Transportation Sector Energy Consumption	
2.6		Electric Power Sector Energy Consumption	35
Section	3	Petroleum	
3.1	Э.	Petroleum Overview	
3.1		3.1a Field Production, Stock Change, Petroleum Products Supplied, and Stocks	42
		3.1b Imports, Exports, and Net Imports	43
3.2		Crude Oil Supply and Disposition	
		3.2a Supply	46
		3.2b Disposition and Stocks	47
3.3		Petroleum Imports From	
		3.3a Bahrain, Iran, Iraq, and Kuwait	48
		3.3b Qatar, Saudi Arabia, U.A.E., and Total Persian Gulf	49
		3.3c Algeria, Ecuador, Gabon, Indonesia, and Libya	50
		3.3d Nigeria, Venezuela, Total Other OPEC, and Total OPEC	51
		3.3e Angola, Australia, Bahamas, Brazil, Canada, and China	52
		3.3f Colombia, Ecuador, Gabon, Italy, Malaysia, and Mexico	53
		3.3g Netherlands, Netherlands Antilles, Norway, Puerto Rico, Russia, and Spain	54
		3.3h Trinidad and Tobago, United Kingdom, U.S. Virgin Islands, Other Non-OPEC,	
2.4		Total Non-OPEC, and Total Imports	55
3.4		Finished Motor Gasoline Supply and Disposition	57
3.5		Distillate Fuel Oil Supply and Disposition	59
3.6		Residual Fuel Oil Supply and Disposition	61
3.7		Jet Fuel Supply and Disposition.	63
3.8 3.9		Liquefied Petroleum Gases Supply and Disposition	65 67
3.10		Other Petroleum Products Supply and Disposition	68
a			
Section 4.1	4.	Natural Gas	72
4.1		Natural Gas Overview	73 74
4.2		Natural Gas Trade by Country	74 75
4.3		Natural Gas Consumption by End-Use Sector.	76
4.4		Natural Gas in Underground Storage	77
٦.٥		radian Gas in Onderground Storage	, ,
Section	5.	Oil and Gas Resource Development	=
5.1		Oil and Gas Drilling Activity Measurements.	82
5.2		Oil and Gas Wells Drilled	83

Tables (Continued)

Section	6	Coal	Page
6.1	υ.	Coal Overview	87
6.2		Coal Consumption by End-Use Sector	88
6.3		Coal Stocks.	89
Section	7.	Electricity	
7.1		Electricity Overview	95
7.2 7.3		Electricity Net Generation	97 98
7.3 7.4		Electricity Net Generation at Nonutility Power Producers	99
7.5		Electricity End Use	101
7.6		Consumption of Fossil Fuels To Generate Electricity	103
7.7		Consumption of Fossil Fuels To Generate Electricity at Electric Utilities	104
7.8 7.9		Consumption of Fossil Fuels To Generate Electricity at Nonutility Power Producers Electric Power Sector Stocks of Coal and Petroleum	105 107
Section	R	Nuclear Energy	
8.1	0.	Nuclear Power Plant Operations	111
8.2		Nuclear Generating Unit	112
Section	9.	Energy Prices	
9.1		Crude Oil Price Summary	117
9.2		F.O.B. Costs of Crude Oil Imports From Selected Countries	118
9.3 9.4		Motor Gasoline Retail Prices, U.S. City Average	120 121
9.5		Refiner Prices of Residual Fuel Oil	122
9.6		Refiner Prices of Petroleum Products for Resale	122
9.7		Refiner Prices of Petroleum Products to End Users.	123
9.8		No. 2 Distillate Prices to Residences	104
		9.8a Northeastern States	124 125
		9.8c Selected Western States and U.S. Average	125
9.9		Retail Prices of Electricity Sold by Electric Utilities	128
9.10		Quantity and Cost of Fossil-Fuel Receipts at Steam-Electric Utility Plants	129
9.11		Natural Gas Prices	131
Section 1	10.	International Energy	
10.1		World Oil Production 10.1a OPEC Members	136
		10.1b Persian Gulf Nations, Non-OPEC, and World	130
10.2		Petroleum Consumption in OECD Countries	141
10.3		Petroleum Stocks in OECD Countries	143
10.4		Nuclear Electricity Gross Generation	
		10.4a Regions and World	145
		10.4b North, Central, and South America	146 147
		10.4d Eastern Europe and Former U.S.S.R.	148
		10.4e Africa and Far East	149
Appendi	ix	A. Thermal Conversion Factors	
Â1.		Approximate Heat Content of Petroleum Products	151
A2.		Approximate Heat Content of Crude Oil, Crude Oil and Products, and Natural Gas Plant Liquids	152
A3. A4.		Approximate Heat Content of Petroleum Products, Weighted Averages	153
A4. A5.		Approximate Heat Content of Natural Gas	154 155
A6.		Approximate Heat Rates for Electricity	156

Tables (Continued)

Appendix	B. Metric and Other Physical Conversion Factors	Page
B1.	Metric Conversion Factors	162
B2.	Metric Prefixes	
В3.	Other Physical Conversion Factors	
Appendix C1.	C. Carbon Dioxide Emission Factors for Coal Average Carbon Dioxide Emission Factors for Coal by Sector	163
Appendix	E. Renewable Energy	
Ē1.	Renewable Energy Consumption by Source	174
E2.	Renewable Energy Consumption by End-Use Sector	175
E3a.	Renewable Energy Consumption by the Electric Power Sector	176
E3b.	Renewable Energy Consumption by the Electric Power Sector	177

Figures

Section	1	Energy Overview	Page
1.1	1.	Energy Overview	2
1.2		Energy Production	4
1.3		Energy Consumption	6
1.4		Energy Net Imports	8
1.5		Merchandise Trade Value	10
1.6		Cost of Fuels to End Users in Constant (1982-1984) Dollars	12
1.7 1.8		Overview of U.S. Petroleum Trade	14 16
1.8		Energy Consumption per Dollar of Gross Domestic Product	17
1.7		Without Vehicle Luci Rutes	1 /
Section	2.	Energy Consumption by Sector	
2.1		Energy Consumption by Sector	24
2.2		Residential Sector Energy Consumption	26
2.3		Commercial Sector Energy Consumption	26
2.4 2.5		Industrial Sector Energy Consumption	30 32
2.6		Electric Power Sector Energy Consumption	34
2.0		Licette Tower Sector Energy Consumption	<i>3</i> ¬
Section	3.	Petroleum	
3.1a		Petroleum Overview	44
3.1b		Petroleum Overview	45
3.2		Finished Motor Gasoline	56
3.3		Distillate Fuel Oil	58
3.4 3.5		Residual Fuel Oil	60 62
3.6		Liquefied Petroleum Gases	64
3.7		Propane and Propylene.	66
Section	4	Natural Gas	
4.1	7.	Natural Gas	72
Section	5.	Oil and Gas Resource Development	0.1
5.1		Oil and Gas Resource Development Indicators	81
Section	6.	Coal	
6.1		Coal	86
	7.	Electricity	
7.1		Electricity Overview	94
7.2		Electric Utility Retail Sales of Electricity	96
7.3 7.4		Electricity End Use	100 102
7.5		Electric Power Sector Stocks of Coal and Petroleum	102
7.5		Electric Tower Section Stocks of Court and Politicisms	100
Section	8.	Nuclear Energy	
8.1		Nuclear Power Plant Operations	110
Section	9.	Energy Prices	
9.1	·•	Petroleum Prices.	116
9.2		Retail Prices of Electricity Sold by Electric Utilities	127
9.3		Cost of Fossil-Fuel Receipts at Steam-Electric Utility Plants	127
9.4		Natural Gas Prices	130
Continu	10	International Energy	
Section 10.1	10.	International Energy Crude Oil Production	138
10.1		Crude Oil Production Crude Oil Production by Selected Country	139
10.2		Petroleum Consumption in OECD Countries	140
10.4		Petroleum Stocks in OECD Countries	142
10.5		Nuclear Electricity Gross Generation	144

Energy

Renewable Energy 2000: Issues and Trends

and Trends is the second in the Energy Information Administration's (EIA's) biannual series of reports on renewable renewables appears to have helped reenergy issues. This year's edition discusses four topics:

Government Incentives. Mandates, and Programs. This article defines, describes, and evaluates (according to their own objectives) Federal and selected State financial incentives and regulatory mandates, and the financial aspects of Federal research and development programs.

Financial incentives as defined here may reduce production costs. boost markets, or transfer economic resources so as to lower buyers' prices or increase sellers' receipts. Federal financial incentives generally take the form of tax credits and production incentives, such as a 1.5 cents-perkilowatthour payment to investors and investor-owned utilities for electricity from wind and closed-loop biomass plants, and a 1.5 cents-per-kilowatthour incentive to certain generators for electricity from biomass, geothermal, wind, and solar sources. There are also a number of Federal tax subsidies for alcohol fuels.

Federal mandates include the Public Utility Regulatory Policies Act of 1978, which boosted renewable energy by requiring electric utilities to buy electricity from certain small power plants using renewable fuels. The utilities were required to buy the electricity at their avoided costs, which have sometimes been very favorable to nonutility generators.

The Department of Energy and other Federal agencies fund research and development efforts for renewables. Solar energy has benefitted most over the last two decades, but R&D

Renewable Energy 2000: Issues funding for all renewable technologies has fallen sharply since the late 1970s.

> Federal and State support for duce renewable generating costs and boosted production. Renewables' future has not been thereby ensured, however, partly because of sharp declines in natural gas-fired generation costs.

> Photovoltaic Industry Trends. Worldwide shipments of photovoltaic (PV) cells and modules rose over 200 percent between 1992 and 1999, to 201 peak megawatts. Globally, the market is dominated by the United States and Japan, though most U.S. manufacturing capacity is owned by German and British firms. Additional trends include inconsolidation and predominance of export markets in U.S. shipments. Demand is increasingly globalized, boosted by aid from development agencies and banks.

> PV technology development is focused on cost-effectiveness. The U.S. National Photovoltaics Program, which received about \$66 million in FY2000. aims to make PV electricity available at 6 cents per kilowatthour.

> Near-term growth in the global PV market could reach the range of 15 percent to 25 percent per year, especially if existing heavy subsidies for PV programs in Japan and Germany continue and further cost reductions in PV technology are achieved.

> Environmental Regulations and Waste Combustion Facility Costs. Municipal waste combustion (MWC) facilities burn waste that might otherwise be landfilled, converting it to energy and a smaller volume of residue ash. Growth in the MWC industry has declined notably in recent years, partly because tighter environmental regulations have helped raise capital costs.

An EIA study of 174 MWC facilities, 102 of which were still operating in 1998, revealed that newer facilities had higher capital costs per ton of waste consumed than plants built in earlier years. This escalation of costs correlated significantly with successive eras of tighter environmental regulation. However, larger plants, particularly those of the "mass burn" type. showed important scale economies: capital costs decreased as design capacity increased. So far, these plants have tended to accommodate regulatory changes within their capital bases rather than cease operations.

Wind Energy Developments. In 1999, industry sources identified more than 900 megawatts (MW) of new wind energy capacity, and projected another 395 MW for 2000. The continued decline in wind generation costs, interest in low-carbon energy, and a number of Federal and State incentives have helped sustain interest in wind power.

Wind turbine technology has improved significantly in recent years, supported in part by Federal research and development funds. Current designs benefit from advances in rotor airfoils, power control electronics, aerodynamic controls, and wind characterization capabilities. New turbines can be customized for particular sites and even for particular locations within a site. Turbine sizes are moving toward maximum outputs of over 1 MW.

Federal tax incentives and research support continue to bolster wind energy as the electric power industry restructures, as do State incentives such as net metering, accelerated depreciation, tax exemptions, grants, and loans. Consumers provide additional support as they embrace green pricing programs for renewable energy.

Renewable Energy 2000: Issues and Trends, DOE/EIA-0628(2000); 120 pages, 41 tables, 19 figures. Limited print copies are available from the National Energy Information Center at infoctr@eia.doe.gov or 202-586-8800. For Internet access, go to www.eia.doe.gov and click on Fuel, Renewables, Renewables Publications, and then the title. Contact wmaster@eia.doe.gov or call 202-586-8959 if you have problems. Questions about the report's content should be directed to Mark Gielecki, Office of Coal, Nuclear, Electric, and Alternate Fuels, at mark.gielecki@eia.doe.gov or 202-287-1729. For general information about energy, contact NEIC.

Section 1. Energy Overview

Energy production during December 2000 totaled 6.1 quadrillion Btu, a 2.3-percent decrease compared with the level of production during December 1999. Production of natural gas plant liquids decreased 19.2 percent; natural gas (dry) increased 11.1 percent; coal decreased 8.5 percent; crude oil decreased 2.0 percent; and nuclear electric power decreased 0.7 percent, compared with the level of production during December 1999.

Energy consumption during December 2000 totaled 9.4 quadrillion Btu, 5.0 percent above the level of consumption during December 1999. Consumption of

natural gas increased 18.0 percent; coal increased 7.0 percent; nuclear electric power decreased 0.7 percent; and petroleum increased 0.6 percent, compared with the level 1 year earlier.

Net imports of energy during December 2000 totaled 2.2 quadrillion Btu, 15.8 percent above the level of net imports 1 year earlier. Net imports of petroleum products increased 120.3 percent; crude oil increased 13.6 percent; and natural gas fell 6.6 percent. Net imports of coal coke decreased 95.3, while net imports of coal fell 7.7 percent, compared with the level in December 1999.

Table 1.1 Energy Summary for December 2000

(Quadrillion Btu)

		December		Cumulative January Through December						
	2000	1999	Percent Change ^a	2000	2000 Daily Rate	1999	1999 Daily Rate	Percent Change ^b		
Production ^c	6.052	6.194	-2.3	72.504	0.198	72.444	0.198	-0.2		
Fossil Fuels	4.791	4.848	-1.2	57.707	.158	57.460	.157	.2		
Coal	1.804	1.971	-8.5	22.975	.063	23.356	.064	-1.9		
Natural Gas (Dry)	E 1.754	1.579	11.1	E 19.741	E.054	19.126	.052	2.9		
Crude Oild	E 1.050	1.071	-2.0	E 12.383	E.034	12.451	.034	8		
Natural Gas Plant Liquids	.183	.227	-19.2	2.607	.007	2.528	.007	2.9		
Nuclear Electric Power	.721	.726	7	8.009	.022	7.736	.021	3.2		
Renewable Energy	.546	.624	-12.5	6.845	.019	7.311	.020	-6.6		
Consumption ^e	9.353	8.908	5.0	98.795	.270	97.148	.266	1.4		
Fossil Fuelsf	8.099	7.555	7.2	83.885	.229	82.078	.225	1.9		
Coal	2.013	1.882	7.0	22.414	.061	21.680	.059	3.1		
Natural Gas ^g	F 2.681	2.272	18.0	E 23.325	E.064	22.289	.061	4.4		
Petroleum ^h	3.408	3.386	.6	37.964	.104	37.960	.104	3		
Nuclear Electric Power	.721	.726	7	8.009	.022	7.736	.021	3.2		
Renewable Energy ^e	.552	.644	-14.3	7.098	.019	7.519	.021	-5.9		
Net Imports	2.161	1.867	15.8	24.412	.067	23.728	.065	2.6		
Fossil Fuels ⁱ	2.155	1.846	16.7	24.160	.066	23.521	.064	2.4		
Coal ^j	085	092	-7.7	-1.222	003	-1.307	004	-6.8		
Coal Coke	(s)	.006	-95.3	.065	(s)	.058	(s)	13.0		
Natural Gas	E.294	.315	-6.6	E 3.570	E .010	3.500	.010	1.7		
Crude Oil ^k	1.695	1.493	13.6	19.372	.053	18.686	.051	3.4		
Petroleum Products ^I	.252	.114	120.3	2.258	.006	2.493	.007	-9.7		
	€ .006	^E .021								

^a Based on data prior to rounding.

b Based on daily rates prior to rounding.

 $^{^{\}rm C}$ Total production also includes hydroelectricity generated from pumped storage.

d Includes lease condensate.

e Alcohol (ethanol blended into motor gasoline) is included in both "Petroleum" and "Renewable Energy," but is counted only once in total energy consumption.

f Fossil fuel consumption also includes coal coke net imports and electricity net imports from fossil fuels.

g Includes supplemental gaseous fuels.

^h Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel.

ⁱ Fossil fuel net imports also include electricity net imports from fossil fuels.

^j Minus sign indicates exports are greater than imports.

k Crude oil, lease condensate, and imports of crude oil for the Strategic Petroleum Reserve.

¹ Petroleum products, unfinished oils, pentanes plus, and gasoline blending components.

^m Electricity net imports derived from hydroelectric power or geothermal energy.

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

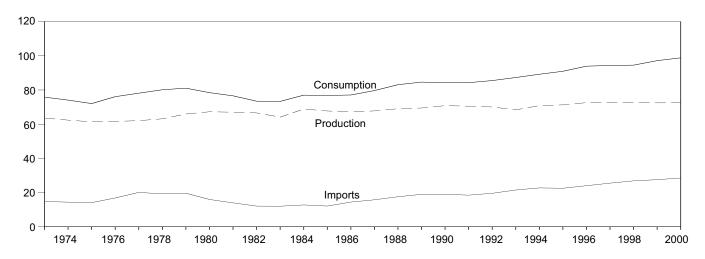
Notes: Totals may not equal sum of components due to independent rounding.

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

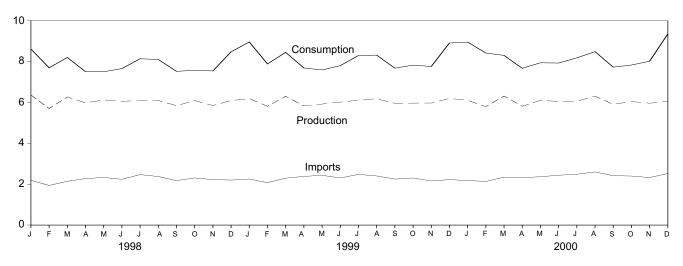
Sources: Tables 1.3, 1.4, and 1.5.

Figure 1.1 Energy Overview

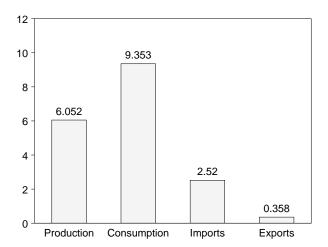
Consumption, Production, and Imports, 1973-2000



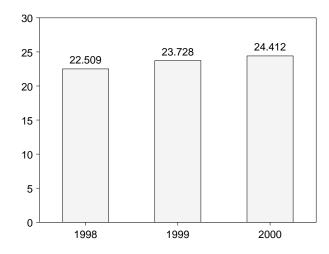
Consumption, Production, and Imports, Monthly



Overview, December 2000



Net Imports, January-December



Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.2.

Table 1.2 Energy Overview

	Production	Consumptiona	Imports	Exports	Net Imports
73 Total	63.585	75.808	14,731	2.051	12.680
73 Total	62.372	74.080	14.731	2.223	12.190
'5 Total	61.357	72.042	14.111	2.359	11.752
6 Total	61.602	76.072	16.837	2.188	14.648
7 Total	62.052	78.122	20.090	2.071	18.019
8 Total	63.137	80.123	19.254	1.931	17.323
9 Total	65.948	81.044	19.616	2.870	16.746
0 Total	67.241	78.435	15.971	3.723	12.247
1 Total	67.007	76.569	13.975	4.329	9.646
2 Total	66.574	73.440	12.092	4.633	7.460
3 Total	64.106	73.317	12.027	3.717	8.310
4 Total	68.832	76.972	12.767	3.804	8.963
	67.720	76.778	12.103	4.231	7.872
5 Total					
6 Total	67.178	77.065	14.438	4.055	10.382
7 Total	67.760	79.633	15.764	3.853	11.911
8 Total	69.025	83.068	17.564	4.415	13.149
9 Total	69.457	84.607	18.955	4.767	14.188
0 Total	70.822	84.214	18.952	4.865	14.087
1 Total	70.515	84.271	18.497	5.157	13,339
2 Total	70.056	85.499	19.577	4.957	14.621
3 Total	68.367	87.289	21.498	4.283	17.215
			22.726	4.265	
4 Total	70.836	89.198			18.651
5 Total	71.291	90.931	R 22.540	R 4.537	R 18.003
6 Total	72.583	R 93.917	R 24.010	R 4.656	R 19.354
7 Total	72.532	^R 94.326	^R 25.514	^R 4.576	^R 20.938
8 January	6.362	R 8.612	2.190	.414	R 1.775
February	5.705	^R 7.693	1.937	.324	R 1.613
March	6.268	R 8.200	2.144	366	1.778
April	5.979	R 7.505	R 2.272	R .376	1.897
				.370 R 407	
May	6.123	R 7.502	2.327	R .407	R 1.920
June	6.051	R 7.655	2.240	.377	1.863
July	6.099	^R 8.138	2.467	R .372	R 2.095
August	6.095	^R 8.100	2.374	.333	2.041
September	5.841	^R 7.521	2.176	.351	1.825
October	6.090	^R 7.574	2.305	.359	1.946
November	5.847	R 7.540	2.223	.313	1.910
December	6.093	R 8.477	2.201	.354	1.847
Total	72.553	R 94.523	R 26.855	R 4.346	R 22.509
O lanuary	^R 6.185	^R 8.958	R 2.253	R .306	^R 1.947
9 January					
February	R 5.810	R 7.883	R 2.075	.252	R 1.823
March	R 6.302	8.450	R 2.295	R .291	R 2.003
April	R 5.830	7.685	R 2.380	.357	R 2.023
May	^R 5.920	^R 7.589	R 2.433	R .304	R 2.129
June	^R 6.015	7.798	R 2.304	.321	R 1.983
July	^R 6.116	8.295	R 2.478	.322	R 2.156
August	R 6.177	R 8.314	R 2.402	.333	R 2.069
September	R 5.957	R 7.677	R 2.248	.308	R 1.941
October	R 5.968	R 7.824	R 2.302	.349	R 1.953
November	R 5.971	R 7.760	R 2.157	.324	R 1.833
December	^R 6.194	R 8.908	R 2.222	R .355	1.867
Total	^R 72.444	^R 97.148	R 27.549	R 3.821	R 23.728
0 January	R 6.102	R 8.952	R 2.177	R .327	R 1.850
February	^R 5.795	^R 8.417	^R 2.136	R .269	R 1.867
March	^R 6.314	^R 8.301	R 2.343	R .371	R 1.972
April	^R 5.816	R 7.670	R 2.319	R .315	R 2.004
May	R 6.100	R 7.940	R 2.364	R .332	R 2.033
June	R 6.048	R 7.927	R 2.439	R .332	R 2.107
July	R 6.064	R 8.181	R 2.485	R .327	R 2.158
August	R 6.304	R 8.485	R 2.599	R .388	R 2.210
September	^R 5.904	^R 7.726	^R 2.415	R .330	R 2.084
October	^R 6.041	^R 7.829	^R 2.398	R .379	R 2.019
November	^R 5.963	^R 8.016	R 2.325	.379	R 1.946
December	6.052	9.353	2.520	.358	2.161
Total	72.504	98.795	28.521	4.1 09	24.412
I VIUI	12.004	30.133	20.J2 I	7.103	24.412

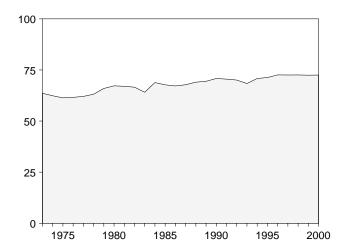
a The sum of domestic energy production and net imports of energy does not equal domestic energy consumption. The difference is attributed to stock changes; losses and gains in conversion, transportation, and distribution; the addition of blending compounds; shipments of anthracite to U.S. Armed Forces in Europe; and adjustments to account for discrepancies between reporting systems. R=Revised.

For definitions, see Notes 1 through 4 at end of section. Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

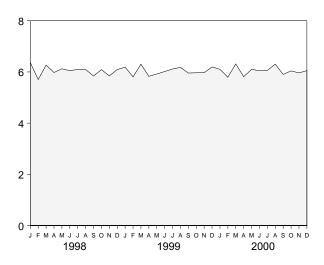
Sources: **Production:** Table 1.3. **Consumption:** Table 1.4. **Imports and Exports:** Tables 3.1b, 4.3, 6.1, 7.1, A2-A6, E3b, and Section 2, "Energy Consumption Notes and Sources," Note 5. **Net Imports:** Table 1.5.

Figure 1.2 Energy Production

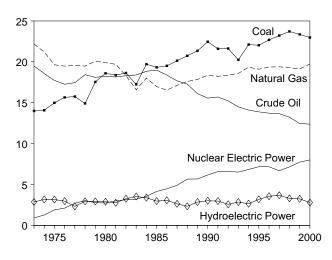
Total, 1973-2000



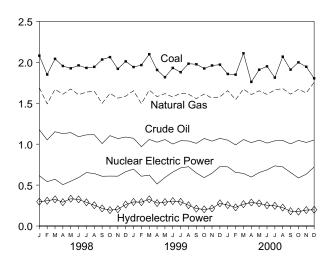
Total, Monthly



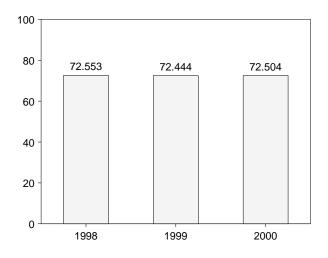
By Major Sources, 1973-2000



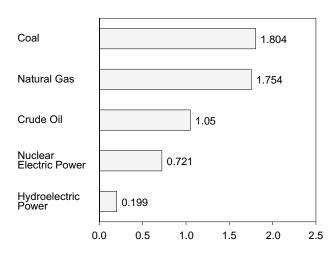
By Major Sources, Monthly



Total, January-December



By Major Sources, December 2000



Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.3.

Table 1.3 Energy Production by Source

		F	ossil Fuel	s					Renewable Energy ^a				
	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 1975 Total 1976 Total 1977 Total 1977 Total 1978 Total 1980 Total 1980 Total 1981 Total 1982 Total 1983 Total 1985 Total 1985 Total 1986 Total 1986 Total 1987 Total 1988 Total 1988 Total 1988 Total 1988 Total 1988 Total 1998 Total 1998 Total 1999 Total 1991 Total 1992 Total 1993 Total 1993 Total 1995 Total 1995 Total	13.992 14.074 14.989 15.654 15.755 14.910 17.540 18.598 18.377 19.725 19.509 20.141 20.738 21.346 22.456 21.629 20.249 22.111 22.029 22.681	22.187 21.210 19.640 19.565 19.485 20.076 19.908 19.699 18.319 16.593 18.008 16.541 17.136 17.136 17.136 18.362 18.375 18.363 18.363 19.394	19.493 18.575 17.729 17.454 18.434 18.104 18.309 18.392 18.376 17.675 17.279 16.117 15.571 15.701 15.223 14.494 14.103 13.887 13.723	2.569 2.471 2.374 2.327 2.327 2.245 2.286 2.254 2.307 2.184 2.274 2.2149 2.215 2.260 2.158 2.175 2.306 2.363 2.492 2.492 2.492	58.241 56.331 54.733 54.723 55.101 55.074 58.006 59.008 58.529 57.458 54.416 58.849 57.539 57.539 57.468 58.564 57.829 57.590 57.590 57.458 57.458 57.458 57.458 57.458 57.458 57.458 57.458	0.910 1.272 1.900 2.111 2.702 3.024 2.776 2.739 3.008 3.131 3.203 3.553 4.149 4.471 4.906 6.561 6.5661 6.520 6.608 6.520 6.838 7.177 7.168 6.678	(e) (e) (e) (e) (e) (e) (e) (e) (e) (e)	2.861 3.177 3.155 2.976 2.333 2.937 2.931 E 2.900 E 2.758 E 3.3266 E 3.527 E 3.386 E 2.970 E 3.071 E 2.635 E 2.2334 2.855 3.048 3.021 2.617 2.892 2.684 3.207 3.593 3.718	1.529 1.540 1.499 1.713 1.838 2.038 2.152 2.485 2.590 2.615 2.831 E 2.844 E 2.823 E 2.925 E 2.646 E 2.646 E 2.637 E 2.631 E 2.	0.043 .053 .070 .077 .064 .084 .110 .123 .105 .129 .165 .198 .219 .229 .227 .323 .343 .345 .364 .314 .332	NA N	4.433 4.769 4.723 4.768 4.249 5.039 5.166 5.494 5.471 5.985 6.481 6.033 6.132 5.687 5.489 6.311 6.153 6.153 6.083 7.148 7.138	63.585 62.372 61.357 61.602 62.052 63.137 65.948 67.241 67.047 64.106 68.832 67.720 67.178 67.760 69.025 69.457 70.822 70.515 70.056 68.367 70.836 71.291 72.583
1998 January	2.081 1.850 2.042 1.955 1.926 1.962 1.931 1.944 2.034 2.063 1.920 2.011 23.719	1.688 1.493 1.669 1.610 1.674 1.636 1.647 1.499 1.620 1.562 1.586 19.288	1.176 1.052 1.152 1.128 1.141 1.091 1.114 1.115 1.007 1.104 1.068 1.087	.211 .196 .217 .211 .214 .198 .185 .201 .194 .204 .200 .189	5.156 4.591 5.079 4.904 4.956 4.854 4.865 4.908 4.735 4.991 4.750 4.872 58.662	.615 .542 .571 .505 .547 .592 .653 .641 .608 .610 .609 .664	(s) .001 (s) 005 008 007 007 003 005 005	E .298 E .308 E .326 E .295 E .341 E .332 E .296 E .261 E .218 E .199 E .210 E .262	E .256 E .230 E .255 E .246 E .253 E .245 E .254 E .255 E .247 E .256 E .247 E .258 3.003	E .029 E .025 E .029 E .025 E .025 E .025 E .028 E .029 E .028 E .030 E .028 E .028	E .009 E .008 E .009 E .009 E .009 E .009 E .009 E .009 E .009 E .009	.591 .571 .619 .574 .627 .611 .587 .553 .502 .494 .494 .557	6.362 5.705 6.268 5.979 6.123 6.051 6.099 6.095 5.841 6.090 5.847 6.093 72.553
1999 January February March April May June July August September October November December Total	1.942 1.966 2.099 1.906 1.818 R 1.931 R 1.879 R 1.983 R 1.976 1.924 1.961 1.971	1.653 1.494 1.660 1.581 1.617 1.576 1.623 1.611 1.556 1.613 1.563 1.579	1.072 .969 1.058 1.024 1.056 1.002 1.042 1.039 1.010 1.069 1.037 1.071	.192 .181 .207 .203 .208 .210 .221 .217 .215 .227 .219 .227 2.528	4.859 4.609 5.024 4.714 4.699 4.720 R 4.766 R 4.851 R 4.757 4.833 4.780 4.848 R 57.460	.695 .608 .622 .513 .593 .659 .710 .725 .648 .591 .645 R .726	006 004 004 005 007 006 006 008 004 005 005 004 R063	R .300 R .295 R .329 R .284 R .299 R .310 R .301 R .262 R .216 R .208 R .219 R .281	RE .302 RE .270 RE .296 RE .288 RE .299 RE .299 RE .299 RE .297 RE .290 RE .301 R 3.522	E .027 E .024 RE .026 E .025 E .028 RE .033 E .035 RE .037 E .036 RE .034 E .033 .374	RE .008 E .007 E .008 E .009 RE .011 E .011 RE .011 RE .010 E .009 E .008 RE .008 -110	R .636 .596 R .660 .607 R .635 .642 .647 R .656 R .556 R .550 R .550 R .624	R 6.185 R 5.810 R 6.302 R 5.830 R 5.920 R 6.015 R 6.116 R 6.177 R 5.957 R 5.957 R 6.194 R 72.444
2000 January	1.857 1.849 2.110 R 1.760 R 1.909 R 1.950 R 1.813 R 2.069 R 1.910 R 1.999 R 1.945 1.804 22.975	E 1.654 E 1.543 E 1.673 E 1.606 E 1.652 E 1.608 E 1.663 E 1.670 RE 1.670 RE 1.626 E 1.754	E 1.049 E .991 E 1.056 E 1.018 E 1.049 E 1.013 E 1.041 E 1.045 E 1.004 E 1.021 E 1.050 E 12.383	.225 .215 .230 R .220 .225 R .215 R .222 R .225 .216 R .222 R .225 .216 .183 2.607	R 4.785 4.598 R 5.069 R 4.604 R 4.836 R 4.787 R 4.740 R 5.018 R 4.740 R 4.937 R 4.803 4.791 57.707	.723 .655 .643 .598 .653 .686 .735 .722 .654 .587 .633 .721	005 005 006 004 005 006 003 004 006 004 006 005	R 261 R .231 R .273 R .291 R .281 R .259 R .251 R .229 R .188 R .180 R .199 .205	RE .302 RE .283 RE .302 RE .291 RE .299 RE .288 RE .305 RE .302 RE .292 RE .304 RE .295 E .303	E .027 RE .024 E .023 RE .025 E .025 E .026 RE .027 E .028 E .028 E .028 E .028 E .029 E .317	RE .010 RE .009 RE .010 E .011 RE .010 RE .009 E .009 E .009 E .010 RE .010 E .009 E .010	R .600 R .547 R .608 R .619 R .616 R .581 R .592 R .568 S .516 R .522 .532 .546	R 6.102 R 5.795 R 6.314 R 5.816 F 6.100 R 6.048 R 6.064 R 6.304 R 6.904 R 6.9041 R 5.963 6.052 72.504

^a End-use consumption, and electric utility and nonutility electricity net d End-use consumption, and electric utility and nonunity electricity her 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.

f Beginning in 1989, includes electricity generated by nonutility nuclear units.

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

Sources: Coal: Tables 6.1 and A5.

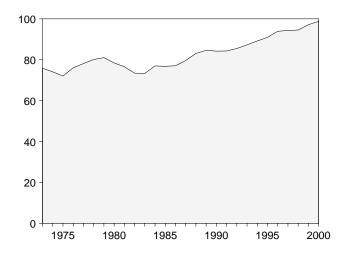
Crude Oil and Natural Gas Plant Liquids: Tables 3.1a and A2.

Nuclear Electric Power: Tables 8.1 and A6. Hydroelectric Pumped Storage: Tables 7.2 and A6. Renewable Energy: Tables E2, E3a, and E3b.

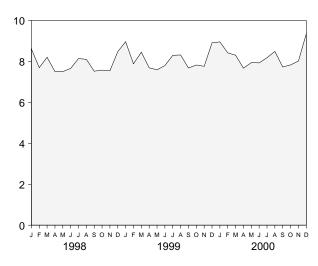
Figure 1.3 Energy Consumption

(Quadrillion Btu)

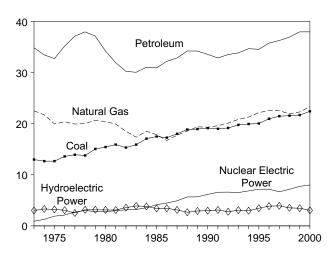
Total, 1973-2000



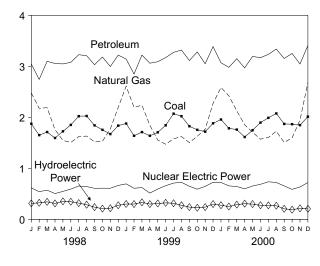
Total, Monthly



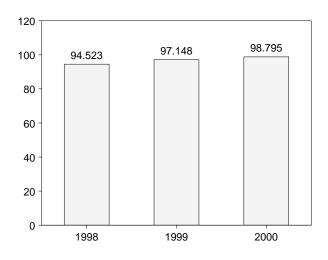
By Major Sources, 1973-2000



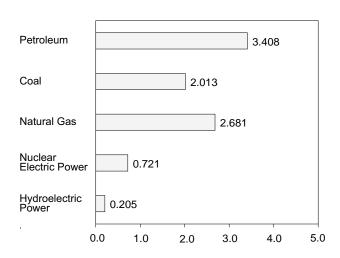
By Major Sources, Monthly



Total, January-December



By Major Sources, December 2000



Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.4.

Table 1.4 Energy Consumption by Source

	Fossil Fuels							Renewa	ble Energy	a		
	Coal	Natural Gas ^b	Petro- leum ^c	Totald	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conventional Hydroelectric Power	Wood, Waste, Alcohol ^f	Geo- thermal	Solar and Wind	Total	Total ^f
1973 Total 1974 Total 1975 Total 1976 Total 1976 Total 1977 Total 1978 Total 1979 Total 1980 Total 1981 Total 1982 Total 1983 Total 1985 Total 1985 Total 1986 Total 1987 Total 1988 Total 1987 Total 1988 Total 1987 Total	12.971 12.663 12.663 13.584 13.584 13.922 13.766 15.040 15.423 15.908 15.322 15.894 17.071 17.478 17.260 18.008 18.846 19.136 18.985 19.152	22.512 21.732 19.948 20.345 19.931 20.000 20.666 20.394 19.928 18.505 17.357 17.834 16.708 17.744 18.552 19.384 19.296 19.606 20.131 20.827	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 33.557 33.841	70.316 67.906 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 72.536 71.910 71.505 72.897 74.508	0.910 1.272 1.900 2.111 2.702 3.024 2.776 2.739 3.108 3.131 3.203 3.553 4.149 4.471 4.906 5.661 5.667 6.162 6.580 6.608	(9) (9) (9) (9) (9) (9) (9) (9) (9) (9)	3.010 3.309 3.219 3.066 2.515 3.141 3.141 5.3.118 5.3.105 5.3.572 5.3.899 5.3.890 5.3.890 5.3.988 5.3.446 5.3.117 5.2.662 2.998 3.146 3.159 2.818 3.119	1.529 1.540 1.499 1.713 1.838 2.152 2.485 2.590 2.615 2.831 2.880 E 2.864 E 2.823 E 2.937 E 3.050 E 2.646 E 2.687 E 2.687 E 2.687 E 2.687	0.043 .053 .0770 .078 .077 .064 .084 .110 .123 .105 .129 .165 .198 .219 .229 .217 .334 .355 .363 .374	NA NA NA NA NA NA NA (s) (s) (s) (s) (s) .083 .094 .097 .097	4.581 4.902 4.788 4.857 4.431 5.377 5.712 6.860 6.892 6.860 6.507 6.170 5.817 6.465 6.292 6.460 6.507 6.170 6.241 6.306 6.121 6.399	75.808 74.080 72.042 76.072 78.122 80.123 81.044 78.435 76.569 73.440 73.317 76.972 76.778 77.065 79.633 83.068 84.607 84.214 84.271 85.499 87.289
1994 Total 1995 Total 1996 Total 1997 Total	20.024 R 20.955	21.288 22.163 22.559 22.530	34.670 34.553 35.757 36.266	76.089 76.923 R 79.404 R 80.414	6.838 7.177 7.168 6.678	035 028 032 042	2.993 3.481 3.892 3.961	2.925 3.056 3.114 2.991	.388 .333 .346 .322	.107 .106 .110 .107	6.414 6.976 7.461 7.382	89.198 90.931 R 93.917 R 94.326
1998 January February March April May June July August September October November December Total	R 1.650 R 1.711 R 1.594 R 1.724 R 1.851 R 2.022 R 2.026 R 1.841 R 1.754 R 1.671 R 1.837	2.476 2.177 2.189 1.758 1.547 1.507 1.621 1.632 1.517 1.528 1.771 2.195 21.921	3.045 2.743 3.098 3.056 3.047 3.078 3.228 3.208 3.032 3.182 2.996 3.220 36.934	R 7.403 R 6.574 R 7.004 R 6.419 R 6.325 R 6.448 R 6.886 R 6.889 R 6.402 R 6.471 R 7.256 R 80.525	.615 .542 .571 .505 .547 .592 .653 .641 .608 .610 .609	(s) .001 (s) 005 008 007 007 003 005 005 (s)	E .312 E .321 E .342 E .315 E .358 E .351 E .324 E .294 E .240 E .215 E .221 E .275	E .256 E .230 E .255 E .246 E .253 E .245 E .254 E .255 E .247 E .256 E .247 E .258 3.003	E .029 E .025 E .025 E .025 E .025 E .025 E .028 E .029 E .028 E .030 E .028 E .028	E .009 E .008 E .009 E .009 E .009 E .009 E .009 E .009 E .009 E .009 E .009	.606 .585 .635 .595 .645 .630 .615 .586 .524 .510 .505 .570	R 8.612 R 7.693 R 8.200 R 7.505 R 7.502 R 7.655 R 8.138 R 8.100 R 7.521 R 7.540 R 8.477 R 94.523
1999 January February March April May June July August September October November December Total	1.637 R 1.710 1.637 1.705 1.843 2.071 2.021 1.825 R 1.754 1.718 1.882	2.610 2.195 2.237 1.845 1.554 1.472 1.578 1.622 1.504 1.627 1.767 2.272 22.289	3.143 2.850 3.220 3.061 3.090 3.171 3.274 3.319 3.114 3.282 3.051 3.386 37.960	7.637 6.685 7.174 6.560 6.359 6.495 6.934 6.978 6.459 R 6.677 6.557 7.555 82.078	.695 .608 .622 .513 .593 .659 .710 .725 .648 .591 .645 R .726	006 004 004 005 007 006 006 008 004 005 005 004 R063	RE .306 RE .302 RE .336 RE .302 RE .317 RE .328 RE .320 RE .282 RE .243 RE .231 E .244 RE .302 R 3.512	RE .302 RE .270 RE .296 RE .288 RE .296 RE .299 RE .299 RE .297 RE .290 RE .301 R 3.522	E .027 E .024 RE .026 RE .025 E .028 E .033 E .035 RE .037 E .036 RE .034 RE .034	RE .008 E .007 E .008 E .009 RE .011 RE .011 RE .010 E .009 E .008 RE .008 L .008	R .643 .602 .667 .625 R .653 .660 R .666 R .628 R .583 R .573 R .574 R .644	R 8.958 R 7.883 8.450 7.685 R 7.589 7.798 8.295 R 8.314 R 7.677 R 7.824 R 7.760 R 8.908
2000 January February March April May June July August September October November December Total	R 1.784 R 1.759 R 1.613 R 1.747 R 1.896 R 1.989 R 2.076 R 1.870 R 1.865 R 1.846 2.013	R 2.585 R 2.421 R 2.127 R 1.853 R 1.707 R 1.571 R 1.606 R 1.726 R 1.507 R 1.597 R 1.946 F 2.681	R 3.070 R 2.980 R 3.148 R 2.970 R 3.169 R 3.234 R 3.339 R 3.154 R 3.353 R 3.046 3.408	R 7.626 R 7.205 R 7.048 R 6.450 R 6.666 R 6.649 R 6.845 R 7.171 R 6.550 R 6.726 R 6.850 R 6.850	.723 .655 .643 .598 .653 .686 .735 .722 .654 .633 .721	005 005 006 004 005 006 003 004 006 004 006 005	RE 282 RE 254 RE 293 RE 310 RE 303 RE 281 RE 276 RE 269 RE 212 RE 192 RE 217 E 211 E 3.099	RE .302 RE .283 RE .302 RE .291 RE .299 RE .288 RE .305 RE .302 RE .292 RE .304 RE .303 E .303	E .027 RE .024 E .023 RE .025 E .025 E .026 RE .027 E .028 E .028 E .029 E .318	RE .010 RE .009 RE .010 E .011 RE .010 RE .009 RE .009 E .009 E .009 E .010 RE .010 E .010	R .620 R .570 R .627 R .637 R .638 R .603 R .618 R .608 R .540 R .534 .550 .552	R 8.952 R 8.417 R 8.301 R 7.670 R 7.940 R 7.927 R 8.181 R 8.485 R 7.726 R 7.829 R 8.016 9.353 98.795

^a End-use consumption, electric utility and nonutility electricity net generation,

and net imports of electricity.

b Includes supplemental gaseous fuels.

c Petroleum products supplied, including natural gas plant liquids and crude oil burned as fuel.

d Includes coal coke net imports and electricity net imports from fossil fuels. See

a Includes coal cone lock imposed.

Table 1.5.

Pumped storage facility production minus energy used for pumping.
Alcohol (ethanol blended into motor gasoline) is included in both "Petroleum" and "Alcohol," but is counted only once in total energy consumption.
Included in conventional hydroelectric power.

Beginning in 1989, includes coal consumed by "Other Power Producers." See

i Beginning in 1989, includes electricity generated by nonutility nuclear units.
R=Revised. NA=Not available. E=Estimate. F=Forecast. (s)=Less than +0.5 trillion Btu and greater than -0.5 trillion Btu.
Notes: See Note 2 at end of section. Totals may not equal sum of

components due to independent rounding. Geographic coverage is the 50 States

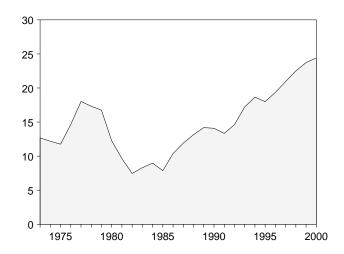
and the District of Columbia.

Sources: Coal: Tables 6.1 and A5.
Petroleum: Tables 3.1a and A3.
Nuclear Electric Power: Tables 8.1 and A6.
Hydroelectric Pumped Storage: Tables 7.2 and A6.
Renewable Energy: Table E1.

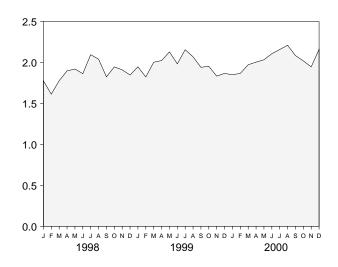
Figure 1.4 Energy Net Imports

(Quadrillion Btu, Except as Noted)

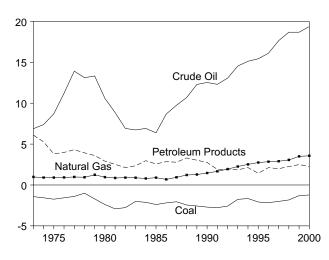
Total, 1973-2000



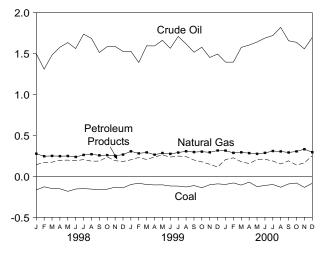
Total, Monthly



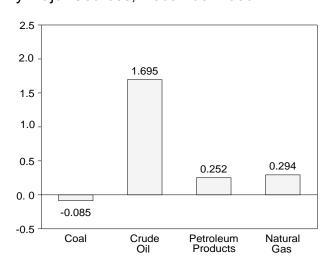
By Major Sources, 1973-2000



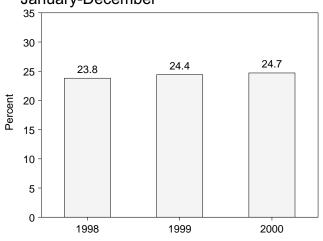
By Major Sources, Monthly



By Major Sources, December 2000



As Share of Consumption, January-December



Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 1.4 and 1.5.

Table 1.5 Energy Net Imports by Source

								Rer	newable Ener	av	
				1 03311 40					ricitya	97	_
	Coal					Electricity ^d	Total	Hydro- power ^e	Geo- thermal	Total	Total
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 1988 Total 1987 Total 1988 Total 1989 Total 1999 Total 1990 Total 1991 Total 1992 Total 1993 Total 1993 Total 1993 Total 1994 Total 1995 Total 1995 Total 1996 Total 1996 Total	-1.422 -1.568 -1.738 -1.567 -1.401 -1.004 -1.702 -2.391 -2.918 -2.768 -2.013 -2.119 -2.389 -2.149 -2.566 -2.705 -2.769 -2.587 -1.758 -1.657 -2.081 -2.165 -2.006	.056 .014 (s) .015 .125 .063035016022016011013017 .009 .040 .030 .005 .010 .035 .027 .058 .061	.907 .904 .922 .981 .941 1.243 .957 .857 .898 .885 .792 .896 .686 .937 1.221 1.278 1.464 1.666 1.941 2.255 2.518 2.745	7.389 8.708 11.221 13.921 13.125 13.328 10.586 8.854 6.917 6.731 6.918 6.381 8.676 9.748 10.698 12.296 12.308 13.065 14.542 15.131 R 15.432 R 16.108	5.273 3.800 3.982 4.321 3.932 3.603 2.912 2.522 2.128 2.351 2.970 2.575 2.784 3.308 3.029 2.757 1.912 1.895 1.854 2.126 R1.432 R 2.119	(f) (f) (f) (f) (f) (f) (f) (f) (f) (f)	12.531 12.058 11.688 14.559 17.837 17.118 16.535 12.030 9.298 7.153 7.938 8.549 7.445 10.007 11.428 12.821 14.034 13.977 13.186 14.401 16.970 18.317 R 17.710	0.148 .133 .064 .089 .182 .204 .211 .217 .347 .306 .372 .414 .428 .375 .483 .328 .143 .098 .138 .201 .227 .309 .274	(f) (f) (f) (f) (f) (f) (f) (f) (f) (f)	0.148 .133 .064 .089 .182 .204 .211 .217 .347 .306 .372 .414 .428 .375 .483 .328 .154 .110 .153 .219 .246 .334 .293 .313	12.680 12.190 11.752 14.648 18.019 17.323 16.746 7.460 8.310 8.963 7.872 10.382 11.911 13.149 14.188 14.087 13.339 14.188 14.087 13.621 17.215 R 18.651 R 18.003 R 19.354 R 20.938
1998 January	166 128 149 152 183 155 150 156 163 163 157 132 141	.003 .003 .004 .005 .009 .007 .010 .006 .007 .004	.245 .249 .246 .248 .236 .261 .270 .256 .259 .251	1.309 1.481 1.576 1.633 1.560 1.736 1.684 1.512 1.584 1.586 1.525	.169 R.173 .196 .198 .191 R.204 .185 .186 R.236 .191 .181	E .002 E .002 E .003 E .006 E .003 E .003 E .009 E .014 E .005 E (s) E .001	1.761 1.600 1.761 R 1.876 1.903 R 1.843 2.068 2.008 R 1.802 1.930 1.899 1.834	E .015 E .013 E .017 E .020 E .017 E .028 E .033 E .022 E .015 E .011 E .013	E (S)	E .015 E .013 E .017 E .020 E .017 E .019 E .028 E .033 E .022 E .015 E .011 E .013	R 1.775 R 1.613 1.778 1.897 R 1.920 1.863 R 2.095 2.041 1.825 1.946 1.910 1.847 R 22.509
1999 January	099 085 100 105 104 118 113 113 113 103 103 092 1.307	.005 .002 .007 .009 .003 .002 .003 .006 .002 .004 .009	.305 .280 .292 .264 .284 .274 .290 .306 .296 .301 .293 .315	1.527 1.390 1.593 1.592 1.660 1.563 1.708 1.617 1.515 1.576 1.451 1.493 18.686	R .202 R .230 R .205 R .237 R .260 R .236 R .247 R .240 R .199 R .177 R .114 R .2493	E (s) E .001 E (s) E .008 E .008 E .008 E .009 E .010 E .015 E .011 E .012 E .009 .092	R 1.941 R 1.817 R 1.997 R 2.005 R 2.111 R 1.965 R 2.138 R 2.049 R 1.914 R 1.930 1.809 R 1.846	E .006 E .006 E .007 E .018 E .018 E .019 E .020 E .027 E .023 E .024 E .021	E (S) E (S) E (S) E (S) E (S)	E .006 E .006 E .007 E .018 E .018 E .019 E .020 E .027 E .023 E .025 E .021	R 1.947 R 1.823 R 2.003 R 2.023 R 2.129 R 1.983 R 2.156 R 2.069 R 1.941 R 1.953 1.867 R 23.728
2000 January	099 081 107 071 126 111 100 133 093 082 135 085	.004 .007 .006 .008 .004 .008 .007 .006 .008 .007	.314 .286 .293 .283 .274 .286 E .309 E .304 E .291 RE .301 RE .331 E .294 E 3.570	R 1.394 R 1.394 R 1.574 R 1.603 R 1.640 R 1.688 R 1.719 R 1.818 R 1.655 R 1.655 R 1.656 1.695	R .205 R .226 R .178 R .156 R .205 R .208 R .187 R .151 R .189 R .138 R .138 252	E .011 E .012 E .009 E .008 E .010 E .011 E .011 E .022 E .012 E .005 E .008 E008	R 1.830 R 1.843 R 1.953 R 1.986 R 2.011 R 2.085 R 2.132 R 2.170 R 2.060 R 2.007 R 1.928 2.155 24.160	E .020 E .023 E .019 E .018 E .022 E .022 E .026 E .040 E .024 E .012 E .012 E .025	E(S) E(S) E(S) E(S) E(S) E(S) E(S) E(S)	E .020 E .023 E .019 E .018 E .022 E .022 E .026 E .041 E .024 E .012 E .018 E .006	R 1.850 R 1.867 R 1.972 R 2.004 R 2.033 R 2.107 R 2.158 R 2.210 R 2.084 R 2.019 R 1.946 2.161 24.412

^a Through 1988, all electricity imports and exports are included in "Hydropower." From 1989, includes only electricity imports and exports derived from hydroelectric power or geothermal energy.

^b Crude oil, lease condensate, and imports of crude oil for the Strategic Petroleum Reserve.

trillion Btu.

^c Petroleum products, unfinished oils, pentanes plus, and gasoline blending

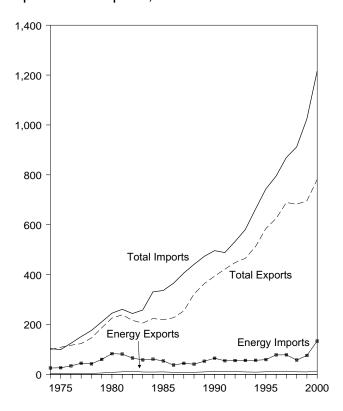
Notes: See Notes 3 and 4 at end of section. Net imports equal imports minus exports. Minus sign indicates exports are greater than imports. Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

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. Fossil Fuel Electricity: Derived from Table 7.1 sources and Table A6. Renewable Energy: Table E3b.

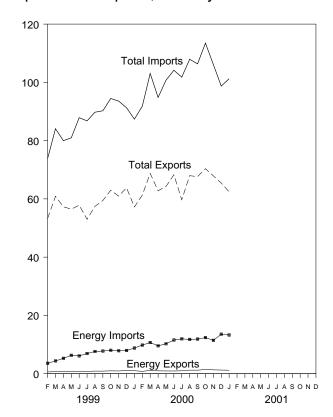
Figure 1.5 Merchandise Trade Value

(Billion Dollars)

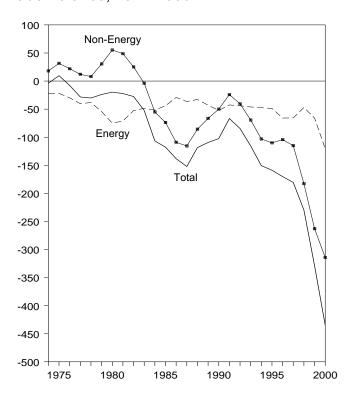
Imports and Exports, 1974-2000



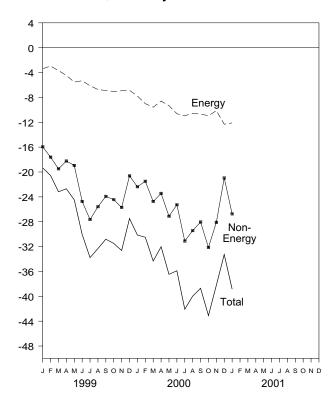
Imports and Exports, Monthly



Trade Balance, 1974-2000



Trade Balance, Monthly



Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.6.

Table 1.6 Merchandise Trade Value

(Million Dollars)

		Petroleur	n ^a		Energy	rb	Non- Energy		Total Merchand	lise
	Exports	Imports	Balance	Exports	Imports	Balance	Balance	Exports	Imports	Balance
1974 Total	792	24,668	-23,876	3,444	25,454	-22,010	18,126	99,437	103,321	-3,884
1975 Total	907	25,197	-24,289	4,470	26,476	-22,006	31,557	108,856	99,305	9,551
1976 Total	998	32,226	-31,228	4,226	33,996	-29,770	21,950	116,794	124,614	-7,820
1977 Total	1,276	42,368	-41,093	4,184	44,537	-40,354	12,001	123,182	151,534	-28,353
1978 Total	1,561	39,526	-37,965	3,881	42,096	-38,215	8,010	145,847	176,052	-30,205
1979 Total	1,914	56,715	-54,801	5,621	59,998	-54,377	30,455	186,363	210,285	-23,922
1980 Total	2,833	78,637	-75,803	7,982	82,924	-74,942	55,246	225,566	245,262	-19,696
1981 Total	3,696	76,659	-72,963	10,279	81,360	-71,081	48,814	238,715	260,982	-22,267
1982 Total	5,947	60,458	-54,511	12,729	65,409	-52,680	25,170	216,442	243,952	-27,510
1983 Total	4,557	53,217	-48,659	9,500	57,952	-48,452	-3,957	205,639	258,048	-52,409
1984 Total	4,470	56,924	-52,454	9,311	60,980	-51,669	-55,033	223,976	330,678	-106,703
1985 Total	4,707	50,475	-45,768	9,971	53,917	-43,946	-73,765	218,815	336,526	-117,712
1986 Total	3,640	35,142	-31,503	8,115	37,310	-29,195	-109,084	227,159	365,438	-138,279
1987 Total	3,922	42,285	-38,363	7,713	44,220	-36,506	-115,613	254,122	406,241	-152,119
1988 Total	3,693	38,787	-35,094	8,235	41,042	-32,806	-85,720	322,426	440,952	-118,526
1989 Total	5,021	49,704	-44,683	9,869	52,779	-42,910	-66,490	363,812	473,211	-109,399
1990 Total	6.901	61,583	-54,682	12,233	64,661	-52,428	-50,068	393,592	496,088	-102,496
1991 Total	6,954	51,350	-44,396	12,081	54,629	-42,548	-24,175	421,730	488,453	-66,723
1992 Total	6.412	51,217	-44.805	11,254	55,256	-44,002	-40,500	448,164	532,665	-84,501
1993 Total	6,215	51,046	-44,831	9,756	55,900	-46,144	-69,425	465,091	580,659	-115,568
1994 Total	5,659	50,835	-45,176	8,911	56,391	-47,480	-103,149	512,626	663,256	-150,629
1995 Total	6,321	54,368	-48,047	10,358	59,109	-48,751	-110,050	584,742	743,543	-158,801
1996 Total	7,984	72,022	-64,038	12,181	78,086	-65,905	-104,309	625,075	795,289	-170,214
1997 Total	8,592	71,152	-62,560	12,682	78,277	-65,595	-114,927	689,182	869,704	-180,522
1998 Total	6,574	50,264	-43,690	10,251	57,323	-47,072	-182,686	682,138	911,896	-229,758
1999 January	460	3,428	-2,968	692	4,075	-3,383	-15,947	52,436	71,766	-19,330
February	380	3,025	-2,645	600	3,561	-2,961	-17,609	53,279	73,849	-20,570
March	440	3,809	-3,369	683	4,373	-3,690	-19,493	60,889	84,072	-23,183
April	579	4,668	-4,089	804	5,264	-4,460	-18,237	57,283	79,980	-22,697
May	563	5,630	-5,067	773	6,307	-5,534	-18,943	56,489	80,965	-24,477
June	565	5,432	-4,867	789	6,105	-5,316	-24,739	57,825	87,880	-30,055
July	560	6,146	-5,586	781	6,906	-6,125	-27,653	52,998	86,775	-33,778
August	630	6,786	-6,156	888	7,614	-6,726	-25,584	57,439	89,749	-32,310
September	623	6,908	-6,285	869	7,760	-6,891	-23,922	59,431	90,244	-30,813
October	738	7,197	-6,459	982	8,022	-7,040	-24,447	62,973	94,460	-31,487
November	700	6,949	-6,249	925	7,854	-6,929	-25,704	60,948	93,581	-32,633
December	884	7,190	-6,306	1.094	7,962	-6,868	-20,621	63,808	91,296	-27,489
Total	7,118	67,173	-60,055	9,880	75,803	-65,923	-262,898	695,797	1,024,618	-328,821
2000 January	796	7,836	-7,040	1,021	8,790	-7,769	-22,378	57,221	87,368	-30,147
February	625	9,016	-8,391	796	9,799	-9,003	-21,494	61,325	91,822	-30,497
March	877	9,943	-9,066	1,117	10,696	-9,579	-24,748	68,740	103,067	-34,327
April	793	8.832	-8.039	970	9,555	-8.585	-23,443	62.786	94.815	-32.028
May	687	9,452	-8,765	935	10,266	-9,331	-27,133	64,262	100,726	-36,464
June	673	10,546	-9,873	915	11,542	-10,627	-25,265	68,271	104,164	-35,892
July	723	10,734	-10,011	983	11,952	-10,969	-31,108	59,707	101,784	-42,077
August	929	10,734	-9,512	1,210	11,754	-10,544	-29,432	67,965	107,941	-39,976
September	962	10,502	-9,540	1,207	11,869	-10,662	-28,048	67,639	106,349	-38,710
October	1,180	11,080	-9,900	1,422	12,381	-10,959	-32,141	70,371	113,471	-43,100
November	988	9,979	-8,991	1,315	11,438	-10,333	-28.101	67,910	106.134	-38,224
December	922	10.747	-9.825	R 1,240	13.547	R -12,307	R -20,964	R 65,451	R 98,722	R -33,271
Total	10,153	119,108	-108,955	R 13,130	133,590	R -120,460	R -314,254	R 781,650	R 1,216,364	R -434,714
2001 January	791	10,703	-9,912	1,177	13,276	-12,099	-26,746	62,416	101,260	-38,845

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

b Petroleum, coal, natural gas, and electricity.

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

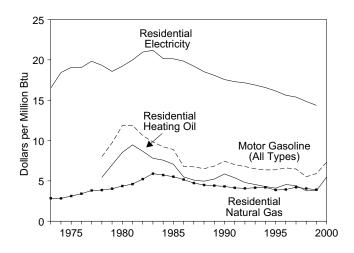
and nongovernment imports of merchandise from foreign countries into the U.S. customs territory, which comprises the 50 States, the District of Columbia,

Puerto Rico, and the Virgin Islands.
Source: U.S. Department of Commerce, Bureau of the Census, Foreign
Trade Division. For details, see "Sources for Table 1.6" at the end of this section.

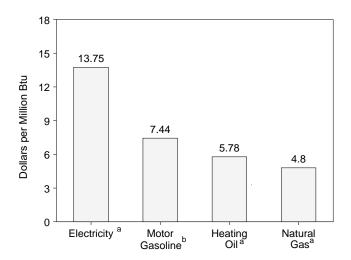
R=Revised.

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

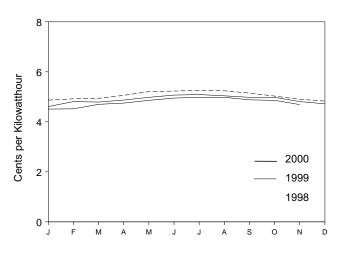
Costs, 1973-2000



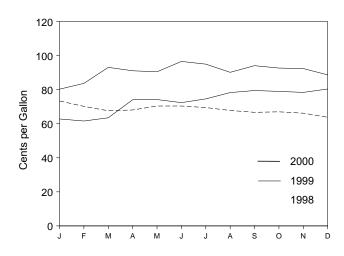
Costs, November 2000



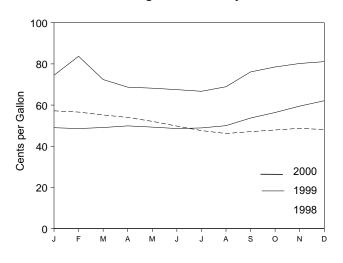
Residential Electricity, Monthly



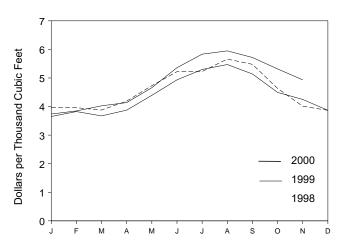
Motor Gasoline (All Types), Monthly



Residential Heating Oil, Monthly



Residential Natural Gas, Monthly



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

^aResidential. ^bAll types. NA=Not available.

Table 1.7 Cost of Fuels to End Users in Constant (1982-84) Dollars

	Consumer Price Index (Urban) ^a	1	Gasoline ypes)		lential ng Oil	Resid Natura	ential al Gas	Residential Electricity	
	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 per Million Btu
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 75.0	NA 5.40	387.8	3.81	6.8	19.83
1978 Average	65.2	100.0	8.00	75.2	5.42	392.6	3.86	6.6	19.33
1979 Average	72.6 82.4	121.5 148.2	9.71 11.85	97.0 118.2	6.99 8.52	410.5 446.6	4.03 4.36	6.3 6.6	18.57 19.21
1980 Average	90.9	148.2	11.00	131.4	9.47	446.6 471.9	4.36 4.60	6.8	19.21
1981 Average	96.5	132.7	10.61	120.2	9.47 8.67	535.8	5.22	7.2	20.96
1982 Average 1983 Average	99.6	123.0	9.83	108.2	7.80	608.4	5.90	7.2	21.19
1984 Average	103.9	115.3	9.22	105.0	7.57	589.0	5.72	6.88	20.17
1985 Average	107.6	111.2	8.89	97.9	7.06	568.8	5.52	6.87	20.17
1986 Average	109.6	84.9	6.79	76.3	5.50	531.9	5.17	6.77	19.84
1987 Average	113.6	84.2	6.74	70.7	5.10	487.7	4.73	6.56	19.22
1988 Average	118.3	81.4	6.51	68.7	4.96	462.4	4.49	6.32	18.53
1989 Average	124.0	85.5	6.83	72.6	5.23	454.8	4.41	6.17	18.08
1990 Average	130.7	93.1	7.44	81.3	5.86	443.8	4.31	5.99	17.56
1991 Average	136.2	87.8	7.02	74.8	5.39	427.3	4.14	5.90	17.30
1992 Average	140.3	84.8	6.78	66.6	4.80	419.8	4.07	5.85	17.15
1993 Average	144.5	81.2	6.49	63.0	4.55	426.3	4.15	5.76	16.88
1994 Average	148.2	79.2	6.36	59.6	4.30	432.5	4.20	5.65	16.57
1995 Average	152.4	79.1	6.37	56.9	4.10	397.6	3.87	5.51	16.15
1996 Average	156.9	82.1	6.61	63.0	4.54	404.1	3.93	5.33	15.62
1997 Average	160.5	80.4	6.48	61.3	4.42	432.4	4.21	5.25	15.39
1998 January	161.6	73.4	5.91	57.2	4.13	396.7	3.84	4.87	14.27
February	161.9	70.2	5.66	56.6	4.08	395.9	3.83	4.92	14.43
March	162.2	67.6	5.45	55.2	3.98	387.8	3.75	4.94	14.47
April	162.5	68.1	5.48	54.0	3.89	419.1	4.06	5.06	14.84
May	162.8	70.4	5.67	52.1	3.76	473.0	4.58	5.21	15.28
June	163.0	70.4	5.68	49.8	3.59	522.1	5.05	5.23	15.34
July	163.2	69.5	5.60	47.6	3.43	522.7	5.06	5.26	15.41
August	163.4	67.8	5.46	46.2	3.33	566.1	5.48	5.24	15.37
September	163.6	66.7	5.37	47.1	3.39	547.7	5.30	5.15	15.10
October	164.0	67.0	5.40	47.9	3.46	463.4	4.49	5.03	14.74
November	164.0 163.9	66.2 63.8	5.34 5.14	48.7 48.1	3.51 3.47	401.2 386.8	3.88 3.74	4.90 4.83	14.37 14.16
December Average	163.9	68.4	5.14 5.51	52.3	3.77	418.4	4.05	5.07	14.16
Average	103.0	00.4	3.51	32.3	3.77	410.4	4.03	3.07	14.03
1999 January	164.3	62.8	5.06	49.0	3.53	365.2	3.55	4.61	13.52
February	164.5	61.6	4.97	48.6	3.51	382.4	3.72	4.81	14.11
March	165.0	63.5	5.12	49.1	3.54	367.3	3.57	4.79	14.03
April	166.2	74.1	5.97	49.9	3.60	387.5	3.77	4.87	14.27
May	166.2 166.2	74.2 72.4	5.98 5.84	49.3 48.6	3.56 3.50	439.2 493.4	4.27 4.80	4.98 5.07	14.58 14.87
June July	166.7	74.6	6.01	48.9	3.53	529.7	5.15	5.09	14.93
August	167.1	78.3	6.31	50.0	3.60	547.0	5.32	5.04	14.77
September	167.9	79.5	6.40	53.7	3.87	514.0	5.00	4.98	14.59
October	168.2	79.0	6.37	56.4	4.07	449.5	4.37	4.98	14.58
November	168.3	78.4	6.32	59.5	4.29	424.8	4.13	4.81	14.09
December	168.3	80.4	6.48	62.1	4.48	386.8	3.76	4.72	13.83
Average	166.6	73.3	5.91	52.6	3.79	401.6	3.91	4.90	14.36
2000 January	168.8	80.3	6.47	74.5	5.37	R 373.8	R 3.64	^R 4.51	^R 13.23
February	169.8	83.7	6.75	83.7	6.04	R 384.6	R 3.74	R 4.52	R 13.26
March	171.2	93.1	7.50	72.4	5.22	R 402.5	R 3.91	R 4.70	R 13.76
April	171.3	91.1	7.34	68.7	4.95	R 413.9	R 4.03	R 4.75	R 13.91
May	171.5	90.5	7.29	68.2	4.91	R 465.9	R 4.53	R 4.86	R 14.24
June	172.4	96.6	7.79	67.5	4.86	R 536.0	^R 5.21	4.95	R 14.50
July	172.8	95.0	7.66	66.7	4.81	R 583.3	^R 5.67	4.98	_ 14.59
August	172.8	90.2	7.27	68.9	4.97	^R 594.9	^R 5.79	R 4.98	^R 14.60
September	173.7	94.1	7.59	76.1	5.48	^R 571.7	^R 5.56	R 4.88	R 14.31
October	174.0	92.7	7.47	78.5	5.66	531.6	5.17	R 4.86	R 14.25
November	174.1	92.4	7.44	80.2	5.78	493.4	4.80	R 4.69	R 13.75
December	174.0	88.7	7.15	81.1	5.85	NA	NA	NA	NA
Average	172.2	90.8	7.32	76.1	5.49	NA	NA	NA	NA

 $^{^{\}rm a}$ Consumer Price Index, All Urban Consumers, All Items, 1982-1984 = 100.0.

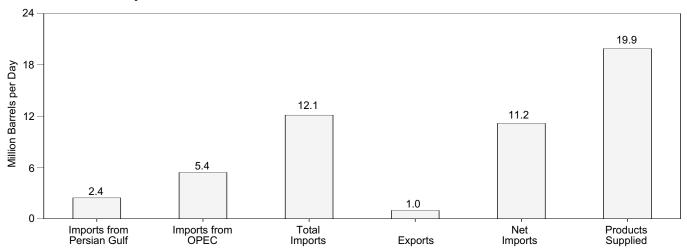
Notes: Fuel costs are calculated by using the Urban Consumer Price Index (CPI) developed by the Bureau of Labor Statistics. Annual averages may not equal average of months due to independent rounding.

Geographic coverage is the 50 States and the District of Columbia. Sources: Fuel Prices: Tables 9.4 (All Types), 9.8c, 9.11, and 9.9, adjusted by the CPI. CPI: 1973-1995—Economic Report of the President, February 2000, Table B-60. 1996 forward—Council of Economic Advisers, Economic Indicators, February 2001, "Consumer Prices - All Urban Consumers." Conversion Factors: Tables A1, A3, A4, and A6.

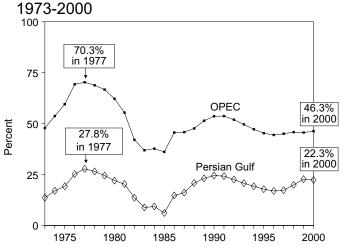
R=Revised. NA=Not available.

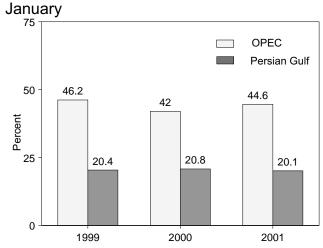
Figure 1.7 Overview of U.S. Petroleum Trade

Overview, January 2001

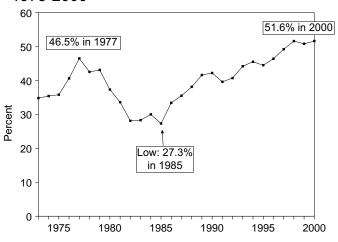


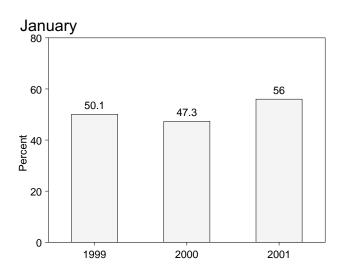
Imports from OPEC and the Persian Gulf as a Share of Total Imports





Net Imports as Share of Products Supplied 1973-2000





OPEC=Organization of Petroleum Exporting Countries. Note: Because vertical scales differ, graphs should not be compared. Source: Table 1.8, 3.1a, and 3.1b.

Table 1.8 Overview of U.S. Petroleum Trade

	Imports from Persian Gulf ^a								hare of Supplied			are of mports
		Imports from OPECb	Total Imports	Exports	Net Imports	Products Supplied	Imports from Persian Gulf ^a	Imports from OPEC ^b	Total Imports	Net Imports	Imports from Persian Gulf ^a	Imports from OPEC ^b
			Thousand	Barrels pe	r Day							
973 Average	848	2,993	6,256	231	6,025	17,308	4.9	17.3	36.1	34.8	13.6	47.8
974 Average		3,280	6,112	221	5,892	16,653	6.2	19.7	36.7	35.4	17.0	53.7
975 Average	1,165	3,601	6,056	209	5,846	16,322	7.1	22.1	37.1	35.8	19.2	59.5
976 Average		5,066	7,313	223	7,090	17,461	10.5	29.0	41.9	40.6	25.2	69.3
977 Average		6,193	8,807	243	8,565	18,431	13.3	33.6	47.8	46.5	27.8	70.3
978 Average		5,751	8,363	362	8,002	18,847	11.8	30.5	44.4	42.5	26.5	68.8
979 Average		5,637	8,456	471	7,985	18,513	11.2	30.5	45.7	43.1	24.5	66.7
980 Average		4,300	6,909	544	6,365	17,056	8.9	25.2	40.5	37.3	22.0	62.2
981 Average	1,219	3,323	5,996	595	5,401	16,058	7.6	20.7	37.3	33.6	20.3	55.4
982 Average	*	2,146	5,113	815	4,298	15,296	4.5	14.0	33.4	28.1	13.6	42.0
983 Average		1,862	5,051	739	4,312	15,231	2.9	12.2	33.2	28.3	8.8	36.9
984 Average		2,049	5,437	722	4,715	15,726	3.2	13.0	34.6	30.0	9.3	37.7
985 Average		1,830	5,067	781	4,286	15,726	2.0	11.6	32.2	27.3	6.1	36.1
986 Average		2,837	6,224	785	5,439	16,281	5.6	17.4	38.2	33.4	14.7	45.6
987 Average		3,060	6,678	764	5,914	16,665	6.5	18.4	40.1	35.5	16.1	45.8
988 Average		3,520	7,402	815	6,587	17,283	8.9	20.4	42.8	38.1	20.8	47.6
989 Average		4,140	8,061	859	7,202	17,325	10.7	23.9	46.5	41.6	23.1	51.4
990 Average		4,296	8,018	857	7,161	16,988	11.6	25.3	47.2	42.2	24.5	53.6
991 Average		4,092	7,627	1,001	6,626	16,714	11.0	24.5	45.6	39.6	24.2	53.7
992 Average		4,092	7,888	950	6,938	17,033	10.4	24.0	46.3	40.7	22.5	51.9
993 Average		4,273	8,620	1,003	7,618	17,237	10.3	24.8	50.0	44.2	20.7	49.6
994 Average		4,247	8,996	942	8,054	17,718	9.8	24.0	50.8	45.5	19.2	47.2
995 Average		4,002	8,835	949	7,886	17,725	8.9	22.6	49.8	44.5	17.8	45.3
996 Average	1,604	4,211	9,478	981	8,498	18,309	8.8	23.0	51.8	46.4	16.9	44.4
997 Average		4,569	10,162	1,003	9,158	18,620	9.4	24.5	54.6	49.2	17.3	45.0
998 Average		4,905	10,708	945	9,764	18,917	11.3	25.9	56.6	51.6	19.9	45.8
999 January		4,819	10,424	896	9,529	19,029	11.2	25.3	54.8	50.1	20.4	46.2
February		5,110	10,650	756	9,894	19,107	12.5	26.7	55.7	51.8	22.4	48.0
March		5,109	10,658	764	9,894	19,497	14.4	26.2	54.7	50.7	26.3	47.9
April		5,679	11,618	1,196	10,422	19,152	13.8	29.7	60.7	54.4	22.7	48.9
May		5,079	11,511	915	10,596	18,705	13.3	27.2	61.5	56.6	21.5	44.1
June		5,040	11,160	907	10,253	19,836	13.1	25.4	56.3	51.7	23.2	45.2
July		5,016	11,697	918	10,779	19,820	12.2	25.3	59.0	54.4	20.8	42.9
August		5,137	11,142	902	10,240	20,093	12.5	25.6	55.5	51.0	22.6	46.1
September		4,825	10,657	889	9,768	19,483	12.6	24.8	54.7	50.1	23.1	45.3
October		4,645	10,595	944	9,651	19,868	12.5	23.4	53.3	48.6	23.4	43.8
November		4,431	10,033	950	9,083	19,087	12.2	23.2	52.6	47.6	23.3	44.2
December		4,564	10,065	1,230	8,835	20,498	11.4	22.3	49.1	43.1	23.2	45.3
Average	2,464	4,953	10,852	940	9,912	19,519	12.6	25.4	55.6	50.8	22.7	45.6
000 January	2,036	4,115	9,795	1,006	8,789	18,592	11.0	22.1	52.7	47.3	20.8	42.0
February		4,653	10,396	870	9,526	19,296	11.7	24.1	53.9	49.4	21.7	44.8
March		5,013	10,768	1,159	9,609	19,064	11.5	26.3	56.5	50.4	20.3	46.6
April		5,067	11,091	1,131	9,960	18,590	12.7	27.3	59.7	53.6	21.3	45.7
May	2,218	4,843	10,981	856	10,125	19,345	11.5	25.0	56.8	52.3	20.2	44.1
June		5,517	11,681	925	10,756	19,833	13.0	27.8	58.9	54.2	22.1	47.2
July		5,143	11,344	900	10,444	19,584	13.2	26.3	57.9	53.3	22.8	45.3
August		5,851	11,849	1,073	10,776	20,224	13.8	28.9	58.6	53.3	23.5	49.4
September		5,357	11,512	1,059	10,453	19,741	14.3	27.1	58.3	53.0	24.5	46.5
October		5,331	11,018	1,292	9,726	19,701	12.8	27.1	55.9	49.4	22.9	48.4
November		5,174	10,857	1,108	9,749	19,064	13.0	27.1	56.9	51.1	22.9	47.7
December		5,558	11,807	1,095	10,712	20,639	13.4	26.9	57.2	51.9	23.5	47.1
Average	2,468	5,136	11,093	1,040	10,053	19,476	12.7	26.4	57.0	51.6	22.3	46.3
001 January	2,438	5,405	12,118	965	11,154	19,900	12.3	27.2	60.9	56.0	20.1	44.6

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

b Organization of Petroleum Exporting Countries. See Glossary.

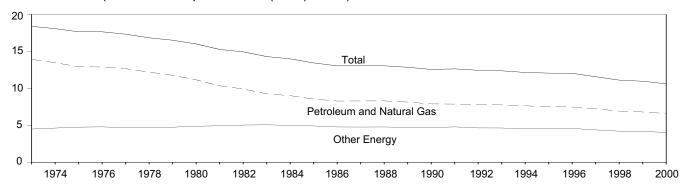
Beginning in October 1977, petroleum imported for the Strategic Petroleum due to independent rounding. U.S. geographic coverage is the 50 States and the District of Columbia. U.S. exports include shipments to U.S. territories, and imports include receipts from U.S. territories.

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.

Notes: Readers of Table 1.8 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.

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

(Thousand Btu per Chained (1996) Dollar)



Energy Consumption per Dollar of Gross Domestic Product

(Seasonally Adjusted at Annual Rates)

	En	ergy Consumption	n		Energy Consumption per Dollar of GDP				
	Petroleum and Natural Gas	Other Energy ^a	Total	Gross Domestic Product (GDP)	Petroleum and Natural Gas	Other Energy ^a	Total		
		Quadrillion Btu		Billion Chained (1996) Dollars	Thousand Bt	u per Chained (199	96) Dollar		
73 Year	57.352	18,456	75.808	4,123.4	13.91	4.48	18.38		
74 Year	55.187	18.893	74.080	4,099.0	13.46	4.61	18.07		
75 Year	52.678	19.364	74.060 72.042	4,099.0	12.90	4.74	17.64		
				,					
76 Year	55.520	20.552	76.072	4,311.7	12.88	4.77	17.64		
77 Year	57.053	21.069	78.122	4,511.8	12.65	4.67	17.32		
78 Year	57.966	22.158	80.123	4,760.6	12.18	4.65	16.83		
79 Year	57.789	23.255	81.044	4,912.1	11.76	4.73	16.50		
80 Year	54.596	23.839	78.435	4,900.9	11.14	4.86	16.00		
81 Year	51.859	24.710	76.569	5,021.0	10.33	4.92	15.25		
82 Year	48.736	24.704	73.440	4,919.3	9.91	5.02	14.93		
83 Year	47.411	25.906	73.317	5,132.3	9.24	5.05	14.29		
84 Year	49.558	27.413	76.972	5,505.2	9.00	4.98	13.98		
85 Year	48.756	28.022	76.778	5,717.1	8.53	4.90	13.43		
86 Year	48.904	28.161	77.065	5,912.4	8.27	4.76	13.03		
87 Year	50.609	29.024	79.633	6,113.3	8.28	4.75	13.03		
88 Year	52.774	30.294	83.068	6,368.4	8.29	4.76	13.04		
89 Year	53.595	^{b c} 31.012	^{b c} 84.607	6,591.8	8.13	4.70	12.84		
90 Year	52.849	31.365	84,214	6,707.9	7.88	4.68	12.55		
91 Year	52.452	31.819	84.271	6,676.4	7.86	4.77	12.62		
92 Year	53.657	31.842	85,499	6.880.0	7.80	4.63	12.43		
93 Year	54.668	32.621	87.289	7,062.6	7.74	4.62	12.36		
94 Year	55.958	33.240	89.198	7,347.7	7.62	4.52	12.14		
95 Year	56.717	34.215	90.931	7,543.8	7.52	4.54	12.05		
96 Year	58.316	R 35.601	R 93.917	7,813.2	7.46	R 4.56	12.02		
97 Year	58.795	R 35.531	R 94.326	8,159.5	7.21	R 4.36	11.56		
98 1st Quarter	57.846	NA	NA	8,404.9	6.88	NA	NA		
2 nd Quarter	59.616	NA	NA	8,465.6	7.04	NA	NA		
3 rd Quarter	60.043	NA	NA	8,537.6	7.03	NA	NA		
4 th Quarter	57.898	NA	NA	8,654.5	6.69	NA	NA		
Year	58.855	R 35.668	R 94.523	8,515.7	6.91	4.19	11.10		
99 1st Quarter	60.773	NA	NA	8,730.0	6.96	NA	NA		
2 nd Quarter	60.295	NA	NA	8,783.2	6.86	NA	NA		
3 rd Quarter	60.280	NA	NA	8,905.8	6.77	NA	NA		
4 th Quarter	59.634	NA	NA	9,084.1	6.56	NA	NA		
Year	60.248	R 36.899	R 97.148	8,875.8	6.79	R 4.16	R 10.95		
00 1st Quarter	R 60.677	NA	NA	9,191.8	6.60	NA	NA		
2 nd Quarter	^R 61.531	NA	NA	9,318.9	^R 6.60	NA	NA		
3 rd Quarter	R 60.743	NA	NA	9,369.5	6.48	NA	NA		
4 th Quarter	62.202	NA	NA	9,394.2	6.62	NA	NA		
Year	61.289	37.505	98.795	9,318.6	6.58	4.02	10.60		

^a Coal, nuclear electric power, renewable energy, and pumped-storage hydroelectric power.

b Beginning in 1989, includes electricity generated by nonutility nuclear

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

Sources: Energy Consumption: Table 1.4. Gross Domestic Product: 1973-1997—U.S. Department of Commerce, Bureau of Economic Analysis, Survey of Current Business, November 1999, Table 3B. 1998 forward—U.S. Department of Commerce, Bureau of Economic Analysis, BEA News Release, February 28, 2001, Table 3, which is available at website www.bea.doc.gov/bea/newsrel/gdp400p.htm.

units.

^c Beginning in 1989, includes coal consumed by "Other Power Producers."

See Table 6.2.

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

Quarterly data are seasonally adjusted and shown at annual Yearly data may not equal average of quarters due to seasonality Notes:

Figure 1.9 Motor Vehicle Fuel Rates

(Miles per Gallon)

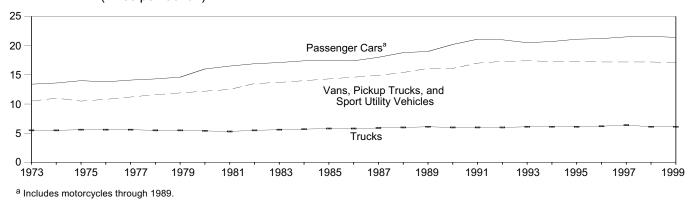


Table 1.10 Motor Vehicle Mileage, Fuel Consumption, and Fuel Rates

	Passenger Cars				ns, Pickup Truc Sport Utility Veh			Trucksb		All Motor Vehicles ^c			
	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 per gallon)	
1973 1974	^d 9,884 ^d 9,221	^d 737 ^d 677	^d 13.4 ^d 13.6	9,779 9,452	931 862	10.5 11.0	15,370 14,995	2,775 2,708	5.5 5.5	10,099 9,493	850 788	11.9 12.0	
1975	d 9,309	d 665	d 14.0	9,829	934	10.5	15,167	2,722	5.6	9,627	790	12.2	
1976	d 9,418	d 681	d13.8	10,127	934	10.8	15,438	2,764	5.6	9,774	806	12.1	
1977	d 9 ,517	d 676	d14.1	10,607	947	11.2	16,700	3,002	5.6	9,978	814	12.3	
1978	d 9,500	d 665	d14.3	10,968	948	11.6	18,045	3,263	5.5	10,077	816	12.4	
1979	d9,062	^d 620 ^d 551	^d 14.6 ^d 16.0	10,802	905	11.9	18,502	3,380	5.5	9,722	776	12.5	
1980 1981	^d 8,813 ^d 8,873	d 538	d16.0	10,437	854 819	12.2 12.5	18,736	3,447	5.4 5.3	9,458	712 697	13.3 13.6	
	d9,050	d 535	d16.9	10,244			19,016	3,565		9,477		14.1	
1982 1983	^d 9,050	d 534	d17.1	10,276 10,497	762 767	13.5 13.7	19,931 21,083	3,647 3,769	5.5 5.6	9,644 9,760	686 686	14.1	
1984	^d 9,248	d 530	d17.4	11,151	767 797	14.0	22,550	3,769 3,967	5.6 5.7	10,017	691	14.2	
1985	d 9,419	d 538	d17.5	10,506	735	14.0	20,597	3,570	5. <i>7</i> 5.8	10,017	685	14.5	
1986	d 9 ,464	d 543	d17.4	10,366	738	14.6	20,397	3,821	5.8	10,020	692	14.7	
1987	d 9.720	d 539	d 18.0	11,114	736 744	14.0	23,349	3,937	5.9	10,143	694	15.1	
1988	d 9,972	d 531	d 18.8	11,465	745	15.4	22,485	3,736	6.0	10,721	688	15.6	
1989	d10,157	d 533	d 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 ^e	11,850	552	21.4	11,958	700	17.1	26,015	4,282	6.1	12,208	729	16.8	

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

Notes: Geographic coverage is the 50 States and the District of Columbia. Web Page: http://www.fhwa.dot.gov/ohim.

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, Table VM-1.

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

c Includes buses and motorcycles, which are not shown separately.

d Includes motorcycles.

e Preliminary.

Table 1.11 Heating Degree-Days by Census Division

		February	1 through F	ebruary 28		Cumulative July 1 through February 28						
				Percent	Change				Percent	Change		
Census Divisions	Normal ^a	2000	2001	Normal to 2001	2000 to 2001	Normal ^a	2000	2001	Normal to 2001	2000 to 2001		
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	1,086	992	1,042	-4	5	4,787	4,479	4,894	2	9		
Middle Atlantic New Jersey, New York, Pennsylvania	1,001	892	912	-9	2	4,303	3,927	4,350	1	11		
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	1,093	886	1,017	-7	15	4,810	4,319	4,945	3	14		
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	1,107	869	1,211	9	39	5,101	4,348	5,433	6	25		
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,	538	442	418	-22	-5	2,292	2,101	2,423	6	15		
West Virginia East South Central Alabama, Kentucky, Mississippi, Tennessee	657	484	519	-22	-5 7	2,292	2,101	3,076	7	23		
West South Central Arkansas, Louisiana, Oklahoma, Texas	447	260	364	-19	40	1,944	1,478	2,199	13	49		
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	765	646	808	6	25	3,901	3,361	4,083	5	22		
Pacific ^b California, Oregon, Washington	438	415	509	16	23	2,239	1,953	2,351	5	20		
U.S. Average ^b	768	636	721	-6	13	3,440	3,048	3,589	4	18		

^a "Normal" is based on calculations of data from 1961 through 1990.

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).

Sources: See end of section.

b Excludes Alaska and Hawaii.

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

Table 1.12 Cooling Degree-Days by Census Division

		February	1 through F	ohruary 28				Cumulative		
				1	Change		January	linoughre	_ <u>-</u>	Change
Census Divisions	Normal ^a	2000	2001	Normal to 2001	2000 to 2001	Normal ^a	2000	2001	Normal to 2001	2000 to 2001
New England Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont	0	0	0	(°)	(°)	0	0	0	(°)	(°)
Middle Atlantic New Jersey, New York, Pennsylvania	0	0	0	(c)	(°)	0	0	0	(c)	(c)
East North Central Illinois, Indiana, Michigan, Ohio, Wisconsin	0	0	0	(°)	(°)	0	0	0	(°)	(°)
West North Central lowa, Kansas, Minnesota, Missouri, Nebraska, North Dakota, South Dakota	0	0	0	(°)	(°)	0	0	0	(°)	(°)
South Atlantic Delaware, Florida, Georgia, Maryland and the District of Columbia, North Carolina, South Carolina, Virginia,	27	00		(6)	(6)	57	45	50	(6)	(6)
West Virginia East South Central Alabama, Kentucky,	4	23	44	(°)	(°)	57	12	56	(c)	(c)
Mississippi, Tennessee West South Central Arkansas, Louisiana, Oklahoma, Texas	11	38	22	(°)	(°)	23	60	23	(°)	(°)
Mountain Arizona, Colorado, Idaho, Montana, Nevada, New Mexico, Utah, Wyoming	2	1	0	(°)	(°)	2	1	0	(°)	(°)
Pacific ^b California, Oregon, Washington	1	0	0	(°)	(°)	2	0	0	(°)	(c)
U.S. Average ^b	6	8	10	(°)	(°)	14	16	13	(°)	(°)

^a "Normal" is based on calculations of data from 1961 through 1990.

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).

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 Notes

- 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 electric utility and nonutility 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 Appendix E for further information on renewable energy.
- 2. Energy Consumption: Includes consumption of fossil fuels (coal, natural gas, and petroleum), some secondary energy derived from fossil fuels (supplemental gaseous fuels, coal coke net imports, and electricity net imports from fossil fuels), nuclear electric power, pumped-storage hydroelectric power, and renewable energy. 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; electric utility and nonutility net electricity generation from conventional hydroelectric power, wood, waste, geothermal, solar, and wind; and net imports of electricity from hydroelectric power and geothermal energy. Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. See Appendix E for further information on renewable energy.
- 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 imports from fossil fuels), and renewable energy (electricity imports derived from hydroelectric power and geothermal energy). Approximate heat contents (Btu values) are derived by using the conversion factors provided in Appendix A. See Appendix E for further information on renewable energy.
- **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 exports from fossil fuels), and renewable energy (electricity exports derived from hydroelectric power). Approximate heat contents (Btu values) are derived by using the conversion factors provided in

Appendix A. See Appendix E for further information on renewable energy.

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 along-side 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.

Sources for Table 1.6

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

Petroleum Exports

1974-1987: "U.S. Exports," FT410, December issues. 1988: "Report on U.S. Merchandise Trade, 1988 Final Revisions."

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

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

1991: "U.S. Merchandise Trade, 1991 Final Report," May 13, 1992.

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

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

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

1995: "U.S. International Trade in Goods and Services, Annual Revision for 1995."

1996: "U.S. International Trade in Goods and Services, Annual Revision for 1996."

1997: "U.S. International Trade in Goods and Services, Annual Revision for 1997."

1998: "U.S. International Trade in Goods and Services, Annual Revision for 1998."

1999 and 2000: "U.S. International Trade in Goods and Services," FT-900, monthly.

Petroleum Imports

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

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

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

1990: "U.S. Merchandise Trade, 1990 Final Report." 1991: "U.S. Merchandise Trade, 1991 Final Report,"

May 13, 1992, and "U.S. Merchandise Trade, October 1992," December 17, 1992, page 3.

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

1993: "U.S. Merchandise Trade, 1992 Final Report," May 12, 1994.

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

1995: "U.S. International Trade in Goods and Services, Annual Revision for 1995."

1996: "U.S. International Trade in Goods and Services, Annual Revision for 1996."

1997: "U.S. International Trade in Goods and Services, Annual Revision for 1997."

1998: "U.S. International Trade in Goods and Services, Annual Revision for 1998."

1999 and 2000: "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: "U.S. Merchandise Trade, 1990 Final Report."

1991: "U.S. Merchandise Trade, 1991 Final Report," May 13, 1992, and "U.S. Merchandise Trade, October 1992," December 17, 1992, page 3.

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

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

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

1995: "U.S. International Trade in Goods and Services, Annual Revision for 1995."

1996: "U.S. International Trade in Goods and Services, Annual Revision for 1996."

1997: "U.S. International Trade in Goods and Services, Annual Revision for 1997."

1998: "U.S. International Trade in Goods and Services, Annual Revision for 1998."

1999 and 2000: "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: "U.S. International Trade in Goods and Services, Annual Revision for 1994."

1993 and 1994: "U.S. International Trade in Goods and Services, Annual Revision for 1995."

1995 and 1996: "U.S. International Trade in Goods and Services, Annual Revision for 1996."

1997 and 1998: "U.S. International Trade in Goods and Services, Annual Revision for 1998."

1999 and 2000: "U.S. International Trade in Goods and Services," FT-900, monthly.

Sources for Tables 1.11 and 1.12

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 1990 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 December 2000 was 9.4 quadrillion Btu, 5 percent higher than in December 1999.

Residential sector total consumption was 2.3 quadrillion Btu in December 2000, 17 percent higher than the December 1999 level. The sector accounted for 24 percent of total energy consumption.

Commercial sector total consumption was 1.6 quadrillion Btu in December 2000, 10 percent higher than the December 1999 level. The sector accounted for 17 percent of total energy consumption.

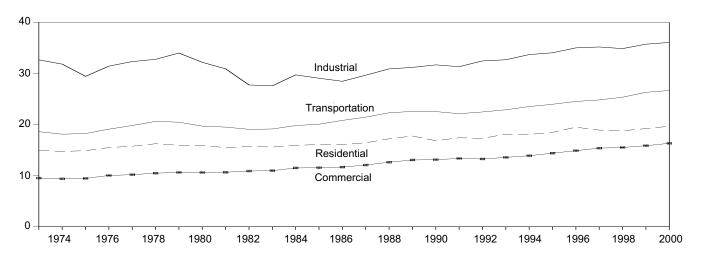
Industrial sector total consumption was 3.2 quadrillion Btu in December 2000, slightly higher than the December 1999 level. The sector accounted for 34 percent of total energy consumption.

Transportation sector total consumption was 2.3 quadrillion Btu in December 2000, down 1 percent from the December 1999 level. The sector accounted for 24 percent of total energy consumption.

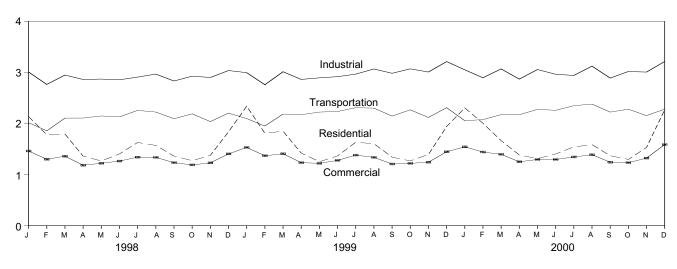
Electric power sector primary consumption was 3.1 quadrillion Btu in December 2000, 3 percent higher than the December 1999 level. Fossil fuels accounted for 67 percent of all primary energy consumed by the electric power sector; nuclear electric power 23 percent; and renewable energy 10 percent.

Figure 2.1 Energy Consumption by Sector

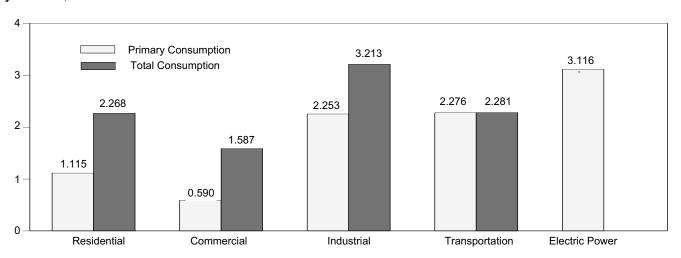
Total Consumption by End Use, 1973-2000



Total Consumption by End Use, Monthly



By Sector, December 2000



Note: Because vertical scales differ, graphs should not be compared. Source: Table 2.1.

Table 2.1 Energy Consumption by Sector

				End-Use	Sectorsa				Electric	
	Resid	dential	Comr	nercial	Indu	strial	Transp	ortation	Power Sector ^a	
	Primary	Total	Primary	Total	Primary	Total	Primary	Total	Primary	Total ^b
1973 Total	8.258	14.983	4.373	9.534	24.706	32.672	18.576	18.612	19.887	75.808
1974 Total	7.948	14.745	4.201	9.374	23.783	31.835	18.086	18.119	20.055	74.080
1975 Total	8.027	14.888	4.002	9.465	21.422	29.445	18.209	18.244	20.382	72.042
1976 Total	8.431	15.493	4.310 4.193	10.038 10.194	22.652 23.160	31.434	19.065	19.099 19.820	21.607	76.072 78.122
1977 Total 1978 Total	8.232 8.309	15.765 16.249	4.193	10.194	23.245	32.336 32.770	19.784 20.580	20.615	22.746 23.755	80.123
1979 Total	7.971	15.937	4.296	10.635	24.177	33.999	20.436	20.471	24.162	81.044
1980 Total	7.533	15.938	4.068	10.613	22.640	32.189	19.658	19.696	24.538	78.435
1981 Total	7.142	15.482	3.791	10.672	21.371	30.906	19.469	19.506	24.793	76.569
1982 Total	7.206	15.704	3.816	10.906	19.079	27.756	19.032	19.070	24.303	73.440
1983 Total	6.879	15.603	3.783	10.989	18.565	27.580	19.098	19.141	24.989	73.317
1984 Total	7.036	15.927	3.945	11.510	20.175	29.724	19.761	19.809	26.053	76.972
1985 Total	7.024	16.095	3.676	11.550	19.507	29.067	20.023	20.071	26.552	76.778
1986 Total	6.842	16.087	3.617	11.684	19.100	28.474	20.768	20.818	26.735	77.065
1987 Total	6.874	16.437	3.710	12.078	20.013	29.664	21.405	21.456	27.633	79.633
1988 Total	7.280	17.213	3.918	12.640	20.926	30.899	22.261	22.313	28.681	83.068
1989 Total 1990 Total	7.522 6.494	17.769 16.843	3.892 3.742	13.067 13.130	20.716 21.097	31.191 31.687	22.517 22.488	22.571 22.541	29.950 30.380	84.607 84.214
1991 Total	6.723	17.415	3.800	13.371	20.741	31.333	22.077	22.130	30.908	84.271
1992 Total	6.916	17.300	3.834	13.264	21.666	32.458	22.419	22.471	30.659	85.499
1993 Total	7.156	18.124	3.828	13.582	21.916	32.690	22.844	22.896	31.549	87.289
1994 Total	6.991	18.073	3.865	13.899	22.628	33.704	23.467	23.522	32.247	89.198
1995 Total	7.063	18.491	3.958	14.406	22.951	34.052	23.921	23.975	33.031	90.931
1996 Total	R 7.598	R 19.483	R 4.127	^R 14.887	R 23.704	R 35.016	24.469	24.523	34.012	R 93.917
1997 Total	R 7.136	R 18.920	R 4.150	R 15.394	R 23.877	R 35.189	R 24.770	R 24.823	34.393	R 94.326
1998 January	R 1.025	R 2.134	.548	1.461	R 2.118	R 3.006	R 2.010	2.014	2.914	^R 8.612
February	R .876	^R 1.779	.478	1.299	^R 1.906	R 2.764	R 1.852	^R 1.856	2.585	^R 7.693
March	R .841	R 1.793	.454	R 1.359	R 2.015	R 2.947	2.100	R 2.105	2.793	R 8.200
April	R .564	R 1.361	.326	1.182	R 1.959	R 2.861	2.102	2.106	2.559	R 7.505
May	R .374	R 1.266	.239	1.221	R 1.846	R 2.869	2.142	2.147	2.901	R 7.502
June	R .294 R .270	1.404 ^R 1.628	.200 R .204	1.264	^R 1.846 ^R 1.920	^R 2.855 ^R 2.908	2.125 ^R 2.252	2.129	3.187	^R 7.655 ^R 8.138
July August	R .258	R 1.570	.204	1.341 1.336	R 1.954	R 2.966	2.218	2.256 2.223	3.488 3.458	R 8.100
September	R .251	R 1.362	.196	R 1.233	R 1.903	R 2.831	2.087	2.092	3.081	R 7.521
October	R .360	R 1.272	.242	1.188	R 2.006	R 2.926	2.184	R 2.189	2.784	R 7.574
November	R 560	R 1.376	.336	1.229	R 1.981	R 2.900	2.032	2.036	2.633	^R 7.540
December	R .814	R 1.837	.454	1.404	R 2.078	R 3.036	2.198	2.203	2.934	R 8.477
Total	R 6.487	R 18.781	R 3.884	R 15.516	R 23.532	R 34.870	R 25.307	R 25.361	35.319	R 94.523
1999 January	R _{1.144}	R 2.337	R .579	R 1.531	R 2.102	R 2.994	R 2.092	R 2.096	R 3.041	R 8.958
February	R .891	R 1.809	R .494	R 1.368	R 1.895	R 2.758	R 1.946	R 1.950	R 2.659	R 7.883
March	R .874	R 1.848	R .480	R 1.407	R 2.077	R 3.012	R 2.180	R 2.184	2.841	8.450
April	R .583	R 1.421	R .329	R 1.233	R 1.931	R 2.862	R 2.167	R 2.171	2.677	7.685
May June	R .383 R .303	^R 1.252 ^R 1.365	R .237 R .202	^R 1.220 ^R 1.277	^R 1.885 ^R 1.906	^R 2.893 ^R 2.916	^R 2.219 ^R 2.230	^R 2.223 ^R 2.234	2.866 R 3.152	^R 7.589 7.798
July	R .273	R 1.632	R .192	R 1.381	R 1.940	R 2.966	R 2.304	R 2.309	3.579	8.295
August	R .267	R 1.604	R.198	R 1.337	R 2.063	R 3.066	R 2.295	R 2.300	R 3.485	R 8.314
September	R 284	R 1.341	R.196	R 1.206	R 2.061	R 2.982	R 2.139	R 2.144	R 2.993	R 7.677
October	R .402	R 1.268	R .249	^R 1.219	R 2.126	R 3.069	R 2.262	R 2.267	R 2.783	R 7.824
November	R .549	^R 1.393	R .321	R 1.242	R 2.054	R 3.007	^R 2.114	^R 2.118	R 2.723	^R 7.760
December	R .880	R 1.940	R .457	R 1.446	R 2.249	R 3.211	R 2.304	R 2.309	R 3.016	R 8.908
Total	R 6.832	R 19.213	R 3.932	R 15.868	R 24.291	R 35.733	R 26.256	R 26.312	R 35.815	R 97.148
2000 January	R 1.121	R 2.304	R .576	R 1.542	R 2.108	R 3.050	R 2.050	R 2.054	R 3.094	R 8.952
February	R .991	R 2.004	R .545	R 1.441	R 2.015	R 2.894	R 2.071	R 2.076	R 2.792	R 8.417
March	R .740 R .558	^R 1.663 ^R 1.383	R .458 R .339	^R 1.396 ^R 1.250	^R 2.109 ^R 1.937	R 3.068 R 2.868	R 2.169 R 2.165	^R 2.173 ^R 2.170	R 2.825 R 2.672	^R 8.301 ^R 7.670
April May	R.376	1.311	R .258	R 1.250	R 2.052	R 3.055	R 2.165	R 2.170	R 2.980	R 7.940
June	R 296	R 1.403	R .221	R 1.295	R 1.991	R 2.963	R 2.253	R 2.258	R 3.158	R 7.927
July	R .269	R 1.541	R .222	R 1.344	R 1.979	R 2.940	R 2.344	R 2.348	R 3.359	R 8.181
August	R .272	R 1.586	R .223	R 1.388	R 2.117	R 3.122	R 2.374	R 2.379	R 3.489	R 8.485
September	R .290	R 1.369	.226	R 1.242	R 1.982	R 2.888	R 2.218	R 2.222	R 3.005	R 7.726
October	R .396	^R 1.296	R .259	R 1.233	R 2.089	R 3.017	R 2.275	R 2.279	R 2.806	^R 7.829
November	R .630	R 1.530	^R .367	R 1.322	R 2.050	R 3.006	^R 2.150	R 2.154	^R 2.815	^R 8.016
December	1.115	2.268	.590	1.587	2.253	3.213	2.276	2.281	3.116	9.353
Total	7.056	19.667	4.285	16.335	24.683	36.077	26.615	26.671	36.111	98.795

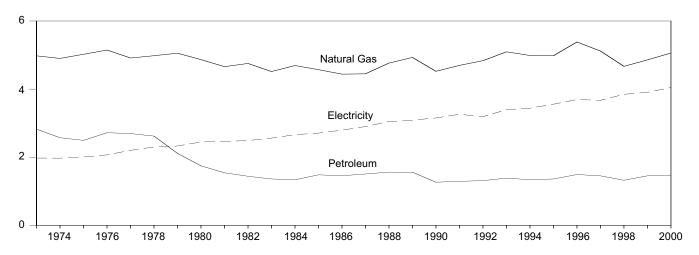
Notes: Primary consumption includes coal, natural gas, petroleum, nuclear electric power, hydroelectric power, wood, waste, alcohol fuels, geothermal, solar, wind, net imports of coal coke, and net imports of electricity. Total consumption includes primary consumption; electric utility retail sales of electricity, including nonutility sales of electricity to utilities for distribution to end users; and electrical system energy losses. Geographic coverage is the 50 States and the District of Columbia.

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

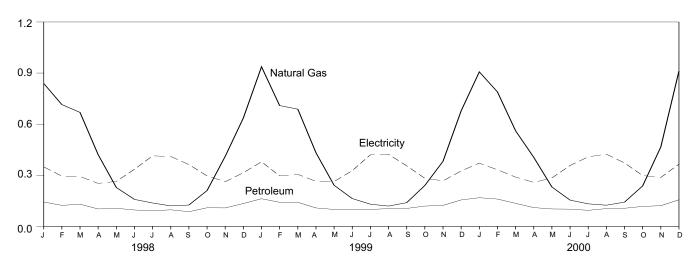
^a Most nonutility use of fossil fuels to produce electricity is included in the end-use sectors. See Note 2 at end of section.
^b The sum of primary consumption in the five energy-use sectors equals the sum of total consumption in the four end-use sectors. However, total energy consumption does not exactly equal the sum of the sectoral components due to independent rounding and the use of sector-specific conversion factors for natural reas and coal gas and coal. R=Revised.

Figure 2.2 Residential Sector Energy Consumption

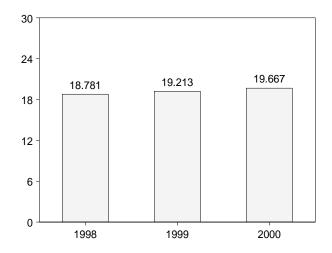
By Major Sources, 1973-2000



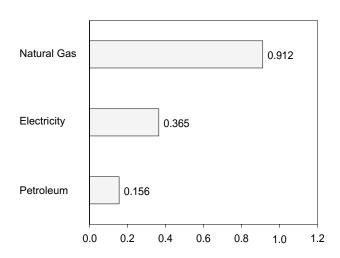
By Major Sources, Monthly



Total, January-December



By Major Sources, December 2000



Note: Because vertical scales differ, graphs should not be compared. Source: Table 2.2.

Table 2.2 Residential Sector Energy Consumption

				Prima	ary Consum	ption						
		Foss	il Fuels ^a			Renewable	Energy				Electrical	
	Coal	Natural Gas ^b	Petroleum	Total	Woodc	Geo- thermal ^d	Solare	Total	Total Primary	Electricityf	System Energy Losses ^g	Total
1973 Total	0.102	4.977	2.825	7.904	0.354	NA	NA	0.354	8.258	1.976	4.749	14.983
1974 Total	.103	4.901	2.573	7.577	.371	NA	NA	.371	7.948	1.973	4.824	14.745
1975 Total	.084	5.023	2.495	7.601	.425	NA	NA	.425	8.027	2.007	4.855	14.888
1976 Total	.081	5.147	2.720	7.949	.482	NA	NA	.482	8.431	2.069	4.994	15.493
1977 Total	.082	4.913	2.695	7.690	.542	NA	NA	.542	8.232	2.202	5.331	15.765
1978 Total	.085 .075	4.981 5.055	2.620 2.114	7.687 7.243	.622 .728	NA NA	NA NA	.622 .728	8.309 7.971	2.301 2.330	5.639 5.636	16.249 15.937
1979 Total 1980 Total	.060	4.866	1.748	6.674	.859	NA NA	NA NA	.859	7.533	2.330 2.448	5.958	15.937
1981 Total	.070	4.660	1.543	6.273	.869	NA	NA	.869	7.142	2.464	5.876	15.482
1982 Total	.075	4.753	1.441	6.269	.937	NA	NA	.937	7.206	2.489	6.008	15.704
1983 Total	.075	4.516	1.362	5.954	.925	NA	NA	.925	6.879	2.562	6.162	15.603
1984 Total	.083	4.692	1.337	6.113	.923	NA	NA	.923	7.036	2.662	6.229	15.927
1985 Total 1986 Total	.070 .070	4.571 4.439	1.483 1.457	6.125 5.966	.899 .876	NA NA	NA NA	.899 .876	7.024 6.842	2.709 2.795	6.362 6.450	16.095 16.087
1987 Total	.065	4.449	1.508	6.022	.852	NA	NA	.852	6.874	2.902	6.662	16.437
1988 Total	.067	4.765	1.563	6.395	.885	NA	NA	.885	7.280	3.046	6.887	17.213
1989 Total	.058	4.929	1.560	6.547	.918	.005	.053	.976	7.522	3.090	7.157	17.769
1990 Total	.062	4.523	1.266	5.852	.581	.006	.056	.642	6.494	3.153	7.196	16.843
1991 Total	.056	4.697	1.293	6.047	.613	.006	.058	.677	6.723	3.260	7.432	17.415
1992 Total 1993 Total	.057 .057	4.835 5.095	1.312 1.387	6.205 6.540	.645 .548	.006 .007	.060 .062	.711 .616	6.916 7.156	3.193 3.394	7.191 7.574	17.300 18.124
1994 Total	.056	4.988	1.340	6.384	.537	.006	.064	.607	6.991	3.441	7.641	18.073
1995 Total	.054	4.981	1.361	6.396	.596	.007	.065	.667	7.063	3.557	7.871	18.491
1996 Total	.055	5.383	^R 1.492	^R 6.930	.595	.007	.066	.668	^R 7.598	3.693	8.192	^R 19.483
1997 Total	.058	5.118	R 1.454	R 6.630	.433	.007	.065	.506	R 7.136	3.671	8.113	R 18.920
1998 January	.005	.839	R .143	R .987	A .032	A .001	A .005	A .038	R 1.025	.349	.759	R 2.134
February	.004	.715	R .123	R .842	A .029	A .001	A .005	A .034	R .876	.295	.608	R 1.779
March	.004	.669	R .130	R .803	A .032	A .001	A .005	A .038	R .841	.293	.660	R 1.793
April	.004 .002	.421 .228	^R .102 ^R .106	^R .527 ^R .336	^A .031 ^A .032	^A .001 ^A .001	^A .005 ^A .005	^A .037 ^A .038	^R .564 ^R .374	.252 .264	.545 .628	^R 1.361 ^R 1.266
May June	.002	.158	R .096	R .257	A .031	A .001	A .005	A .037	R .294	.335	.775	1.404
July	.003	.137	R .091	R .231	A .032	A .001	A .005	A .038	R .270	.414	.944	R 1.628
August	.003	.120	R .097	R .220	A .032	A .001	A .005	A .038	R .258	.410	.902	R 1.570
September	.002	.125	R .086	R .214	A .031	A .001	A .005	A .037	R .251	.363	.748	R 1.362
October	.003	.210	^R .109 ^R .108	R .321	A .032	^A .001 ^A .001	A .005	^A .038 ^A .037	R .360 R .560	.296	.617	R 1.272
November December	.004 .006	.411 .636	R .134	R .524 R .776	^A .031 ^A .032	A.001	A .005 A .005	A .037	R .814	.262 .315	.554 .707	^R 1.376 ^R 1.837
Total	.044	4.669	R 1.324	R 6.037	.377	.008	.065	.449	R 6.487	3.848	8.446	R 18.781
1999 January	.005	.937	R .162	R 1.103	A .034	A .001	A .005	A .040	R 1.144	.379	R .814	R 2.337
February	.004	.709	R .141	R .854	A .031	A .001	A .005	A .037	R .891	.296	.622	R 1.809
March	.004	.688	R .141	R .833	^A .034	A .001	A .005	A .040	R .874	.305	.669	R 1.848
April	.004	.432	R .108	R .544	A .033	A .001	A .005	A .039	R .583	.264	.575	R 1.421
May	.003 .002	.241 .163	R .099 R .099	R .342 R .264	^A .034 ^A .033	^A .001 ^A .001	^A .005 ^A .005	^A .040 ^A .039	R .383 R .303	.263 .327	.606 .734	^R 1.252 ^R 1.365
June July	.002	.130	R .099	R .233	A .034	A .001	A .005	A .040	R .273	.420	.734 R .939	R 1.632
August	.003	.119	R .104	R .226	A .034	A .001	A .005	A .040	R .267	.423	.914	R 1.604
September	.002	.139	R .105	R .245	A .033	A .001	A .005	A .039	R .284	.355	R .701	R 1.341
October	.003	.240	R .119	R .362	A .034	A .001	A .005	A .040	R .402	.282	.584	R 1.268
November	.004	.382	^R .123 ^R .155	R .509 R .840	^A .033 ^A .034	A .001 A .001	A .005 A .005	^A .039 ^A .040	R .549 R .880	.267	^R .577 ^R .735	^R 1.393 ^R 1.940
December Total	.006 .044	.678 4.858	R 1.454	R 6.356	.404	.001	.063	.476	R 6.832	.325 3.906	R 8.474	R 19.213
2000 January	.006	R .907	R .168	R 1.081	A .034	A .001	A .005	A .040	^R 1.121	R .371	R .812	R 2.304
February	.004	R .789	R .160	R .954	A .032	A .001	A .005	A .038	R .991	R .332	R .681	R 2.004
March	.003	R .561	R .135	R .700	A .034	A .001	A .005	A .040	R .740	R .289	R .634	^R 1.663
April	.004	R .405	R .110	R .519	A .033	A .001	A .005	A .039	R .558	R .258	R .567	^R 1.383
May	.003	R .231	R .102	к.336	A .034	A .001	A .005	A .040	R .376	R .284	R .651	1.311
June	.003	R .154	.101 R 094	R .257 R .229	A .033	^A .001 ^A .001	A .005	^A .039 ^A .040	^R .296 ^R .269	.357 R 408	R .750	R 1.403
July August	.003 .003	^R .132 ^R .124	^R .094 ^R .104	R .229	^A .034 ^A .034	A.001	A .005 A .005	A .040 A .040	R .269	^R .408 .424	^R .863 ^R .891	^R 1.541 ^R 1.586
September	003	R .142	R.106	R .251	A .033	A .001	A .005	A .039	R .290	R .372	R .707	R 1.369
October	F.002	.237	R .117	RE .356	^A .034	A .001	A .005	A .040	R .396	R .298	R .601	R 1.296
November	+.004	R .466	R .121	RE .591	A .033	A .001	A .005	A .039	R .630	R .287	R .612	R 1.530
December	F.006	F.912	.156	E 1.074	A .034	A .001	A .005	A .040	1.115	F.365	.788	2.268
Total	E.044	E 5.061	1.475	^Ŀ 6.580	.404	.009	.063	.476	7.056	E 4.045	8.565	19.667

Most nonutility use of fossil fuels to produce electricity is included in the end-use sectors. See Note 2 at end of section.
 b Includes supplemental gaseous fuels.

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

Additional Notes and Sources: See end of section. Notes: rounding.

<sup>C Wood only.

Geothermal heat pump and direct use energy.

Solar thermal direct use and photovoltaic energy. Includes small amounts of special sector use.

Solar thermal direct use and photovoltaic energy. Includes small amounts of special sector use.</sup>

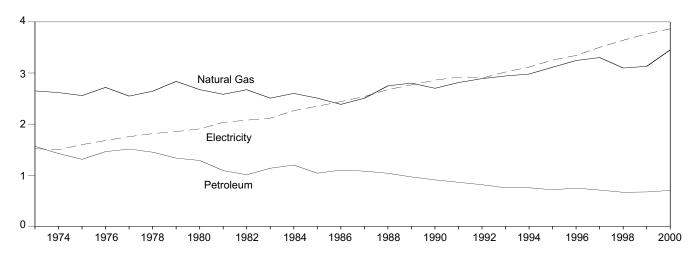
commercial sector use.

f Electric utility retail sales of electricity, including nonutility sales of electricity to utilities for distribution to end users; does not include nonutility facility use of onsite electricity generation or electricity sold by nonutilities directly to end users.

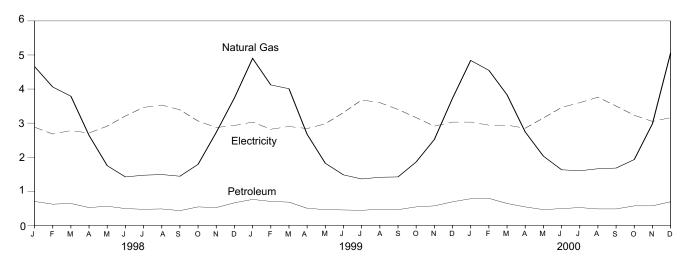
⁹ See Note 12 at end of section. R=Revised. NA=Not available. E=Estimate. F=Forecast. A=Apportioned data: monthly estimates for 1998 and 1999 are created by dividing the annual value by 365 and then multiplying by the number of days in the month; temporary 2000 monthly estimates are created by dividing the 1999 annual value by 366 and multiplying by the number of days in the month.
Notes: Totals may not equal sum of components due to independent.

Figure 2.3 Commercial Sector Energy Consumption

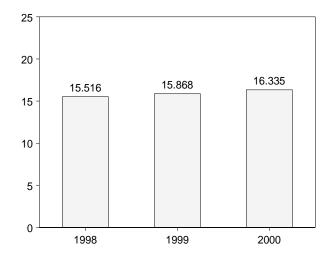
By Major Sources, 1973-2000



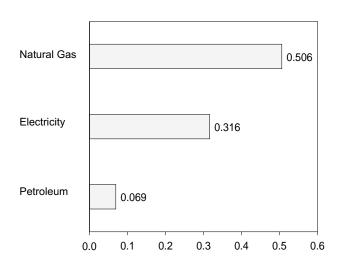
By Major Sources, Monthly



Total, January-December



By Major Sources, December 2000



Note: Because vertical scales differ, graphs should not be compared. Source: Table 2.3.

Table 2.3 Commercial Sector Energy Consumption

				Primary Co	nsumption						
		Foss	il Fuels ^a		Re	newable Ene	rgy			Electrical	
	Coal	Natural Gas ^b	Petroleum	Total	Woodc	Geo- thermal ^d	Total	Total Primary	Electricitye	System Energy Losses ^f	Total
1973 Total	0.152	2.649	1.565	4.367	0.007	NA	0.007	4.373	1.517	3.644	9.534
1974 Total		2.617	1.423	4.194	.007	NA NA	.007	4.201	1.501	3.672	9.374
1975 Total		2.558	1.310	3.994	.008	NA NA	.008	4.002	1.598	3.865	9.465
1976 Total	.122	2.718	1.461	4.301	.009	NA NA	.009	4.310	1.678	4.049	10.038
1977 Total		2.548	1.511	4.182	.010	NA NA	.010	4.193	1.754	4.247	10.194
1978 Total	.128	2.643	1.450	4.221	.012	NA	.012	4.233	1.813	4.443	10.489
1979 Total	.112	2.836	1.334	4.282	.014	NA	.014	4.296	1.854	4.485	10.635
1980 Total	.086	2.674	1.288	4.047	.021	NA	.021	4.068	1.906	4.639	10.613
1981 Total	.097	2.583	1.090	3.770	.021	NA	.021	3.791	2.033	4.848	10.672
1982 Total	.112	2.673	1.008	3.794	.022	NA	.022	3.816	2.077	5.014	10.906
1983 Total	.117	2.508	1.136	3.761	.022	NA	.022	3.783	2.116	5.090	10.989
1984 Total	.125	2.600	1.198	3.923	.022	NA	.022	3.945	2.264	5.300	11.510
1985 Total		2.508	1.039	3.652	.024	NA	.024	3.676	2.351	5.522	11.550
1986 Total		2.386	1.099	3.590	.027	NA	.027	3.617	2.439	5.628	11.684
1987 Total		2.505	1.079	3.681	.029	NA	.029	3.710	2.539	5.829	12.078
1988 Total		2.748	1.037	3.886	.032	NA	.032	3.918	2.675	6.047	12.640
1989 Total	.088	2.802	.966	3.855	.034	.003	.037	3.892	2.767	6.409	13.067
1990 Total		2.701	.908	3.702	.037	.003	.040	3.742	2.860	6.528	13.130
1991 Total		2.813	.861	3.758	.039	.003	.042	3.800	2.918	6.652	13.371
1992 Total	.085	2.890	.814	3.788	.042	.003	.045	3.834	2.900	6.530	13.264
1993 Total		2.942	.753	3.780	.044	.003	.047	3.828	3.019	6.736	13.582
1994 Total	.083	2.979	.753	3.816	.045	.004	.049	3.865	3.116	6.918	13.899
1995 Total	.081	3.113	.715	3.908	.045	.005	.050	3.958	3.252	7.196	14.406
1996 Total		3.244	R .747	R 4.073	.049	.005	.054	R 4.127	3.344	7.416	R 14.887
1997 Total	.087	3.302	R .709	R 4.098	.047	.006	.053	R 4.150	3.502	7.741	R 15.394
1998 January	.008	.466	.070	.543	A .004	A .001	A .005	.548	.288	.626	1.461
February	.006	.406	.062	.474	A .004	A .001	A .004	.478	.268	.553	1.299
March		.379	.064	.449	A .004	A .001	A .005	.454	.278	.627	^R 1.359
April		.264	.052	.322	A .004	A .001	A .004	.326	.271	.585	1.182
May		.175	.056	.235	A .004	A .001	A .005	.239	.291	.691	1.221
June	.004	.142	.049	.196	A .004	A .001	A .004	.200	.321	.742	1.264
July		.147	.047	.199	A .004	A .001	A .005	R .204	R .346	.791	1.341
August		.149	R .048	R .202	A .004	A .001	A .005	.206	.353	.777	1.336
September	.004	.144	.043	R .192	A .004	A .001	A .004	.196	.339	.698	R 1.233
October	.004	.179	.054	.237	A .004	A .001	A .005	.242	.306	.640	1.188
November	.006	.273	.052	.331	A .004	A .001	A .004	.336	.287	.606	1.229
December	.010	.374	.066	R .450	A .004	A .001	A .005	.454	.293	.657	1.404
Total	.066	3.098	R .665	R 3.830	.047	.007	.054	R 3.884	3.641	7.992	R 15.516
1999 January	.008	.490	R .076	R .573	A .005	A .001	A .005	R .579	.303	.649	R 1.531
February	.006	.412	R .070	R .489	A .004	A .001	A .005	R .494	.282	R .593	R 1.368
March		.401	R .068	R .474	A .005	A .001	A .005	R .480	.290	.637	^R 1.407
April		.267	R .050	R .324	A .005	A .001	A .005	R .329	.284	.619	^R 1.233
May		.182	R .046	R .231	A .005	^A .001	A .005	R .237	.298	.686	R 1.220
June		.148	R .045	R _. 197	A .005	^A .001	A .005	R .202	R .331	744	R 1.277
July	.006	.136	R .044	R _. 186	A .005	A .001	A .005	R .192	.368	R .822	^R 1.381
August		.141	R .047	R .192	A .005	A .001	A .005	R.198	.360	.779	R 1.337
September		.142	R .046	.191	A .005	A .001	A .005	R.196	.340	R .671	R 1.206
October		.186	R .054	R .244	A .005	A .001	A .005	R .249	.316	R .655	R 1.219
November		.252	R .057	R .316	A .005	A .001	A .005	R .321	.291	.629	R 1.242
December Total	.010 .067	.373 3.130	R .069 R .672	^R .451 ^R 3.868	^A .005 .057	A .001 .007	^A .005 .064	R .457 R 3.932	.303 3.766	R .686 R 8.170	R 1.446 R 15.868
2000 January	.009	R .484	R .078	R .571	A .005	A .001	A .005	R .576	R .303	R .663	R 1.542
February		R .455	R .079	R .540	A .004	A .001	A .005	R .545	.294 R 204	R .602	R 1.441
March		.383 R .274	R .064	R .452 R .334	^A .005 ^A .005	A .001	A .005	R .458	R .294	^R .644 ^R .626	R 1.396 R 1.250
April		".2/4 R 202	R .054			A .001	A .005	R .339	.285 R 215		1.250 R 4.005
May		R .203	^R .046 ^R .049	^R .253 ^R .216	A .005	A .001	A .005	^R .258 ^R .221	R .315	^R .722 ^R .728	R 1.295
June		R .163 R .160	".049 R 052		A .005	A .001	A .005	".ZZI	^R .346 ^R .360		R 1.295
July		R .166	^R .052 ^R .048	^R .217 ^R .218	^A .005 ^A .005	^A .001 ^A .001	A .005 A .005	R .222 R .223	R .376	^R .762 ^R .789	^R 1.344 ^R 1.388
August		R .168	R .048	.220	A .005	A.001 A.001	A .005		R .350	R .666	R 1.242
September		R .193	R .057	.220 E .254	A .005	A.001 A.001	A .005	.226 R .259	R .323	R .651	R 1.233
October		R .298	R .057	E.362	A .005	A.001 A.001	A .005	R .367	R .305	R .650	R 1.322
November			(15)/	50/	(1(1)	()() [0:00	
November	F 010	F 506		E FOF					F 216		
November December Total	F _. 010	F.506 E 3.452	.069 . 702	E .585	^A .005 .057	A .001 . 007	A .005 . 064	.590 4.285	F.316 E 3.865	.681 8.184	1.587 16.335

^a Most nonutility use of fossil fuels to produce electricity is included in the end-use sectors. See Note 2 at end of section.

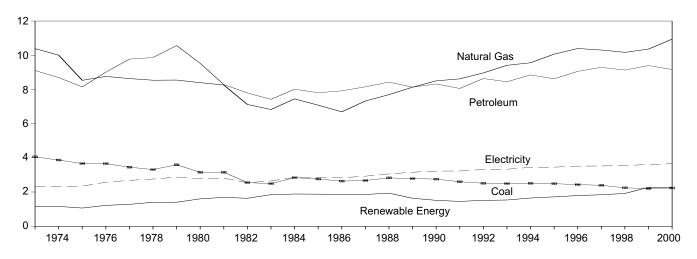
^b Includes supplemental gaseous fuels.

R=Revised. NA=Not available. E=Estimate. F=Forecast. A=Apportioned data: monthly estimates for 1998 and 1999 are created by dividing the annual value by 365 and then multiplying by the number of days in the month; temporary 2000 monthly estimates are created by dividing the 1999 annual value by 366 and multiplying by the number of days in the month. Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia. Additional Notes and Sources: See end of section.

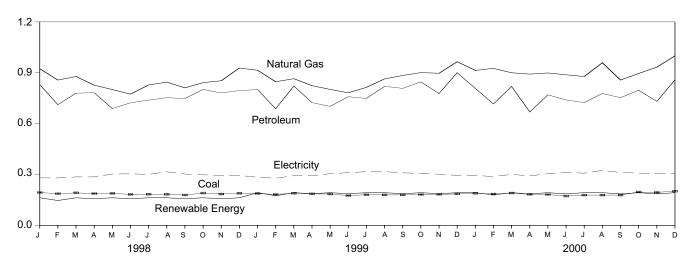
b Includes supplemental guscular Wood only.
c Wood only.
d Geothermal heat pump and direct use energy.
e Electric utility retail sales of electricity, including nonutility sales of electricity to utilities for distribution to end users; does not include nonutility facility use of onsite electricity generation or electricity sold by nonutilities directly to end users.
f See Note 12 at end of section.

Figure 2.4 Industrial Sector Energy Consumption

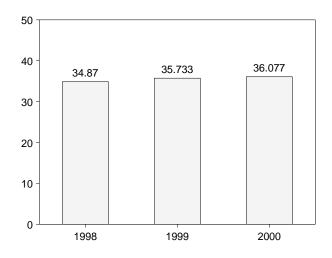
By Major Sources, 1973-2000



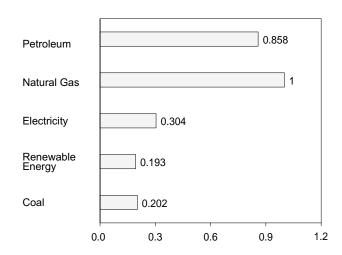
By Major Sources, Monthly



Total, January-December



By Major Sources, December 2000



Note: Because vertical scales differ, graphs should not be compared. Source: Table 2.4.

Table 2.4 Industrial Sector Energy Consumption

				Primar	ry Consum	ption						
			Fossil Fuels	s ^a	<u>-</u>	Rer	newable Ene	rgy				
	Coal	Coal Coke Net Imports	Natural Gas ^b	Petroleum	Total	Wood ^c and Waste ^d	Geo- thermal ^e	Total	Total Primary	Electricityf	Electrical System Energy Losses ⁹	Total
1973 Total 1974 Total 1975 Total 1975 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 1988 Total 1989 Total 1989 Total 1999 Total 1999 Total 1991 Total 1992 Total 1993 Total 1993 Total 1994 Total 1995 Total 1995 Total 1996 Total 1997 Total	4.057 3.870 3.667 3.454 3.314 3.53 3.155 2.552 2.490 2.842 2.760 2.828 2.787 2.756 2.601 2.515 2.496 2.510 2.518 2.496 2.518 2.498 2.498 2.498	-0.007 .056 .014 (s) .015 .125 .063 .035016022011 .013 .017 .009 .040 .030 .005 .010 .035	10.388 10.004 8.532 8.762 8.635 8.539 8.549 8.257 7.121 6.826 7.448 7.080 6.690 7.323 7.696 8.131 8.502 8.619 8.967 9.410 9.560 10.064 10.393 10.307	9.104 8.694 8.146 9.010 9.774 9.867 10.568 9.525 8.285 7.794 7.420 8.014 7.805 7.920 8.151 8.430 8.133 8.320 8.057 8.638 8.449 8.849 8.621	23.541 22.624 20.359 21.432 21.879 21.845 22.773 21.040 19.682 17.446 16.720 18.292 17.632 17.234 18.155 18.993 19.287 20.154 20.382 20.977 21.234 R 21.909	1.165 1.159 1.063 1.220 1.281 1.400 1.600 1.689 1.634 1.845 1.883 1.875 1.866 1.858 1.933 1.634 1.512 1.451 1.512 1.451 1.532 1.648 1.792 1.638	NA NA NA NA NA NA NA NA NA NA NA OO2 .002 .002 .002 .002 .003 .003 .003	1.165 1.159 1.063 1.220 1.281 1.400 1.405 1.600 1.689 1.634 1.845 1.883 1.875 1.865 1.933 1.636 1.514 1.453 1.514 1.514 1.534 1.514	24.706 23.783 21.422 22.652 23.160 23.245 24.177 22.640 21.371 19.079 20.175 19.507 19.100 20.013 20.926 20.741 21.097 20.741 21.666 21.916 22.628 22.951 R 23.704	2.341 2.337 2.346 2.573 2.682 2.761 2.873 2.781 2.817 2.542 2.648 2.859 2.855 2.855 2.834 2.928 3.059 3.158 3.226 3.230 3.319 3.439 3.435 3.435 3.516 3.523	5.625 5.715 5.676 6.209 6.494 6.764 6.768 6.717 6.1368 6.691 6.705 6.723 6.915 7.316 7.364 7.363 7.440 7.637 7.646 7.797	32.672 31.835 29.445 31.434 32.336 32.770 33.999 32.189 30.906 27.756 29.724 29.067 28.474 29.664 30.899 31.191 31.687 31.333 32.458 32.690 33.704 34.052 R 35.016
1998 January	R .194 R .187 R .192 R .188 R .189 R .184 R .179 R .191 R .185 R .190 R 2.246	.008 .003 .003 .004 .005 .009 .007 .010 .006 .007 .004	.924 .857 .878 .827 .801 .774 .828 .845 .811 .842 .853 .928	R .830 R .712 R .780 R .782 R .689 R .723 R .739 R .753 R .748 R .802 R .781 R .795 R .795	R 1.956 R 1.759 R 1.853 R 1.883 R 1.683 R 1.689 R 1.757 R 1.791 R 1.745 R 1.843 R 1.823 R 1.916 R 21.615	A .162 A .147 A .162 A .157 A .162 A .157 A .162 A .162 A .157 A .162 A .157 A .162 A .157	A (s)	A .163 A .147 A .163 A .157 A .163 A .157 A .163 A .157 A .163 A .157 A .163 A .157 A .163	R 2.118 R 1.906 R 2.015 R 1.959 R 1.846 R 1.846 R 1.920 R 1.954 R 1.903 R 2.006 R 1.981 R 2.078	.280 .286 .286 .286 .303 .304 .301 .316 .303 .298 .296 .295	.608 .578 .645 .617 .721 .704 .687 .696 .625 .622 .624 .662 7.789	R 3.006 R 2.764 R 2.947 R 2.861 R 2.869 R 2.855 R 2.906 R 2.831 R 2.926 R 2.931 R 2.926 R 3.036
1999 January	.188 .183 .190 .186 .185 .176 .181 .180 .180 .182 .183 .186 2.201	.005 .002 .007 .009 .003 .002 .003 .006 .002 .004 .009	.915 .847 .865 .824 .802 .782 .814 .864 .901 .897 .965	R. 801 R. 688 R. 822 R. 724 R. 702 R. 759 R. 749 R. 820 R. 808 R. 846 R. 778 R. 900	R1.909 R1.721 R1.884 R1.744 R1.692 R1.719 R1.747 R1.870 R1.874 R1.874 R1.867 R2.056	A .193 A .174 A .193 A .187 A .193 A .187 A .193 A .193 A .187 A .193 A .187 A .193 2.271	A (s)	A .193 A .175 A .193 A .187 A .193 A .187 A .193 A .187 A .193 A .187 A .193 A .187 A .193 2.275	R 2.102 R 1.895 R 2.077 R 1.931 R 1.885 R 1.906 R 2.063 R 2.061 R 2.126 R 2.126 R 2.249	.284 .278 .293 .293 .305 .311 .317 .317 .310 .307 .302 .295	.608 .584 .642 .638 .703 .698 R .709 R .686 R .612 R .636 R .652 R .667	R 2.994 R 2.758 R 3.012 R 2.893 R 2.916 R 2.966 R 3.066 R 2.982 R 3.069 R 3.07 R 3.211
2000 January February March April May June July August September October November December Total	.190 .185 .191 .183 .182 .173 R .179 R .179 R .179 .197 E .195 F .202 E 2.236	.004 .007 .006 .008 .004 .008 .007 .008 .007 .006 .004 (s)	R .914 R .926 R .900 R .892 R .899 R .888 R .878 R .959 R .857 R .896 R .933 F 1.000	R. 808 R. 716 	R1.915 R1.835 R1.916 R1.751 R1.859 R1.805 R1.787 R1.925 R1.795 R1.896 RE1.864 E2.060	A .192 A .180 A .192 A .186 A .192 A .186 A .192 A .186 A .192 A .186 A .192 A .186 A .192 2.271	A (s) A (s)	A .193 A .180 A .193 A .186 A .193 A .186 A .193 A .186 A .193 A .186 A .193 2.275	R 2.108 R 2.015 R 2.109 R 1.937 R 2.052 R 1.991 R 1.979 R 2.117 R 1.989 R 2.050 2.253 24.683	.295 R .288 R .301 R .292 R .305 R .313 R .308 R .324 R .312 R .308 R .305 F .304 E 3.655	R 647 R 591 R 659 R 640 R 699 R 659 R 652 R 681 R 594 R 620 R 651 656 7.739	R 3.050 R 2.894 R 3.068 R 2.868 R 3.055 R 2.963 R 2.940 R 3.122 R 2.888 R 3.017 R 3.006 3.213 36.077

electricity generation or electricity sold by nonutilities directly to end users.

§ See Note 12 at end of section.

R=Revised. NA=Not available. E=Estimate. F=Forecast. (s)=Less than 0.5 trillion Btu. A=Apportioned data: monthly estimates for 1998 and 1999 are created by dividing the annual value by 365 and then multiplying by the number of days in the month; temporary 2000 monthly estimates are created by dividing the 1999 annual value by 366 and multiplying by the number of days in the month.

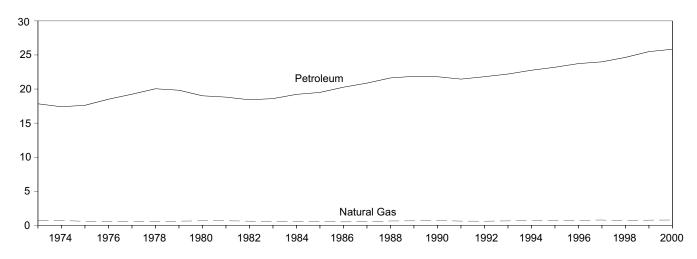
Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Additional Notes and Sources: See end of section.

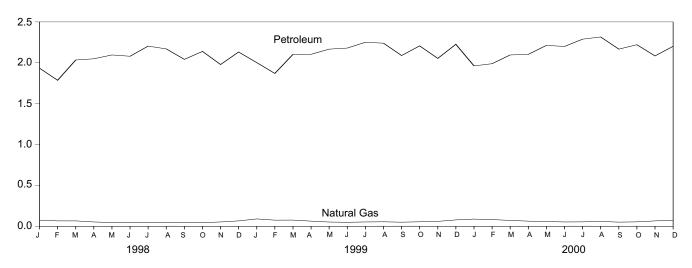
 ^a Most nonutility use of fossil fuels to produce electricity is included in the end-use sectors. See Note 2 at end of section.
 ^b Includes supplemental gaseous fuels.
 ^c Wood, wood waste, black liquor, red liquor, spent sulfite liquor, pitch, wood sludge, peat, railroad ties, and utility poles.
 ^d 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.
 ^e Geothermal heat pump and direct use energy.
 ^f Electric utility retail sales of electricity, including nonutility sales of electricity to utilities for distribution to end users; does not include nonutility facility use of onsite

Figure 2.5 Transportation Energy Sector Consumption

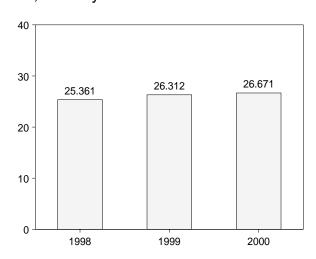
By Major Sources, 1973-2000



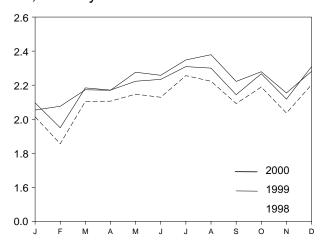
By Major Sources, Monthly



Total, January-December



Total, Monthly



Note: Because vertical scales differ, graphs should not be compared. Source: Table 2.5.

Table 2.5 Transportation Sector Energy Consumption

			Primary Co	onsumption					
		Fossil	Fuelsa		Renewable Energy			Electrical	
	Coal	Natural Gas ^b	Petroleum	Total	Alcohol Fuels ^c	Total Primary ^c	Electricity	System Energy Losses ^e	Total ^c
1973 Total 1974 Total 1975 Total	0.003 .002 .001	0.743 .685 .595	17.831 17.399 17.614	18.576 18.086 18.209	NA NA NA	18.576 18.086 18.209	0.011 .010 .010	0.025 .024 .025	18.612 18.119 18.244
1976 Total 1977 Total	(s) (ş)	.559 .543	18.506 19.241	19.065 19.784	NA NA	19.065 19.784	.010 .010	.024 .025	19.099 19.820
1978 Total 1979 Total	(†) (†)	.539 .612	20.041 19.825	20.580 20.436	NA NA	20.580 20.436	.010 .010	.025 .024	20.615 20.471
1980 Total 1981 Total	(f)	.650 .658	19.008 18.811	19.658 19.469	NA .007	19.658 19.469	.011 .011	.027 .026	19.696 19.506
1982 Total) [.612	18.420	19.032	.019	19.032	.011	.027	19.070
1983 Total 1984 Total	(¦)	.505 .545	18.593 19.216	19.098 19.761	.035 .043	19.098 19.761	.013 .014	.030 .033	19.141 19.809
1985 Total	(†)	.519	19.504	20.023	.052	20.023	.014	.033	20.071
1986 Total 1987 Total	(.499 .535	20.269 20.870	20.768 21.405	.060 .069	20.768 21.405	.015 .016	.035 .036	20.818 21.456
1988 Total) f (.632	21.629	22.261	.070	22.261	.016	.036	22.313
1989 Total 1990 Total	(¦) (f)	.649 .680	21.868 21.808	22.517 22.488	.071 .063	22.517 22.488	.016 .016	.038 .037	22.571 22.541
1991 Total	(f (.620	21.456	22.077 22.419	.073	22.077 22.419	.016	.037	22.130 22.471
1992 Total 1993 Total	(<u>;</u>)	.606 .643	21.812 22.201	22.844	.083 .097	22.844	.016 .016	.036 .036	22.896
1994 Total 1995 Total	(†)	.707 .722	22.760 23.199	23.467 23.921	.109 .117	23.467 23.921	.017 .017	.038 .038	23.522 23.975
1996 Total	(†)	.734	23.735	24.469	.084	24.469	.017	.037	24.523
1997 Total	(1)	.776	R 23.993	R 24.770	.106	R 24.770	.017	.037	R 24.823
1998 January	(^f)	.075	1.934	R 2.010	.011	R 2.010	.001	.003	2.014
February March	(†) (f)	.066 .066	R 1.786 2.034	R 1.852 2.100	.009 .010	^R 1.852 2.100	.001 .001	.003 .003	^R 1.856 ^R 2.105
April	(f (.053	2.049	2.102	.009	2.102	.001	.003	2.106
May June	(f)	.046 .045	2.096 2.080	2.142 2.125	.008 .008	2.142 2.125	.001 .001	.003 .003	2.147 2.129
July	(f)	.048 .048	^R 2.204 ^R 2.170	^R 2.252 2.218	.009 .009	R 2.252 2.218	.001 .002	.003 .003	2.256 2.223
August September	(f)	.045	2.042	2.087	.010	2.087	.002	.003	2.092
October November	(†)	.045 .053	2.139 1.979	2.184 2.032	.011 .010	2.184 2.032	.001 .001	.003 .003	^R 2.189 2.036
December	(f)	.066	2.132	2.198	.013	2.198	.001	.003	2.203
Total	(')	.662	R 24.645	R 25.307	.117	R 25.307	.017	.037	R 25.361
1999 January February	(f)	.090 .075	^R 2.002 ^R 1.870	R 2.092 R 1.946	.011 .009	^R 2.092 ^R 1.946	.001 .001	.003 .003	^R 2.096 ^R 1.950
March	(f)	.076	R 2.103	R 2.180	.010	^R 2.180	.001	.003	R 2.184
April May	(†)	.063 .052	^R 2.104 ^R 2.167	^R 2.167 ^R 2.219	.009 .009	^R 2.167 ^R 2.219	.001 .001	.003 .003	R 2.171 R 2.223
June	(f)	.049	R 2.180	R 2.230	.010	R 2.230	.001	.003	R 2.234
July August	(†) (f)	.053 .055	^R 2.251 ^R 2.240	^R 2.304 ^R 2.295	.008 .010	^R 2.304 ^R 2.295	.002 .002	.004 .003	R 2.309 R 2.300
September) f (.050	R 2.089	R 2.139	.010	R 2.139	.002	.003	R 2.144
October November	(†) (f)	.055 .060	^R 2.207 ^R 2.054	^R 2.262 ^R 2.114	.012 .012	^R 2.262 ^R 2.114	R .002 .001	.003 .003	^R 2.267 ^R 2.118
December	(f)	.078	R 2.226	R 2.304	.014	R 2.304	.001 R .018	.003	R 2.309 R 26.312
Total	(')	.762	R 25.494	R 26.256	.122	R 26.256	₩.018	.038	
2000 January February	(†) (f)	.088 .082	^R 1.962 ^R 1.989	R 2.050 R 2.071	.012 .009	R 2.050 R 2.071	.001 .001	.003	R 2.054 R 2.076
March) ţ)	.072	R 2.096	R 2.169	.012	^ 2.169	.001	.003	K 2.173
April May	(f) (f)	.063 .058	R 2.103 R 2.213	^R 2.165 ^R 2.271	.010 .012	^R 2.165 ^R 2.271	.001 R .001	.003 .003	R 2.170 R 2.276
June) f (053	R 2.200	R 2.253	.007	R 2.253	.002	.003	R 2.258
July August	(†) (f)	R .054 R .059	R 2.289 R 2.316	R 2.344 R 2.374	.013 .012	^R 2.344 ^R 2.374	.002 .002	.003 R .003	^R 2.348 ^R 2.379
September	() f ()	.051	R 2.167	R 2.218	.011	R 2.218	.002	.003	R 2.222
October November	(†) (†)	.054 R .066	^R 2.221 ^R 2.084	^R 2.275 ^R 2.150	.013 .013	^R 2.275 ^R 2.150	.002 .001	.003 .003	^R 2.279 ^R 2.154
December	(f) (f)	F.074 E .774	2.202	E 2.276	R .014 R .139	2.276	F.001 E. 018	.003	2.281
Total	(.)	//4	25.841	^E 26.615	139	26.615	018	.038	26.671

a Most nonutility use of fossil fuels to produce electricity is included in the end-use sectors. See Note 2 at end of section.
b Natural gas consumed in the operation of pipelines (primarily in compressors) and small amounts consumed as vehicle fuel. See Table 4.4.
c Alcohol (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.

total consumption.

d Electric utility retail sales of electricity, including nonutility sales of electricity to utilities for distribution to end users; does not include nonutility facility use of onsite

electricity generation or electricity sold by nonutilities directly to end users.

^e See Note 12 at end of Section.

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

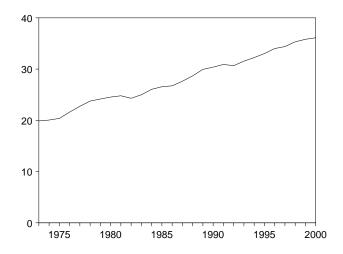
R=Revised. NA=Not available. E=Estimate. F=Forecast. (s)=Less than 0.5

trillion Btu.

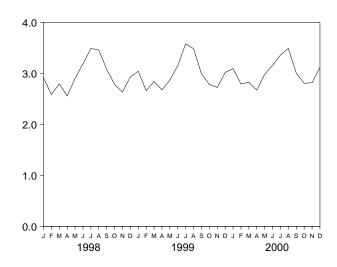
Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia. Additional Notes and Sources: See end of section.

Figure 2.6 Electric Power Sector Energy Consumption

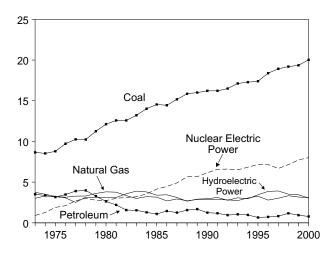
Total, 1973-2000



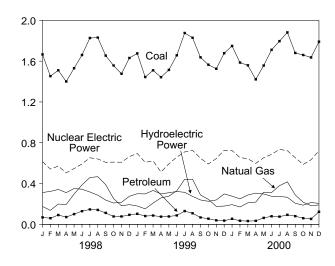
Total, Monthly



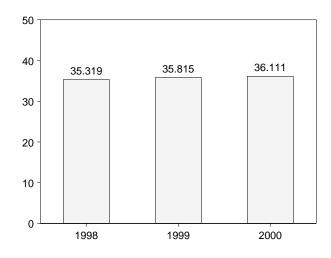
By Major Sources, 1973-2000



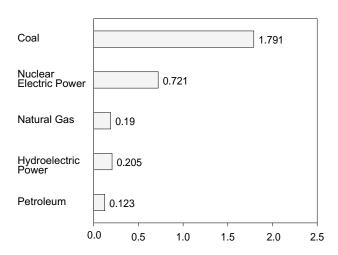
By Major Sources, Monthly



Total, January-December



By Major Sources, December 2000



Note: Because vertical scales differ, graphs should not be compared. Source: Table 2.6.

Table 2.6 Electric Power Sector Energy Consumption

	Primary Consumption												
		ı	Fossil Fuels ^a						Renew	able Energ	у		
	Coal	Natural Gas ^b	Petroleum	Other ^C	Total	Nuclear Electric Power	Hydro- electric Pumped Storage ^d	Conventional Hydroelectric Power ^e	Wood ^f and Waste ^g	Geo- thermal ^h	Solar ⁱ and Wind ^j	Total	Total Primary
1973 Total 1974 Total 1975 Total 1976 Total 1977 Total 1977 Total 1978 Total 1979 Total 1980 Total 1981 Total 1982 Total 1983 Total 1983 Total 1984 Total 1985 Total 1986 Total 1987 Total 1987 Total 1988 Total 1988 Total 1989 Total 1999 Total 1999 Total 1991 Total 1992 Total 1993 Total 1993 Total 1993 Total 1994 Total 1995 Total 1995 Total	16.494 17.123 17.283	3.748 3.519 3.240 3.152 3.284 3.297 3.613 3.810 3.768 3.342 2.998 3.220 3.160 2.691 2.935 2.799 2.871 2.882 2.856 2.741 3.053 3.276 2.798 3.025	3.515 3.365 3.166 3.477 3.987 3.283 2.634 2.202 1.568 1.544 1.286 1.090 1.452 1.257 1.257 1.563 1.685 1.250 1.178 9.951 1.052 9.968 .725 .822	(k) (k) (k) (k) (k) (k) (k) (k) (k) (k)	15.921 15.418 15.191 16.349 17.446 17.522 18.156 18.567 18.553 17.491 17.754 18.526 18.786 19.365 20.123 20.527 20.273 20.314 20.324 20.967 21.445 21.445 21.445 22.880	0.910 1.272 1.900 2.111 2.7702 3.024 2.7739 3.008 3.131 3.203 3.553 4.149 4.906 5.661 6.567 6.162 6.580 6.520 6.838 7.177 7.168 6.678	(k) (k) (k) (k) (k) (k) (k) (k) (k) (k)	3.010 3.309 3.219 3.066 2.515 3.141 3.141 3.105 3.572 3.899 3.800 3.398 3.446 3.117 2.662 2.998 3.146 3.159 2.818 3.119 2.993 3.481 3.892 3.961	0.003 .003 .005 .003 .005 .004 .003 .004 .009 .014 .015 .017 .393 .510 .552 .570 .584	0.043 .053 .070 .078 .077 .064 .084 .110 .123 .105 .129 .165 .198 .219 .229 .217 .325 .344 .352 .362 .374 .375 .319	NA NA NA NA NA NA NA (s) (s) (s) (s) 0.33 0.337 0.44 0.44 0.44	3.056 3.365 3.291 3.146 2.597 3.209 3.232 3.632 3.974 3.618 3.362 2.897 3.746 3.982 4.061 4.061 3.982 4.064 4.064 4.877	19.887 20.055 20.382 21.607 22.746 23.755 24.162 24.538 24.793 24.989 26.053 26.552 26.735 27.633 28.681 29.950 30.380 30.908 30.659 31.549 32.247 33.031 34.012 34.393
February	E 1.453 E 1.510 E 1.400 E 1.531 E 1.660 E 1.827 E 1.831 E 1.654 E 1.557 E 1.476 E 1.631	.175 .137 .199 .194 .297 .387 .459 .467 .389 .252 .182 .193	.068 .060 .091 .071 .100 .129 .146 .141 .112 .077 .093	.002 .002 .003 .006 .003 .009 .014 .005 (s) .001	1.910 1.652 1.803 1.672 1.930 2.179 2.441 2.453 2.161 1.886 1.734 1.918 23.740	.615 .542 .571 .505 .547 .592 .653 .641 .608 .609 .664 7.157	(s) .001 (s) 005 007 007 007 003 005 (s) 046	E .312 E .321 E .342 E .315 E .358 E .351 E .324 E .294 E .240 E .215 E .221 E .275	E .047 E .042 E .047 E .045 E .047 E .047 E .047 E .045 E .047 E .045 E .047	E .027 E .024 E .027 E .023 E .023 E .024 E .027 E .027 E .027 E .028 E .026 E .027	E .003 E .003	.390 .390 .420 .387 .431 .423 .400 .371 .315 .293 .296 .352 4.468	2.914 2.585 2.793 2.559 2.901 3.187 3.488 3.458 3.081 2.784 2.633 2.934 35.319
1999 January	E 1.565 E 1.525 E 1.678	.180 .152 .208 .259 .276 .328 .442 .441 .288 .245 .176 .179 3.173	.103 .081 .086 .075 .077 .087 .130 .108 .067 .055 .039 .036	(s) .001 (s) .008 .008 .009 .010 .015 .011 .012 .009	1.959 1.677 1.804 1.784 1.784 2.080 2.457 2.388 2.007 1.875 1.752 1.902 23.560	.695 .608 .622 .513 .593 .659 .710 .725 .648 .591 .645 R .726	006 004 004 005 007 006 008 004 005 005 004	RE .306 RE .302 RE .336 RE .302 RE .317 RE .328 RE .320 RE .282 RE .243 RE .231 E .244 RE .302 R .3.512	R .060 R .051 R .054 R .055 R .055 R .054 R .059 R .058 R .062 R .053 R .053 R .055 R .055 R .055	R .025 R .022 .025 .024 .027 .031 .034 .035 .033 .035 .032	.002 .002 .003 .004 .006 .006 .005 .004 .003 .002	R .393 R .378 R .418 .385 R .405 R .419 .418 R .379 R .342 R .322 R .331 R .391 R .4.582	R 3.041 R 2.659 2.841 2.677 2.866 R 3.152 3.579 R 3.485 R 2.993 R 2.723 R 3.016 R 35.815
Pebruary	E 1.559 E 1.421 E 1.557 E 1.711 E 1.796 E 1.882 E 1.680 E 1.636 E 1.791	.193 .170 .211 .218 .314 .379 .417 .288 .190 3.091	.054 .035 .032 .034 .063 .079 .075 .093 .080 .060 .053 .123	.011 .012 .009 .008 .010 .010 .011 .022 .012 .005 .008 002	2.007 R 1.804 R 1.811 R 1.682 R 2.911 R 2.413 R 2.413 R 2.060 R 1.941 R 1.880 2.101 24.017	.723 .655 .643 .598 .653 .686 .735 .722 .654 .687 .633 .721	005 005 006 004 003 004 004 004 006 058	RE _282 RE _254 RE _293 RE _310 RE _303 RE _281 RE _276 RE _269 RE _212 RE _192 RE _217 E _211 E _3.099	R .058 R .057 R .058 R .057 R .056 R .058 R .060 R .059 R .057 R .059 R .057	.026 R.022 R.022 R.024 R.024 .026 R.026 R.026 .025 R.026 .026 .027 .298	R .004 R .004 .006 R .005 R .004 R .004 R .003 .004 R .005 R .005 R .005	R .370 R .338 R .377 R .396 R .387 R .366 R .366 R .358 .299 R .282 .306 .300 4.143	R 3.094 R 2.792 R 2.825 R 2.672 R 2.980 R 3.158 R 3.359 R 3.489 R 3.005 R 2.806 R 2.815 3.116 36.111

 ^a Most nonutility use of fossil fuels to produce electricity is included in the end-use sectors. See Note 2 at end of section.
 ^b Includes supplemental gaseous fuels.
 ^c Electricity net imports from fossil fuels; may include some nuclear-generated

^c Electricity net imports from rossil lueis; may include some nuclear generates electricity.

^d Pumped storage facility production minus energy used for pumping.

^e Conventional hydroelectric net generation. Through 1988, also includes all electricity net imports; from 1989, includes only the portion of electricity net imports derived from hydroelectric power.

^f Wood, wood waste, black liquor, red liquor, spent sulfite liquor, pitch, wood sludge, peat, railroad ties, and utility poles.

^g 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.

§ Geothermal electricity net generation. From 1989, also includes electricity imports derived from geothermal energy.

§ Solar thermal and photovoltaic electricity net generation.

§ Wind electricity net generation.

§ Included in conventional hydroelectric power.

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

Additional Notes and Sources: See end of section.

Energy Consumption by Sector Notes and Sources

Most of the data in this section of the *Monthly Energy Review (MER)* are developed from a group of energy-related surveys, typically called "supply surveys," conducted by the 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 Con*sumption by End-Use Sector, A Comparison of Measures by Consumption and Supply Surveys, DOE/EIA-0533, Energy Information Administration, Washington, DC, April 6, 1990.

The following notes provide details about the data in Section 2.

1. Energy Consumption:

Primary Consumption: Includes consumption in the five energy-use sectors (residential, commercial, industrial, transportation, and electric power) of fossil fuels (coal, natural gas, and petroleum), some secondary energy derived from fossil fuels (supplemental gaseous fuels, coal coke net imports, and electricity net imports from fossil fuels), nuclear electric power, pumped-storage hydroelectric power, and renewable energy. 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; electric utility and nonutility net electricity generation from conventional hydroelectric power, wood, waste, geothermal, solar, and wind; and net imports of electricity from hydroelectric power and geothermal energy.

Total Consumption: In addition to primary consumption in the four end-use sectors (residential,

commercial, industrial, and transportation), includes: electric utility retail sales of electricity, including nonutility sales of electricity to utilities for distribution to end users; and electrical system energy losses (see Note 12).

2. Energy-Use Sectors: Energy use is assigned to the five major economic sectors, as closely as possible, following the guidelines below.

Note: Most consumption of fossil fuels at nonutility power producers is included in the end-use sectors, mainly industrial. For further information on nonutility consumption of fossil fuels, see Note 4 ("Coal"), Note 6 ("Natural Gas"), and Note 7 ("Petroleum").

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.

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.

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; agriculture, forestry, and fisheries; mining; and construction. 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.

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.

Electric Power Sector—An energy-consuming sector that consists of all utility and nonutility facilities and equipment used to generate, transmit, and/or distribute electricity.

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 utilities 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, and fisheries 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.

3. Conversion Factors: See Appendix A.

4. Coal: See Tables 6.2 and A5.

Note: Coal consumed by "Other Power Producers" (nonutility wholesale producers of electricity, and some nonutility cogeneration plants), is included in the electric power sector (see Table 6.2). Coal consumed by nonutilities not included in "Other Power Producers" is included in the end-use sectors, mainly industrial.

5. Coal Coke Net Imports: Net imports means imports minus exports, and a minus sign indicates that exports are greater than imports.

Note: 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: Quarterly Coal Report.

6. Natural Gas: See Tables 4.4 and A4.

Note: Natural gas consumed by nonutility power produces is included in the end-use sectors, mainly industrial.

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.

Residential and commercial monthly sales data for 1973-1979, which are used to estimate monthly consumption values from EIA annual consumption values, are from the American Gas Association, "Monthly Gas Utility Statistical Report."

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

Note: Petroleum consumed by nonutility power producers is included in the end-use sectors, mainly industrial.

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."

1981-1999: EIA, Petroleum Supply Annual. 2000 forward: EIA, Petroleum Supply Monthly.

,

Energy-use allocation procedures by individual product are described below.

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

Asphalt—All asphalt use is assigned to the industrial sector.

Distillate Fuel—Distillate fuel use is assigned to the energy-use sectors as described below.

Distillate Fuel Used by Electric Utilities, 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 at electric utilities. Source: Table 7.7.

Distillate Fuel Used by Sectors Other Than Electric Utilities, Annually Through 1997—The aggregate nonutility use of distillate fuel is total distillate fuel supplied minus the electric utility consumption. The nonutility annual consumption totals are allocated to the individual nonutility sectors (residential, commercial, industrial, and transportation) in proportion to the share of "adjusted sales" of each end-use sector, as reported in EIA's Fuel Oil and Kerosene 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 at the PAD district level to equal EIA volume estimates of petroleum products supplied in the U.S. market. 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 Used by Sectors Other Than Electric Utilities, Monthly Through 1997—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 1983-1997, 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 made by subtracting the residential and commercial, transportation, and electric utility sector estimates from each month's total distillate fuel consumption.

Distillate Fuel Used by Sectors Other Than Electric Utilities, 1998 Forward—Each month's nonutility consumption subtotal is disaggregated into sectors in proportion to the shares each sector held of the nonutility subtotal in the same month in 1997.

Jet Fuel—Through 1982, small amounts of kerosene-type jet fuel were consumed by electric utilities. Kerosene-type jet fuel deliveries to electric utilities 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 use is allocated to the sectors in proportion to annual sales grouped into sectors from EIA's *Fuel Oil and Kerosene Sales* reports (based primarily on data collected by Form EIA-821, previously Form EIA-172).

Residential deliveries are taken directly from the *Sales* reports for 1979-1997. Sales for 1997 are used as estimates for succeeding periods. Prior to 1979, each year's sales category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares.

Commercial sales are directly from the *Sales* reports for 1979-1997. Sales for 1997 are used as estimates for succeeding periods. Prior to 1979, each year's sales category called "heating" is split into residential, commercial, and industrial in proportion to the 1979 shares.

Industrial sales are directly from the *Sales* reports for 1979-1997. Sales for 1997 are used as estimates for succeeding periods. 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 36 percent (in 1996) 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.

1984-1996: 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.

1997 forward: The 1996 source is used to estimate succeeding periods.

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

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

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

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

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

Petroleum Coke—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 use is assigned to the sectors as described below.

Residual Fuel Used by Electric Utilities, 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 at electric utilities. Source: Table 7.7.

Residual Fuel Used by Sectors Other Than Electric Utilities, Annually Through 1997—The aggregate nonutility use of residual fuel is total residual fuel consumption minus the electric utility consumption. The nonutility annual totals are allocated into the individual nonutility sectors in proportion to the amount of residual fuel sold to end users, grouped into sectors from EIA's Fuel Oil and Kerosene Sales reports (based primarily on data collected by Form EIA-821, previously Form EIA-172), as follows:

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 Used by Sectors Other Than Electric Utilities, Monthly Through 1997—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 made by subtracting the commercial, transportation, and electric utility sector estimates from each month's total residual fuel supplied.

Residual Fuel Used by Sectors Other Than Electric Utilities, 1998 Forward—Each month's nonutility consumption subtotal is disaggregated into the sectors in

proportion to the shares each sector held of the nonutility subtotal in the same month in 1997.

Road Oil—Road oil use is assigned to the industrial sector.

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

8. Nuclear Electric Power—See Tables 8.1 and A6.

Note: Nuclear electric power is included in the electric power sector.

9. Hydroelectric Pumped Storage—See Tables 7.2 and A6.

Note: Pumped-storage hydroelectric power is included in the electric power sector.

10. Renewable Energy—See Tables E2, E3a, and E3b.

Note: 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: electric utility and nonutility net electricity generation from conventional hydroelectric power, wood, waste, geothermal, solar, and wind; and net imports of electricity from hydroelectric power and geothermal energy.

11. Electricity: End-use consumption of electricity is based on data from Table 7.5 for electric utility retail sales of electricity (which include nonutility sales of electricity to utilities for distribution to end users, but do not include nonutility facility use of onsite electricity generation or electricity sold by nonutilities directly

to end users). "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.

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 electric utility retail sales of electricity (which include nonutility sales of electricity to utilities for distribution to end users, but do not include nonutility facility use of onsite electricity generation or electricity sold by nonutilities directly to end users)--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 averaged 11.4 million barrels per day in February 2001, 6 percent lower than the previous month's rate but 9 percent higher than the February 2000 rate.

In February 2001, 20.0 million barrels per day of petroleum products were supplied for domestic use, 4 percent higher than the February 2000 rate. Motor gasoline accounted for 41 percent of the total; distillate fuel oil, 20 percent; and kerosene-type jet fuel, 9 percent

Motor gasoline supplied during February 2001 averaged 8.1 million barrels per day, 1 percent higher than the previous month's rate but 1 percent lower than the February 2000 rate. Total motor gasoline stocks were 203 million barrels at the end of February 2001, 3 million barrels below the stock level in the previous

month but 1 million barrels above the level 1 year earlier.

Distillate fuel oil supplied during February 2001 averaged 4.0 million barrels per day, 6 percent lower than the previous month's rate but 7 percent higher than the February 2000 rate. Distillate fuel oil ending stocks for February 2001 were 116 million barrels, 2 million barrels below the stock level in the previous month but 11 million barrels above the level 1 year earlier.

Kerosene-type jet fuel supplied in February 2001 averaged 1.7 million barrels per day, 2 percent lower than the previous month's rate but 6 percent higher than the February 2000 rate. Kerosene-type jet fuel stocks measured 43 million barrels at the end of February 2001, 1 million barrels below the stock level in the previous month but 1 million barrels above the level 1 year earlier.

Estimates (except of crude production) for the most current month are based on Energy Information Administration (EIA) weekly data and will be revised to conform with data from the EIA Petroleum Reporting System as available. For the most recent month, crude production is an EIA estimate based on historical and provisional data through November 2000.

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

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

		Field Production	n	Stock C	Change ^a		Stocksb
	Total Domestic ^c	Crude Oil	Natural Gas Plant Liquids	Crude Oil ^d	Petroleum Products	Petroleum Products Supplied	Crude Oil ^d and Petroleum Products
			Thousand Ba	rrels per Day			Million Barrels
1072 Averen	10,975	9,208	1,738	-11	146	17,308	1,008
1973 Average 1974 Average	10,498	9,206 8,774	1,688	62	117	16,653	e1,008
1975 Average	10,045	8,375	1,633	e17	e15	16,322	1,133
1976 Average	9,774	8,132	f 1,604	39	-96	17,461	1,112
1977 Average	9,913	8,245	1,618	170	378	18,431	1,312
1978 Average	10,328	8,707	1,567	78	-172	18,847	1,278
1979 Average	10,179	8,552	1,584	148	25	18,513	1,341
1980 Average	10,214	8,597	1,573	98	42	17,056	^e 1,392
1981 Average	10,230	8,572	1,609	^e 290	^e -130	16,058	1,484
1982 Average	10,252	8,649	1,550	136	-283	15,296	^e 1,430
1983 Average	10,299	8,688	1,559	^e 214	e-234	15,231	1,454
1984 Average	10,554	8,879	1,630	199	81	15,726	1,556
1985 Average	10,636	8,971	1,609	50	-153	15,726	1,519
1986 Average	10,289	8,680	1,551	78	124	16,281	1,593
1987 Average	10,008	8,349	1,595	128	-87	16,665	1,607
1988 Average	9,818	8,140	1,625	1	-29	17,283	1,597
1989 Average	9,219	7,613	1,546	86	-129	17,325	1,581
1990 Average	8,994	7,355	1,559	-35	142	16,988	1,621
1991 Average	9,168	7,417	1,659	-42	32	16,714	1,617
1992 Average	8,996	7,171	1,697	-1	-68	17,033	e1,592
1993 Average	9 8,836	6,847	1,736	81	^e 70	17,237	^e 1,647
1994 Average	8,645	6,662	1,727	18	-2	17,718	1,653
1995 Average	8,626	6,560	1,762	-93	-153	17,725	1,563
1996 Average	8,607	6,465	1,830	-124	-28	18,309	1,507
1997 Average1998 Average	8,611 8,392	6,452 6,252	1,817 1,759	51 74	93 165	18,620 18,917	1,560 1,647
1000 January	8,001	5,963	1 656	297	-454	19,029	1,642
1999 January	8,068	5,966	1,656 1,722	50	-291	19,029	1,635
February March	8,023	5,883	1,722	367	-859	19,107	1,620
April	8,023 8,015	5,887	1,767	-301	433	19,497	1,624
May	8.091	5,875	1,790	182	897	18,705	1,658
June	7,997	5,760	1,874	-235	-273	19,836	1,642
July	8,013	5,798	1,902	34	10	19,820	1,644
August	8,069	5,780	1,874	-566	-145	20,093	1,622
September	8,127	5,804	1,917	-368	142	19,483	1,615
October	8,283	5,947	1,953	-85	-875	19,868	1,585
November	8,275	5,960	1,949	-297	-188	19,087	1,571
December	8,320	5,959	1,957	-507	-1,995	20,498	1,493
Average	8,107	5,881	1,850	-118	-304	19,519	1,493
2000 January	E 8,153	E 5,833	1,942	91	-321	18.592	1,479
February	E 8,301	E 5,889	1,981	120	-424	19,296	1,470
March	E 8,219	E 5,873	1,983	270	-29	19,064	1,478
April	E 8.243	E 5,850	1,966	207	796	18,590	1,508
May	E 8.174	E 5.836	1,942	-117	693	19,345	1,526
June	E 8.124	E 5.824	1,922	-189	427	19,833	1,533
July	E 8,117	E 5,792	1,923	-238	607	19,584	1,544
August	E 8,117	E 5,813	1,944	193	-410	20,224	1,537
September	E 8,085	^E 5,767	1,925	-377	177	19,741	1,531
October	E 8,163	E 5,820	1,919	-169	-508	19,701	1,510
November	E 8,147	E 5,868	1,876	-288	301	19,064	1,511
December	E 7,737	E 5,839	1,585	-236	-1,001	20,639	1,473
Average	^E 8,131	^E 5,834	1,908	-61	24	19,476	1,473
2001 January	^{RE} 7,552	RE 5,836	^R 1,381	^R 211	^R -52	R 19,900	R 1,477
February	E 8,150	PE 5,870	E 1,876	E -263	E -35	E 19,974	E 1,457
2-Month Average	^E 7,836	PE 5,852	E 1,616	E-14	E -44	E 19,935	E 1,457
2000 2-Month Average	E 8,225	^E 5,860	1,961	105	-371	18,932	1,470
1999 2-Month Average	8,033	5,964	1,688	180	-377	19,066	1,635

^a A negative number indicates a decrease in stocks and a positive number indicates an increase. Distillate stocks in the "Northeast Heating Oil Reserve"

tyl ether) plants.
PE=Preliminary estimate. R=Revised. E=Estimate.
PE=Preliminary estimate. R=Revised. Geographic coverage is

Notes: Crude oil includes lease condensate. Geographic coverage is the 50 States and the District of Columbia.

Sources: 1973-1980: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S1.

Petroleum Supply Monthly, March 2001, Table S1.

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.

f See Note 6 at end of section.

⁹ Beginning in 1993, includes fuel ethanol blended into finished motor gasoline and oxygenate production from merchant MTBE (methyl tertiary butyl ether) plants.

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

			Imports			Exports		
		Total	Crude Oila	Petroleum Products	Total	Crude Oil	Petroleum Products	Net Imports ^t
				Tho	ousand Barrels p	er Day		
973	Average	6,256	3,244	3,012	231	2	229	6,025
	Average	6,112	3,477	2,635	221	3	218	5,892
	Average	6,056	4,105	1,951	209	6	204	5,846
	Average	7,313	5,287	2,026	223	8	215	7,090
	Average	8,807	6,615	2,193	243	50	193	8,565
	Average	8,363	6,356	2,008	362	158	204	8,002
	Average	8,456	6,519	1,937	° 471	235	c 236	° 7,985
	Average	6,909	5,263	1,646	544	287	258	6,365
	_	5,996	4,396	1,599	595	228	367	5,401
	Average	5,113	3,488	1,625	815	236	579	4,298
		•	,	•	739	164	579 575	•
	Average	5,051 5,437	3,329	1,722	739 722	181	575 541	4,312
	Average	•	3,426	2,011	722 781	204	577	4,715
	Average	5,067	3,201	1,866				4,286
	Average	6,224	4,178	2,045	785	154	631	5,439
	Average	6,678	4,674	2,004	764	151	613	5,914
	Average	7,402	5,107	2,295	815	155	661	6,587
	Average	8,061	5,843	2,217	859	142	717	7,202
	Average	8,018	5,894	2,123	857	109	748	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
	Average	10,162	8,225	1,936	1,003	108	896	9,158
	Average	10,708	8,706	2,002	945	110	835	9,764
999	January	10,424	8,393	2,031	896	107	788	9,529
	February	10,650	8,468	2,182	756	119	636	9,894
	March	10,658	8,739	1,919	764	95	669	9,894
	April	11,618	9,256	2,362	1,196	332	864	10,422
	May	11,511	9,098	2,412	915	88	826	10,596
	June	11,160	8,888	2,272	907	123	784	10,253
	July	11,697	9,391	2,306	918	120	798	10,779
	August	11,142	8,908	2,234	902	132	769	10,240
	September	10,657	8,527	2,130	889	27	862	9,768
	October	10,595	8,613	1,983	944	56	888	9,651
	November	10,033	8,224	1,809	950	83	866	9,083
	December	10,065	8,234	1,830	1,230	133	1,096	8,835
	Average	10,852	8,731	2,122	940	118	822	9,912
.000	January	9,795	7,719	2,076	1,006	176	830	8,789
	February	10,396	8,096	2,300	870	30	840	9,526
	March	10,768	8,661	2,107	1,159	144	1,015	9,609
	April	11,091	9,088	2,003	1,131	124	1,007	9,960
	May	10,981	8,912	2,069	856	34	822	10,125
	June	11,681	9,455	2,225	925	9	915	10,756
	July	11,344	9,455	2,024	900	15	885	10,756
	August	11,849	9,858	1,991	1,073	17	1,056	10,776
	September	11,549				23		
		,	9,281	2,230	1,059		1,036	10,453
	October	11,018	8,866	2,151	1,292	9	1,283	9,726
	November	10,857	8,708	2,149	1,108	2	1,106	9,749
	Average	11,807 11,093	9,194 8,932	2,612 2,161	1,095 1,040	16 50	1,079 990	10,712 10,053
	January	R 12,118	R 8.791	R 3,327	R 965	^R 18	^R 947	R 11,154
	February	E 11,350	E 8,630	E 2,720	E 1,000	E 101	E 899	E 10,350
	2-Month Average	E 11,754	E 8,715	E 3,039	E 981	E 57	E 924	E 10,330
000	2-Month Average	10,085	7,901	2,184	940	105	835	9,145
-50	2-Month Average	10,531	8,429	2,103	829	113	716	9,702

^a Includes crude oil for storage in the Strategic Petroleum Reserve.

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.

b Net imports equals imports minus exports.

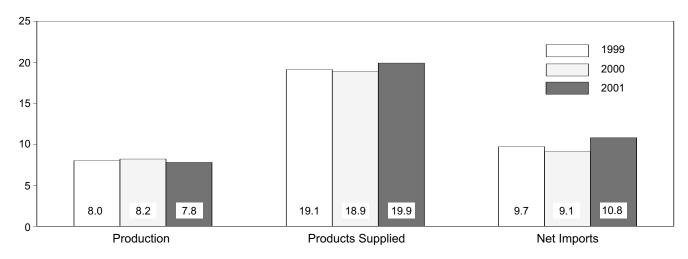
^c See Note 6 at end of section.

R=Revised. E=Estimate.

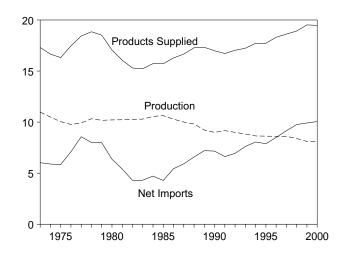
Figure 3.1a Petroleum Overview

(Million Barrels per Day)

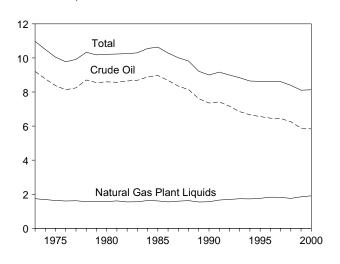
Overview, January and February



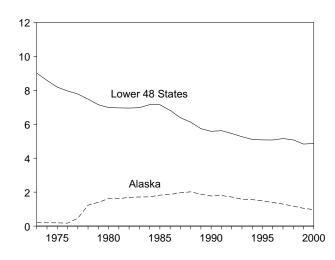
Overview, 1973-2000



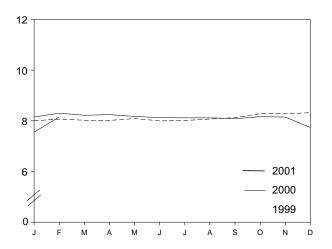
Production, 1973-2000



Crude Oil Production, 1973-2000



Total Production, Monthly



Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 3.1a, 3.1b, and 3.2a.

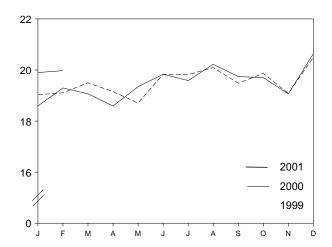
Figure 3.1b Petroleum Overview

(Million Barrels per Day, Except as Noted)

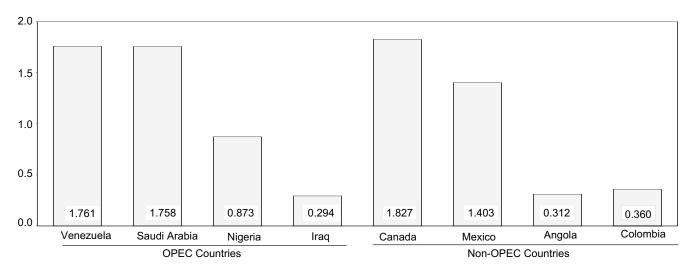
Products Supplied, 1973-2000

Total 10 Motor Gasoline Distillate Fuel Residual Fuel 1975 1980 1985 1990 1995 2000

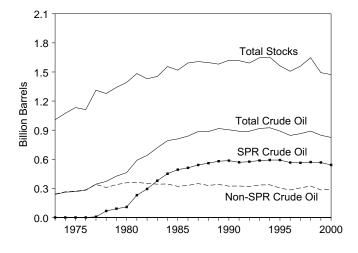
Products Supplied, Monthly



Imports from Selected Countries, January 2001

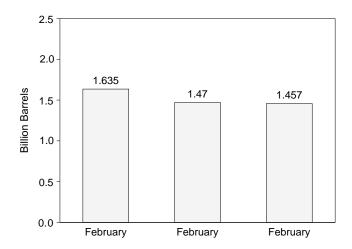


Stocks, End of Year, 1973-2000



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

Total Stocks, End of Month



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 Pr	oduction		Imports			
	Total Domestic	Alaskan	Total	SPR ^a	Other	Unaccounted- for Crude Oil ^b	Crude Oil Used Directly ^c
			Tho	ousand Barrels per	Day		
973 Average	9,208	198	3,244	_	3,244	3	-19
974 Average	8,774	193	3,477	_	3,477	-25	-15
975 Average	8,375	191	4,105	_	4,105	17	-17
976 Average	8,132	173	5,287	_	5,287	77	d -19
977 Average	8,245	464	6,615	21	6,594	-6	-14
978 Average	8,707	1,229	6,356	d 161	6,195	-57	^d -15
979 Average	8,552	1,401	6,519	67	6,452	-11	d -14
980 Average	8,597	1,617	5,263	44	5,219	34	^d -14
981 Average	8,572	1,609	4,396	256	4,141	83	-58
982 Average	8,649	1,696	3,488	165	3,323	71	-59
983 Average	8,688	1,714	3,329	234	3,096	114	_
984 Average	8,879	1,722	3,426	197	3,229	185	_
985 Average	8,971	1,825	3,201	118	3,083	145	_
986 Average	8,680	1,867	4,178	48	4,130	139	_
987 Average	8,349	1,962	4,674	73	4,601	145	_
988 Average	8,140	2,017	5,107	73 51	5,055	196	_
989 Average	7,613	1,874	5,843	56	5,787	200	_
990 Average	7,355	1,773	5,894	27	5,867	258	_
991 Average	7,417	1,798	5,782	0	5,782	195	_
992 Average	7,171	1,714	6,083	10	6,073	258	
.	6,847	1,714	,	15	,	168	_
993 Average	6,662		6,787	12	6,772	266	_
994 Average	,	1,559	7,063	0	7,051		_
995 Average	6,560 6,465	1,484	7,230	0	7,230	193	_
996 Average	6,465	1,393	7,508	0	7,508	215	_
997 Average 998 Average	6,452 6,252	1,296 1,175	8,225 8,706	0	8,225 8,706	145 115	_
999 January	5,963	1,164	8,393	0	8,393	490	_
February	5,966	1,104	8,468	Ö	8,468	45	_
March	5,883	1,134	8,739	Ö	8,739	338	_
April	5,887	1,056	9,256	Ö	9,256	-18	_
May	5,875	1,088	9,098	Ö	9,098	270	_
June	5,760	967	8,888	Õ	8,888	198	_
July	5,798	990	9,391	0	9,391	202	_
August	5,780	1,011	8,908	31	8,877	177	_
September	5,804	933	8,527	17	8,509	436	_
October	5,947	1,068	8,613	17			_
	,	,	,	17	8,595 8 207	(s)	_
November	5,960 5,959	1,023 1,058	8,224	16	8,207	306 -156	_
December	,	,	8,234 9.731	8	8,218 8 722		_
Average	5,881	1,050	8,731	0	8,722	191	-
000 January	E 5,833	E 1,024	7,719	3	7,716	503	_
February	E 5,889	E 1,031	8,096	17	8,079	211	_
March	E 5,873	E 1,011	8,661	0	8,661	508	_
April	E 5,850	E 1,008	9,088	0	9,088	451	_
May	E 5,836	^E 966	8,912	0	8,912	680	_
June	E 5,824	^E 925	9,455	16	9,439	220	_
July	E 5,792	^E 913	9,320	15	9,305	491	_
August	E 5,813	^E 914	9,858	0	9,858	183	_
September	E 5,767	E 892	9,281	0	9,281	6	_
October	E 5,820	E 966	8,866	32	8,835	189	_
November	E 5,868	E 986	8,708	17	8,691	166	_
December	E 5,839	E 1,010	9,194	0	9,194	-10	_
Average	E 5,834	E 970	8,932	8	8,924	301	-
001 January	RE 5,836	RE 980	^R 8,791	R 32	^R 8,759	R 398	_
February	PE 5,870	PE 996	E 8,630	E 20	E 8,610	E 225	_
2-Month Average	PE 5,852	PE 988	8,715	E 26	E 8,689	E 316	-
2000 2-Month Average	^E 5,860	E 1,028	7,901	10	7,892	362	_
999 2-Month Average	5,964	1,136	8,429	0	8,429	279	

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

<sup>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.</sup>

PE=Preliminary estimate. R=Revised. – =Not applicable. E=Estimate.

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

			Dis	position				Stocksa	
	Crude Losses	Stock (Change ^b Other	Refinery Inputs	Exports	Product Supplied ^d	Total	SPR ^c	Other Primary
			Thousand	Barrels per Day				Million Barrels	3
973 Average974 Average	13 13	_	-11 62	12,431 12,133	2 3	_	242 265	_	242 265
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	_	† 466	108	⁺ 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	796	451	345
985 Average	1 (s)	117 50	-67 28	12,002 12,716	204 154	60 49	814 843	493 512	321 331
86 Average87 Average	(s) (s)	50 80	28 49	12,716	154	49 34	843 890	512 541	349
988 Average	(s)	52	-51	13,246	155	40	890	560	330
989 Average	(s)	56	30	13,401	142	28	921	580	341
990 Average	(s)	16	-51	13,409	109	24	908	586	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)	(s)	-93	13,973	95	7	895	592	303
96 Average	(s)	-71	-53	14,195	110	6	850	566	284
997 Average	`o´	-7	57	14,662	108	2	868	563	305
998 Average	(s)	22	52	14,889	110	0	895	571	324
999 January	0	18	280	14,442	107	0	904	572	332
February	(s)	(s)	50	14,309	119	0	906	572	334
March	(s)	0	367	14,498	95	0	917	572	345
April	0	17	-317	15,094	332	0	908	572	335
May	0	37	145	14,973	88	0	914	574	340
June	0	40	-276	14,959	123	0	907	575	332
July	0	29	5	15,237	120	0	908	576	332
August	0	-27	-539	15,299	132	0	890	575	315
September	0	20	-388	15,107	27	0	879	575	304
October	0	-103	18	14,589	56	0	876	572	304
November	0	-105	-191	14,704	83	0	867	569	298
December	0	-60	-447	14,410	133	0	852	567	284
Average	(s)	-11	-107	14,804	118	0	852	567	284
000 January	0	41	50	13,789	176	0	854	568	286
February	0	30	90	14,046	30	0	858	569	289
March	0	1	269	14,629	144	0	866	569	297
April	0	0	207	15,059	124	0	873	569	303
May	0	0	-117	15,512	34	0	869	569	299
June	0	-17	-172	15,680	. 9	0	863	569	294
July	0	47	-285	15,825	15	0	856	570	286
August	0	33	160	15,645	17	0	862	571	290
September	0	-34	-343	15,408	23	0	851	570	280
October	0	-189	20	15,035	9	0	845	564	281
November	0	-566 -220	278	15,027 15,244	2 16	0	837	548 541	289
Average	0 0	-220 -73	-16 12	15,244 15,078	16 50	0 0	829 829	541 541	289 289
01 January	0	R 32	^R 179	R 14.797	^R 18	0	^R 836	542	R 294
February	ΕO	E 5	E-268	E 14,887	E 101	ΕO	E 819	E 542	E 278
2-Month Average	E 0	E 19	E -33	E 14,839	E 57	E 0	E 819	E 542	E 278
000 2-Month Average	0	35	69	13,913	105	0	858	569	289
	-								

^a Stocks are at end of period.

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

e See Note 6 at end of section.

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

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

^{1973-1980:} Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S2. 1981 forward: EIA, Petroleum Supply Monthly, March 2001, Table S2.

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

				Persian	Gulf ^a			
	Ba	hrain	ı	ran		raq	Ku	waitb
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	11	0	223	216	4	4	47	42
1974 Average	12	0	469	463	0	0	5	5
1975 Average	16	0	280	278	2	2	16	4
1976 Average	3	0	298	298	26	26	5	1
1977 Average	10	Ö	535	530	74	74	48	42
1978 Average	3	Ŏ	555	554	62	62	6	5
1979 Average	ĭ	Ŏ	304	297	88	88	8	5
1980 Average	(s)	Ŏ	9	8	28	28	27	27
1981 Average	1	ŏ	ŏ	Ŏ	(s)	0	0	0
1982 Average	i	ŏ	35	35	3	3	5	2
1983 Average	2	Ŏ	48	48	10	10	14	7
	1	0	10	10	12	12	36	24
1984 Average	4	0	10 27	27	46	46	21	4
1985 Average		-						
1986 Average	2	0	19	19	81	81	68	28
1987 Average	0	0	98 ° (s)	98 ° (s)	83	82	84	70
1988 Average	2	0	(3)	(3)	345	343	.92	80
1989 Average	0	0	0	0	449	441	157	155
1990 Average	1	0	0	0	518	514	86	79
1991 Average	2	0	32	32	0	0	6	6
1992 Average	0	0	0	0	0	0	51	39
1993 Average	1	0	0	0	0	0	353	344
1994 Average	1	0	0	0	0	0	312	307
1995 Average	1	0	0	0	0	0	218	213
1996 Average	1	0	0	0	1	1	236	235
1997 Average	0	0	0	0	89	89	253	253
1998 Average	1	0	0	0	336	336	301	300
1999 January	0	0	0	0	485	485	132	132
February	0	0	0	0	681	681	205	205
March	0	0	0	0	791	791	324	324
April	0	0	0	0	829	829	286	279
May	0	0	0	0	750	750	227	227
June	0	Ö	Ö	0	773	773	259	259
July	Õ	0	0	0	680	680	311	311
August	ŏ	0	ő	Õ	672	672	348	348
September	Ö	0	0	Õ	741	741	261	261
October	0	0	0	0	922	922	205	205
November	0	0	0	0	922 713	713	205 216	205 216
	0	0	0	0	668	668	200	216 186
December								
Average	0	0	0	0	725	725	248	246
2000 January	0	0	0	0	254	254	239	218
February	0	0	0	0	719	719	267	264
March	0	0	0	0	468	468	162	162
April	Ö	Ö	Õ	Õ	640	640	258	247
May	ő	0	ő	Õ	438	438	170	166
June	ő	0	ő	Õ	847	847	210	210
July	0	0	0	0	747	747	252	252
August	0	0	0	0	749	749	383	383
September	0	0	0	0	752	747	352	338
	0	0	0	0				
October	-	-	-	-	653	653	337	337
November	0	0	0	0	585	585	248	237
December	10	0	0	0	528	528	326	311
Average	1	0	0	0	613	613	267	261
2001 January	(s)	0	0	0	294	294	242	206

^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

(s)=Less than 500 barrels per day.

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

Sources: Bahrain: Energy Information Administration (EIA), Form EIA-814, "Monthly Imports Report." All Other Data: 1973-1980—EIA, Petroleum Supply Monthly, February 1993, Table S3. 1981 forward—EIA, Petroleum Supply Monthly, March 2001, Table S3.

produced from Middle East crude oil.

b Imports from the Neutral Zone between Kuwait and Saudi Arabia are

included in Saudi Arabia.

^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 pyported to the Control of Iranian Control of Iranian Control 12613 on November 12613 on Iranian State Iranian Control 12613 on Iranian Control Iranian Control 12613 on Iranian Control Iranian Contr 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	Gulf ^a			
	Q	atar	Saudi	Arabia ^b	United Ar	ab Emirates	To	otala
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	7	7	486	462	71	71	848	802
1974 Average	17	17	461	438	74	69	1,039	992
1975 Average	18	18	715	701	117	117	1,165	1,121
1976 Average	24	24	1,230	1,222	254	254	1,840	1,825
1977 Average	67	67	1,380	1,373	335	333	2,448	2,418
1978 Average	64	64	1,144	1,142	385	385	2,219	2,212
1979 Average	31	31	1,356	1,347	281	281	2,069	2,049
1980 Average	22	22	1,261	1,250	172	172	1,519	1,508
1981 Average	7	7	1,129	1,112	81	77	1,219	1,196
1982 Average	7	7	552	530	92	81	696	659
1983 Average	(s)	0	337	321	30	18	442	405
1984 Average	`5	4	325	309	117	90	506	450
1985 Average	(s)	0	168	132	45	35	311	244
1986 Average	13	12	685	618	44	38	912	796
1987 Average	0	0	751	642	61	56	1,077	949
1988 Average	Ŏ	Ŏ	1,073	911	29	23	1,541	1,357
1989 Average	2	2	1,224	1,116	28	21	1,861	1,734
1990 Average	4	4	1,339	1,195	17	9	1,966	1,801
1991 Average	Ö	0	1,802	1,703	3	2	1,845	1,743
1992 Average	ĭ	ŏ	1,720	1,597	6	ō	1,778	1,636
1993 Average	1	Ŏ	1,414	1,282	14	12	1,782	1,637
1994 Average	Ö	Ŏ	1,402	1,297	13	11	1,728	1,615
1995 Average	ŏ	ŏ	1,344	1,260	10	5	1,573	1,479
1996 Average	Ö	ŏ	1,363	1,248	3	3	1,604	1,488
1997 Average	4	Ŏ	1,407	1,293	2	Ŏ	1,755	1,635
1998 Average	4	1	1,491	1,404	3	3	2,136	2,044
1000 Average	7	•	1,401	1,404	J	ū	2,100	2,044
1999 January	0	0	1,511	1,410	0	0	2,129	2,027
February	0	0	1,497	1,417	0	0	2,383	2,303
March	34	0	1,652	1,584	0	0	2,801	2,698
April	31	0	1,482	1,417	5	0	2,633	2,526
May	0	0	1,502	1,406	0	0	2,479	2,383
June	0	0	1,539	1,438	19	0	2,590	2,470
July	0	0	1,436	1,296	0	0	2,427	2,287
August	18	0	1,474	1,373	3	0	2,514	2,392
September	14	0	1,441	1,330	0	0	2,457	2,333
October	0	0	1,353	1,251	0	0	2,480	2,378
November	11	11	1,396	1,334	0	0	2,336	2,274
December	8	0	1,455	1,391	0	0	2,331	2,245
Average	10	1	1,478	1,387	2	0	2,464	2,360
2000 January	4	0	1,539	1,483	0	0	2,036	1,955
February	2	0	1,268	1,228	Ō	0	2,256	2,210
March	9	0	1,533	1,474	17	Õ	2,189	2,104
April	11	Õ	1,456	1,442	0	0	2,365	2,329
May	9	Ö	1,566	1,510	34	Õ	2,218	2,115
June	10	Õ	1,496	1,436	24	0	2,586	2,493
July	8	Ő	1,556	1,505	24	15	2,588	2,519
August	6	0	1,649	1,587	0	0	2,787	2,719
September	10	0	1,674	1,645	31	0	2,819	2,731
October	7	0	1,514	1,477	9	0	2,519	2,467
November	15	0	1,624	1,567	9	0	2,482	2,389
December	3	0	1,824	1,882	9	0	2,462	2,721
Average	8	0	1,697 1,566	1,002 1,521	13	1		2,721 2,396
Average	0	U	1,300	1,341	13	'	2,468	2,390
2001 January	7	0	1,758	1,629	138	79	2,438	2,207

^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.

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.

produced from Middle East crude oil.

b Imports from the Neutral Zone between Kuwait and Saudi Arabia are included in Saudi Arabia.

⁽s)=Less than 500 barrels per day.

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

1973 Average 136 120 48 47 0 0 213 200 164 1974 Average 190 180 42 42 23 23 300 284 4 1975 Average 282 264 57 57 27 27 390 379 232 1976 Average 432 408 51 51 28 26 539 537 453 1977 Average 559 544 57 55 42 35 541 507 723 1978 Average 649 634 54 38 41 38 573 533 654 1979 Average 636 608 42 30 42 42 420 380 658 1980 Average 488 456 27 17 26 25 348 314 554						Other	OPECa				
1973 Average		Alg	geria	Ecu	ador ^b	Ga	bon ^c	Indo	nesia	Li	ibya
1974 Average		Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1975 Average	1973 Average	136	120	48	47	0	0	213	200	164	133
1976 Average	1974 Average	190	180	42			23	300	284	4	4
1977 Average	1975 Average	282	264	57	57	27	27	390	379	232	223
1978 Average	1976 Average										444
1979 Average	1977 Average										704
	1978 Average	649	634	54	38	41	38	573	533	654	638
1981 Average											642
982 Average	980 Average										548
983 Average											317
984 Average	-										23
985 Average											0
986 Average										-	0
987 Average										•	0
988 Average										-	0
989 Average										-	0
990 Average										-	0
991 Average	.										0
992 Average										-	0
993 Average										-	0
994 Average				65 . h	62 . h.					-	0
995 Average				(.)	(b)					-	0
996 Average				(~)						-	0
1997 Average 285 6				. ,	(:)	(0)	()				0
1998 Average				(:)	(:)	(0)	()			•	0
999 January				. ,		(0)	()				0
September	998 Average	290	10	. ,	()	` ,	(°)	66	50	0	0
February	999 January	246	20	()	()		(')	100	75	0	0
April 321 80 (b) (b) (c) (c) 98 94 0 May 303 107 (b) (b) (c) (c) 66 52 June 255 7 (b) (b) (c) (c) 66 52 July 302 48 (b) (b) (c) (c) 19 14 August 249 0 (b) (b) (c) (c) 95 85 September 255 4 (b) (b) (c) (c) 95 63 October 183 0 (b) (b) (c) (c) 98 79 November 211 11 (b) (b) (c) (c) 98 79 November 279 15 (b) (b) (c) (c) 118 99 Average 259 25 (b) (b) (c) (c) 31 22 Odo January 226 3 (b) (b) (c) (c) 31 22 Odo January 226 3 (b) (b) (c) (c) 31 22 Odo January 226 3 (b) (b) (c) (c) 31 22 Odo January 226 3 (b) (b) (c) (c) 31 22 Odo January 226 3 (b) (b) (c) (c) 31 22 Odo January 226 3 (b) (b) (c) (c) 31 22 Odo January 226 3 (b) (b) (c) (c) 31 22 Odo January 226 3 (b) (b) (c) (c) 31 22 Odo January 226 3 (b) (b) (c) (c) 31 32 January 3 (c) 3		209	6	()	(.)	()	()	66	66	0	0
May 303 107 (b) (b) (c) (c) 105 98 0 June 255 7 (b) (b) (c) (c) 105 98 0 June 255 7 (b) (b) (c) (c) 19 14 0 August 249 0 (b) (b) (c) (c) 95 85 0 September 255 4 (b) (b) (c) (c) 95 63 0 October 183 0 (b) (b) (c) (c) 98 79 0 November 211 11 (b) (b) (c) (c) 98 79 0 Average 259 25 (b) (b) (c) (c) 118 99 0 Average 259 25 (b) (c) (c) 98 79 0 May 302 48 (b) (b) (c) (c) 95 85 0 September 255 4 (b) (c) (c) 95 63 0 October 183 0 (c) (c) (c) 98 79 0 Average 279 15 (b) (b) (c) (c) 74 68 0 Average 259 25 (b) (b) (c) (c) 118 99 0 Average 26 3 (b) (b) (c) (c) 118 99 0 March 199 0 (b) (b) (c) (c) 31 22 0 March 199 0 (b) (b) (c) (c) 32 28 0 March 199 0 (b) (b) (c) (c) 45 45 0 April 195 (s) (b) (b) (c) (c) 34 30 0 June 220 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 37 34 30 0 June 222 0 (b) (b) (c) (c) 37 34 30 0 June 222 0 (b) (b) (c) (c) 37 34 30 0 June 222 0 (b) (b) (c) (c) 37 34 30 0 June 223 0 (b) (b) (c) (c) 37 34 30 0 June 226 0 (b) (b) (c) (c) 37 34 30 0 June 227 0 (c) (c) 37 34 30 0 June 228 0 (b) (b) (c) (c) 37 37 34 0 November 208 0 (b) (b) (c) (c) 37 37 34 0 November 208 0 (b) (b) (c) (c) 92 41 0 Average 215 0 (b) (b) (c) (c) 47 36 0	March	285	6	(:)	(.)	(')		43	40	0	0
June 255 7 (b) (b) (c) (c) 666 52 0 July 302 48 (b) (b) (c) (c) 19 14 0 August 249 0 (b) (b) (c) (c) 95 85 0 September 255 4 (b) (b) (c) (c) 95 85 0 October 183 0 (b) (b) (c) (c) 98 79 0 November 211 11 (b) (b) (c) (c) 74 68 0 Average 259 25 (b) (b) (c) (c) 81 70 0 C000 January 226 3 (b) (b) (c) (c) 81 70 0 April 195 (s) (b) (b) (c) (c) 45 45 0 April 195 (s) (b) (b) (c) (c) 46 42 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 37 34 30 0 June 222 0 (b) (b) (c) (c) 37 34 30 0 September 216 0 (b) (b) (c) (c) (c) 37 34 0 November 226 0 (b) (b) (c) (c) (c) 37 34 0 November 210 0 (b) (b) (c) (c) (c) 37 34 0 November 2208 0 (b) (b) (c) (c) (c) 37 34 0 December 240 0 (b) (b) (c) (c) (c) 37 34 0 Average 215 0 (b) (b) (c) (c) (c) 92 41 0 Average 215 0 (b) (b) (c) (c) (c) 92 41 0	April			(.)	(.)				94	0	0
July 302 48 (b) (c) (c) 19 14 0 August 249 0 (b) (b) (c) (c) 95 85 0 September 255 4 (b) (b) (c) (c) 95 63 0 October 183 0 (b) (b) (c) (c) 98 79 0 November 211 11 (b) (b) (c) (c) 74 68 0 December 279 15 (b) (b) (c) (c) 118 99 0 Average 259 25 (b) (b) (c) (c) 118 99 0 Average 259 25 (b) (b) (c) (c) 31 22 0 Average 259 25 (b) (b) (c) (c) 31 22 0	May	303	107	()	(.)		()	105	98	0	0
August 249 0 (b) (b) (c) (c) 95 85 0 September 255 4 (b) (b) (c) (c) 95 63 0 October 183 0 (b) (b) (c) (c) 98 79 0 November 211 11 (b) (b) (c) (c) 74 68 0 December 279 15 (b) (b) (c) (c) 118 99 0 Average 259 25 (b) (b) (c) (c) 81 70 0 000 January 226 3 (b) (b) (c) (c) 81 70 0 February 153 0 (b) (b) (c) (c) 31 22 0 March 199 0 (b) (b) (c) (c) 32 28 0 April 195 (s) (b) (b) (c) (c) 45 45 0 April 195 (s) (b) (b) (c) (c) 34 30 0 May 270 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 October 224 0 (b) (b) (c) (c) 37 14 0 August 236 0 (b) (b) (c) (c) (c) 37 34 0 November 216 0 (b) (b) (c) (c) 6 6 0 October 210 0 (b) (b) (c) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) (c) 92 41 0 Average 215 0 (b) (b) (c) (c) (c) 47 36 0	June	255	7	(.)	(.)	(')	()	66	52	0	0
September 255 4 (b) (b) (c) (c) 95 63 0	July								14	-	0
October 183 0 (b) (c) (c) (c) 98 79 0 November 211 11 (b) (b) (c) (c) 74 68 0 December 279 15 (b) (b) (c) (c) 118 99 0 Average 259 25 (b) (b) (c) (c) 118 99 0 4 Verage 259 25 (b) (b) (c) (c) 118 99 0 Average 259 25 (b) (b) (c) (c) 118 99 0 Average 259 25 (b) (b) (c) (c) 118 99 0 Average 259 25 (b) (b) (c) (c) 31 22 0 Average 259 25 (b) (b) (c) (c) 31 22 <td>August</td> <td>249</td> <td>0</td> <td>(.)</td> <td>(.)</td> <td></td> <td>()</td> <td></td> <td>85</td> <td>0</td> <td>0</td>	August	249	0	(.)	(.)		()		85	0	0
November 211 11 (b) (b) (c) (c) 74 68 0 December 279 15 (b) (b) (c) (c) 118 99 0 Average 259 25 (b) (b) (c) (c) 118 99 0 000 January 226 3 (b) (b) (c) (c) 31 22 0 February 153 0 (b) (b) (c) (c) 32 28 0 March 199 0 (b) (b) (c) (c) 32 28 0 April 195 (s) (b) (b) (c) (c) 45 45 0 April 195 (s) (b) (b) (c) (c) 91 70 0 May 270 0 (b) (b) (c) (c) 34 30 0 <	September	255		()	(.)	\ /	()				0
December 279 15	October			()							0
Average 259 25 (b) (b) (c) (c) 81 70 0 2000 January 226 3 (b) (b) (c) (c) 31 22 0 February 153 0 (b) (b) (c) (c) 32 28 0 March 199 0 (b) (b) (c) (c) 45 45 0 April 195 (s) (b) (b) (c) (c) 91 70 0 May 270 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 46 42 0 July 205 0 (b) (b) (c) (c) 46 42 0 August 236 0 (b) (b) (c) (c) 17 14 0 August 236 0 (b) (b) (c) (c) 80 76 0 September 216 0 (b) (b) (c) (c) 6 6 6 October 210 0 (b) (b) (c) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) 60 29 0 December 240 0 (b) (b) (c) (c) (c) 92 41 0 Average 215 0 (b) (b) (c) (c) (c) 92 41 0	November			()						-	0
000 January 226 3 (b) (b) (c) (c) 31 22 0 February 153 0 (b) (b) (c) (c) 32 28 0 March 199 0 (b) (b) (c) (c) 45 45 0 April 195 (s) (b) (b) (c) (c) 91 70 0 May 270 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 46 42 0 July 205 0 (b) (b) (c) (c) 17 14 0 August 236 0 (b) (b) (c) (c) 17 14 0 September 216 0 (b) (b) (c) (c) 6 6 0 October 210 0 (b) (b) (c) (c) 60 29	December			()			()			-	0
February 153 0 (b) (b) (c) (c) 32 28 0 (b) March 199 0 (b) (b) (c) (c) 45 45 0 (c) April 195 (s) (b) (b) (c) (c) 34 30 0 (c) May 270 0 (b) (b) (c) (c) 34 30 0 (c) June 222 0 (b) (b) (c) (c) 46 42 0 (c) July 205 0 (b) (b) (c) (c) 46 42 0 (c) July 205 0 (b) (b) (c) (c) 46 42 0 (c) July 205 0 (b) (b) (c) (c) 46 42 0 (c) July 205 0 (c) (c) 46 42 0 (c) July 205 0 (c) (c) 46 42 0 (c) July 205 0 (c) (c) 46 42 0 (c) July 205 0 (c) (c) 46 42 0 (c) July 205 0 (c) (c) 46 42 0 (c) July 205 0 (c) (c) 46 42 0 (c) July 205 0 (c) (c) 47 40 0 (c) July 205 0 (c) (c) 47 40 0 (c) July 205	Average	259	25	(^d)	(^d)	(°)	(°)	81	70	0	0
March 199 0 (b) (c) (c) 45 45 0 April 195 (s) (b) (b) (c) (c) 91 70 0 May 270 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 46 42 0 July 205 0 (b) (b) (c) (c) 17 14 0 August 236 0 (b) (b) (c) (c) 80 76 0 September 216 0 (b) (b) (c) (c) 6 6 0 October 210 0 (b) (b) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) 60 29 0 December				()	()	(-)	(-)			-	0
April 195 (s) (b) (b) (c) (c) 91 70 0 May 270 0 (b) (b) (c) (c) 34 30 0 June 222 0 (b) (b) (c) (c) 46 42 0 July 205 0 (b) (b) (c) (c) 17 14 0 August 236 0 (b) (b) (c) (c) 80 76 0 September 216 0 (b) (b) (c) (c) 6 6 6 0 October 210 0 (b) (b) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) 92 41 0 Average 215 0 (b) (b) (c) (c) 92 41 0				(. /	(.)					-	0
May 270 0 (b) (b) (c) (c) 34 30 0 0 June 222 0 (b) (b) (c) (c) 46 42 0 July 205 0 (b) (b) (c) (c) 17 14 0 August 236 0 (b) (b) (c) (c) 80 76 0 September 216 0 (b) (b) (c) (c) 6 6 6 0 October 210 0 (b) (b) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) 60 29 0 December 240 0 (b) (b) (c) (c) 92 41 0 Average 215 0 (b) (b) (c) (c) 47 36 0	and the second s			(:)	(.)	\ /	()			-	0
June 222 0 (b) (b) (c) (c) 46 42 0 July 205 0 (b) (b) (c) (c) 17 14 0 August 236 0 (b) (b) (c) (c) 80 76 0 September 216 0 (b) (b) (c) (c) 6 6 0 October 210 0 (b) (b) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) 60 29 0 December 240 0 (b) (b) (c) (c) 92 41 0 Average 215 0 (b) (b) (c) (c) 47 36 0	- 2			(')	(.)					-	0
July 205 0 (b) (c) (c) 40 42 0 August 236 0 (b) (b) (c) (c) 80 76 0 September 216 0 (b) (b) (c) (c) 6 6 0 October 210 0 (b) (b) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) 60 29 0 December 240 0 (b) (b) (c) (c) 92 41 0 Average 215 0 (b) (b) (c) (c) 47 36 0	•						()			-	0
August 236 0 (b) (b) (c) (c) 80 76 0 September 216 0 (b) (b) (c) (c) 6 6 0 October 210 0 (b) (b) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) 60 29 0 December 240 0 (b) (b) (c) (c) 92 41 0 Average 215 0 (b) (b) (c) (c) 47 36 0				(.)	(.)	()					0
August 250				()	(')	()	()				0
October 210 0 (b) (b) (c) (c) 37 34 0 November 208 0 (b) (b) (c) (c) 60 29 0 December 240 0 (b) (b) (c) (c) 92 41 0 Average 215 0 (b) (b) (c) (c) 47 36 0				(')	(.)					-	0
November 208 0 (b) (b) (c) (c) 60 29 0 December 240 0 (b) (b) (c) (c) 92 41 0 Average 215 0 (b) (c) (c) 47 36 0			-	(.)	(.)		\ /	-		-	0
December				()	(.)	\ /	()				0
Average				(.)	(.)	\ /	()			-	0
				(.)	(.,)					-	0
286 0 (^b) (^c) (^c) 48 20 0	Average	215	0	(,,)	(")	(,)	(,)	47	36	0	0
	2 001 January	286	0	(b)	(b)	(c)	(c)	48	20	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."

(s)=Less than 500 barrels per day.

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

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

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

			Other	OPECa			Total	OPECb
	Nig	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	841	481	156	2,781	2,356	4,300	3,864
1981 Average	620	611	406	147	2,106	1,726	3,323	2,922
1982 Average	514	510	412	155	1,451	1,075	2,146	1,734
1983 Average	302	301	422	164	1,422	1,072	1,862	1,477
1984 Average	216	207	548	253	1,544	1.062	2.049	1.512
1985 Average	293	280	605	306	1,522	1,069	1,830	1,312
	440	437	793	416	1,926	1,317	2,837	2,113
1986 Average								
1987 Average	535	529	804	488	1,983	1,451	3,060	2,400
1988 Average	618	607	794	439	1,981	1,339	3,520	2,696
1989 Average	815	800	873	495	2,279	1,642	4,140	3,376
1990 Average	800	784	1,025	666	2,332	1,713	4,296	3,514
1991 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 January	702	686	1,641	1,243	2,690	2,024	4,819	4,051
February	701	661	1,751	1,298	2,727	2,030	5,110	4,334
March	650	613	1,331	1,001	2,308	1,659	5,109	4,358
April	890	848	1,737	1,420	3,046	2,443	5,679	4,968
May	617	572	1,574	1,213	2,599	1,991	5,079	4,374
June	703	667	1,426	1,047	2,451	1,773	5,040	4,243
July	666	645	1,602	1,222	2,589	1,930	5.016	4,216
August	800	766	1.480	1.183	2.623	2.035	5.137	4.427
September	535	505	1,484	1,138	2,368	1,711	4,825	4,044
October	543	522	1,340	1.041	2.164	1.642	4.645	4.020
November	588	548	1,222	942	2,095	1,569	4,431	3,843
December	490	450	1,346	1,069	2.233	1,633	4,564	3,878
Average	657	623	1,493	1,150	2,489	1,869	4,953	4,228
2000 January	490	439	1.333	1.051	2.079	1.515	4,115	3,470
February	663	642	1,550	1,183	2,397	1,854	4,653	4,064
March	1,027	994	1,553	1,209	2,824	2,248	5,013	4,353
April	927	909	1,333	1,209	2,624	2,246	5.067	4,333
		898	, -	,	2,702 2,626	2,146	- /	4,477 4,146
May	909		1,413	1,102			4,843 5 5 1 7	
June	1,175	1,122	1,489	1,226	2,931	2,391	5,517 5,142	4,883
July	910	891	1,424	1,159	2,556	2,065	5,143	4,584
August	1,122	1,108	1,627	1,429	3,064	2,613	5,851	5,332
September	958	947	1,358	1,075	2,538	2,027	5,357	4,758
October	946	943	1,618	1,307	2,812	2,283	5,331	4,750
November	829	814	1,595	1,338	2,692	2,181	5,174	4,570
December	686	673	1,776	1,419	2,794	2,132	5,558	4,854
Average	887	865	1,519	1,223	2,669	2,125	5,136	4,521
2001 January	873	842	1,761	1,416	2,967	2,278	5,405	4,486

^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

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. District of Columbia.

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

						Non-O	PECa					
	Α	ngola	Au	stralia	Ва	hamas	В	Brazil	Ċ	anada	C	China
	Total	Crude Oil										
1973 Average	49	49	2	0	174	0	9	0	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 Average	12	7	2	0	118	0	0	0	599	371	0	0
1977 Average	24	17	3	0	171	0	0	0	517	279	0	0
1978 Average	20	6	5	0	160	0	0	0	467	248	0	0
1979 Average	43	39	6	0	147	0	1	0	538	271	13	13
1980 Average	42	37	1	0	78	0	3	1	455	199	(s)	0
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	38	25	88	0	60	(s)	630	341	46	15
1985 Average	110	104	37	21	40	0	61	0	770	468	59	36
1986 Average	112	102	41	30	37	0	50	0	807	570	90	68
1987 Average	192	180	58	49	37	0	84	0	848	608	82	63
1988 Average	212	203	64	59	32	0	98	0	999	681	88	82
1989 Average	284	279	36	31	34	0	82	0	931	630	80	76
1990 Average	237	236	53	47	37	0	49	0	934	643	80	77
1991 Average	254	254	26	21	35	0	22	0	1,033	743	91	87
1992 Average	336	336	19	17	36	0	20	0	1,069	797	90	84
1993 Average	336	336	19	18	28	0	33	0	1,181	900	51	50
1994 Average	331	322	17	16	29	0	31	1	1,272	983	65	64
1995 Average	367	360	16	16	2	0	8	0	1,332	1,040	53	53
1996 Average	351	344	31	25	1	0	9	0	1,424	1,075	57	57
1997 Average	427	425	48	31	1	0	5	0	1,563	1,198	49	48
1998 Average	468	465	57	31	4	0	26	0	1,598	1,266	42	42
1999 January	421	421	0	0	0	0	3	0	1,600	1,196	(s)	0
February	380	364	73	49	0	0	22	0	1,459	1,081	2	0
March	270	270	53	53	0	0	15	0	1,365	1,056	31	30
April	401	393	19	19	7	0	26	0	1,373	1,057	21	21
May	407	400	55	37	23	0	47	0	1,523	1,104	2	0
June	334	334	56	34	0	0	48	0	1,477	1,159	67	19
July	349	349	30	30	8	0	31	0	1,694	1,354	19	19
August	309	309	65	47	0	0	30	0	1,653	1,263	72	33
September	465	465	110	65	0	0	16	0	1,407	1,067	37	34
October	444	444	0	0	0	0	18	0	1,627	1,229	0	0
November	307	307	22	22	0	0	37	0	1,592	1,264	1	0
December	244	227	23	23	0	0	18	0	1,684	1,291	1	0
Average	361	357	42	31	3	0	26	0	1,539	1,178	21	13
2000 January	217	215	21	21	0	0	39	0	1,718	1,314	7	0
February	186	177	8	0	0	0	2	0	1,677	1,215	22	21
March	312	308	44	44	0	0	9	0	1,571	1,209	91	37
April	332	319	97	70	0	0	29	0	1,628	1,250	57	18
May	378	366	94	65	0	0	14	0	1,771	1,395	34	28
June	360	343	56	56	0	0	32	19	1,712	1,354	55	54
July	310	310	84	84	0	0	38	11	1,667	1,302	44	39
August	279	279	45	45	0	0	45	17	1,677	1,278	33	32
September	266	266	42	22	0	0	9	0	1,650	1,251	40	40
October	266	254	29	29	0	0	27	0	1,635	1,238	76	75
November	341	329	22	22	0	0	52	13	1,633	1,255	21	20
December	301	301	42	42	0	0	28	0	1,885	1,380	45	39
Average	296	289	49	42	0	0	27	5	1,686	1,287	44	34
2001 January	312	300	74	65	0	0	105	35	1,827	1,297	33	33

^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.

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

						Non-	OPECa					
	Co	olombia	Ecu	uador ^b	Ga	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		0	-	_	-	_	74	0	12	1	8	2
1975 Average	9	0	-	-	_	_	27	0	8	5	71	70
1976 Average	21	6	-	-	-	-	39	0	18	16	87	87
1977 Average		0	-	-	-	_	51	0	66	55	179	177
1978 Average	20	0	-	-	-	_	38	0	42	37	318	316
1979 Average	18	0	-	-	-	-	30	0	66	52	439	437
1980 Average		0	-	_	-	-	4	0	70	61	533	507
1981 Average		0 0	-	_	-	-	11	0	36 20	33 18	522	469
1982 Average		0	-	_	-	_	18	(s)		3	685	645 766
1983 Average		0	_	_	_	-	18 45	(s) (s)	4 1	0	826 748	659
1984 Average	23	0	_	_	_	_	60		3	1	816	715
1985 Average 1986 Average	87	57	_	_	_	_	76	(s) 0	12	11	699	621
1987 Average		115	_	_	_	_	76 54	1	13	12	655	602
1988 Average	134	106	_	_	_	_	65	5	19	19	747	674
1989 Average		136	_	_	_	_	34	3	39	39	767	716
1990 Average		140	_	_	_	_	58	2	41	40	755	689
1991 Average		123	_	_	_	_	47	3	24	24	807	759
1992 Average	126	102	_	_	_	_	55	Ö	10	10	830	787
1993 Average	171	141	81	78	_	_	31	Ó	11	10	919	863
1994 Average		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 Average	271	270	115	114	230	230	7	0	23	8	1,385	1,360
1998 Average	354	349	101	98	207	207	12	0	35	26	1,351	1,321
1999 January	445	440	70	66	194	194	0	0	28	13	1,337	1,254
February	480	458	51	45	175	175	17	0	20	0	1,279	1,231
March	592	572	131	123	111	111	10	0	0	0	1,490	1,434
April		425	67	61	269	269	19	0	27	14	1,403	1,315
May		443	145	128	190	190	30	0	67	56	1,333	1,246
June	370	351	112	112	92	92	8	0	31	22	1,355	1,297
July		572	88	88	140	140	0	0	30	17	1,379	1,310
August		521	133	133	95	95	0	0	64	49	1,339	1,225
September		388	136	136	159	159	8	0	44	22	1,282	1,219
October		432	163	163	186	186	7	0	39	36	1,189	1,131
November	416 433	396 421	185 128	179 128	190 216	190 216	6 13	0 0	30 32	10 13	1,230 1,272	1,165 1.217
December	433 468	452	118	114	168	168	10	0	35	21	1,324	1,217 1,254
Average	400	432	110	114	100	100	10	U	33	21	1,324	1,234
2000 January		426	95	95	139	139	16	0	78	65	1,340	1,256
February	370	353	102	102	155	155	48	0	64	36	1,219	1,140
March		450	145	145	136	128	29	0	34	15	1,342	1,246
April		336	114	114	172	172	8	0	34	25	1,412	1,354
May		320	91	91	155	155	13	0	35	20	1,331	1,284
June		265	106	96	88	88	27	0	29	14	1,491	1,431
July		199	112	112	105	105	18	0	55	42	1,298	1,228
August	275	262	190	184	106	106	20	0	21	0	1,416	1,381
September	365	337	194	192	182	182	24	0	15	0	1,494	1,437
October		180	166	160	164	164	8	0	86	66	1,252	1,238
November	305	264	129	123	181	181	36	0	21	11	1,340	1,290
December		308	104	96	129	129	49	0	59	55 20	1,372	1,332
Average	332	308	129	126	142	142	24	0	44	29	1,359	1,301
2001 January	360	326	97	94	94	94	43	0	37	0	1,403	1,363

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 3.3c.

 ⁻⁼Not applicable. (s)=Less than 500 barrels per day.
 Notes: Beginning in October 1977, Strategic Petroleum Reserve imports e included.
 U.S. geographic coverage is the 50 States and the District of Notes: are included. Columbia.

Sources: 1973-1980: Energy Information Administration (EIA), *Petroleum Supply Monthly*, February 1993, Table S3. 1981 forward: EIA, *Petroleum Supply Monthly*, March 2001, Table S3.

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

						Non-O	PECa					
	Netl	nerlands	Netherla	nds Antilles	N	orway	Pue	rto Rico	Rı	ıssia ^b	S	pain
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	53	0	585	0	1	0	99	0	26	0	26	0
1974 Average	43	0	511	0	1	1	90	0	20	0	12	0
1975 Average	19	4	332	0	17	12	90	0	14	0	1	0
1976 Average	8	0	275	0	36	35	88	0	11	2	1	0
1977 Average	31	4	211	0	50	48	105	0	12	2	10	0
1978 Average	5	2	229	0	104	104	94	0	8	1	3	0
1979 Average	23	7	231	0	75	75	92	0	1	0	4	0
1980 Average	2	(s)	225	0	144	144	88	0	1	.0	1	, 0
1981 Average	30	(s)	197	0	119	114	62	0	5	(s)	1	(s)
1982 Average	35	(s)	175 189	0 0	102 66	102	50 40	0 0	1	0	3	(s)
1983 Average	65 65	3 3	189	0	114	65 112	40 42	0	1 13	(s)	2 11	(s) 0
1984 Average	58	0	40	0	32	31	42 28	0	8	(s)	29	0
1985 Average	56 54	0	40 25	0	60	53	20 21	0	18	(s)	29 53	0
1986 Average	60	0	25 29	0	80	70	21	0	11	(s) 0	55	0
1987 Average	61	0	36	0	67	62	22	0	29	0	68	0
1988 Average1989 Average	49	0	42	0	138	127	32	0	48	0	67	Ö
1990 Average	55	0	31	0	102	96	32	0	45	1	47	Ö
1991 Average	29	ŏ	81	ŏ	82	74	27	Ö	29	i	33	ŏ
1992 Average	26	Ŏ	65	Ö	127	119	26	Ö	18	5	32	ő
1993 Average	10	Ŏ	82	Ö	142	137	29	Ö	55	36	37	ő
1994 Average	32	ŏ	98	ŏ	202	190	22	ŏ	30	27	37	ŏ
1995 Average	15	ŏ	52	ŏ	273	258	15	ŏ	25	14	16	1
1996 Average	19	ŏ	64	ŏ	313	293	20	ő	25	18	29	1
1997 Average	25	ŏ	74	ŏ	309	288	16	ŏ	13	3	21	ò
1998 Average	31	Ŏ	82	Ö	236	221	15	Ö	24	9	18	Ö
1999 January	21	0	95	0	216	179	18	0	28	0	4	0
February	7	0	160	0	203	157	0	0	28	0	0	0
March	20	0	58	0	248	199	3	0	26	0	5	0
April	34	0	76	0	265	192	15	0	75	43	13	0
May	65	0	81	0	293	244	10	0	109	45	26	0
June	44	0	31	0	524	497	15	0	149	22	0	0
July	37	0	83	0	408	396	13	0	139	32	8	0
August	35	0	58	0	244	222	12	0	138	14	13	0
September	2	0	30	0	235	195	22	0	142	39	(s)	0
October	17	0	49	0	341	292	13	0	110	31	22	0
November	24	0 0	44	0	288	255	12	0	94	16	23	0
December Average	11 27	0	24 65	0 0	371 304	326 263	15 13	0 0	31 89	12 21	9 10	0 0
2000 January	12	0	74	0	314	262	14	0	29	0	37	0
February	45	Ō	41	Ō	381	328	15	Ö	108	0	30	Ö
March	37	Ö	74	Ö	346	305	13	Ö	61	17	23	Ö
April	21	Ō	37	Ō	327	278	14	Ö	83	25	31	Ö
May	16	Ö	58	Ö	287	279	20	Ö	27	13	8	Ö
June	37	0	81	0	274	240	17	0	75	0	15	0
July	8	0	58	0	545	482	13	0	78	0	23	0
August	13	0	138	0	377	334	11	0	60	6	36	0
September	30	0	48	0	362	322	16	0	85	8	12	0
October	40	0	115	0	273	251	16	0	111	13	20	0
November	34	0	79	0	282	241	8	0	50	0	6	0
December	41	0	98	0	220	186	21	0	55	0	16	0
Average	28	0	75	0	332	292	15	0	68	7	21	0
2001 January	77	0	141	0	319	226	11	0	188	0	50	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.

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

produced from Middle East crude oil.

b Imports from other States 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.

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-	OPECa						
	Trinidad	and Tobago	United	Kingdom	U.S. Vir	gin Islands	Other N	lon-OPECb	7	Γotal	Total	Imports
	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil	Total	Crude Oil
1973 Average	255	60	15	0	329	0	153	36	3,263	1,149	6,256	3,244
1974 Average	251	63	8	0	391	0	122	30	2,832	937	6,112	3,477
1975 Average	242	115	14	(s)	406	0	120	14	2,454	893	6,056	4,105
1976 Average		104	31	13	422	0	203	101	2,247	742	7,313	5,287
1977 Average		134	126	97	466	0	287	157	2,614	971	8,807	6,615
1978 Average		142	180	169	428	0	239	146	2,612	1,172	8,363	6,356
1979 Average		123	202	197	431	0	269	192	2,819	1,407	8,456	6,519
1980 Average		115	176	173	388	0	219	162	2,609	1,399	6,909	5,263
1981 Average		102	375	369	327	0	236	163	2,672	1,474	5,996	4,396
1982 Average		92	456	441	316	0	306	174	2,968	1,754	5,113	3,488
1983 Average		83	382	365	282	0	378	215	3,189	1,853	5,051	3,329
1984 Average		87	402	378	294	0	411	210	3,388	1,914	5,437	3,426
1985 Average		98	310	278	247	0	394	137	3,237	1,888	5,067	3,201
1986 Average		93	350	317	244	0	426	144	3,387	2,065	6,224	4,178
1987 Average		75 74	352	304	272	0	459	196	3,617	2,274	6,678	4,674
1988 Average		71 72	315	254	242	0	487	196	3,882	2,411	7,402	5,107
1989 Average		73 76	215 189	160 155	321 282	0 0	457 417	197 180	3,921	2,467	8,061	5,843
1990 Average		76 72		106	262	0			3,721	2,381	8,018	5,894
1991 Average		72 70	138 230	200		0	282	137	3,535	2,405	7,627	5,782
1992 Average		55	350 350	312	249 254	0	335 452	149 240	3,796 c _{4,347}	2,676 ^C 3,178	7,888 8,620	6,083 6,787
1993 Average		62	458	396	328	0	452 450	239	4,749	3.483	8,996	
1994 Average 1995 Average		62 62	383	341	278	0	302	181	4,749	3,463 3,889	8,835	7,063 7,230
1996 Average		58	308	216	313	0	440	265	5,267	4.070	9,478	7,508
1997 Average		56	226	169	300	0	422	250	5,593	4,450	10.162	8,225
1998 Average		53	250	161	293	ŏ	531	288	5,803	4,537	10,708	8,706
									•		-	•
1999 January		34	242	160	300	0	529	386	5,605	4,342	10,424	8,393
February		38	260	165	295	0	583	372	5,540	4,134	10,650	8,468
March		18	314	261	319	0	460	254	5,549	4,382	10,658	8,739
April		37	319	143 471	271	0 0	756	300	5,939	4,288	11,618	9,256
May		18	569	317	298	0	659	344	6,432	4,725	11,511	9,098
June		33 31	373 644	537	290 278	0	689 646	357 300	6,119 6.681	4,645 5.175	11,160	8,888
July		36	321	256	206	0	617	278	6,005	5,175 4,481	11,697 11,142	9,391 8,908
August		67	321 445	366	305	16	499	244		4,483		8,527
September		66	344	267	284	0	592	318	5,831 5.951	4,463	10,657 10.595	8,613
October November		42	336	281	277	0	421	254	5,602	4,381	10,033	8,224
December		64	198	174	236	0	450	244	5,501	4,357	10,033	8,234
Average		40	365	284	280	ĭ	575	304	5,899	4,502	10,852	8,731
_									•	•	,	•
2000 January	89	71	240	171	252	0	496	216	5,680	4,249	9,795	7,719
February		52	229	149	298	0	669	304	5,743	4,032	10,396	8,096
March		37	243	216	223	0	506	150	5,755	4,309	10,768	8,661
April		70	420	348	308	0	441	232	6,024	4,611	11,091	9,088
May		51	517	449	304	0	581	252	6,138	4,767	10,981	8,912
June		52	343	282	353	0	631	278	6,164	4,572	11,681	9,455
July		54 55	470	458	264	0	682	309	6,201	4,736	11,344	9,320
August		55 50	387	340	292	0	506	208	5,998	4,526	11,849	9,858
September		58 56	239	206	321	0	669	203	6,155	4,523	11,512	9,281
October		56	325	218	234	0	549	175	5,687	4,116	11,018	8,866
November		56 55	212	160	293	0	557	174	5,683	4,138	10,857	8,708
December		55 56	323	252 272	315	0 0	731	164	6,249	4,341	11,807	9,194
Average	82	96	330	212	288	U	584	222	5,957	4,412	11,093	8,932
2001 January	95	55	376	253	339	0	730	164	6,714	4,306	12,118	8,791

^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

(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.

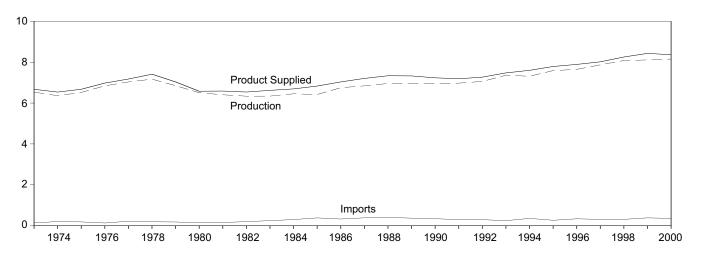
products imported from west European retining areas may have been produced from Middle East crude oil.

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.

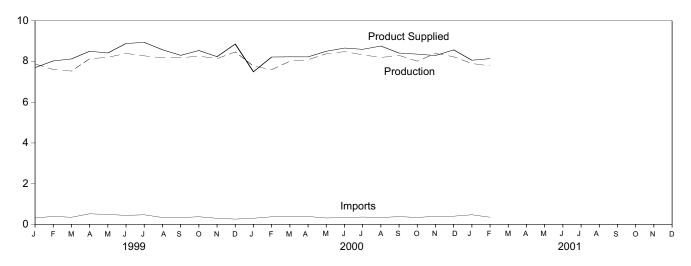
Figure 3.2 Finished Motor Gasoline

(Million Barrels per Day, Except as Noted)

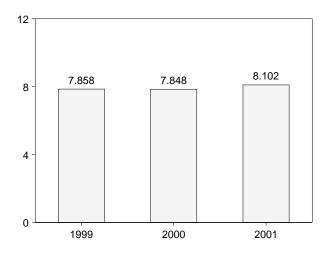
Overview, 1973-2000



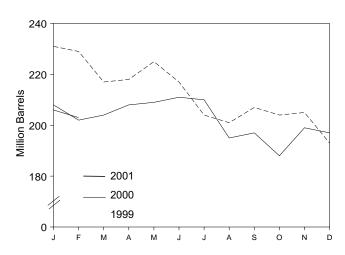
Overview, Monthly



Product Supplied, January and February



Stocks, End of Month



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

Source: Tables 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 per	Day				
1973 Average	6,535	134	-9	4	6,674	209	NA	NA
974 Average	6,360	204	24	2	6,537	^e 218	NA	NA
1975 Average	6,520	184	e 28	2	6,675	235	NA	NA
1976 Average	6,841	131	-10	3	6,978	231	NA	NA
977 Average	7,033	217	72	2	7,177	258	NA	NA
978 Average	7,169	190	-54	1	7,412	238	NA	NA
979 Average	6,852	181	-2	(s)	7,034	237	NA	NA
980 Average	6,506	140	66	ì	6,579	^e 261	NA	NA
981 Average ^f	6,405	157	e -28	2	6,588	253	203	NA
982 Average	6,338	197	-25	20	6,539	e 235	^e 194	NA
983 Average	6,340	247	e-45	10	6,622	222	186	NA
984 Average	6,453	299	54	6	6,693	243	205	NA
985 Average	6,419	381	-41	10	6,831	223	190	NA
986 Average	6,752	326	11	33	7,034	233	194	NA
987 Average	6,841	384	-15	35	7,206	226	189	NA
988 Average	6,956	405	3	22	7,336	228	190	NA
989 Average	6,963	369	-35	39	7,328	213	177	NA
990 Average	6,959	342	10	55	7,235	220	181	NA
991 Average	6,975	297	3	82	7,188	219	182	NA NA
992 Average	7,058	294	-11	96	7,268	216	178	NA NA
993 Average	9 7,360	247	26	105	9 7,476	226	187	h13
994 Average	7,312	356	-31	97	7,601	215	176	17
995 Average	7,588	265	-40	104	7,789	202	161	12
996 Average	7,647	336	-12	104	7,703 7,891	195	157	13
997 Average	7,847 7,870	309	26	137	8,017	210	166	12
998 Average	8,082	311	15	125	8,253	216	172	14
999 January	7,886	313	368	130	7,701	231	183	14
February	7,607	393	-136	105	8,031	229	179	16
March	7,531	350	-328	81	8,128	217	169	15
April	8,138	521	68	85	8,506	218	171	13
May	8,207	485	173	100	8,420	225	177	15
June	8,402	444	-111	71	8,886	217	173	14
July	8,280	471	-280	89	8,942	204	165	13
August	8,183	338	-160	101	8,579	201	160	14
September	8,187	335	90	128	8,305	207	162	15
October	8,266	375	-31	130	8,542	204	161	15
November	8,142	299	72	128	8,240	205	164	13
December	8,471	260	-305	177	8,859	193	154	14
Average	8,111	382	-49	111	8,431	193	154	14
000 January	7,778	302	454	127	7,498	208	166	14
February	7,602	373	-330	83	8,222	202	156	15
March	8,013	371	44	108	8,232	204	157	14
April	8,091	388	139	111	8,229	208	162	13
May	8,378	314	61	126	8,505	209	163	14
June	8,486	339	63	100	8,663	211	165	14
July	8,332	361	-17	110	8,600	210	165	14
August	8,201	338	-417	194	8,762	195	152	13
September	8,300	381	82	184	8,416	197	154	13
October	8,019	341	-221	217	8,364	188	148	14
November	8,398	397	329	170	8,297	199	157	14
December Average	8,235 8,154	404 359	-123 5	190 144	8,573 8,364	197 197	154 154	12 12
February	^R 7,903 ^E 7,786	^R 473 ^E 351	^R 188 ^E -121	^R 125 ^E 115	^R 8,064 ^E 8,143	^R 206 ^E 203	^R 159 ^E 154	12 NA
2-Month Average	E 7,848	E 415	E 41	E 120	E 8,102	E 203	E 154	NA
2000 2-Month Average	7,693	336	75	106	7,848	202	156	15
999 2-Month Average	7,754	351	129	118	7,858	229	179	16

^a Stocks are at end of period.

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

h See Note 1 at end of section.

Note: Geographic coverage is the 50 States and the District of Columbia. Sources: 1973-1980: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S4. 1981 forward: EIA, Petroleum Supply Monthly, March 2001, Table S4.

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.

See Note 4 at end of section.

f See Note 2 at end of section.

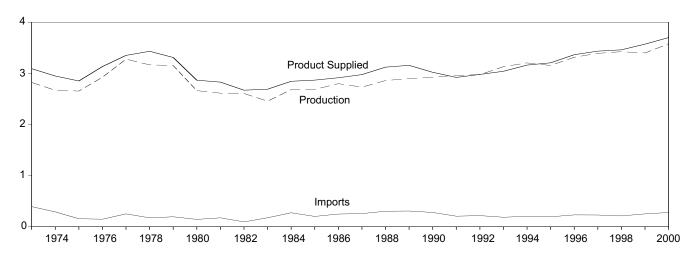
g Beginning in 1993, motor gasoline production and product supplied include blending of fuel ethanol and an adjustment to correct for the

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

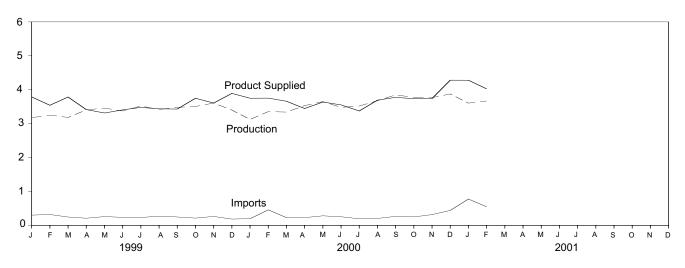
Figure 3.3 Distillate Fuel Oil

(Million Barrels per Day, Except as Noted)

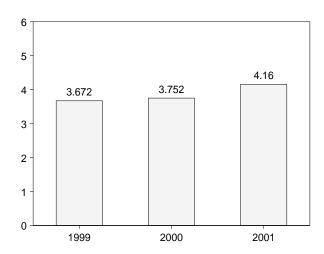
Overview, 1973-2000



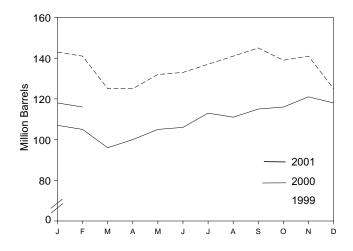
Overview, Monthly



Product Supplied, January and February



Stocks, End of Month



Source: Table 3.5.

Table 3.5 Distillate Fuel Oil Supply and Disposition

		Supply			Disposition			Stocksa		
			0					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	
			Thousand Ba					Million Barrels		
1973 Average	2,822	392	2	115	9	3,092	196	NA	NA	
1974 Average	2,669	289	2	e 10	2	2,948	f 200	NA	NA	
1975 Average	2,654	155	2	e,f -41	1	2,851	209	NA	NA	
1976 Average	2,924	146	1	-62	1	3,133	186	NA	NA	
1977 Average	3,278	250	1	176	1	3,352	250	NA	NA	
1978 Average	3,167	173	1	-93	3	3,432	216	NA	NA	
1979 Average	3,153	193	1	34	3	3,311	229	NA	NA	
1980 Average	2,662	142	1	-64	3	2,866	^f 205	NA	NA	
1981 Average ^g	2,613	173	10	^f -38	5	2,829	192	NA	NA	
1982 Average	2,606	93	10	-35	74	2,671	^f 179	NA	NA	
1983 Average	2,456	174	_	^f -124	64	2,690	140	NA	NA	
1984 Average	2,681	272	_	57	51	2,845	161	NA	NA	
1985 Average	2,687	200	_	-48	67	2,868	144	NA	NA	
1986 Average	2,798	247	_	31	100	2,914	155	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 Average	2,925	278	_	73	109	3,021	132	NA	NA	
1991 Average	2,962	205	_	31	215	2,921	144	NA	NA	
1992 Average	2,974	216	_	-8	219	2,979	141	NA	NA	
1993 Average	3,132	184	_	1	274	3,041	141	9 64	9 77	
1994 Average	3,205	203	_	12	234	3,162	145	73	73	
1995 Average	3,155	193	_	-41	183	3,207	130	67	63	
1996 Average	3,316	230	_	-10	190	3,365	127	68	58	
	3,392	228	_	32	152	3,435	138	68	70	
1997 Average 1998 Average	3,424	210	_	48	124	3,461	156	77	79	
1999 January	3,176	304	_	-426	117	3,788	143	74	69	
February	3,253	322	_	-83	116	3,542	141	73	67	
March	3,183	248	_	-513	159	3,785	125	69	56	
April	3,407	213	_	14	191	3,415	125	68	57	
May	3,458	261	_	219	187	3,314	132	70	62	
June	3,374	238	_	25	180	3,407	133	68	65	
July	3,521	234	_	153	123	3,479	137	71	66	
	3,419	273	_	126	130	3,437	141	69	73	
August	3,482	249	_	139	162	3,431	145	73	73 72	
September October	3,462	249	_	-219	192	3,749	139	73 69	69	
		265	_	94	170		141	72	69	
November	3,608 3,401	265 188	_	-514	212	3,608	125	69	56	
December Average	3,401 3,399	250	_	-514 -84	212 162	3,892 3,572	125 125	69	56	
Average	3,333	230	_	-04	102	3,312		03	30	
2000 January	3,124	198	_	-560	132	3,750	107	66	41	
February	3,354	459	_	-53	112	3,753	105	64	42	
March	3,342	230	_	-298	211	3,660	96	60	36	
April	3,533	230	_	138	178	3,447	100	66	34	
May	3,651	283	_	170	127	3,637	105	67	39	
June	3,481	256	_	34	149	3,554	106	68	38	
July	3,520	195	_	210	132	3,373	113	71	41	
August	3,677	207	_	-63	253	3,694	111	66	44	
September	3,848	267	_	146	194	3,775	115	68	47	
October	3,776	251	_	37	255	3,736	116	68	48	
November	3,768	319	_	154	191	3,742	121	71	50	
December	3,876	443	_	-98	135	4,282	118	72	46	
Average	3,579	277	-	-17	173	3,701	118	72	46	
2001 January	R 3,606	^R 778	_	^R 5	^R 97	^R 4,281	^R 118	^R 68	^R 50	
February	E 3,669	E 550	_	E 20	E 172	E 4,026	E 116	E 68	E 47	
2-Month Average	E 3,636	^E 670	-	E 12	E 133	E 4,160	E 116	^E 68	E 47	
2000 2-Month Average	3,235	324	_	-315	122	3,752	105	64	42	
	3,213	312	_	-264	117	3,672	141	73	67	

^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.

 $R{=}Revised. \ \ NA{=}Not \ available. \ \ -{=}Not \ applicable. \ \ E{=}Estimate.$

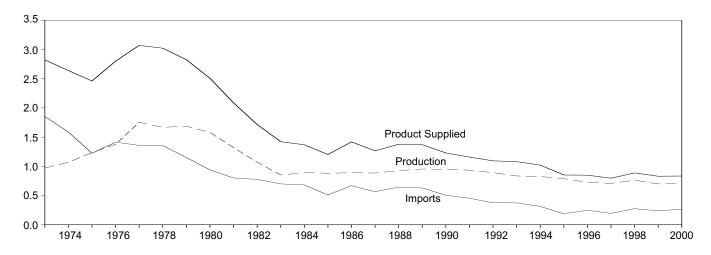
Totals may not equal sum of components due to independent Notes: rounding. Geographic coverage is the 50 States and the District of Columbia.

Sources: 1973-1980: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S5. 1981 forward: EIA, Petroleum Supply Monthly, March 2001, Table S5.

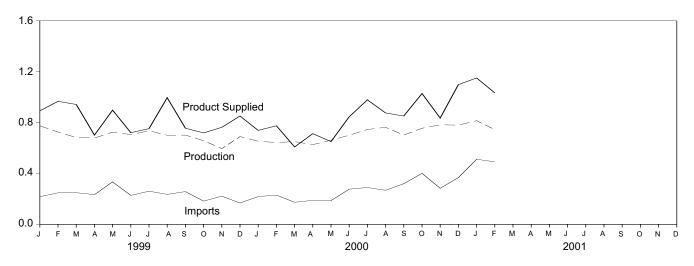
Figure 3.4 Residual Fuel Oil

(Million Barrels per Day, Except as Noted)

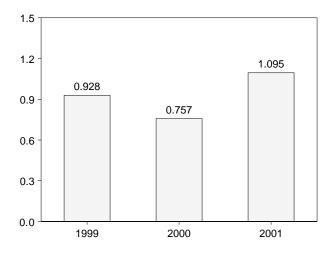
Overview, 1973-2000



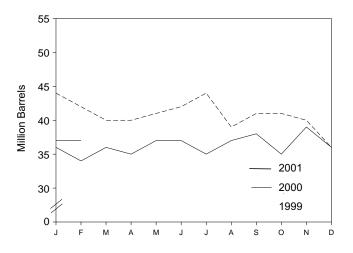
Overview, Monthly



Product Supplied, January and February



Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared. 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
	ļ		Thousand Ba	rrels per Day		1	Million Barrels
973 Average	971	1,853	17	-5	23	2,822	53
1974 Average	1,070	1,587	13	17	14	2,639	d 60
1975 Average	1,235	1,223	15	d -2	15	2,462	74
976 Average	1,377	1,413	17	-5	12	2,801	72
977 Average	1,754	1,359	13	48	6	3,071	90
978 Average	1,667	1,355	13	1	13	3,023	90
979 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
989 Average	954	629	_	-2	215	1,370	44
990 Average	950	504	_	13	211	1,229	49
991 Average	934	453	_	4	226	1,158	50
992 Average	892	375	_	-20	193	1,094	43
993 Average	835	373	_	4	123	1,080	44
994 Average	826	314	_	-6	125	1,021	42
995 Average	788	187	_	-13	136	852	37
996 Average	726	248	_	24	102	848	46
997 Average	708	194	_	-15	120	797	40
998 Average	762	275	-	12	138	887	45
999 January	775	218	_	-33	133	893	44
February	726	248	_	-62	70	967	42
March	683	249	_	-84	72	943	40
April	679	234	_	26	185	702	40
May	725	334	_	9	153	898	41
June	706	228	_	63	151	721	42
July	736	261	_	62	182	753	44
August	701	236	_	-183	124	996	39
September	702	258	_	68	136	756	41
October	658	183	_	-7	130	719	41
November	596	222	_	-5	60	763	40
December	690	168	_	-147	154	852	36
Average	698	237	-	-25	129	830	36
000 January	654	219	_	-3	137	739	36
February	643	230	_	-51	149	775	34
March	651	174	-	50	167	609	36
April	627	189	_	-36	139	713	35
May	662	187	_	75	123	651	37
June	701	277	_	1	133	846	37
July	746	290	_	-56	113	979	35
August	763	268	_	61	94	876	37
September	702	320	_	22	148	852	38
October	756	401	_	-93	221	1,029	35
November	783	284	_	130	100	836	39
December	780	368	_	-94	143	1,099	36
Average	706	267	-	(s)	139	834	36
001 January	R 815	R 512	_	R 35	R 141	R 1,151	R 37
February	E 745	E 492	_	E 73	E 130	E 1,034	E 37
2-Month Average	E 781	^E 503	-	^E 53	E 136	E 1,095	^E 37
000 2-Month Average	649	225	-	-26	143	757	34
999 2-Month Average	752	232	_	-47	103	928	42

^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 at end of period.
^d See Note 4 at end of section.

^e See Note 3 at end of section.

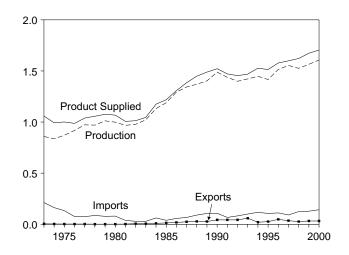
R=Revised. -=Not applicable. E=Estimate. (s)=Less than +500 barrels per day and greater than -500 barrels per day.

Note: Geographic coverage is the 50 States and the District of Columbia. Sources: 1973-1980: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S6. 1981 forward: EIA, Petroleum Supply Monthly, March 2001, Table S6.

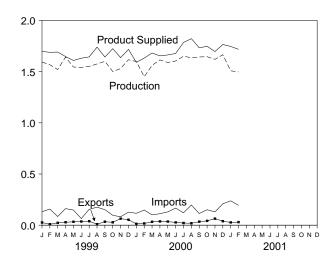
Figure 3.5 Jet Fuel

(Million Barrels per Day, Except as Noted)

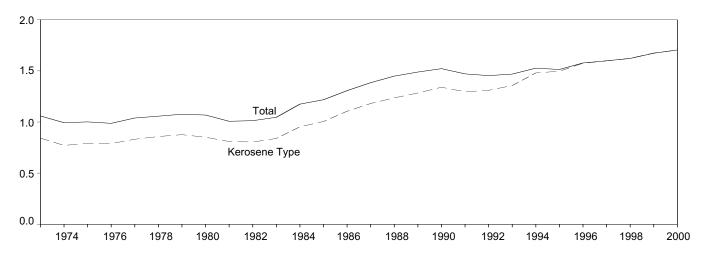
Overview, 1973-2000



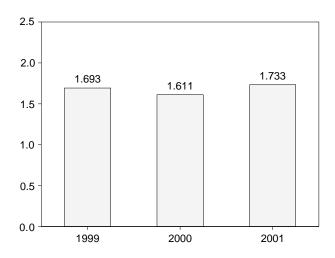
Overview, Monthly



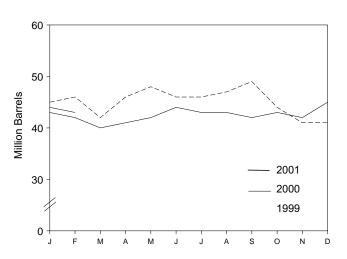
Product Supplied by Type, 1973-2000



Product Supplied, January and February



Stocks, End of Month



Note: Because vertical scales differ, graphs should not be compared. Source: Table 3.7.

Table 3.7 Jet Fuel Supply and Disposition

		Supply			Dis	sposition			
	Р	roduction				Prod	uct Supplied	;	Stocks ^a
	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	691	133	c 2	2	1,001	791	30	25
1976 Average	918	731	76	5	2	987	789	32	26
1977 Average	973	787	75	7	2	1,039	831	35	28
1978 Average	970	791	86	-2	1	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	775	38	c -4	2	1,007	809	41	34
1982 Average	978	778	29	-12	6	1,013	804	c 37	^c 31
1983 Average	1,022	817	29	^c (s)	6	1,046	839	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	1,164	90	-17	28	1,449	1,236	44	38
1989 Average	1,403	1,197	106	-8	27	1,489	1,284	41	34
1990 Average	1,488	1,311	108	31	43	1,522	1,340	52	46
	1,438	1,274	67	-9	43	1,471	1,296	49	44
1991 Average	1,399	1,254	82	-16	43	1,454	1,310	43	39
1992 Average	•	,				,	•		
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
1995 Average	1,416	1,407	106	-19	26	1,514	1,497	40	39
1996 Average	1,515	1,513	111	(s)	48	1,578	1,575	40	40
1997 Average1998 Average	1,554 1,526	1,554 1,525	91 124	11 2	35 26	1,599 1,622	1,598 1,623	44 45	44 45
1999 January	1,594	1,594	132	3	26	1,697	1,698	45	45
February	1,567	1,566	157	26	9	1,689	1,689	46	45
March	1,521	1,520	85	-109	23	1,691	1,692	42	42
April	1,642	1,641	162	126	29	1,647	1,652	46	46
May	1,545	1,545	148	51	33	1,609	1,609	48	47
June	1,542	1,541	65	-60	36	1,631	1,640	46	46
July	1,551	1,550	155	22	39	1,644	1,648	46	46
August	1,575	1,575	176	3	9	1,739	1,739	47	46
September	1,600	1,600	152	74	34	1,643	1,645	49	49
October	1,501	1,500	97	-154	28	1,724	1,725	44	44
	,	,			64	,	,	41	41
November	1,530	1,530	82	-89		1,637	1,640		
December	1,616	1,615	128	-25	53	1,717	1,717	41	40
Average	1,565	1,565	128	-11	32	1,673	1,675	41	40
2000 January	1,599	1,599	116	110	13	1,591	1,586	43	43
February	1,450	1,450	148	-51	17	1,632	1,628	42	42
March	1,561	1,561	101	-53	33	1,682	1,679	40	40
April	1,615	1,615	112	36	37	1,654	1,653	41	41
May	1,589	1,589	130	21	35	1,663	1,663	42	42
June	1,604	1,603	167	67	27	1,677	1,677	44	44
July	1,650	1,649	121	-34	21	1,785	1,784	43	43
August	1,636	1,636	197	-8	19	1,822	1,822	43	43
September	1,643	1,643	114	-9	34	1,732	1,732	42	42
October	1,646	1,645	151	6	42	1,748	1,748	43	43
November	1,620	1,620	130	-10	64	1,696	1,697	42	42
December	1,665	1,665	209	70	39	1,765	1,767	45	44
Average	1,607	1,607	142	12	32	1,705	1,704	45	44
2001 January	^R 1,508	^R 1,508	R 238	R -27	^R 27	^R 1,746	R 1,747	R 44	R 44
February	E 1,497	E 1,497	E 194	E -57	E 30	E 1,718	E 1,718	E 43	E 43
2-Month Average	E 1,503	E 1,503	E 217	E -41	E 28	E 1,733	E 1,733	E 43	E 43
2000 2-Month Average	1,527	1,527	132	32	15	1,611	1,606	42	42
1999 2-Month Average	1,581	1,581	144	14	18	1,693	1,694	46	45

than -500 barrels per day.

Note: Geographic coverage is the 50 States and the District of Columbia. Sources: 1973-1980: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S7. 1981 forward: EIA, Petroleum Supply Monthly, March 2001, 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.

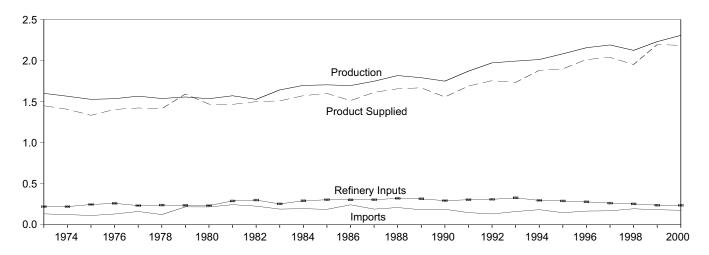
^c See Note 4 at end of section.

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

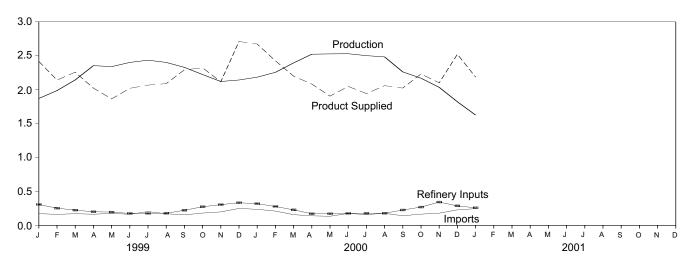
Figure 3.6 Liquefied Petroleum Gases

(Million Barrels per Day, Except as Noted)

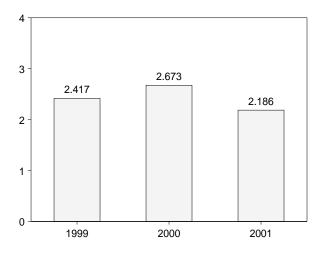
Overview, 1973-2000



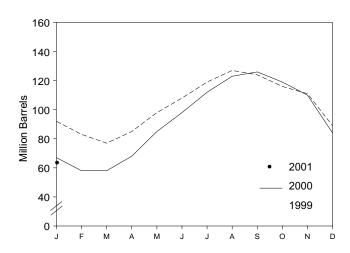
Overview, Monthly



Product Supplied, January



Stocks, End of Month



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

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
1072 Averege	1,600	132	35	220	27	1,449	99
1973 Average1974 Average	1,565	123	38	220	27 25	1,406	^c 113
1975 Average	1,527	112	c 35	246	26 26	1,333	125
	1,535	130	-24	260	25 25	1,404	116
1976 Average	•	161	-24 55	233	18	•	
977 Average	1,566		-12	239		1,422	136 ^c 132
978 Average	1,537 1,556	123 217	°-70	236	20 15	1,413 1,592	111
979 Average	•	216	27	233	21	1,469	^c 120
980 Average	1,535		° 18	233 289	42		
981 Average	1,571	244				1,466	135
982 Average	d 1,527	226	-111	300	65	1,499	^c 94
983 Average	1,642	190	^C -4	253	73	1,509	^c 101
984 Average	1,697	195	°-19	291	48	1,572	101
985 Average	1,704	187	-75	304	62	1,599	74
986 Average	1,695	242	80	302	42	1,512	103
987 Average	1,748	190	-15	304	38	1,612	97
988 Average	1,817	209	1	321	49	1,656	97
989 Average	1,791	181	-47	315	35	1,668	80
990 Average	1,749	188	48	293	40	1,556	98
991 Average	1,871	147	-15	304	41	1,689	92
992 Average	1,972	131	-10	309	49	1,755	89
993 Average	1,993	160	49	327	43	1,734	106
994 Average	2,012	183	-19	296	38	1,880	99
995 Average	2,082	146	-17	289	58	1,899	93
996 Average	2,156	166	-19	278	51	2,012	86
997 Average	2,190	169	9	263	50	2,038	89
998 Average	2,124	194	70	253	42	1,952	115
999 January	1,871	173	-757	308	75	2,417	92
February	1,987	163	-311	254	64	2,142	83
March	2,144	172	-200	225	32	2,258	77
April	2,355	165	276	201	21	2,023	85
May	2,340	177	424	196	33	1,864	98
June	2,402	164	331	177	37	2,021	108
	,				39	,	
July	2,435	204	354	177		2,068	119
August	2,402	172	259	179	47	2,089	127
September	2,329	155	-89	223	58	2,293	124
October	2,223	182	-273	275	81	2,322	116
November	2,121	199	-151	306	47	2,118	111
December	2,143	250	-712	334	61	2,710	89
Average	2,230	182	-71	238	50	2,195	89
000 January	2,185	237	-673	320	101	2,673	67
February	2,256	211	-318	279	81	2,426	58
March	2,395	158	15	229	109	2,199	58
April	2,523	141	333	172	75	2,084	68
May	2,528	135	548	172	38	1,905	85
June	2,530	176	411	177	69	2,048	98
July	2,502	160	478	178	63	1,943	112
August	2,483	178	345	179	76	2,060	123
September	2,262	142	90	227	62	2,024	126
October	2,169	166	-231	270	65	2,232	119
November	2,035	180	-303	344	72	2,101	110
December	1,822	229	-840	288	81	2,522	84
Average	2,307	176	-12	236	74	2,185	84
001 January	1,626	247	-647	259	75	2,186	64

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

b Stocks are at end of period.

Liquefied petroleum gases include ethane, ethylene, propane, Notes:

propylene, normal butane, butylene, isobutane and isobutylene. Geographic coverage is the 50 States and the District of Columbia. Sources: 1973-1980: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S8. 1981 forward: EIA, Petroleum Supply Monthly, March 2001, Table S9.

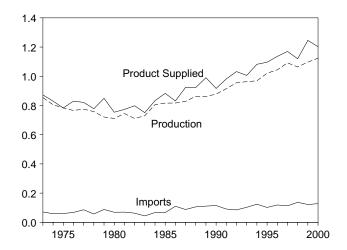
C See Note 4 at end of section.

d See Note 6 at end of section.

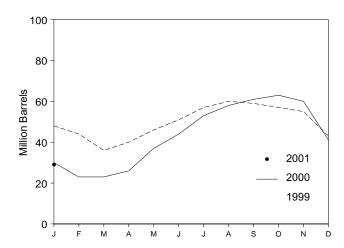
Figure 3.7 Propane and Propylene

(Million Barrels per Day, Except as Noted)

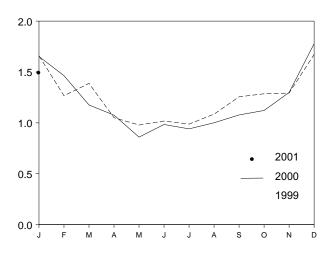
Overview, 1973-2000



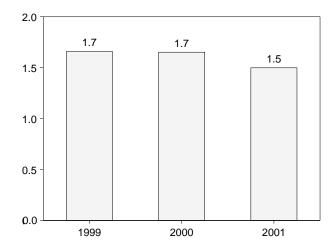
Stocks, End of Month



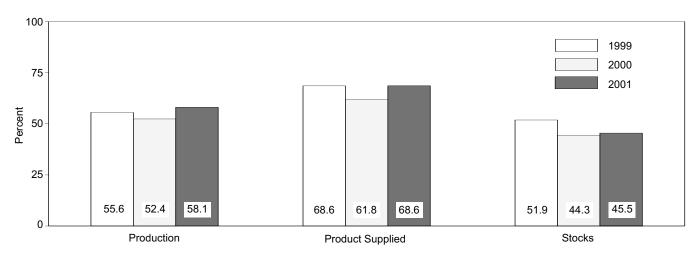
Product Supplied, Monthly



Product Supplied, January



Share of Liquefied Petroleum Gases, January



Note: Because vertical scales differ, graphs should not be compared. Sources: Table 3.9 and, for calculation of shares, data prior to rounding for publication in Tables 3.8 and 3.9.

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

	Sup	pply		Dispo	sition		
	Total Production	Imports	Stock Change ^a	Refinery Inputs	Exports	Product Supplied	Stocksb
			Thousand B	arrels per Day			Million Barrels
1072 Average	854	71	30	8	15	872	65
1973 Average 1974 Average	805	59	30 11	9	14	830	69
1975 Average	783	60	36	11	13	783	82
1976 Average	766	68	-22	12	13	830	74
1977 Average	775	86	21	10	10	821	81
1978 Average	758	57	15	13	9	778	° 87
1979 Average	721	88	c -61	14	8	849	64
1980 Average	711	69	4	12	10	754	° 65
1981 Average	745	70	^c 18	5	18	773	76
1982 Average	711	63	-59	4	31	798	° 54
1983 Average	730	44	c -24	4	43	751	° 48
	806	67	°7	4	30	833	58
1984 Average	816	67	-50	3	48	883	39
1985 Average1986 Average	817	110	64	4	28	831	63
	828	88	-41	8	24	924	48
1987 Average				8			
1988 Average	863	106	7		31	923	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 Average	956	85	-24	(s)	33	1,032	39
1993 Average	963	103	34	(s)	26	1,006	51
1994 Average	969	124	-13	0	24	1,082	46
1995 Average	1,021	102	-10	0	38	1,096	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 January	1,041	118	-550	0	50	1,659	48
February	1,050	125	-133	0	41	1,267	44
March	1,031	135	-240	0	19	1,388	36
April	1,073	116	126	0	13	1,051	40
May	1,085	98	183	0	20	979	46
June	1,105	92	156	0	23	1,018	51
July	1,107	122	213	0	27	988	57
August	1,112	113	108	0	32	1,086	60
September	1,134	108	-34	0	20	1,256	59
October	1,132	125	-93	0	65	1,286	57
November	1,127	136	-64	0	34	1,293	55
December	1,169	178	-375	0	49	1,672	43
Average	1,097	122	-59	0	33	1,246	43
2000 January	1,145	176	-425	0	94	1,652	30
February	1,137	157	-223	0	53	1,464	23
March	1,133	110	-18	0	84	1,176	23
April	1,143	98	103	Ŏ	62	1,076	26
May	1,152	84	350	0	27	860	37
June	1,164	116	256	0	40	984	44
July	1,130	107	267	0	28	941	53
August	1,124	110	178	0	55	1,001	58
September	1,124	94	88	0	41	1,078	61
October	1,113	135	74	0	41	1,122	63
November	1,112	151	-91	0	55	1,122	60
December				0			41
Average	1,031 1,124	195 128	-610 -4	0	58 53	1,778 1,202	41 41
_	•						
2001 January	945	213	-403	0	62	1,499	29

 ^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.

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

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 forward: EIA, *Petroleum Statement*, Annual." Supply Monthly, March 2001, Table S8.

⁽s)=Less than 500 barrels per day.

Table 3.10 Other Petroleum Products Supply and Disposition

1973 Average		Sup	ply		Dispo	sition		
1973 Average			Imports			Exports		Stocksb
1974 Average				Thousand Ba	arrels per Day			Million Barrels
1974 Average	1073 Avorago	2 622	200	1	750	162	2 211	170
1975 Average	1974 Average							
1976 Average 2,725 129 (s) 524 172 2,158 188 189 1977 Average 2,339 130 20 514 164 2,371 195 1978 Average 3,076 80 -12 492 165 2,511 191 1979 Average 3,141 116 24 352 208 2,673 209 1980 Average 2,957 130 15 310 197 2,566 205 1981 Average 2,777 188 4,42 723 195 4,081 241 1993 Average 2,475 30 4 2 6 7 72 205 4,1857 221 1993 Average 2,477 30 2 6 6 767 205 4,1857 221 1993 Average 2,277 188 2 6 6 767 205 4,1857 221 1993 Average 2,247 3 20 2 6 6 767 205 4,1857 221 1993 Average 2,2500 503 6 32 791 2366 2,077 1977 1978 Average 2,500 503 6 32 791 2366 2,077 1977 1978 Average 2,500 503 6 32 791 2366 2,077 1977 1988 Average 2,737 543 -1 829 264 2,187 200 1988 Average 2,773 645 22 799 294 2,303 208 1988 Average 2,773 645 22 799 294 2,303 208 1989 Average 2,771 627 12 797 305 2,285 213 1990 Average 2,773 645 22 799 294 2,303 208 1989 Average 2,773 645 22 799 294 2,303 208 1989 Average 2,773 645 22 799 294 2,303 208 1989 Average 2,773 645 22 799 294 2,303 208 1989 Average 2,773 645 22 887 289 2,402 201 1991 Average 2,828 675 18 306 277 305 2,285 213 1991 Average 2,282 675 18 306 277 2,289 2,402 201 1991 Average 2,250 770 2 3 988 34 4 2,457 206 1994 Average 3,264 3,108 879 -11 1,014 376 2,608 202 1995 Average 3,304 945 30 985 402 2,733 213 1997 Average 3,304 945 30 985 402 2,733 213 1997 Average 3,304 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 2,235 2,235 2				c-6				
1977 Average 2,939 130 20 514 164 2,371 195 1978 Average 3,076 80 -12 492 165 2,511 191 1979 Average 3,141 116 24 352 208 2,673 200 1910 Average 2,957 130 15 310 197 2,566 205 1918 Average 2,771 188 4.42 723 197 2,081 241 241 292 Average 2,475 305 6.88 787 205 1,857 2,16 1983 Average 2,475 305 6.88 787 205 1,857 2,16 1983 Average 2,475 305 6.88 787 205 1,857 2,17 1984 Average 2,520 5.50 6.88 787 205 1,857 2,17 1984 Average 2,500 5.50 5.50 5.88 20 1,877 2,17 2,17 2,17 2,17 2,17 2,17 2,17 2,								
1978 Average 3,076 80 -12 492 165 2,511 191 191 1979 Average 3,141 116 24 352 208 2,673 200 1930 Average 2,957 130 15 310 197 2,566 °205 1910 Average 2,771 188 °42 723 197 2,081 241 191 191 192 Average 2,475 305 68 787 205 °1,857 °216 1933 Average 2,437 382 °4.6 712 236 1,877 °2.16 1933 Average 2,437 382 °4.6 712 236 1,877 °2.16 191 191 191 191 191 191 191 191 191 1							•	
1979 Average								
1980 Average								
1981 Average								C 205
1982 Average								
1983 Average							d 1 057	
1984 Average								
1985 Average	1963 Average							
1986 Average 2,704 504 -15 888 291 2,045 201 1987 Average 2,737 543 -1 829 264 2,187 200 1988 Average 2,771 627 12 799 294 2,303 208 1989 Average 2,771 627 12 797 305 2,285 213 1990 Average 2,842 705 -32 887 289 2,402 201 1991 Average 2,826 675 18 936 277 2,269 208 1992 Average 2,928 707 -3 906 263 2,470 °207 1993 Average 2,928 707 -3 906 263 2,470 °207 1994 Average 2,933 770 -2 1,081 °300 °2,426 206 1994 Average 2,973 761 24 861 329 2,518 215 1995 Average 3,031 708 -23 958 348 2,457 206 1996 Average 3,108 879 -11 1,014 376 2,608 202 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,224 945 30 985 402 2,733 213 1998 Average 3,253 888 18 1,002 307 2,532 232 1999 January 3,097 891 390 759 307 2,532 232 1999 January 3,159 900 276 775 272 2,736 239 1999 January 3,168 1,067 -76 1,041 352 2,689 249 1016 3,108 1,067 -76 1,041 352 2,689 249 1017 3,108 1,067 -76 1,041 352 2,889 240 1018 3,271 981 -302 1,285 325 2,385 224 1019 3,271 981 -302 1,295 325 2,385 224 1019 3,271 981 -302 1,295 325 2,385 224 1019 3,271 981 -302 1,295 325 2,385 224 1019 3,271 981 -392 1,094 345 3,054 214 1019 3,271 981 -392 1,094 345 3,054 214 1019 3,271 981 -392 1,094 345 3,054 214 1019 3,271 981 -392 1,094 345 3,054 214 1019 3,271 981 -392 1,094 345 3,054 214 1019 3,271 981 -392 1,094 345 3,054 214 1019 3,271 981 -392 1,094 345 3,054 214 1019 3,272 3,373 981 -393 1,094 345 3,054 214 1019 3,274 973 -373 -373 -373 -373 -373 -373 -373 -373 -373 -373 -373 -373 -373 -373 -373 -373 -373 -373 -3								
1987 Average								
1988 Average 2,773 645 22 799 294 2,303 208 1990 Average 2,771 627 12 797 305 2,285 213 1990 Average 2,842 705 -32 887 289 2,402 201 1991 Average 2,826 675 18 396 277 2,269 208 1992 Average 2,928 707 -3 906 263 2,470 207 1993 Average 2,928 707 -3 906 263 2,470 207 1993 Average 2,973 761 24 861 329 2,518 215 1995 Average 3,031 708 -23 358 348 2,457 206 1995 Average 3,108 879 -11 1,014 376 2,608 202 1996 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,253 888 18 1,002 380 2,741 219 1999 January 3,007 891 390 759 307 2,532 232 1999 January 3,159 900 276 775 272 2,736 239 March 3,145 815 375 593 302 2,681 261 April 3,108 1,067 776 1,041 352 2,889 241 April 3,271 981 -302 1,287 311 3,170 244 Julie 3,271 981 -302 1,287 311 3,170 244 Julie 3,271 981 -302 1,285 355 2,935 224 Julie 3,271 981 -139 1,084 345 3,079 2,470 208 November 3,124 929 -192 1,105 327 2,812 208 November 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 2,722 205 April 3,212 943 64 1,061 338 2,619 196 Average 3,211 943 -64 1,061 338 2,619 196 Average 3,211 943 -64 1,061 338 2,619 196 Average 3,211 943 -64 1,061 338 2,619 196 Average 3,212 842 5 990 484 2,593 205 November 3,373 891 -139 1,094 345 3,094 2,470 205 April 3,212 943 877 379 643 397 2,487 2,470 206 April 3,212 943 877 379 643 397 2,487 2,487 2,487 2,487 2,487 2,487 2,487 2,487 2,487 2,487 2,487 2,487 2,487 2,487 2,487 2,487 2,487 2,487							•	
1989 Average								
1990 Average 2,842 705 -32 887 289 2,402 201 1991 Average 2,826 675 18 336 277 2,269 208 1992 Average 2,928 707 -3 906 263 2,470 206 1993 Average 2,928 707 -3 906 263 2,470 206 1993 Average 2,973 761 24 861 329 2,518 215 1995 Average 3,108 879 -11 1,014 376 2,608 202 1995 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1998 Average 3,204 945 30 985 402 2,733 213 1998 Average 3,204 945 30 985 402 2,733 213 1998 Average 3,204 945 30 985 402 2,733 213 1998 Average 3,204 945 30 985 402 2,733 213 1998 Average 3,283 888 18 1,002 380 2,741 219 1999 January 3,097 891 390 759 307 2,532 232 February 3,159 900 276 775 272 2,736 239 March 3,145 815 375 593 302 2,691 251 April 3,108 1,067 76 1,041 352 2,859 249 May 3,363 1,007 21 1,427 321 2,602 249 May 3,271 981 -302 1,285 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 214 October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 866 396 2,722 205 December 3,083 835 -292 1,300 439 2,470 196 February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 387 2,682 223 April 3,212 943 187 1,038 488 2,463 229 June 3,510 1,010 -149 1,177 438 3,045 219 May 3,277 1,019 -181 1,123 372 2,982 223 June 3,501 1,010 -149 1,177 438 3,045 219 April 3,212 943 187 1,038 488 2,463 229 June 3,501 1,010 -149 1,177 438 3,045 219 April 3,212 943 187 1,038 488 2,463 229 June 3,501 1,010 -149 1,177 438								
1991 Average	1989 Average							
1991 Average 2,826 675 18 936 277 2,269 208 1992 Average 2,928 707 -3 906 263 2,470 ^2 207 1993 Average 93,035 770 ^2 -2 1,081 ^3 300 ^2 2,426 206 1994 Average 3,031 708 -23 958 348 2,457 206 1995 Average 3,108 879 -11 1,014 376 2,608 202 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,204 945 30 985 402 2,733 213 1998 Average 3,253 888 18 1,002 380 2,741 219 1999 January 3,097 891 390 759 307 2,532 232 February 3,159 900 276 775 272 2,736 239 March 3,145 815 375 593 302 2,691 251 April 3,108 1,067 -76 1,041 352 2,859 249 May 3,363 1,007 21 1,427 321 2,602 249 June 3,216 1,132 -520 1,387 311 3,170 234 July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 2,14 October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 375 2,722 2,056 Average 3,211 943 187 1,038 468 2,463 229 Average 3,211 943 187 1,038 468 2,463 229 Average 3,221 846 25 960 446 2,904 220 Average 3,221 848 839 1 1,177 438 3,045 219 July 3,442 896 25 962 446 2,904 220 Average 3,221 843 839 1 1,126 509 2,392 205 November 3,383 839 1 1,126 509 2,392 205 November 3,188 839 1 1,126 509 2,392 205 November 3,196 939	1990 Average						2,402	
1993 Average	1991 Average	2,826	675	18	936	277		208
1993 Average		2,928	707	-3	906	263	2,470	^c 207
1995 Average 3,031 708 -23 958 348 2,457 206 1996 Average 3,108 879 -11 1,014 376 2,608 202 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,253 888 18 1,002 380 2,741 219 1999 January 3,097 891 390 759 307 2,532 232 February 3,159 900 276 775 272 2,736 239 March 3,145 815 375 593 302 2,691 251 April 3,108 1,067 -76 1,041 352 2,859 249 June 3,216 1,132 -520 1,387 311 3,170 234 July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 214 November 3,120 743 -110 856 396 2,722 205 December 3,083 835 -292 1,300 439 2,470 196 Average 3,217 943 187 1,061 338 2,819 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 367 2,682 223 June 3,501 1,010 -149 1,177 438 3,045 219 March 3,015 1,072 213 806 367 2,682 223 June 3,501 1,010 -149 1,177 438 3,045 219 March 3,501 3,501 1,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 3,28 3,090 4,24 2,593 205 November 3,221 842 -5 990 484 2		e3,035	770	c -2	1,081	e300	e2,426	206
1995 Average 3,031 708 -23 958 348 2,457 206 1996 Average 3,108 879 -11 1,014 376 2,608 202 1997 Average 3,204 945 30 985 402 2,733 213 1997 Average 3,253 888 18 1,002 380 2,741 219 1999 January 3,097 891 390 759 307 2,532 232 February 3,159 900 276 775 272 2,736 239 March 3,145 815 375 593 302 2,691 251 April 3,108 1,067 -76 1,041 352 2,859 249 June 3,216 1,132 -520 1,387 311 3,170 234 July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 214 November 3,120 743 -110 856 396 2,722 205 December 3,083 835 -292 1,300 439 2,470 196 Average 3,217 943 187 1,061 338 2,819 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 367 2,682 223 June 3,501 1,010 -149 1,177 438 3,045 219 March 3,015 1,072 213 806 367 2,682 223 June 3,501 1,010 -149 1,177 438 3,045 219 March 3,501 3,501 1,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 -149 1,177 438 3,045 219 March 3,501 3,501 3,010 3,28 3,090 4,24 2,593 205 November 3,221 842 -5 990 484 2	1994 Average	2.973	761	24	861	329	2.518	215
1996 Average			708	-23	958	348	2.457	206
1997 Average	1996 Average							
1997 Average 3,204 945 30 985 402 2,733 213 1998 Average 3,253 888 18 1,002 380 2,741 219 1999 January 3,097 891 390 759 307 2,532 232 February 3,159 900 276 775 272 2,736 239 March 3,145 815 375 593 302 2,691 251 April 3,108 1,067 -76 1,041 352 2,859 249 May 3,363 1,007 21 1,427 321 2,602 249 June 3,216 1,132 -520 1,337 311 3,170 234 July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 98								
1998 Average 3,253 888 18 1,002 380 2,741 219 1999 January 3,097 891 390 759 307 2,532 232 February 3,159 900 276 775 272 2,736 239 March 3,145 815 375 593 302 2,691 251 April 3,108 1,067 -76 1,041 352 2,859 249 May 3,363 1,007 21 1,427 321 2,602 249 June 3,216 1,132 -520 1,387 311 3,170 234 July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 214 October 3,120 743								
February 3,159 900 276 775 272 2,736 239 March 3,145 815 375 593 302 2,691 251 April 3,108 1,067 -76 1,041 352 2,859 249 May 3,363 1,007 21 1,427 321 2,602 249 June 3,216 1,132 -520 1,387 311 3,170 234 July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 214 October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 2,722 205 December 3,083 835								
February 3,159 900 276 775 272 2,736 239 March 3,145 815 375 593 302 2,691 251 April 3,108 1,067 -76 1,041 352 2,859 249 May 3,363 1,007 21 1,427 321 2,602 249 June 3,216 1,132 -520 1,387 311 3,170 234 July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 214 October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 2,722 205 December 3,083 835	1999 January	3.097	891	390	759	307	2.532	232
March 3,145 815 375 593 302 2,691 251 April 3,108 1,067 -76 1,041 352 2,859 249 May 3,363 1,007 21 1,427 321 2,602 249 June 3,216 1,132 -520 1,387 311 3,170 234 July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 214 October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 2,722 205 December 3,083 385 -292 1,300 439 2,470 196 Average 3,211 943 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
April 3,108 1,067 -76 1,041 352 2,859 249 May 3,363 1,007 21 1,427 321 2,602 249 June 3,216 1,132 -520 1,387 311 3,170 234 July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 214 October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 2,722 205 December 3,083 835 -292 1,300 439 2,470 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029								
May 3,363 1,007 21 1,427 321 2,602 249 June 3,216 1,132 -520 1,387 311 3,170 234 July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 214 October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 2,722 205 December 3,083 835 -292 1,300 439 2,470 196 Average 3,211 943 -64 1,061 338 2,819 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029								
June 3,216 1,132 -520 1,387 311 3,170 234 July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 214 October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 2,722 205 December 3,083 835 -292 1,300 439 2,470 196 Average 3,211 943 -64 1,061 338 2,819 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029 877 379 643 397 2,487 217 March 3,0								
July 3,271 981 -302 1,295 325 2,935 224 August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,064 214 October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 2,722 205 December 3,083 835 -292 1,300 439 2,470 196 Average 3,211 943 -64 1,061 338 2,819 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 367 2,682 223 April 3,212								
August 3,465 1,040 -190 1,083 359 3,253 218 September 3,373 981 -139 1,094 345 3,054 214 October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 2,722 205 December 3,083 835 -292 1,300 439 2,470 196 Average 3,211 943 -64 1,061 338 2,819 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 387 2,682 223 April 3,212 943 187 1,038 468 2,463 229 May 3,277 1,019 -181 1,123 372 2,982 223 June <	and the second s							
September 3,373 981 -139 1,094 345 3,054 214 October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 2,722 205 December 3,083 835 -292 1,300 439 2,470 196 Average 3,211 943 -64 1,061 338 2,819 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 387 2,682 223 April 3,212 943 187 1,038 468 2,463 229 May 3,277 1,019 -181 1,123 372 2,982 223 Jule 3,501 1,0								
October 3,124 929 -192 1,105 327 2,812 208 November 3,120 743 -110 856 396 2,722 205 December 3,083 835 -292 1,300 439 2,470 196 Average 3,211 943 -64 1,061 338 2,819 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 387 2,682 223 April 3,212 943 187 1,038 468 2,463 229 May 3,277 1,019 -181 1,123 372 2,982 223 June 3,501 1,010 -149 1,177 438 3,045 219 July 3,442 896 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
November 3,120 743 -110 856 396 2,722 205 December 3,083 835 -292 1,300 439 2,470 196 Average 3,211 943 -64 1,061 338 2,819 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 387 2,682 223 April 3,212 943 187 1,038 468 2,463 229 May 3,277 1,019 -181 1,123 372 2,982 223 June 3,501 1,010 -149 1,177 438 3,045 219 July 3,442 896 25 962 446 2,904 220 August 3,372 1,007								
December 3,083 835 -292 1,300 439 2,470 196 Average 3,211 943 -64 1,061 338 2,819 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 387 2,682 223 April 3,212 943 187 1,038 468 2,463 229 May 3,212 943 187 1,038 468 2,463 229 May 3,212 943 187 1,038 468 2,463 229 May 3,3212 943 187 1,038 468 2,463 229 May 3,321 1,019 -181 1,123 372 2,982 223 July 3,442 8								
Average 3,211 943 -64 1,061 338 2,819 196 2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 387 2,682 223 April 3,212 943 187 1,038 468 2,463 229 May 3,277 1,019 -181 1,123 372 2,982 223 June 3,501 1,010 -149 1,177 438 3,045 219 July 3,442 896 25 962 446 2,904 220 August 3,397 803 -328 1,099 421 3,008 210 September 3,372 1,007 -152 1,176 415 2,940 205 November 3,188 839 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
2000 January 2,847 1,004 351 842 319 2,339 206 February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 387 2,682 223 April 3,212 943 187 1,038 468 2,463 229 May 3,217 1,019 -181 1,123 372 2,982 223 June 3,501 1,010 -149 1,177 438 3,045 219 July 3,442 896 25 962 446 2,904 220 August 3,397 803 -328 1,099 421 3,008 210 August 3,3372 1,007 -152 1,176 415 2,940 205 October 3,221 842 -5 990 484 2,593 205 November 3,188 839 1 1,126 509 2,392 205 December 2,850 959 84 836 490 2,399 207 Average 3,196 939 34 985 429 2,687 207								
February 3,029 877 379 643 397 2,487 217 March 3,015 1,072 213 806 387 2,682 223 April 3,212 943 187 1,038 468 2,463 229 May 3,277 1,019 -181 1,123 372 2,982 223 June 3,501 1,010 -149 1,177 438 3,045 219 July 3,442 896 25 962 446 2,904 220 August 3,397 803 -328 1,099 421 3,008 210 September 3,372 1,007 -152 1,176 415 2,940 205 October 3,221 842 -5 990 484 2,593 205 November 3,188 839 1 1,126 509 2,392 205 December 2,850 959	-	•			•		,	
March 3,015 1,072 213 806 387 2,682 223 April 3,212 943 187 1,038 468 2,463 229 May 3,277 1,019 -181 1,123 372 2,982 223 June 3,501 1,010 -149 1,177 438 3,045 219 July 3,442 896 25 962 446 2,904 220 August 3,397 803 -328 1,099 421 3,008 210 September 3,372 1,007 -152 1,176 415 2,940 205 October 3,221 842 -5 990 484 2,593 205 November 3,188 839 1 1,126 509 2,392 205 December 2,850 959 84 836 490 2,399 207 Average 3,196 939 34 985 429 2,687 207								
April 3,212 943 187 1,038 468 2,463 229 May 3,277 1,019 -181 1,123 372 2,982 223 June 3,501 1,010 -149 1,177 438 3,045 219 July 3,442 896 25 962 446 2,904 220 August 3,397 803 -328 1,099 421 3,008 210 September 3,372 1,007 -152 1,176 415 2,940 205 October 3,221 842 -5 990 484 2,593 205 November 3,188 839 1 1,126 509 2,392 205 December 2,850 959 84 836 490 2,399 207 Average 3,196 939 34 985 429 2,687 207								
May 3,277 1,019 -181 1,123 372 2,982 223 June 3,501 1,010 -149 1,177 438 3,045 219 July 3,442 896 25 962 446 2,904 220 August 3,397 803 -328 1,099 421 3,008 210 September 3,372 1,007 -152 1,176 415 2,940 205 October 3,221 842 -5 990 484 2,593 205 November 3,188 839 1 1,126 509 2,392 205 December 2,850 959 84 836 490 2,399 207 Average 3,196 939 34 985 429 2,687 207								
June 3,501 1,010 -149 1,177 438 3,045 219 July 3,442 896 25 962 446 2,904 220 August 3,397 803 -328 1,099 421 3,008 210 September 3,372 1,007 -152 1,176 415 2,940 205 October 3,221 842 -5 990 484 2,593 205 November 3,188 839 1 1,126 509 2,392 205 December 2,850 959 84 836 490 2,399 207 Average 3,196 939 34 985 429 2,687 207								
July 3,442 896 25 962 446 2,904 220 August 3,397 803 -328 1,099 421 3,008 210 September 3,372 1,007 -152 1,176 415 2,940 205 October 3,221 842 -5 990 484 2,593 205 November 3,188 839 1 1,126 509 2,392 205 December 2,850 959 84 836 490 2,399 207 Average 3,196 939 34 985 429 2,687 207	May							
July 3,442 896 25 962 446 2,904 220 August 3,397 803 -328 1,099 421 3,008 210 September 3,372 1,007 -152 1,176 415 2,940 205 October 3,221 842 -5 990 484 2,593 205 November 3,188 839 1 1,126 509 2,392 205 December 2,850 959 84 836 490 2,399 207 Average 3,196 939 34 985 429 2,687 207	June							
August 3,397 803 -328 1,099 421 3,008 210 September 3,372 1,007 -152 1,176 415 2,940 205 October 3,221 842 -5 990 484 2,593 205 November 3,188 839 1 1,126 509 2,392 205 December 2,850 959 84 836 490 2,399 207 Average 3,196 939 34 985 429 2,687 207		3,442	896	25	962	446	2,904	220
September 3,372 1,007 -152 1,176 415 2,940 205 October 3,221 842 -5 990 484 2,593 205 November 3,188 839 1 1,126 509 2,392 205 December 2,850 959 84 836 490 2,399 207 Average 3,196 939 34 985 429 2,687 207		3,397	803	-328	1,099		3,008	210
October 3,221 842 -5 990 484 2,593 205 November 3,188 839 1 1,126 509 2,392 205 December 2,850 959 84 836 490 2,399 207 Average 3,196 939 34 985 429 2,687 207			1,007	-152	1,176	415	2,940	205
November								
December 2,850 959 84 836 490 2,399 207 Average 3,196 939 34 985 429 2,687 207								
Average				•				
)001 January 2 704 1 079 304 424 482 2 474 220	2001 January	2,704	1,079	394	434	483	2,471	220

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

Notes: Other petroleum products include pentanes plus, other 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 Columbia.

Sources: 1973-1980: Energy Information Administration (EIA), Petroleum Supply Monthly, February 1993, Table S9. 1981 forward: EIA, Petroleum Supply Monthly, March 2001, Table S10.

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.

Petroleum Notes

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*.

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.

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 abovementioned 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*.

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.

- 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).
- **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. <u>2</u> b	Crude Losses	1980	14	15 9
3.5	Stock Change	1974	10	.9
3.2b 3.5 3.5 3.8	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 February 2001 was forecast as 1.5 trillion cubic feet, 1 percent higher than production during February 2000.

Consumption of natural and supplemental gas in February 2001 was forecast as 2.3 trillion cubic feet, 4 percent lower than the level in February 2000.

Deliveries to residential consumers in February 2001 were forecast as 781 billion cubic feet, 2 percent higher than the previous February's deliveries. Total deliveries to industrial consumers during February 2001 were forecast as 758 billion cubic feet, 6 percent lower than the previous February's level.

Net imports of natural gas in February 2001 were forecast as 291 billion cubic feet, 4 percent higher than net imports in the previous February.

Stocks of working gas¹ in underground natural gas storage reservoirs at the end of February 2001 were forecast as 901 billion cubic feet, 31 percent lower than the level of stocks available 1 year earlier.

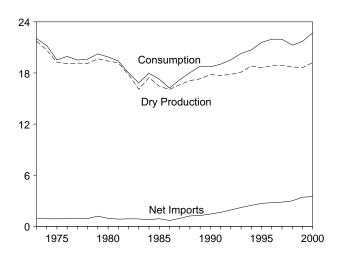
Net withdrawals from underground storage during February 2001 were forecast as 376 billion cubic feet, 17 percent lower than the amount of net withdrawals during February 2000.

¹Gas available for withdrawal.

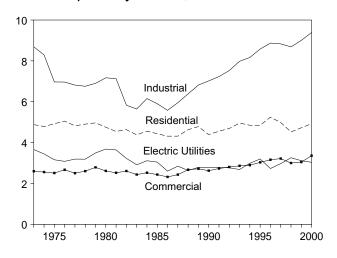
Figure 4.1 Natural Gas

(Trillion Cubic Feet)

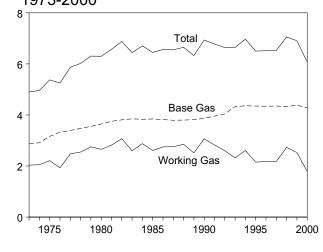
Overview, 1973-2000



Consumption by Sector, 1973-2000

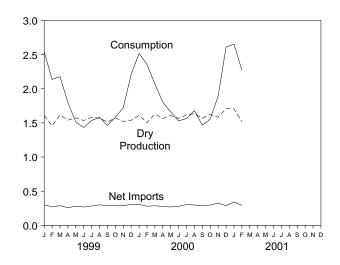


Underground Storage, End of Year, 1973-2000

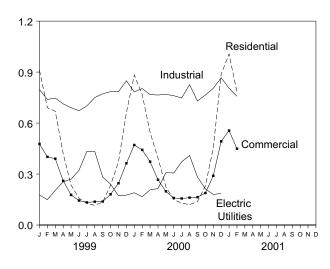


Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 4.1, 4.4, and 4.5.

Overview, Monthly



Consumption by Sector, Monthly



Underground Storage, End of Month

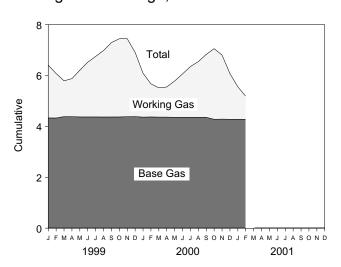


Table 4.1 Natural Gas Overview

	Dry Gas Production ^a	Supplemental Gaseous Fuels ^b	Net Imports ^c	Net Withdrawals From Storage ^d	Balancing Item ^e	Consumption ^f
1973 Total	g 21,731	NA	956	-442	-196	22,049
1974 Total	g 20,713	NA	882	-84	-289	21,223
1975 Total	9 19,236	NA	880	-344	-235	19,538
1976 Total	g 19,098	NA	899	165	-216	19,946
1977 Total	⁹ 19,163	NA	955	-557	-41	19,521
1978 Total	⁹ 19,122	NA	913	-120	-287	19,627
1979 Total	g 19,663	NA	1,198	-248	-372	20,241
1980 Total	19,403	155	936	23	-640	19,877
1981 Total	19,181	176	845	-297	-500	19,404
1982 Total	17,820	145	882	-308	9 -537	18,001
1983 Total	16,094	132	864	447	9 -703	16,835
1984 Total	17,466	110	788	-197	-217	17,951
1985 Total	16,454	126	894	235	-428	17,281
1986 Total	16,059	113	689	-147	-493	16,221
1987 Total	16,621	101	939	-6	-444	17,211
1988 Total	17,103	101	1,220	59	-453	18,030
1989 Total	17,311	107	1,275	326	-218	18,801
1990 Total	17,810	123	1,447	-513	-150	18,716
1991 Total	17,698	113	1,644	80	-500	19,035
1992 Total	17,840	118	1,921	173	-508	19,544
1993 Total	18,095	119	2,210	-36	-110	20,279
1994 Total	18,821	111	2,462	-286	-400	20,708
1995 Total	18,599	110	2,687	415	-230	21,581
1996 Total	18,854	109	2,784	2	217	21,966
1997 Total	18,902	103	2,837	24	92	21,959
1998 Total	18,708	102	2,993	-530	-11	21,262
1999 January	1,609	10	298	659	-35	2,542
February	1,455	8	273	339	61	2,137
March	1,616	9	286	314	-46	2,178
April	1,540	8	258	-96	87	1,797
May	1,574	8	277	-358	11	1,513
June	1,535	6	268	-327	-49	1,433
July	1,580	8	283	-231	-103	1,536
August	1,569	8	299	-236	-60	1,580
September	1,515	7	290	-335	-12	1,464
October	1,571	8	294	-165	-124	1,584
November	1,522	8	287	34	-130	1,721
December	1,537	10	308	573	-216	2,212
Total	18,623	98	3,422	171	-612	21,703
2000 January	E 1.611	E 10	307	780	^R -192	^R 2,517
2000 January	E 1,503	= 10 E g	279	454	R 113	R 2,357
	E 1,629	E 8	286	162	R -15	R 2,071
March April	E 1,564	- o E 7	200 277	-36	N-15 R-9	R 1.804
May	E 1,609	= 7 E 7	268	-36 -232	R 11	R 1,662
	E 1,566	E 6	279	-232 -272	R -50	R 1,530
June July	E 1,620	E 8	302	-272 -290	R -76	R 1,563
August	E 1,634	E 8	298	-193	R -66	R 1,680
September	E 1,568	- o E 7	284	-193	R -110	R 1,467
October	RE 1,626	= 7 E 8	RE 297	-202 -227	R -149	R 1,555
November	RE 1,584	Eg	RE 324	293	R -314	R 1,895
December	RE 1,708	RE 10	RE 288	R 690	-314 R -86	RE 2,610
Total	RE 19,222	RE 98	RE 3,489	R 846	R -943	RE 22,712
2004		F 40	F 0.44	F 4 -	Foo	
2001 January	F 1,705	^F 12 ^F 10	^F 341 ^F 291	^F 515 ^F 376	F 82 F 78	^F 2,655 ^F 2,271
February	F 1,515	E 22	E 632		E 160	' Z,Z/T
2-Month Total	E 3,220	- 22	- 632	^E 891	~ 160	^E 4,926
2000 2-Month Total	E 3,114	^E 19	586	1,234	-79	4,874
1999 2-Month Total	3,064	19	572	998	26	4,679

a "Marketed Production (Wet)" minus "Extraction Loss." See Table 4.2.

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

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

1973-1994: Energy Information Administration (EIA), *Natural* 999, Table 93. **1995 forward:** EIA, *Natural Gas Monthly*, Sources: Gas Annual 1999, Table 93. February 2001, Table 2, except for Balancing Item and Consumption, which incorporate the most current electric utilities data from Table 4.4 of this report. Forecast values: Derived from EIA's Short-Term Integrated Forecasting System. See Note 9 at end of section.

b See Note 4 at end of section.

c "Imports" minus "Exports." See Table 4.3.

d "Withdrawals" minus "Injections." Data for 1980-1999 cover underground storage and liquefied natural gas storage. All other time periods cover underground storage only. See also Note 8 at end of section.

e See Note 7 at end of section. Since 1980, excludes transit shipments that cross the U.S.-Canada border (i.e., natural gas delivered to its destination via the other country).

f See Note 6 at end of section.

^g May include unknown quantities of nonhydrocarbon gases.

Table 4.2 Natural Gas Production

	Gross Withdrawals ^a	Repressuring ^b	Nonhydro- carbon Gases Removed ^c	Vented and Flared ^d	Marketed Production ^e	Extraction Loss ^f	Dry Gas Production ⁹
1973 Total	24,067	4 474	NA	248	^h 22,648	917	^h 21,731
	,	1,171			^h 21,601		
1974 Total	22,850	1,080	NA	169		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	1,181	NA	153	ի 19,974	852	^h 19,122
1979 Total	21,883	1,245	NA	167	ⁿ 20,471	808	^h 19,663
1980 Total	21,870	1,365	199	125	20,180	777	19,403
981 Total	21,587	1,312	222	98	19,956	775	19,181
982 Total	20,272	1,388	208	93	18,582	762	17,820
983 Total	18,659	1,458	222	95	16,884	790	16,094
984 Total	20,267	1,630	224	108	18,304	838	17,466
	,	•					
985 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
987 Total	20,140	2,208	376	124	17,433	812	16,621
988 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
991 Total	21,750	2,772	276	170	18,532	835	17,698
1992 Total	22,132	2,973	280	168	18,712	872	17,840
	,				•		,
993 Total	22,726	3,103	414	227	18,982	886	18,095
994 Total	23,581	3,231	412	228	19,710	889	18,821
995 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	23,924	3,433	611	234	19,646	938	18,708
1999 January	2,064	296	54	21	1,693	84	1,609
February	1,878	280	49	19	1,531	76	1,455
March	2,070	298	51	20	1,701	84	1,616
April	1,964	274	50	20	1,620	80	1,540
May	1,984	255	53	20	1,657	82	1,574
•	,	262	48	20		80	
June	1,945				1,615		1,535
July	1,988	253	52	21	1,663	83	1,580
August	1,984	263	50	21	1,651	82	1,569
September	1,931	265	50	23	1,594	79	1,515
October	2,012	286	53	21	1,653	82	1,571
November	1,953	282	49	20	1,601	79	1,522
December	1,982	293	52	20	1,618	80	1,537
Total	23,755	3,305	610	245	19,596	973	18,623
2000 January	E 2.089	E 334	E 44	E 23	E 1.689	E 78	E 1.611
2000 January	E 1,950	E 312	E 42	E 21		E 72	
February					E 1,575		E 1,503
March	E 2,086	E 310	E 45	E 23	E 1,708	E 79	E 1,629
April	E 2,024	E 318	E 44	E 22	E 1,640	E 75	E 1,564
May	E 2,067	E 313	^E 45	E 22	E 1,687	E 78	E 1,609
June	E 1,992	E 284	E 44	E 22	E 1,642	E 76	E 1,566
July	E 2,051	E 286	^E 45	E 22	E 1,698	^E 78	E 1,620
August	E 2,085	E 304	E 46	E 23	E 1,713	E 79	E 1,634
September	E 2,007	E 296	E 44	E 22	E 1,644	E 76	E 1,568
Octobor	^{RE} 2,114	RE 340	RE 46	RE 23	RE 1,705	⁷⁶ 78	RE 1,626
October	Z,114 RF 0.005		RE 44	RE 22	1,7UO RE 4,000		1,0∠0 RE 4.50.4
November	RE 2,035	RE 308			RE 1,660	RE 76	RE 1,584
December Total	E 2,200 RE 24,699	E 338 RE 3,744	E 48 RE 536	E 24 RE 270	^E 1,790 ^{RE} 20,149	RE 82 RE 927	^{RE} 1,708 ^{RE} 19,222
2001 January	NA NA	NA NA	NA NA	NA NA	^F 1,790 ^F 1,594	^F 85 ^F 79	^F 1,705 ^F 1,515
February 2-Month Total	NA NA	NA NA	NA NA	NA NA	E 3,384	E 164	E 3,220
		^E 646	E 86	E 44	•	E 150	
2000 2-Month Total	^E 4,039	- 646	- 86	- 44	E 3,264	- 150	E 3,114

a Gas withdrawn from gas and oil wells.

74

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

Sources: 1973-1994: Energy Information Administration (EIA), *Natural Gas Annual* 1999, Table 92. 1995 forward: EIA, *Natural Gas Monthly,* February 2001, Table 1. Forecast values: Derived from EIA's Short-Term Integrated Forecasting System. See Note 9 at end of section.

^b The injection of natural gas into oil and gas formations for pressure maintenance and cycling purposes.

C See Note 1 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 2 at end of section.

f See Note 3 at end of section.

⁹ "Marketed Production (Wet)" minus "Extraction Loss."

h May include unknown quantities of nonhydrocarbon gases. R=Revised. NA=Not available. E=Estimate. F=Forecast.

Table 4.3 Natural Gas Trade by Country

				Impo	orts					Exp	orts	
	Algeria ^a	Australia ^a	Canada ^b	Mexico b	Q atar ^a	Trinidad and Tobago ^a	Other ^c	Total	Canada ^b	Japan ^a	Mexico b	Total
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 1988 Total 1998 Total 1998 Total 1998 Total 1998 Total 1998 Total 1999 Total 1999 Total 1999 Total 1999 Total 1999 Total 1991 Total 1992 Total 1993 Total 1994 Total 1995 Total 1995 Total	Algeria ^a 3 0 5 10 11 84 253 86 37 55 131 36 24 0 0 17 42 84 64 43 82 51 85	Australia ^a 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 1,001 797 762 783 712 755 926 749 993 1,276 1,339 1,448 1,710 2,094 2,267 2,566 2,816 2,816	2 (s) 0 0 2 0 102 105 95 75 52 0 0 0 0 0 0 0 0 0 0 0 0 7 7 14	Qatar ^a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Tobago ^a 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Other ^c 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 1,294 1,382 1,532 1,773 2,138 2,350 2,624 2,841 2,937	Canada ^b 15 13 10 8 (s) (s) (s) (s) (s) (s) (s) 15 20 38 17 15 68 45 53 28	Japan ^a 48 50 53 50 52 48 51 45 56 50 53 53 53 53 53 54 53 54 53 56 63 65 68	14 13 9 7 4 4 4 4 3 2 2 2 2 2 2 17 16 60 96 40 47 61 34	77 77 73 65 56 49 59 55 55 55 61 54 74 107 86 129 216 140 162 153
1997 Total	66	10 0	2,899 276	17 (s)	0	ö	2 0	2,994 286	56	62	38 4	157
February March April May June July August September October November December Total	85385535558 9	2 0 0 0 2 0 2 0 2 0 2 2	239 257 247 244 236 259 269 255 260 248 261 3,052	(s) 3 1 (s) 2 1 2 1 0 1	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 3 3 5	251 263 253 252 243 266 275 262 266 258 275 3,152	5 8 5 2 2 2 (s) 1 2 4 5	4 7 6 2 6 6 6 8 6 4 6 6 6	3 4 3 6 6 4 5 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	11 19 13 10 13 11 11 12 13 12 16 159
1999 January February March April May June July August September October November December Total	13 8 13 8 4 3 5 3 8 5 2 5 76	0 3 0 0 0 2 0 2 0 2 0 2	293 269 288 257 275 260 278 289 281 287 285 306 3,368	5 4 1 4 7 5 4 6 5 4 6 3 55	0 3 0 2 0 2 2 0 5 0 2 2 2 2 2	0 0 0 0 5 7 7 10 4 6 7 5 5	0 0 0 0 0 0 0 3 0 0 5	311 286 302 271 291 279 296 312 302 305 305 324 3,586	2 3 4 2 2 2 2 2 2 2 2 2 8 6 39	666666466646664	556565655454 61	12 13 16 13 14 11 13 13 13 10 19 16
2000 January	5 4 3 2 3 3 2 3 8 3 5 44	0 0 0 2 0 0 2 0 1 1 0 2 8	310 289 291 274 275 279 293 295 283 293 R 325 E 293 E 3,500	3 1 (s) 1 0 (s) (s) (s) (s) R (s) R (s) E (s) E (s)	0 0 2 7 0 2 5 7 8 7 7 0 46	8 5 8 7 11 7 14 8 5 4 7 10 96	0 0 0 0 5 5 5 5 5 0 0 26	326 300 307 294 288 296 322 318 305 E 318 RE 345 E 308	7 9 9 3 4 4 4 5 RE 5 E 63	664666666664	6 8 8 10 9 10 11 10 RE 10 RE 10 E 10	19 21 21 17 20 17 20 21 21 RE 21 RE 21 E 20 E 237

R=Revised. E=Estimate. (s)=Less than 500 million cubic feet. Notes: See Note 5 at end of section. Totals may not

Totals may not equal sum of U.S. geographic coverage is the components due to independent rounding.

Sources: 1973-1993: Energy Information Administration (EIA), Form FPC-14, "Annual Report for Importers and Exporters of Natural Gas." 1994 forward: EIA, Natural Gas Monthly, February 2001, Tables 5 and 6.

 ^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 5 at end of section.
 ^c Liquefied natural gas imported from Indonesia in 1986, the United Arab Emirates beginning in 1996, Malaysia in 1999, Nigeria in 2000, and Oman in 2000.

Table 4.4 Natural Gas Consumption by End-Use Sector

				De	elivered to Co	nsumers			
	Lease and Plant Fuel	Pipeline Fuel ^a	Residential	Commercial	Industrial ^b	Vehicles	Electric Utilities	Total	Total Consumption
1973 Total	1,496	728	4,879	2,597	8,689	NA	3,660	19,825	22,049
1974 Total	1,477	669	4,786	2,556	8,292	NA	3,443	19,077	21,223
1975 Total	1,396	583	4,924	2,508	6,968	NA	3,158	17,558	19,538
1976 Total	1,634	548	5,051	2,668	6,964	NA	3,081	17,764	19,946
1977 Total	1,659	533	4,821	2,501	6,815	NA	3,191	17,329	19,521
1978 Total	1,648	530	4,903	2,601	6,757	NA	3,188	17,449	19,627
1979 Total	1,499	601	4,965	2,786	6,899 7,473	NA NA	3,491	18,141	20,241
1980 Total 1981 Total	1,026 928	635 642	4,752 4,546	2,611 2,520	7,172 7,128	NA NA	3,682 3,640	18,216 17,834	19,877 19,404
1982 Total	1,109	596	4,633	2,606	5,831	NA NA	3,226	16,295	18,001
1983 Total	978	490	4,381	2,433	5,643	NA	2,911	15,367	16,835
1984 Total	1,077	529	4,555	2,524	6,154	NA	3,111	16,345	17,951
1985 Total	966	504	4,433	2,432	5,901	NA	3,044	15,811	17,281
1986 Total	923	485	4,314	2,318	5,579	NA	2,602	14,814	16,221
1987 Total	1,149	519	4,315	2,430	5,953	NA	2,844	15,542	17,211
1988 Total	1,096	614	4,630	2,670	6,383	NA	2,636	16,320	18,030
1989 Total	1,070	629	4,781	2,718	6,816	NA NA	2,787	17,102	18,801
1990 Total	1,236	660	4,391	2,623	7,018	(s)	2,787	16,820	18,716
1991 Total	1,129	601	4,556	2,729	7,231	(s)	2,789	17,305	19,035
1992 Total	1,171	588	4,690	2,803	7,527	`1	2,766	17,786	19,544
1993 Total	1,172	624	4,956	2,862	7,981	1	2,682	18,483	20,279
1994 Total	1,124	685	4,848	2,895	8,167	2	2,987	18,899	20,708
1995 Total	1,220	700	4,850	3,031	8,580	3	3,197	19,660	21,581
1996 Total	1,250	711	5,241	3,158	8,870	3	2,732	20,005	21,966
1997 Total	1,203	751	4,984	3,215	8,832	4	2,968	20,004	21,959
1998 Total	1,157	635	4,520	2,999	8,686	5	3,258	19,469	21,262
1999 January	93	87	911	477	797	NA	^R 176	2,361	2,542
February	85	73	690	401	739	NA	^R 149	1,979	2,137
March	94	74	669	390	747	NA	^R 204	2,010	2,178
April	89	61	420	260	713	NA	^R 254	1,647	1,797
May	90	51	235	177	690	NA	^R 270	1,372	1,513
June	88	48	158	144	673	NA	^R 322	1,297	1,433
July	91	52	127	133	701	NA	^R 434	1,394	1,536
August	90	53	116	137	750	NA	R 432	1,436	1,580
September	88	49	135	138	772	NA	R 283	1,327	1,464
October	91	53	234	181	785	NA	R 240	1,440	1,584
November	88	58	372	246	785	NA	R 172	1,574	1,721
December	90	76	660	363	849	NA	R 176	2,047	2,212
Total	1,077	735	4,726	3,045	9,001	6	3,113	19,890	21,703
2000 January	E 106	R 85	R 883	R 471	E 783	NA	190	E 2,326	E 2,517
February	E 99	80	R 768	442	E 803	NA	166	E 2,179	E 2,357
March	E 107	70	R 546	373	E 768	NA	207	E 1,894	E 2,071
April	^E 103	61	R 394	R 266	E 765	NA	214	E 1,640	^E 1,804
May	E 106	56	R 225	R 198	E 769	NA	308	E 1,500	E 1,662
June	E 103	52	R 149	R 159	E 761	NA	306	E 1,375	E 1,530
July	E 106	53	R 129	R 156	E 748	NA	372	E 1,404	E 1,563
August	E 107	57	R 120	161	E 826	NA	409	E 1,516	E 1,680
September	E 103	50 P 50	R 138	R 164	E 730	NA	283	E 1,315	E 1,467
October	RE 107	R 53	230 R 450	R 188	E 765	NA	213	E 1,396	E 1,555
November	E 104	^R 64 ^F 72	R 453	R 290	E 804	NA	179 R 406	E 1,727	E 1,895
Total	^F 106 ^{RE} 1,255	R 753	F 888 R 4,923	F 492 R 3,358	F 867 R 9,389	NA NA	^R 186 ^R 3,034	^{RF} 2,433 ^R 20,704	^{RF} 2,610 ^R 22,712
2001 January	F 107	F 78	F 1,006	F 556	F 805	NA	NA	F 2,470	F 2,655
February	F 94	F 70	_ ^F 781	F 449	F 758	NA	NA	F 2,107	F 2,271
2-Month Total	E 201	E 148	E 1,787	E 1,005	E 1,563	NA	NA	4,577	4,926
2000 2-Month Total	E 204	165	1,650	913	1,585	NA	356	4,505	4,874
1999 2-Month Total	178	160	1,601	878	1,536	NA	326	4,340	4,679

^a Natural gas consumed in the operation of pipelines, primarily in compressors

Notes: Natural gas includes supplemental gaseous fuels. Totals may

Sources: 1973-1994: Energy Information Administration (EIA), *Natural Gas Annual* 1999, Table 94. 1995 forward: EIA, *Natural Gas Monthly*, February 2001, Table 3, except for the electric utilities values, which come from Table 7.7 of this report, and the totals in this table, which incorporate the electric utilities data. Forecast values: Derived from EIA's Short-Term Integrated Forecasting System.

compressors.

b Most deliveries to nonutility power producers are included in the industrial sector. In instances where the nonutility is primarily a commercial establishment, deliveries are included in the commercial sector.

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

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

Table 4.5 Natural Gas in Underground Storage

(Volumes in Billion Cubic Feet)

	U	Natural Gas in Underground Storage, End of Period			orking Gas e Period s Year	s	torage Activity	
	Base Gas	Working Gas	Totala	Volume	Percent	Withdrawals	Injections	Net ^{b,c}
1973 Total	2,864	2,034	4,898	305	17.6	1,533	1,974	-442
1974 Total		2,050	4,962	16	.8	1,701	1,784	-84
1975 Total		2,212	5,374	162	7.9	1,760	2,104	-344
1976 Total		1,926	5,250	-286	-12.9	1,921	1,756	165
1977 Total		2,475	5,866	549	28.5	1,750	2,307	-557
1978 Total		2,547	6,020	72	2.9	2,158	2,278	-120
1979 Total		2,753	6,306	207	8.1	2,047	2,295	-248
1980 Total	- /	2,655	6,297	-99	-3.6	1,910	1,896	14
1981 Total		2,817	6,569	162	6.1	1,887	2,180	-293
				255				-306
1982 Total		3,071	6,879		9.0	2,094	2,399	
1983 Total		2,595	6,442	-476	-15.5	2,142	1,700	442
1984 Total		2,876	6,706	281	10.8	2,064	2,252	-188
1985 Total		2,607	6,448	-270	-9.4	2,359	2,128	231
1986 Total	,	2,749	6,567	142	5.5	1,812	1,952	-140
1987 Total		2,756	6,548	7	.3	1,881	1,887	-6
1988 Total		2,850	6,650	94	3.4	2,244	2,174	69
1989 Total		2,513	6,325	-337	-11.8	2,804	2,491	313
1990 Total		3,068	6,936	555	22.1	1,934	2,433	-499
1991 Total		2,824	6,778	-244	-8.0	2,689	2,608	80
1992 Total		2,597	6,641	-227	-8.0	2,724	2,555	168
1993 Total	4,327	2,322	6,649	-275	-10.6	2,717	2,760	-43
1994 Total	4,360	2,606	6,966	284	12.2	2,508	2,796	-288
1995 Total	4,349	2,153	6,503	-453	-17.4	2,974	2,566	408
1996 Total	4,341	2,173	6,513	19	.9	2,911	2,906	6
1997 Total	4,350	2,175	6,525	2	.1	2,824	2,800	24
1998 Total		2,730	7,056	554	25.5	2,379	2,905	-526
1999 January	4,332	2,073	6,404	361	21.1	682	58	624
February		1,746	6,075	319	22.4	385	63	321
March		1,406	5,789	223	18.9	384	87	297
April		1,495	5,876	109	7.9	120	210	-90
May		1,835	6,206	61	3.4	45	381	-337
June		2,149	6,519	36	1.7	42	349	-307
July		2,379	6,749	-41	-2.0	81	298	-217
August		2,610	6,978	-88	-3.3	90	311	-221
		2,923	7,292	-50 -5	2	43	358	-315
September	,	,				92	247	-315 -155
October		3,073	7,443	-118	-3.7			
November	,	3,065	7,445	-90	-2.8	205	173	32
December	,	2,523 2,523	6,906 6,906	-207 -207	-7.6 -7.6	606 2,772	63 2,598	543 174
	•		•			•	•	
2000 January		1,725	6,088	-370	-17.6	829	48	780
February		1,300	5,672	-491	-27.4	532	78	454
March		1,150	5,514	-280	-19.6	294	132	162
April	4,363	1,184	5,547	-329	-21.8	145	181	-36
May		1,426	5,782	-420	-22.8	75	308	-232
June	4,355	1,706	6,061	-450	-20.9	67	339	-272
July	4,355	1,996	6,351	-394	-16.5	77	368	-290
August		2,190	6,544	-442	-16.8	102	296	-193
September		2,473	6,827	-450	-15.4	72	354	-282
October		2,774	7,053	-300	-9.8	87	313	-227
November		2,517	6,801	-548	-17.9	401	108	293
December	R 4,279	R 1,792	R 6,072	R -731	R -29.0	755	65	R 690
Total		R 1,792	R 6,072	R -731	R -29.0	3,436	2,590	R 846
2001 January	RF 4,279	^{RF} 1,277	RF 5,556	RF -448	RF -26.0	NA	NA	^{RF} 515
February		F 901	^F 5,180	F -400	F -30.7	NA NA	NA NA	F 376

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

ending stocks. See Note 8 at end of section.

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

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

Sources: See end of section.

see Note 8 at end of section.

b For 1980-1998, data differ from those shown on Table 4.1, which

includes liquefied natural gas storage for that period.

^c Positive numbers indicate that withdrawals are greater than injections. Negative numbers indicate that injections are greater than withdrawals. Net withdrawals or injections may not equal the difference between applicable

Natural Gas Notes

1. Nonhydrocarbon Gases Removed: Annual data on nonhydrocarbon gases removed from marketed production—carbon dioxide, helium, hydrogen sulfide, and nitrogen—are from the Energy Information Administration (EIA) Natural Gas Annual (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 Natural Gas Monthly (NGM).

2. 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.

3. 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.

4. 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 EIA *NGA*. Unknown quantities of supplemental gaseous fuels are included in consumption data for 1979 and earlier years.

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

5. 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, Qatar, Trinidad and Tobago, and United Arab Emirates. In addition, one shipment of LNG arrived from Indonesia in December 1986, a shipment arrived from Qatar in February 1999, and 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, a small amount of LNG went to Mexico in 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.

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

Final data 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*.

7. 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 NGM, which was published in July 1985.

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

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 1980-1998 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.

9. 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 natural gas forecast relies on other variables as well, such as gas wellhead prices, electric power generation by other sources, and U.S. gas import capacity. Each month, EIA staff review the model output and make adjustments, if appropriate, based on their knowledge of developments in the natural gas industry.

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

Sources for Table 4.5

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.

1980-1993: EIA, Historical Natural Gas Annual 1930 Through 1999, Table 11.

1994 forward: EIA, *Natural Gas Monthly*, February 2001, Table 9.

Forecast values: derived from EIA's Short-Term Integrated Forecasting System. See Note 9 on this page.

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."

1979-1993: EIA, Form EIA-191, "Underground Gas Storage Report," and FERC, Form FERC-8, "Underground Gas Storage Report."

1994 forward: EIA, *Natural Gas Monthly*, February 2001, Table 9.

Forecast values: derived from EIA's Short-Term Integrated Forecasting System. See Note 9 on this page.

Section 5. Oil and Gas Resource Development

The February 2001 rotary rig count was 1,136, 2 percent higher than the count in January 2001 and 49 percent higher than the count in February 2000. Of the total number of rigs in operation, 973 were onshore and 163 were offshore. For February 2001, the number of onshore rigs was up 52 percent, while the number of offshore rigs was up 34 percent from the February 2000 count. Rotary rigs drilling for natural gas as a share of total rigs stood at 79 percent in February 2001.

Total footage drilled in February 2001 was 19.4 million feet slightly higher than the footage drilled in January 2001 and up 61 percent from that drilled in February 2000.

The estimated number of exploratory and development oil and gas wells drilled during February 2001 was 2,049, 1

percent more than the number drilled in January 2001 and 43 percent higher than the number drilled in February 2000. The estimated number of oil wells drilled was 462, and the estimated number of gas wells was 1,587, 36 percent higher and 45 percent higher, respectively, than their February 2000 levels.

The estimated number of dry holes drilled in February 2001 was 532, up 1 percent from the number drilled in January 2001 and up 33 percent from the number drilled in February 2000.

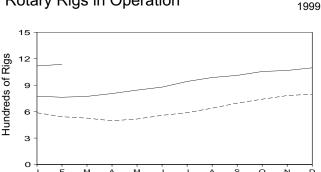
There were an estimated 2.8 thousand well servicing units active in February 2001, 2 percent higher than in February 2000.

Figure 5.1 Oil and Gas Resource Development Indicators

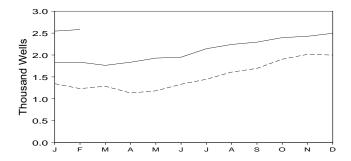
Active Well Servicing Units

Thousands of Units

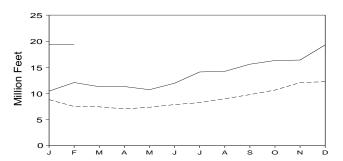
Rotary Rigs in Operation



Wells Drilled



Footage Drilled



Sources: Tables 5.1 and 5.2.

2001 2000

Table 5.1 Oil and Gas Drilling Activity Measurements

			Crews Engaged in Seismic Exploration							
-				Ву	Site	Ву Т	уре		Total	Active
	Offshore	Onshore	Total	Offshore	Onshore	Oil	Gas	Totalb	Footage Drilled ^c	Well Servicing Units ^d
	Мо	onthly Averag	ge		Wee	kly Averaç	je		Thousand Feet	Number
1973 Average	23	227	250	84	1,110	NA	NA	1,194	138,223	NA
1974 Average	31	274	305	94	1,378	NA	NA	1,472	153,374	NA
1975 Average	30	254	284	106	1,554	NA	NA	1,660	180,494	NA
1976 Average	25	237	262	129	1,529	NA	NA	1,658	186,982	2,601
1977 Average	27	281	308	167	1,834	NA	NA	2,001	215,866	2,828
1978 Average	25 30	327 370	352 400	185 207	2,074 1,970	NA NA	NA NA	2,259 2,177	238,669 244.798	2,988 3,399
1979 Average 1980 Average	37	493	530	231	2,678	NA NA	NA	2,909	314,654	4,089
1981 Average	44	637	681	256	3,714	NA	NA	3,970	413,112	4,850
1982 Average	57	531	588	243	2,862	NA	NA	3,105	378,295	4,248
1983 Average	47	426	473	199	2,033	NA	NA	2,232	317,986	3,732
1984 Average	49	445	494	213	2,215	NA	NA	2,428	371,392	4,663
1985 Average	45	333	378	206	1,774	NA	NA	1,980	313,045	4,716
1986 Average	24	176	200	99	865	NA	NA	964	181,856	3,036
1987 Average	24	153	177	95	841	NA	NA	936	162,178	3,060
1988 Average	29	153	182	123	813	554	354	936	156,354	3,341
1989 Average	23	109	132	105	764	453	401	869	134,439	3,391
1990 Average	23	102	125	108	902	532	464	1,010	153,701	3,658
1991 Average	19 12	85 64	104 76	81 52	779 669	482 373	351 331	860 721	143,021 121,124	3,331 2,732
1992 Average 1993 Average	16	63	76 79	82	672	373 373	364	754	135,118	2,732 3,158
1994 Average	NA	NA	NA	102	673	335	427	775	124,809	2,961
1995 Average	NA	NA NA	NA	101	622	323	385	723	117,832	3,043
1996 Average	NA	NA	NA	108	671	306	464	779	129,045	3,425
1997 Average	NA	NA	NA	122	821	376	564	943	156,661	3,499
1998 Average	NA	NA	NA	123	703	264	560	827	149,627	3,030
1999 January	NA	NA	NA	104	483	125	461	587	8,817	1,932
February	NA	NA	NA	101	441	117	425	542	7,511	1,904
March	NA	NA	NA	106	420	114	412	526	7,438	1,994
April	NA	NA	NA	99	397	125	371	496	7,052	2,054
May June	NA NA	NA NA	NA NA	102 100	414 458	136 124	380 434	516 558	7,362 7,870	2,076 2,133
July	NA	NA	NA	99	489	108	478	588	8,250	2,391
August	NA	NA	NA	106	533	111	527	639	8,990	2,388
September	NA	NA	NA	109	587	130	565	696	9,781	2,445
October	NA	NA	NA	111	630	137	601	741	10,648	2,472
November	NA	NA	NA	119	663	145	635	782	12,082	2,472
December	NA	NA	NA	122	676	161	636	798	12,253	2,500
Average	NA	NA	NA	106	519	128	496	625	108,054	2,230
2000 January	NA	NA	NA	125	650	143	632	775	10,450	R 2,550
February	NA	NA	NA	122	641	147	616	763	12,094	2,705
March	NA	NA	NA	124	649	173	600	773	11,293	2,734
April	NA	NA NA	NA	125	680	196	609 645	805	11,324	2,702
May	NA NA	NA NA	NA NA	139	705 730	199	645 677	844	10,725	2,675
June July	NA NA	NA NA	NA NA	139 158	739 784	201 208	677 733	878 942	11,959 14,117	2,619 2,694
August	NA	NA	NA	159	828	206	733 779	987	14,236	2,717
September	NA	NA	NA	146	865	199	810	1,011	15,603	2,722
October	NA	NA	NA	147	908	212	842	1,055	16,306	2,719
November	NA	NA	NA	151	916	234	832	1,067	R 16,400	2,732
December	NA	NA	NA	147	950	242	854	1,097	19,303	2,738
Average	NA	NA	NA	140	778	197	720	918	R 163,810	R 2,692
2001 January	NA	NA	NA	174	944	239	879	1,118	R 19,379	R 2,741
February	NA	NA	NA	163	973	237	898	1,136	19,433	2,755
2-Month Average	NA	NA	NA	168	959	238	888	1,127	38,812	2,748
2000 2-Month Average 1999 2-Month Average	NA NA	NA NA	NA NA	102	645 462	145 121	624 443	769 564	22,544 16,328	2,628 1,918

^a Rotary rigs in operation are reported weekly. Monthly data are averages of 4- or 5- week reporting periods, not calendar months. Multi-month data are averages of the reported data over the covered months, not averages of the weekly data. Annual data are averages over 52- or 53- weeks, not calendar years. Published data are rounded to the nearest whole number.

Note: Geographic coverage is the 50 States and the District of Columbia. Crews Engaged in Seismic Exploration: Society of

Exploration Geophysicists, Tulsa, Oklahoma, Monthly Seismic Crew Count. 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 Servicing Units: 1976 - July 1998-Association of Energy Service Companies, Dallas, Texas, Field Reports; August 1998 forward—Guiberson Well Service Products, a Halliburton Company, Carrollton, Texas.

b Sum of oil, gas, and miscellaneous other rigs (not shown).

Values shown are totals.
 See Glossary.

R=Revised. NA=Not available.

Table 5.2 Oil and Gas Wells Drilled

(Number of Wells)

		Explo	ratory			Develo	pment		Total				
	Oil	Gas	Dry	Total	Oil	Gas	Dry	Total	Oil	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	1,346	6,772	9,204	16,602	8,063	6,986	31,651	17,688	9,409	13,758	40,855	
1977 Total	1,164	1,548	7,283	9,995	17,581	10,574	7,702	35,857	18,745	12,122	14,985	45,852	
1978 Total	1,171	1,771	7,965	10,907	18,010	12,642	8,586	39,238	19,181	14,413	16,551	50,145	
	1,321	•	,			,					16,099		
1979 Total 1980 Total	,	1,907	7,437	10,665 12,884	19,530	13,347	8,662	41,539 57,726	20,851	15,254	-,	52,204 70,610	
	1,764	2,081	9,039	,	30,875	15,252	11,599		32,639	17,333	20,638	,	
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	2,023	1,593	10,148	13,764	35,097	12,971	14,005	62,073	37,120	14,564	24,153	75,837	
1984 Total	2,198	1,521	11,278	14,997	40,407	15,606	14,403	70,416	42,605	17,127	25,681	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	732	4,693	6,280	12,781	7,823	5,348	25,952	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	654	689	3,715	5,058	11,544	10,355	4,598	26,497	12,198	11,044	8,313	31,555	
1991 Total	592	534	3,314	4,440	11,178	8,992	4,282	24,452	11,770	9,526	7,596	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	570 570	2,198	3,310	7,085	7,784	2,877	17,746	7,627	8,354	5,075	21,056	
1996 Total	483	570	2,136	3,189	7,831	8,732	3,146	19,709	8,314	9,302	5,282	22,898	
1997 Total	428	536	2,110	3,074	10,008	10,791	3,592	24,391	10,436	11,327	5,702	27,465	
1998 Average	303	579	1,816	2,698	6,761	11,527	3,097	21,385	7,064	12,106	4,913	24,083	
1999 January	13	37	104	154	282	746	163	1,191	295	783	267	1,345	
February	13	36	99	148	215	715	155	1,085	228	751	254	1,233	
March	9	35	96	140	234	762	151	1,147	243	797	247	1,287	
April	10	31	90	131	234	625	143	1,002	244	656	233	1,133	
May	^R 15	38	94	^R 147	^R 250	634	151	^R 1,035	265	672	245	1,182	
June	10	37	102	149	290	730	164	1,184	300	767	266	1,333	
July	15	40	113	168	292	805	181	1,278	307	845	294	1,446	
August	9	45	117	171	371	886	182	1,439	380	931	299	1,610	
September	19	67	127	213	350	932	199	1,481	369	999	326	1,694	
October	13	70	158	241	477	996	190	1,663	490	1,066	348	1,904	
November	12	73	143	228	515	1,049	223	1,787	527	1,122	366	2,015	
December	17	56	146	219	422	1,068	289	1,779	439	1,124	435	1,998	
	R 155	565	1,389	R 2,109	R 3,932	9,948		R 16,071				18,180	
Average	155	303	1,309	2,109	3,932	9,940	2,191	10,071	4,087	10,513	3,580	10,100	
2000 January	13	53	142	208	339	1,064	221	1,624	352	1,117	363	1,832	
February	13	58	139	210	327	1,037	261	1,625	340	1,095	400	1,835	
March	14	54	141	209	324	1,009	222	1,555	338	1,063	363	1,764	
April	16	51	147	214	366	1,024	231	1,621	382	1,075	378	1,835	
May	16	60	154	230	372	1,085	242	1,699	388	1,145	396	1,929	
June	16	55	170	241	376	1,085	248	1,709	392	1,140	418	1,950	
July	17	62	172	251	389	1,233	270	1,892	406	1,295	442	2,143	
August	16	66	180	262	386	1,311	282	1,979	402	1,377	462	2,241	
September	16	68	184	268	372	1,364	289	2,025	388	1,432	473	2,293	
October	17	71	193	281	397	1,417	301	2,115	414	1,488	494	2,396	
November	19	70	195	284	438	1,417	305	2,113	457	1,470	500	2,427	
December Average	19 192	72 740	200 2,017	291 2,949	453 4,539	1,437 14,466	314 3,186	2,204 22,191	472 4,731	1,509 15,206	514 5,203	2,495 25,140	
	40	71	204	207	447	1 400	204		466		EOE	2 5 4 5	
2001 January	19 10	74 76	204	297	447	1,480	321	2,248	466 462	1,554	525 533	2,545	
February 2-Month Average	19 38	76 150	207 411	302 599	443 890	1,511 2,991	325 646	2,279 4,527	462 928	1,587 3,141	532 1,057	2,581 5,126	
-						•				•		•	
2000 2-Month Average 1999 2-Month Average	26 26	111 73	281 203	418 302	666 497	2,101 1,461	482 318	3,249 2,276	692 523	2,212 1,534	763 521	3,667 2,578	

R=Revised.

Notes: These well counts include only the original drilling of a hole intended to discover or further develop already discovered oil or 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 oil or 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 end of section. Geographic coverage is the 50 States and the District of Columbia.

Sources: Energy Information Administration computations, which are based on well reports submitted by the Petroleum Information Corporation, Denver, Colorado.

Oil and Gas Resource Development Notes

Three well types are considered in the *Monthly Energy Review (MER)* drilling statistics: "completed for oil," "completed for gas," and "dry hole." Wells that productively encounter both crude oil and natural gas are categorized as "completed for 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 pro-

duced 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 February 2001 totaled 91 million short tons, 5 percent higher than in February 2000.

Coal consumed by the electric power sector in December 2000 totaled 88 million short tons, 7 percent higher than the level in December 1999.

Electric power sector coal stocks were 101 million short

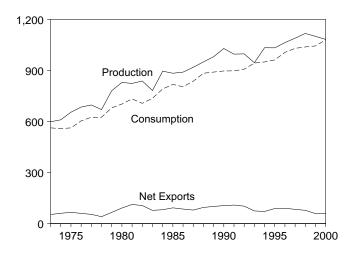
tons at the end of December 2000, 26 percent lower than the level a year earlier.

Coal exports in December 2000 totaled 4 million short tons, 6 percent higher than exports in December 1999. Coal imports in December 2000 totaled 1 million short tons, 90 percent higher than imports in December 1999.

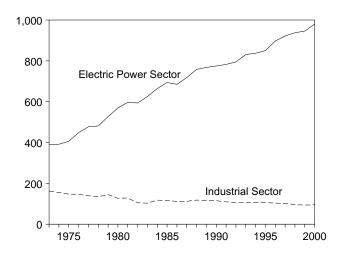
Figure 6.1 Coal

(Million Short Tons)

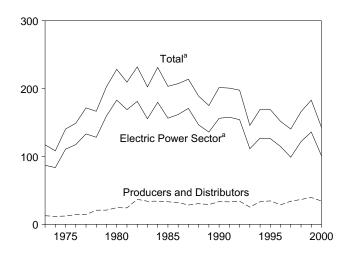
Overview, 1973-2000



Consumption by Sector, 1973-2000

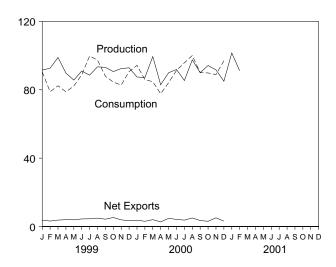


Stocks, End of Year, 1973-2000

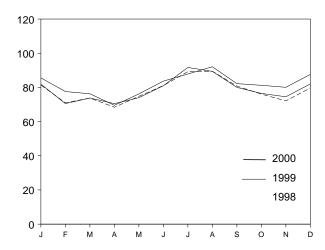


^aOther power producers stocks are included beginning in 1998. Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 6.1, 6.2, and 6.3.

Overview, Monthly



Electric Power Sector Consumption, Monthly



Electric Power Sector Stocks, End of Month

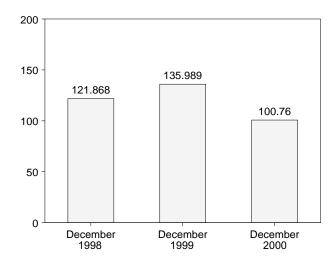


Table 6.1 Coal Overview

(Thousand Short Tons)

	Production	Consumption	Imports ^a	Exports	Stocksb		
973 Total	598,568	562,584	127	53,587	117,155		
974 Total	610,023	558,402	2,080	60,661	108,237		
	,				,		
975 Total	654,641	562,640	940	66,309	140,391		
976 Total	684,913	603,790	1,203	60,021	148,899		
977 Total	697,205	625,291	1,647	54,312	171,543		
978 Total	670,164	625,225	2,953	40,714	166,606		
979 Total	781,134	680,524	2,059	66,042	202,812		
980 Total	829,700	702,730	1,194	91,742	228,407		
981 Total	823,775	732,627	1,043	112,541	209,423		
			742				
982 Total	838,112	706,911		106,277	232,038		
983 Total	782,091	736,672	1,271	77,772	202,584		
984 Total	895,921	791,296	1,286	81,483	231,300		
985 Total	883,638	818,049	1,952	92,680	203,367		
986 Total	890,315	804,231	2,212	85,518	207,319		
987 Total	918,762	836,941	1,747	79,607	213,780		
988 Total	950,265	883,642	2,134	95,023	188,831		
989 Total	980,729	^c 890,575	2,851	100,815	175,087		
990 Total	1,029,076	897,076	2,699	105,804	201,629		
991 Total	995,984	897,796	3,390	108,969	200,682		
992 Total	997,545	907,378	3,803	102,516	197,685		
993 Total	945,424	943,467	8,181	74,519	145,742		
994 Total	1,033,504	950,141	8,870	71,359	169,358		
995 Total	1,032,974	962,039	9,473	88,547	169,083		
996 Total	1,063,856	R 1,006,306	8,115	90,473	151,627		
997 Total	1,089,932	R 1,030,145	7,487	83,545	140,374		
998 Total	1,117,535	^R 1,038,292	8,724	78,048	^d 165,969		
999 January	91,518	R 90,473	739	4,492	166,415		
February	92,616	^R 78,840	726	3,922	176,246		
March	98,891	^R 82,346	782	4,548	185,658		
April	R 89.792	78,832	715	4,698	191,007		
•	R 85,669	^R 82,115		•			
May			421	4,345	195,232		
June	R 90,958	R 88,763	961	5,405	193,435		
July	^R 88,554	^R 99,757	670	5,175	180,780		
August	^R 93,434	^R 97,351	900	5,800	175,066		
September	^R 93,112	^R 87,924	818	5,100	174,726		
October	90,638	^R 84,513	684	5,966	178,207		
November	92,394	^R 82,767	1,097	4,986	182,391		
December	92,856	R 90,635	575	4,039	R 182,976		
Total	R 1,100,431	R 1,044,316	9,089	58,476	R 182,976		
	_	_	•	·	_		
000 January	^R 87,488	^R 94,262	1,002	4,710	^R 173,828		
February	^R 87,122	^R 85,943	698	3,765	R 181,413		
March	R 99,427	^R 84,729	1,115	5,123	R 181,136		
April	R 82,912	R 77,676	823	3,503	R 184,776		
	R 89,959	R 84,152	770	5,536	R 184,536		
May		R 91.322					
June	R 91,864	,-	1,152	5,339	R 178,068		
July	R 85,409	R 95,796	1,212	4,948	R 162,711		
August	^R 97,502	^R 100,017	1,404	6,405	R 157,502		
September	^R 90,006	^R 90,065	946	4,447	R 154,343		
October	^R 94,164	R 89,849	1,442	4,492	R 156,025		
November	^R 91,651	R 88,900	854	5,958	R 154,019		
	R 85,003				142,731		
December Total	R 1,082,508	96,966 1,079,677	1,095 12,513	4,264 58,489	142,731 142,731		
		, ,		·	•		
001 January	101,545	NA	NA	NA	NA		
February	91,132	NA	NA	NA	NA		
2-Month Total	192,677	NA	NA	NA	NA		
2000 2-Month Total	174,611	180,205	1,700	8,475	181,413		
		•		-	176,246		
999 2-Month Total	184,134	169,312	1,466	8,413	1/0.246		

^a Includes Puerto Rico.

Table 6.3.

R=Revised. NA=Not available.

Notes: Data through 1997 are final. Subsequent data are preliminary. For methodology used to calculate production, consumption, and stocks, see Notes 1, 2, and 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.

Sources: See end of section for sources.

b Stocks held by electric utilities, other power producers, coke plants, general industry, and coal producers and distributors at end of period. Excludes stocks held at retail dealers for consumption by the residential and commercial sector.

^c Beginning in 1989, includes coal consumed by "Other Power Producers." See Table 6.2.

d Beginning in 1998, includes coal stocks at "Other Power Producers." See

Table 6.2 Coal Consumption by Sector

(Thousand Short Tons)

		E	End-Use Sect	ors ^a		Ele	ectric Power Se	ctor	
	Pacidontial		Industrial				Othor		
	Residential and	Coke				Electric	Other Power		
	Commercial	Plants	Other	Total	Transportation	Utilities	Producers ^{a,b}	Total	Total
1973 Total	11,117	94,101	68,038	162,139	116	389,212	NA	^c 389,212	562,584
1974 Total	11,417	90,191	64,903	155,094	80	391,811	NA	^c 391,811	558,402
1975 Total		83,598	63,646	147,244	24	405,962	NA	^c 405,962	562,640
1976 Total		84,704	61,787	146,491	12	448,371	NA	^c 448,371	603,790
1977 Total		77,739	61,463	139,202	9 (d)	477,126	NA	^c 477,126	625,291
1978 Total		71,394	63,085	134,479	(d)	481,235	NA	^c 481,235	625,225 680.524
1979 Total 1980 Total	8,388 6,452	77,368 66,657	67,717 60,347	145,085 127,004	(d)	527,051 569,274	NA NA	°527,051 °569,274	702,730
1981 Total		61,014	67,395	127,004	(d)	596,797	NA NA	°596,797	732,627
1982 Total		40,908	64,097	105,005	}d{	593,666	NA NA	°593,666	706,911
1983 Total		37,033	65,980	103,013	}d∫	625,211	NA	^c 625,211	736,672
1984 Total		44,022	73,745	117,767	(b)	664,399	NA	c664,399	791,296
1985 Total		41,056	75,372	116,429	(b)	693,841	NA	^c 693,841	818,049
1986 Total		35,924	75,583	111,508	(d)	685,056	NA	^c 685,056	804,231
1987 Total	6,914	36,957	75,175	112,132	(d)	717,894	NA	^c 717,894	836,941
1988 Total		41,888	76,252	118,140	(ˈd)	758,372	NA	^c 758,372	883,642
1989 Total	6,167	40,508	76,134	116,643	(d)	766,888	876	^e 767,764	^e 890,575
1990 Total		38,877	76,330	115,207	(d)	773,549	1,596	775,145	897,076
1991 Total	6,094	33,854	75,405	109,259	(d)	772,268	10,175	782,443	897,796
1992 Total 1993 Total		32,366	74,042	106,408 106,215	(d)	779,860 813,508	14,957	794,817	907,378
1994 Total	6,221 6,013	31,323 31,740	74,892 75,179	106,213	\d\	817,270	17,523 19,940	831,031 837,210	943,467 950,141
1995 Total		33,011	73,055	106,067	d'	829,007	21,158	850,165	962,039
1996 Total		31,706	R 71,689	R 103,395	}d{	874,681	22,224	896,905	R 1,006,306
1997 Total		30,203	R 71,515	R 101,718	(d)	900,361	21,603	921,964	R 1,030,145
1998 January		2,345	^R 5,920	R 8,266	(d)	79,520	E 1,863	E 81,383	R 90,201
February		2,097	R 5,908	R 8,005	(d) (d)	69,097	E 1,904	E 71,001	^R 79,458
March		2,293	R 5,894	R 8,186	(d)	71,817	E 1,969	E 73,786	R 82,424
April		2,456	R 5,541	R 7,997	(d)	66,474	E 1,936	E 68,410	R 76,794
May		2,508	^R 5,514 ^R 5,509	^R 8,022 ^R 7,783	(d)	72,867	E 1,908 E 2,061	E 74,775 E 81,077	R 83,065
June		2,275 2,403	R 5,394	R 7,798	(d)	79,016 87,189	E 2.050	E 89,239	^R 89,177 ^R 97,395
July August		2,453	R 5,354	R 7.807	\ d \	87,064	E 2,377	E 89.441	^R 97,592
September		2,316	R 5.312	R 7,628	\ d \	78,078	E 2.713	E 80.791	R 88.687
October		2,454	R 5,671	R 8,125	ζd′,	73,407	E 2,679	E 76,086	R 84,492
November		2,207	^R 5,706	^R 7,914	(d)	69,452	E 2,670	E 72,122	R 80,506
December	705	2,381	^R 5,717	R 8,097	(d)	76,887	E 2,813	E 79,700	R 88,502
Total	4,856	28,189	^R 67,439	R 95,628	(d)	910,867	26,941	937,808	R 1,038,292
1999 January		2,287	5,720	8,007	(d)	R 78,575	E 3,335	RE 81,910	R 90,473
February		2,122 2,387	5,722 5,716	7,844 8,103	(d)	67,220 R 70.643	E 3,321 E 3.147	E 70,541 RE 73,790	^R 78,840 ^R 82,346
March April		2,367	5,397	7,892	(d)	66,961	E 3,535	E 70,496	78,832
May		2,448	5,389	7,838	(d)	R 70,285	E 3,717	70,430 RE 74,002	R 82,115
June		2,128	5,389	7,517	\ d \	R 76,507	E 4,482	RE 80,989	R 88,763
July		2,363	5,314	7,677	ζd ή	R 87,020	E 4,653	RE 91,673	R 99,757
August		2,351	5,301	7,652	(d)	R 84,729	E 4,641	RE 89,370	R 97,351
September	240	2,310	5,358	7,668	(d)	R 75,520	E 4,496	RE 80.016	R 87,924
October		2,389	5,357	7,746	(d)	R 71,938	E 4,546	RE 76,484	^R 84,513
November	473	2,352	5,415	7,767	(d)	R 69,353	^E 5,175	^{RE} 74,528	^R 82,767
Total	708 R 4,879	2,476 28,108	5,400 65,478	7,876 93,586	(d) (d)	^R 75,369 894,120	E 6,683 E 51,731	RE 82,052 E 945,851	^R 90,635 ^R 1,044,316
2000 January		2,511	5,559	8,070	(d)	76,957	RE 8,609	RE 85,566	R 94,262
February		2,299	5,584	7,883	d'	69,327	RE 8,266	RE 77,593	R 85,943
March		2,508	5,599	8,108	}d ∖	67,818	RE 8,441	RE 76,259	R 84,729
April		2,628	5,098	7,726	ζď	61,074	RE 8,463	RE 69,537	R 77,676
May		2,578	5,101	7,678	(d)	67,260	RE 8,937	RE 76,197	R 84,152
June	280	2,240	5,112	7,352	(d)	73,720	RE 9,970	RE 83,690	R 91,322
July		2,506	^R 5,081	^R 7,587	(d)	76,870	RE 10,999	RE 87,869	R 95,796
August		2,494	R 5,094	R 7,588	(d)	79,813	RE 12,268	RE 92,081	R 100,017
September	288	2,451	R 5,113	7,564	(d)	70,591	RE 11,623	RE 82,214	90,065
October	F 241	F 2,557	F 5,820	F 8,377	(d) (d)	69,739	RE 11,492	RE 81,231	R 89,849
November		F 2,353	F 5,987	F 8,340	(d)	69,025	RE 11,043	RE 80,068	R 88,900
December		F 2,353	F 6,272	F 8,625	(d)	75,423	E 12,214	E 87,637	96,966 1,070,677
Total	^E 4,840	E 29,478	^E 65,419	E 94,897	(")	857,615	122,325	979,940	1,079,677

 ^a Most of the coal consumption at nonutility cogeneration plants is included in the end-use sectors.
 ^b Nonutility wholesale producers of electricity, and nonutility cogeneration plants

b Nonutility wholesale producers of electricity, and nonutility cogeneration plants that are not included in the end-use sectors. Only annual data are collected; prior to 1998, monthly estimates are derived from the annual total's daily rate; for 1998 forward, monthly estimates are developed from industry analysis.

^c Electric utilities only

^d After 1977, small amounts of coal consumed by the Transportation Sector are included in "Other" under the Industrial Sector.

^e Beginning in 1989, includes coal consumed by "Other Power Producers." R=Revised. E=Estimate. NA=Not available. F=Forecast.

Notes: For sector-specific reporting and estimating information, see Note 2 at end of section. Data through 1997 are final. Subsequent data are preliminary. Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section for sources. Forecast values are derived from EIA's Short-Term Integrated Forecasting System. See Note 4 at end of section.

Table 6.3 Coal Stocks

(Thousand Short Tons)

						Consumers				
				Industria	al	Е	lectric Power	Sector		
	Producers and Distributors	Residential and Commercial	Coke Plants	Other	Total	Electric Utilities	Other Power Producers ^a	Total	Total	Total
40=0 \	10.500			40.070	47.000				404.005	445.455
1973 Year 1974 Year	12,530 11,634	290 280	6,998 6,209	10,370 6,605	17,368 12,814	86,967 83,509	NA NA	86,967 83,509	104,625 96,603	117,155 108,237
1975 Year	12,108	233	8,797	8,529	17,326	110,724	NA	110,724	128,283	140,391
1976 Year	14,221	240	9,902	7,100	17,002	117,436	NA	117,436	134,678	148,899
1977 Year	14,225	220	12,816	11,063	23,879	133,219	NA	133,219	157,318	171,543
1978 Year	20,695	360	8,278	9,048	17,326	128,225	NA	128,225	145,911	166,606 202.812
1979 Year 1980 Year	20,826 24,379	340 (b)	10,155 9,067	11,777 11,951	21,932 21,018	159,714 183,010	NA NA	159,714 183,010	181,986 204,028	202,812 228,407
1981 Year	24,379	{b}	6,475	9,906	16,381	168,893	NA NA	168,893	185,274	209,423
1982 Year	36,784	(b)	4,642	9,479	14,121	181,132	NA	181,132	195,254	232,038
1983 Year	33,931	(b)	4,346	8,710	13,056	155,598	NA	155,598	168,654	202,584
1984 Year	34,090	(þ)	6,166	11,317	17,483	179,727	NA	179,727	197,211	231,300
1985 Year	33,133	(b)	3,420	10,438	13,857	156,376	NA	156,376	170,234	203,367
1986 Year 1987 Year	32,093 28,321	(b)	2,992 3,884	10,429 10,777	13,420 14,662	161,806 170,797	NA NA	161,806 170,797	175,226 185,459	207,319 213,780
1988 Year	28,321 30,418	(b)	3,884 3,137	8,768	11,906	170,797	NA NA	146,507	158,413	188,831
1989 Year	29,000	(b)	2,864	7,363	10,227	135,860	NA NA	135,860	146,087	175,087
1990 Year	33,418	(b)	3,329	8,716	12,044	156,166	NA	156,166	168,210	201,629
1991 Year	32,971	(b)	2,773	7,061	9,835	157,876	NA	157,876	167,711	200,682
1992 Year	33,993	(b)	2,597	6,965	9,562	154,130	NA	154,130	163,692	197,685
1993 Year	25,284	(b)	2,401	6,716	9,117	111,341	NA	111,341	120,458	145,742
1994 Year 1995 Year	33,219 34,444	(b)	2,657 2,632	6,585 5,702	9,243 8,334	126,897 126,304	NA NA	126,897 126,304	136,139 134,639	169,358 169,083
1996 Year	28,648) b í	2,667	5,688	8,355	114.623	NA NA	114.623	122,979	151,627
1997 Year	33,973	(b)	1,978	5,597	7,576	98,826	NA	98,826	106,401	140,374
1998 January	36,313	(b)	1,947	5,252	7,199	100,406	E 88	c E 100,494	^c 107,693	^c 144,006
February	38,653	(b)	1,916	4,906	6,823	103,793	E 63	E 103,856	110,678	149,331
March	40,994	(b)	1,885	4,561	6,446	108,101	^E 427	E 108,528	114,974	155,968
April	40,105	(b)	1,922	4,571	6,493	116,231	E 497	E 116,728	123,221	163,326
May	39,217	(b)	1,958	4,582	6,540	119,936	E 631 E 683	E 120,567 E 118,441	127,107	166,324
June July	38,331 38,821	(b)	1,995 2,010	4,593 4,810	6,587 6,821	117,758 109,540	E 659	E 110,199	125,028 117,019	163,359 155,840
August	39,312	\b \	2,026	5,028	7,054	103,720	E 1,215	E 104,935	111,989	151,301
September	39,803	(b)	2,042	5,246	7,288	104,552	E 1,619	E 106,171	113,458	153,261
October	38,712	(b)	2,037	5,345	7,382	110,021	E 1,607	E 111,628	119,010	157,722
November	37,621	(b)	2,031	5,445	7,477	117,225	E 1,559	E 118,784	126,261	163,882
December	36,530	(b)	2,026	5,545	7,571	120,501	^E 1,367	E 121,868	129,439	165,969
1999 January	38,216 40,288	(b)	1,983 1.941	5,278 5.010	7,261 6,951	119,382 127,428	E 1,556 E 1,579	E 120,938 E 129,007	128,199 135,958	166,415 176,246
February March	42,361	(b)	1,898	4,743	6,640	134,897	E 1,760	E 136,657	143,297	185,658
April	42,085	(b)	1,957	4,716	6,673	139,495	E 2.754	E 142,249	148,922	191,007
May	41,809	(b)	2,016	4,690	6,706	143,561	E 3,156	E 146,717	153,423	195,232
June	41,533	(b)	2,075	4,663	6,739	141,267	E 3,896	E 145,163	151,902	193,435
July	39,377	(b)	2,042	4,811	6,853	130,673	E 3,877	E 134,550	141,403	180,780
August	37,221	(b)	2,009	4,959	6,968	127,633	E 3,244	E 130,877	137,845	175,066
September	35,064	(b)	1,975	5,107	7,083	129,302	E 3,277 E 3,550	E 132,579 E 136,158	139,662	174,726
October November	34,830 34,595	(b)	1,965 1,954	5,255 5,396	7,219 7,349	132,608 135,355	E 5.092	E 140.447	143,377 147,796	178,207 182,391
December		(b)	1,943	R 5,569	R 7,512	128,493	E 7,496	E 135,989	R 143,501	R 182,976
2000 January	38,166	(b)	1,938	5,168	7,106	122,472	RE 6,084	RE 128,556	R 135,662	R 173,828
February	39,708	(b)	1,933	4,768	6,701	127,858	RE 7,146	RE 135,004	^R 141,705	R 181,413
March	41,250	(b)	1,929	4,367	6,295	125,869	RE 7,722	RE 133,591	R 139,886	R 181,136
April	41,453	(b)	1,903	4,431	6,334	127,468	RE 9,521	RE 136,989	R 143,323	R 184,776
May	41,656 41,858	(b)	1,871	4,495 4,550	6,366	125,957	^{RE} 10,557 ^{RE} 11.218	^{RE} 136,514 ^{RE} 129,812	R 142,880	R 184,536
June July	41,858 35,732	(b)	1,839 1,755	4,559 4,601	6,398 6,356	118,594 110,031	RE 11,218 RE 10,592	RE 129,812	^R 136,210 ^R 126,979	^R 178,068 ^R 162,711
August	35,732 35,606	(b)	1,755	4,642	6,313	104,838	RE 10,745	RE 115,583	R 121,896	R 157,502
September	35,479	(b)	1,587	4,683	6,271	101,395	RE 11,199	RE 112,594	R 118,864	R 154,343
October	F 35,191	(b)	^F 1,645	F 4,492	^F 6,137	102,836	RE 11,861	RE 114,697	R 120,834	R 156,025
November	F 34,903	(b)	F 1,626	F 4,659	F 6,285	100,654	RE 12,177	RE 112,831	R 119,116	R 154,019
December	F 34,204	(b)	F 2,034	F 5,733	F 7,767	88,841	E 11,919	E 100,760	108,527	142,731

 ^a Nonutility wholesale producers of electricity, and nonutility cogeneration plants that are not included in the industrial or commercial sectors.
 ^b Beginning in 1980, the Energy Information Administration ceased collecting data on residential and commercial coal stocks.
 ^c Beginning in 1998, includes coal stocks at "Other Power Producers."
 R=Revised. E=Estimate. F=Forecast.
 Notes: Stocks are at end of period. For sector-specific reporting and

estimating information, see Note 3 at end of section. Data through 1997 are final. Subsequent data are preliminary. Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District

Sources: See end of section for sources. Forecast values are derived from EIA's Short-Term Integrated Forecasting System. See Note 4 at end of section.

Coal Notes

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. This 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.

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 one-third of the quarterly values shown in the then current issue of the publication, regularly released in February, May, October, and November. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.

Residential and Commercial—Prior to 1980, monthly consumption estimates for the residential and commercial sector were derived by using reported data to

modify baseline figures developed by the Bureau of Mines. From 1980-1987, monthly 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 on Form EIA-2. During 1981 and 1982, the estimates were also modified to reflect air temperature degree-days. Quarterly consumption data were taken directly from reported data and were defined as distribution to the residential and commercial sector as reported by coal producers and distributors on Form EIA-6. Beginning in January 1988, monthly residential and commercial consumption estimates are derived from reported quarterly data by using monthly national average population weighted heating/cooling degree-days obtained from the National Oceanic and Atmospheric Administration. The monthly ratios are the monthly national sum of heating and cooling degree-days as a proportion of the quarterly national sum. Quarterly consumption data are taken directly from reported data.

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 monthly-to-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: foods, Standard Industrial

Classification (SIC) 20; paper and products, SIC 26; chemicals and products, SIC 28; petroleum products, SIC 29; clay, glass, and stone products, SIC 32; and primary metals, SIC 33. 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 Utilities—Monthly consumption data for electric utility plants are taken directly from reported data.

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 one-third of the quarterly values shown in the then current issue of the publication, regularly released in February, May, October, and November. The estimates are revised quarterly as collected data become available from the data sources. Sector-specific information follows.

Producers and Distributors—Quarterly stocks at producers and distributors are taken directly from reported data. Monthly data are estimated by using one-third of the current quarterly change to indicate the monthly change in stocks.

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 Utilities—Monthly stocks data at electric utility plants are taken directly from reported data.

Other Power Producers—Annual stocks data are taken directly from reported data. Monthly data are estimated by EIA based on industry analysis.

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 semi-annually (April and October) in EIA's *Short-Term Energy Outlook*, which is available from the National Energy Information Center (202-586-8800). Monthly updates are accessible on the world wide web at http://www.eia.doe.gov. Documentation for the model and instructions for downloading and operating it on a personal computer are provided.

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

Sources for Table 6.1

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, *Weekly Coal Production*.

Consumption—See Table 6.2.

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

Stocks—See Table 6.3.

Sources for Table 6.2

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 forward—EIA, Form EIA-3, "Quarterly Coal Consumption Report-Manufacturing Plants," and Form EIA-6, "Coal Distribution Report," quarterly.

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 Utilities

1973-September 1977—DOI, BOM, Minerals Yearbook and Minerals Industry Surveys.

October 1977 forward—EIA, Form EIA-759 (formerly Form FPC-4), "Monthly Power Plant Report."

Other Power Producers

Annual Data—EIA, Form EIA-860B (formerly Form EIA-867), "Annual Electric Generator Report - Nonutility."

Monthly Estimates—Through 1997, derived from the daily rate of each annual total. For 1998 forward, estimated by EIA from industry analysis.

Sources for Table 6.3

Producers and Distributors

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

1980 forward—Energy Information Administration (EIA), Form EIA-6, "Coal Distribution Report," quarterly.

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," and Form EIA-6, "Coal Distribution Report," quarterly.

Electric Utilities

See Table 7.9.

Other Power Producers

Annual Data—EIA, Form EIA-860B (formerly Form EIA-867), "Annual Electric Generator Report - Nonutility."

Section 7. Electricity

Overview. Electricity is produced by electric utilities, which are the traditional, regulated part of the industry, and nonutility power producers, which are expanding rapidly as the industry moves away from regulated entities.

In 2000, U.S. electricity net generation totaled 3.8 trillion kilowatthours. Electric utilities generated 3.0 trillion kilowatthours (79 percent of the total) and nonutility power producers generated 0.8 trillion kilowatthours (21 percent). The Nation imported 50 billion kilowatthours of electricity and exported 15 billion kilowatthours.

Net Generation. In December 2000, net generation of electricity totaled 338 billion kilowatthours, 7 percent more than in December 1999. At utilities, net generation was 255 billion kilowatthours, down 2 percent, while at nonutility power plants, net generation was 84 billion kilowatthours, up 48 percent, compared to 1 year earlier.

At utilities in December 2000, fossil fuels (primarily coal) accounted for 70 percent of net generation, nuclear 23 percent, and renewable resources 7 percent. At nonutility power plants, fossil fuels (primarily natural gas) accounted for 78 percent of net generation, nuclear 10 percent; and renewable resources 11 percent.

Electric Utility Retail Sales. December 2000 total utility sales of electricity to end-users were forecast at 289 billion kilowatthours, 7 percent more than in December 1999. December 2000 electricity sales to residential consumers were forecast at 107 billion kilowatthours (37 percent of the month's total), commercial users 84 billion kilowatthours (29 percent),

industrial consumers 89 billion kilowatthours of electricity (31 percent), and other users 9 billion kilowatthours (3 percent).

Consumption of Fossil Fuels. In December 2000, 93 million short tons of coal were consumed to generate electricity, 10 percent more than in December 1999. Of the total, 75 million short tons (slightly more than a year earlier) were consumed at electric utilities and 18 million short tons (97 percent more than a year earlier) were consumed by nonutility power producers.

In December 2000, 458 billion cubic feet of natural gas was consumed to generate electricity, 32 percent more than in December 1999. Of the total, 186 billion cubic feet (6 percent more than a year earlier) was consumed by electric utilities and 272 billion cubic feet (59 percent more than a year earlier) was consumed by nonutility power plants.

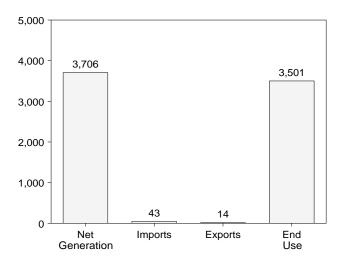
Stocks of Coal and Petroleum. At the end of December 2000, 103 million short tons of coal were held in storage for electricity generation, 28 percent less than in December 1999. Of the total, 89 million short tons (31 percent less than a year earlier) were held at electric utilities and 14 million short tons (1 percent more than a year earlier) were held by nonutility power plants.

At the end of December 2000, 42 million barrels of petroleum liquids (i.e., heavy and light oil) were held in storage for electricity generation, 21 percent less than in December 1999. Of total liquids, 42 million barrels were held at electric utilities and 12 million barrels were held by nonutility power plants at the end of December 2000.

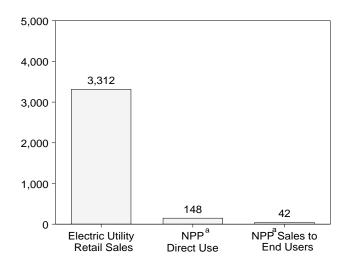
Figure 7.1 Electricity Overview

(Billion Kilowatthours)

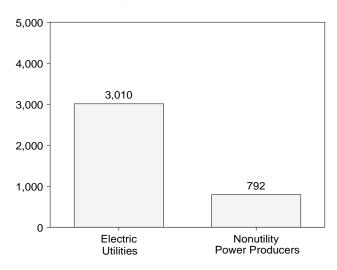
Overview, 1999



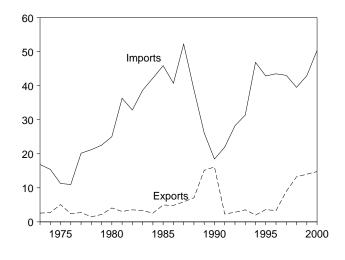
End Use, 1999



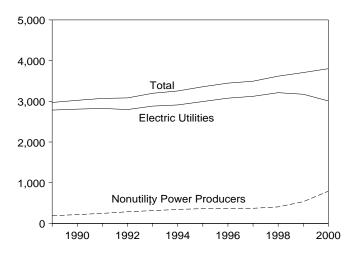
Net Generation, 2000



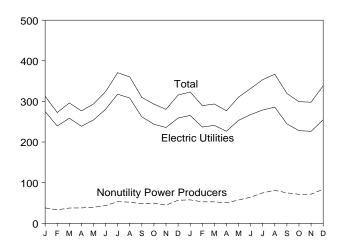
Trade, 1973-2000



Net Generation, 1989-2000



Net Generation, 1999 and 2000



^aNonutility power producers. Note: Because vertical scales differ, graphs should not be compared. Source: Table 7.1.

Table 7.1 Electricity Overview

(Billion Kilowatthours)

	ı	Net Generation	a					End Us	se	
		Nonutility				Losses		Nonutility Po	wer Producers	
	Electric Utilities	Power Producers	Total	Importsb	Exportsb	and Unaccounted for ^c	Electric Utility Retail Sales	Direct Use ^e	Sales to End Users	Totald
1973 Total	1,861	NA	1,861	17	3	NA	1,713	NA	NA	NA
1974 Total		NA	1,867	15	3	NA	1,706	NA	NA	NA
1975 Total	1,918	NA	1,918	11	5	NA	1,747	NA	NA	NA
1976 Total		NA	2,038	11	2	NA	1,855	NA	NA	NA
1977 Total		NA	2,124	20	3	NA	1,948	NA	NA	NA
1978 Total		NA	2,206	21	1	NA	2,018	NA	NA	NA
1979 Total 1980 Total	2,247 2,286	NA NA	2,247 2,286	23 25	2 4	NA NA	2,071 2,094	NA NA	NA NA	NA NA
1981 Total		NA NA	2,295	36	3	NA NA	2,147	NA NA	NA NA	NA NA
1982 Total		NA	2,241	33	4	NA	2,086	NA	NA NA	NA
1983 Total	2,310	NA	2,310	39	3	NA	2,151	NA	NA	NA
1984 Total	2,416	NA	2,416	42	3	NA	2,286	NA	NA	NA
1985 Total	2,470	NA	2,470	46	5	NA	2,324	NA	NA	NA
1986 Total	2,487	NA	2,487	41	5	NA	2,369	NA	NA	NA
1987 Total	2,572	NA	2,572	52 39	6 7	NA	2,457	NA	NA NA	NA
1988 Total 1989 Total	2,704 2,784	NA ^f 188	2,704 2,972	26	15	NA 236	2,578 2,647	NA ^f 83	^f 18	NA 2,747
1990 Total	2,808	^f 217	3,025	18	16	210	2,713	^f 84	f20	2,817
1991 Total		^f 246	3,071	22	2	218	2,762	f100	f <u>1</u> 1	2,873
1992 Total	2,797	286	3,083	28	3	224	2,763	111	11	2,885
1993 Total	2,883	314	3,197	31	4	236	2,861	111	16	2,988
1994 Total	2,911	343	3,254	47	2	223	2,935	123	18	3,075
1995 Total 1996 Total		363 370	3,358 3,447	43 43	4 3	235 240	3,013 3,098	134 135	16 14	3,162 3,247
1997 Total		372	3,494	43	9	240	3,140	131	18	3,289
1009 January	265	NIA	NΙΔ	3	1	NIA	260	NIA	NIA	NΙΔ
1998 January February		NA NA	NA NA	2	1	NA NA	269 247	NA NA	NA NA	NA NA
March		NA	NA	3	i	NA	252	NA	NA	NA
April		NA	NA	3	i	NA	238	NA	NA	NA
May		NA	NA	3	1	NA	252	NA	NA	NA
June	291	NA	NA	3	1	NA	282	NA	NA	NA
July		NA	NA	5	1	NA	311	NA	NA	NA
August		NA NA	NA NA	5 4	1 1	NA NA	317 295	NA NA	NA NA	NA NA
September October		NA NA	NA	3	2	NA NA	264	NA NA	NA NA	NA
November		NA	NA	2	1	NA	248	NA	NA	NA
December		NA	NA	3	1	NA	265	NA	NA	NA
Total	3,212	406	3,618	40	13	245	3,240	134	26	3,400
1999 January	275	38	313	2	2	NA	284	NA	NA	NA
February		_ 33	273	2	1	NA	251	NA	NA	NA
March		R 37	R 296	3	2	NA	261	NA	NA	NA
April		38 R 39	277 294	4 4	1 1	NA NA	247 254	NA NA	NA NA	NA NA
May June		43	324	4	i	NA	285	NA	NA	NA
July		53	371	4	1	NA	324	NA	NA	NA
August		R 52	R 360	4	1	NA	323	NA	NA	NA
September		48	ຼ 310	5	1	NA	295	NA	NA	NA
October	244	50	R 293	5	1	NA	265	NA	NA	NA
November December		45 ^R 57	^R 280 ^R 316	5 4	1 1	NA NA	253 271	NA NA	NA NA	NA NA
Total		R 533	R 3,706	43	14	NA R 234	3,312	NA 148	NA 42	NA R 3,501
2000 January		R 58	R 323	4	1	NA	R 284	NA	NA	NA
February		R 53	R 290	4	(s)	NA	R 268	NA	NA	NA
March	241	R 53	R 294	4	ì	NA	R 259	NA	NA	NA
April		R 50	R 277	4	1	NA	R 245	NA	NA	NA
May		R 57	R 311	4	1	NA	R 265 R 298	NA	NA NA	NA
June July		R 64 R 75	R 332 R 354	5 5	2 2	NA NA	R 316	NA NA	NA NA	NA NA
August		R 81	R 367	7	1	NA NA	R 330	NA NA	NA NA	NA NA
September	245	R 75	R 320	5	i	NA	R 303	NA	NA	NA
October	228	R 71	R 299	3	_ 1	NA	R 273	NA	NA	NA
	226	R 72	R 298	R 4	R 1	NA	^R 264	NA	NA	NA
November							E 000			
November December Total	255	84 792	338 3,802	3 50	3 15	NA NA	F 289 F 3,395	NA NA	NA NA	NA NA

^a Gross output of electricity (measured at the generator terminals) minus power

megawatt or more. Estimates of the 1-to-5 megawatt range for 1989-1991 were derived from historical data. The estimation did not include retirements that occurred prior to 1992 and included only the capacity of facilities that came on line before 1992.

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

Name of a variable. Per ofecasi. (s)=Less than 300 thousand kilowatthours.

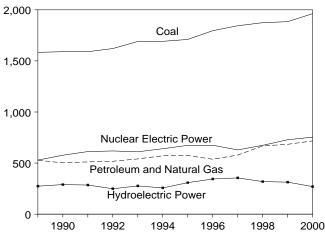
Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 states and the District of Columbia. Sources: Net Generation: Tables 7.2-7.4. Imports and Exports: See end of section. Losses and Unaccounted for: Calculated. End Use: Table 7.5.

a Gross output of electricity (measured at the generator terminals) minus power plant use.
b Electricity transmitted across U.S. borders with Canada and Mexico.
c Energy losses that occur between the point of generation and delivery to the customer, and data collection frame differences and nonsampling error. See Note 11 at end of Section 2 for discussion on electrical system energy losses.
d Beginning in 1999, includes sales to ultimate consumers by power marketers. See box on Table 7.5 for additional information.
F Facility use of onsite net electricity generation.
Data for 1989-1991 were collected for facilities with capacities of 5 megawatts or more. In 1992, the threshold was lowered to include facilities with capacities of 1

Electricity Net Generation Figure 7.2

(Billion Kilowatthours, Except as Noted)

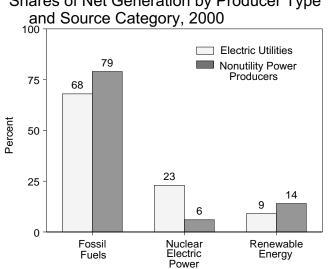
By Major Source, 1989-2000



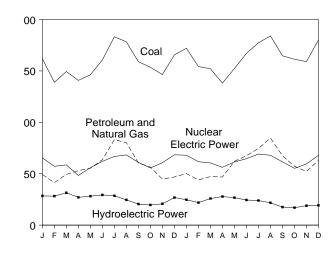
Electric Utility Sources, 2000

Coal 56% Hydroelectric Power 8% Other^a Natural Gas 3% 10% Nuclear 23%

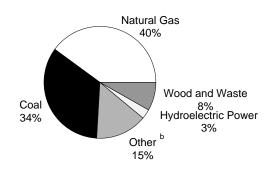
Shares of Net Generation by Producer Type



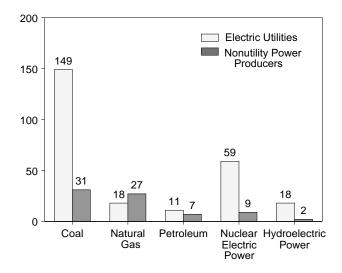
By Major Source, 1999 and 2000



Nonutility Power Producer Sources, 2000



By Selected Source, December 2000



Source: Table 7.2-7.4.

^aPetroleum, geothermal, wood, waste, wind, and solar. ^bPetroleum, other gas, geothermal, wind, solar, hydrogen, sulfur, batteries, chemicals, and purchased steam. Note: Because vertical scales differ, graphs should not be compared.

Table 7.2 Electricity Net Generation

(Million Kilowatthours)

			-,										
	ı	Fossil Fuels						Re	newable	Energy			
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gas ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power	Geo- thermal	Wood ^f	Waste ⁹	Wind	Solar ^h	Total ⁱ
1989 Total	1,583,824 1,590,305 1,589,940 1,621,085 1,690,010 1,691,690 1,710,176 1,795,710 1,844,104 1,873,946	163,861 124,048 118,957 99,424 112,353 105,503 75,260 81,683 93,025 126,932	363,942 378,342 392,590 418,301 428,417 465,928 498,541 455,835 485,440 540,638	(j) (j) (j) (j) (j) 12,110 13,506 14,169 11,175 8,514	529,402 576,974 612,642 618,841 610,367 640,492 673,402 674,729 628,644 673,702	(k) -3,508 -4,541 -4,177 -4,036 -3,378 -2,725 -3,088 -4,041 -4,441	273,665 293,013 289,506 253,088 280,494 260,166 311,004 347,448 358,946 323,330	14,879 15,788 16,040 16,422 17,025 16,756 14,359 15,126 14,569 14,726	27,728 30,413 33,165 35,580 36,788 37,804 36,396 36,779 34,231 31,789	9,958 13,163 15,750 17,777 18,520 19,084 20,279 20,672 20,585 21,286	2,280 3,035 3,019 2,888 3,022 3,447 3,164 3,376 3,222 2,988	623 646 759 727 874 803 803 879 870 856	2,971,863 3,024,867 3,071,329 3,083,367 3,196,924 3,253,799 3,357,837 3,446,994 3,494,222 3,617,873
1999 January February March April May June July August September October November December Total	R 161,938 R 138,946 R 149,386 R 140,810 R 140,810 R 160,691 R 183,271 R 178,334 R 158,966 R 155,6618 R 146,466 R 165,664	R 13,247 R 10,287 R 11,264 R 9,916 R 10,509 R 11,641 R 15,340 R 12,953 R 8,769 R 7,267 R 5,819 R 6,548	RE 35,998 RE 31,040 RE 38,100 RE 43,083 RE 44,815 RE 51,957 RE 67,828 RE 67,309 RE 51,732 RE 51,732 RE 38,965 RE 40,298 RE 560,270	RE 692 RE 609 RE 674 RE 690 RE 704 RE 784 RE 1,003 RE 1,001 RE 915 RE 953 RE 822 RE 863 RE 9,709	65,399 57,235 58,578 48,315 55,809 62,025 R 66,804 R 68,279 R 61,029 R 61,029 R 60,749 R 68,382 R 728,198	R -554 -357 R -380 R -464 R -676 R -571 R -606 R -761 R -424 R -472 R -449 R -393	R 28,954 R 28,552 R 31,846 R 27,479 28,882 R 29,957 R 29,131 R 25,341 R 20,900 R 21,176 R 27,190	R 1,204 R 1,060 R 1,176 R 1,119 1,264 R 1,470 R 1,599 R 1,658 R 1,587 R 1,647 R 1,519 R 1,511 16,813	R 3,442 R 2,803 R 3,009 R 2,959 R 3,002 R 2,930 R 3,355 R 3,257 R 3,787 R 3,136 R 2,922 R 2,997	R 2,320 R 2,170 R 2,239 R 2,345 R 2,356 R 2,310 R 2,319 R 2,302 R 2,191 R 2,031 R 2,308 R 2,308	R 207 R 226 R 296 R 392 R 586 R 581 R 568 R 487 R 361 294 R 225 R 266 4,488	NA NA NA NA NA NA NA NA NA NA	R 312,855 R 272,589 R 296,214 R 276,690 R 293,579 R 323,916 R 370,754 R 360,303 R 309,928 R 293,353 R 280,452 R 3,706,286
2000 January February March April May June July August September October November December Total	R 172,035 R 154,251 R 152,145 R 138,141 R 152,320 R 167,097 R 177,343 R 184,086 R 164,733 R 161,352 R 159,074 180,114 1,962,689	R 8,574 R 5,874 R 4,981 R 4,939 R 7,858 R 10,264 R 9,787 R 12,414 R 10,444 R 9,207 R 8,402 18,263 111,007	RE 41,583 RE 38,078 RE 42,247 RE 41,865 RE 54,226 RE 57,240 RE 64,792 RE 72,286 RE 72,286 RE 48,101 RE 43,779 E 44,728 E 605,923	RE 864 RE 808 RE 813 RE 771 RE 925 RE 1,034 RE 1,097 RE 1,252 RE 1,094 RE 1,012 RE 976 E 985	68,013 61,688 60,494 56,252 61,479 64,595 69,171 67,954 61,550 55,240 59,579 67,881 753,896	-523 -446 -572 -376 -484 -554 -304 -379 -626 -402 -355 -547	R 25,234 R 22,351 R 26,424 R 28,152 R 27,200 R 24,988 R 24,217 R 22,133 R 18,168 R 17,368 R 19,241 19,780 275,257	R 1,214 R 1,065 R 1,033 R 1,122 R 1,126 R 1,137 R 1,211 R 1,242 R 1,201 R 1,237 R 1,243 1,295 14,125	R 3,477 R 3,342 R 3,424 R 3,335 R 3,120 R 3,343 R 3,603 R 3,389 R 3,379 R 3,465 R 3,356 3,394 40,628	R 2,167 R 2,166 R 2,226 R 2,177 R 2,270 R 2,216 R 2,238 R 2,284 R 2,157 R 2,239 R 2,198 2,212 26,549	R 431 R 376 R 418 R 541 R 473 R 376 R 358 R 331 R 488 R 468 318 4,960	NA N	R 323,092 R 289,578 R 293,672 R 276,967 R 310,569 R 331,813 R 353,590 R 367,070 R 319,548 R 299,346 R 297,997 338,448 3,801,687

^a Coal, fine coal, anthracite culm, bituminous gob, lignite waste, tar coal, waste

waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw.

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

Sources: Tables 7.3 and 7.4.

This table represents the entire U.S. electric power sector. See Table 7.3 for electric utilities only. See Table 7.4 for nonutility power producers only.

coal, and coke breeze.

b Fuel oil nos. 1, 2, 4, 5, and 6, crude oil, petroleum coke, kerosene, liquid butane, liquid propane, methanol, liquid byproducts, oil waste, sludge oil, and tar oil.

C Includes supplemental gaseous fuels, waste heat, and waste gas.

d Butane gas, propane gas, blast furnace gas, coke oven gas, refinery gas, and

process gas.

e Pumped storage facility production minus energy used for pumping.

f Wood, wood waste, black liquor, red liquor, spent sulfite liquor, pitch, wood sludge, peat, railroad ties, and utility poles.

⁹ Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile

h Solar thermal and photovoltaic energy.

i Data prior to 1999 include hydrogen, sulfur, batteries, chemicals, and purchased steam, which are not separately displayed on this table. Data for 1999 forward exclude these components.

Included in natural gas.

k Included in conventional hydroelectric power.

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

Table 7.3 Electricity Net Generation at Electric Utilities

(Million Kilowatthours)

	F	ossil Fuels					ı	Renewable	Energy			
	Coal	Petro- leum ^a	Natural Gas ^b	Nuclear Electric Power	Hydro- electric Pumped Storage ^c	Conven- tional Hydro- electric Power	Geo- thermal	Wood ^d	Waste ^e	Wind	Solar ^f	Total
1973 Total	847,651	314,343	340,858	83,479	(⁹)	272,083	1,966	130	198	0	0	1,860,710
1974 Total	828,433	300,931	320,065	113,976	(g)	301,032	2,453	68	182	0	0	1,867,140
1975 Total	852,786	289,095	299,778	172,505	(g)	300,047	3,246	18	174	0	0	1,917,649
1976 Total 1977 Total	944,391 985,219	319,988 358,179	294,624 305,505	191,104 250,883	(⁹)	283,707 220,475	3,616 3,582	84 308	182 173	0	0	2,037,696 2,124,323
1978 Total	975,742	365,060	305,303	276,403	(g)	280,419	2,978	197	140	ő	Ö	2,206,331
1979 Total	1,075,037	303,525	329,485	255,155	(g)	279,783	3,889	300	198	0	0	2,247,372
1980 Total	1,161,562	245,994	346,240	251,116	(g)	276,021	5,073	275	158	0	0	2,286,439
1981 Total	1,203,203 1,192,004	206,421 146,797	345,777 305,260	272,674 282,773	(9) (9)	260,684 309,213	5,686 4,843	245 196	123 125	0	0	2,294,812 2,241,211
1983 Total	1,259,424	144,499	274,098	293,677	(9)	332,130	6,075	216	163	3	Ö	2,310,285
1984 Total	1,341,681	119,808	297,394	327,634	(g)	321,150	7,741	461	425	12	Ö	2,416,304
1985 Total	1,402,128	100,202	291,946	383,691	(g)	281,149	9,325	743	640	16	0	2,469,841
1986 Total	1,385,831	136,585	248,508	414,038	(⁹)	290,844	10,308	492	685	18	0	2,487,310
1987 Total 1988 Total	1,463,781 1,540,653	118,493 148,900	272,621 252,801	455,270 526,973	(g)	249,695 222,940	10,775 10,300	783 936	694 738	14 10	0	2,572,127 2,704,250
989 Total	1,553,661	158,318	266,598	529,355	(g)	265,063	9,342	972	993	(s)	3	2,784,304
990 Total	1,559,606	117,017	264,089	576,862	-3,508	283,434	8,581	810	1,257	(s)	2	2,808,151
991 Total	1,551,167	111,463	264,172	612,565	-4,541	280,061	8,087	732	1,314	(s)	3	2,825,023
992 Total	1,575,895 1,639,151	88,916 99,539	263,872 258,915	618,776 610,291	-4,177 -4,036	243,736 269,098	8,104 7,571	816 890	1,276 1,100	(s) (s)	3 4	2,797,219 2,882,525
994 Total	1,635,493	91,039	291,115	640,440	-3,378	247,071	6,941	765	1,224	(s)	3	2,910,712
995 Total	1,652,914	60,844	307,306	673,402	-2,725	296,378	4,745	633	1,016	11	4	2,994,529
996 Total	1,737,453	67,346	262,730	674,729	-3,088	331,058	5,234	788	1,179	10	3	3,077,442
997 Total	1,787,806	77,753	283,625	628,644	-4,041	341,273	5,469	739	1,244	6	3	3,122,522
998 January	156,658	6,390	16,352	57,889	-44	27,527	491	78	93	(s)	(s)	265,435
February	136,465	5,686	12,879	50,999	125	28,652	390	50	94	(s)	(s)	235,340
March April	144,487 132,282	8,682 6,817	18,787 18,479	53,711 47,503	-15 -437	30,268 27,326	487 320	58 58	111 109	(s) (s)	(s) (s)	256,575 232,457
May	145,357	9,534	27,238	51,496	-727	31,708	288	62	120	(s)	(s)	265,077
June	157,403	12,140	35,055	55,732	-675	30,892	354	32	97	(s)	(s)	291,029
July	172,895	13,611	42,186	61,499	-666	27,375	448	61	111	1	(s)	317,521
August September	172,348 155,068	13,042 10,539	42,837 36,120	60,369 57,206	-703 -272	23,985 19,893	483 474	64 63	111 107	(s) (s)	(s) (s)	312,538 279,198
October	144,436	7,339	23,927	57,429	-501	18,038	523	70	118	(s)	(s)	251,380
November	137,915	7,401	17,187	57,372	-528	19,123	466	55	97	(s)	(s)	239,089
December	152,166	8,977	18,175	62,497	4	24,058	451	_68	136	(s)	(s)	266,532
Total	1,807,480	110,158	309,222	673,702	-4,441	308,844	5,176	719	1,305	3	3	3,212,171
999 January	R 155,033	R 9,746	R 17,200	65,399	-548	27,679	414	70	99	2	(s)	R 275,093
February	R 133,065 R 141,907	7,700 R 8,238	R 14,482 R 19,785	57,235 58,578	-356 -377	26,899 30,061	352 397	49 39	105 107	2	(s)	239,532 R 258,737
March April	133,566	6,947	R 24,328	48,315	-462	25,624	429	57	117	2	(s) (s)	R 238,923
May	R 138,729	R 7,249	25,684	55,809	-672	27,224	14	75	124	1	(s)	R 254,238
June	^R 151,546	R 7,956	30,659	62,025	-558	28,658	13	52	119	1	(s)	R 280,471
July	R 171,686	R 11,563	40,575	66,519	-595	27,828	13	66	112	2	(s)	R 317,770
August September	R 167,063 R 148,884	9,727 ^R 6,113	R 40,102 26,865	67,842 60,666	-746 -407	24,153 19,623	13 13	63 56	105 107	2 2	(s) (s)	R 308,324 R 261,922
October	R 141,960	R 5,061	23,250	55,099	-454	18,696	14	46	107	2	(s)	R 243,781
November	^R 135,784	3,492	16,610	60,285	-434	19,876	13	61	106	2	(s)	R 235,794
December Total	R 148,455 1.767.679	R 3,139 86.929	16,841 296.381	67,265 725.036	-373 -5.982	23,595 299,914	14 1.698	50 684	102 1.307	3 23	(s) 3	R 259,090 3.173.674
	, - ,-	,		,	-,	,-	,		.,		·	-, -,-
1000 January	153,494 137 164	4,748 3 145	18,098	66,214	-504 -430	23,265	14 13	44 50	105	2	(s)	265,478
February March	137,164 135,030	3,145 2,971	16,122 20,137	60,053 58,704	-430 -559	20,637 24,499	13 13	59 61	107 121	2	(s) (s)	236,873 240,979
April	122,082	3,110	20,901	54,514	-376	26,145	13	58	122	1	(s)	226,572
May	133,772	5,761	29,090	59,864	-465	25,165	13	55	131	2	(s)	253,389
June	145,297	7,426	29,131	62,973	-531	23,103	13	48	107	2	(s)	267,569
July August	150,244 156,166	7,001 8,734	34,967 38,265	64,538 62,905	-286 -358	22,129 20,166	13 13	59 61	112 107	2	(s) (s)	278,779 286,061
September	139,476	6,734 7,537	27,261	54,521	-608	16,344	11	55	107	1	(s) (s)	244,702
October	136,934	5,785	20,592	49,097	-386	15,787	12	67	110	2	(s)	228,001
November	133,905	4,918	17,243	52,842	-340	17,589	12	65	101	4	(s)	226,339
December	148,697	11,185	17,966	59,209	-491	18,070	13	67	54	2	(s)	254,772
Total	1,692,262	72,321	289,773	705,436	-5,333	252,898	151	700	1,280	23	3	3,009,514

^a Fuel oil nos. 1, 2, 4, 5, and 6, crude oil, kerosene, and petroleum coke.

Sources: See end of section.

a Fuel oil nos. 1, 2, 4, 5, and 5, crode oil, Norosci, 6, and public line line line line supplemental gaseous fuels.

C Pumped storage facility production minus energy used for pumping.

d Wood, wood waste, wood liquors, pitch, wood sludge, peat, railroad ties, and

utility poles.

^e Municipal solid waste, landfill gas, methane, digester gas, waste alcohol, sludge waste, solid byproducts, and tires.

^f Solar thermal and photovoltaic energy.

[|] Solar thermal and priorovoltal energy.
| Included in conventional hydroelectric power.
| R=Revised. NA=Not available. (s)=Less than 500 thousand kilowatthours.
| Notes: Totals may not equal sum of components due to independent runding. | Geographic coverage is the 50 states and the District of Columbia. rounding.

Table 7.4 Electricity Net Generation at Nonutility Power Producers

(Million Kilowatthours)

	F	ossil Fuels						Re	newable	Energy			
	Coal ^a	Petro- leum ^b	Natural Gas ^c	Other Gas ^d	Nuclear Electric Power	Hydro- electric Pumped Storage ^e	Conven- tional Hydro- electric Power	Geo- thermal	Wood ^f	Waste ⁹	Wind	Solar ^h	Total ⁱ
1989 Total ^j	30,163	5,543	97,343	(^k)	47	0	8,602	5,537	26,756	8,965	2,279	621	187,558
1990 Total	30,699	7,031	114,253	(k)	113	Ö	9,580	7,207	29,603	11,906	3,035	644	216,716
1991 Total	38,773	7,494	128,419	(k)	77	Ö	9,446	7,953	32,433	14,435	3,019	756	246,306
1992 Total	45.189	10,508	154,429	(k)	65	Ö	9,352	8,318	34,764	16,500	2,887	724	286.148
1993 Total	50.859	12,814	169,502	(k)	76	Ŏ	11,396	9,454	35,898	17,420	3,022	870	314,399
1994 Total	56,197	14,464	174,813	12,110	52	Ŏ	13,095	9,816	37,039	17,860	3,447	799	343,087
1995 Total	57,261	14,416	191,235	13,506	0	Ö	14,626	9,614	35,763	19,263	3,153	799	363,308
1996 Total	58,257	14,337	193,106	14,169	ŏ	ŏ	16,390	9,892	35,991	19,493	3,366	876	369,552
1997 Total	56,298	15,272	201,816	11,175	Ö	Ö	17,673	9,100	33,492	19,341	3,216	866	371,700
1998 Total	66,466	16,775	231,415	8,514	0	Ō	14,486	9,550	31,070	19,981	2,985	854	405,702
1999 January	^R 6,905	^R 3,501	RE 18,798	^{RE} 692	0	R -6	^R 1,275	^R 789	R 3,372	R 2,221	R 205	NA	R 37,761
February	R 5,882	R 2,588	RE 16,558	RE 609	0	-1	R 1,653	R 708	R 2,754	R 2,066	R 224	NA	R 33,057
March	R 7,479	R 3,026	RE 18,314	RE 674	0	R -3	R 1,785	R 779	R 2,970	R 2,133	R 294	NA	R 37,477
April	^R 7.244	R 2,969	RE 18,755	RE 690	0	R -2	R 1.855	R 689	R 2.902	R 2.229	R 390	NA	R 37,767
May	^R 7,514	R 3,260	RE 19,131	RE 704	0	R -4	R 1.658	1,250	R 2,927	R 2,232	R 584	NA	R 39,341
June	^R 9,145	R 3,685	RE 21,298	RE 784	0	^R -12	R 1,299	R 1,458	R 2,878	R 2,192	R 579	NA	R 43,445
July	R 11,585	R 3.778	RE 27.253	RE 1,003	R 285	R -11	R 1,304	R 1,587	R 3.289	R 2.208	R 566	NA	R 52.985
August	R 11,271	R 3.226	RE 27,207	RE 1,001	R 438	R -14	R 1,188	R 1,645	R 3,194	R 2.197	R 485	NA	R 51.979
September	R 10,082	R 2.656	RE 24.867	RE 915	R 363	R -17	R 1,278	R 1.574	R 3.731	R 2.084	R 359	NA	R 48,006
October	R 11,658	R 2,206	RE 25,895	RE 953	R 494	^R -18	R 1,378	R 1.633	R 3.090	R 1.924	292	NA	R 49.572
November	R 10,683	R 2,327	RE 22,356	RE 822	R 465	R -16	R 1,301	R 1,506	R 2,861	R 2,093	R 223	NA	R 44,658
December	R 17,208	R 3,409	RE 23,458	RE 863	R 1,118	R -20	R 3,596	R 1,497	R 2.948	R 2,206	263	NA	R 56,562
Total	R 116,655		RE 263,889	RE 9,709	R 3,162	R -124	R 19,570	15,114	R 36,914		4,465	NA	R 532,612
2000 January	R 18,541	R 3,826	RE 23,485	RE 864	1,799	-19	R 1,969	R 1,200	R 3,433	R 2,062	R 429	NA	^R 57,614
February	^R 17,087	R 2,729	^{RE} 21,956	RE 808	1,635	-16	^R 1,714	R 1,052	R 3,284	R 2,058	^R 375	NA	^R 52,705
March	^R 17,114	R 2,010	RE 22,110	RE 813	1,790	-13	^R 1,925	R 1,020	R 3,363	R 2,105	^R 417	NA	^R 52,693
April	R 16,059	^R 1,828	RE 20,964	RE 771	1,737	(s)	R 2,007	R 1,109	R 3,277	R 2,055	^R 540	NA	^R 50,394
May	R 18,547	R 2,097	RE 25,136	RE 925	1,615	-19	R 2,036	R 1,113	R 3,065	R 2,139	R 472	NA	^R 57,180
June	R 21,799	R 2,838	RE 28,108	RE 1,034	1,622	-23	R 1,885	R 1,124	R 3,295	R 2,109	R 374	NA	R 64,244
July	R 27,099	R 2,786	RE 29,825	RE 1,097	4,633	-18	R 2,089	R 1,198	R 3,544	R 2,126	R 356	NA	^R 74,810
August	^R 27,919	R 3,679	RE 34,021	RE 1,252	5,049	-21	R 1,968	R 1,229	R 3,328	R 2,177	R 330	NA	R 81,009
September	R 25,257	R 2,908	RE 29,737	RE 1,094	7,028	-18	R 1,823	R 1,190	R 3,324	R 2,055	R 379	NA	^R 74,845
October	R 24,418	R 3,422	RE 27,509	RE 1,012	6,143	-16	R 1,580	R 1,225	R 3,398	R 2,129	^R 486	NA	^R 71,345
November	^R 25,169	^R 3,484	RE 26,536	RE 976	6,737	-15	R 1,652	R 1,231	R 3,291	R 2,097	^R 464	NA	^R 71,658
December	31,417	7,078	_E 26,762	_ E 985	8,672	-56	1,710	1,282	3,327	2,158	316	NA	83,676
Total	270,427	38,685	E 316,150	E 11,631	48,460	-234	22,359	13,974	39,927	25,270	4,937	NA	792,173

^a Coal, fine coal, anthracite culm, bituminous gob, lignite waste, tar coal, waste coal, and coke breeze.

R=Revised. NA=Not available. E=Estimate. (s)=Less than +0.5 million kilowatthours and greater than -0.5 million kilowatthours.

Notes: Due to restructuring of the electric power sector, the sale of generation assets is resulting in reclassification of plants from electric utility to nonutility 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: EIA, Form EIA-860B, "Annual Electric Generator Report-Nonutility" 1999 forward: EIA, Form EIA-900, "Monthly Nonutility Power Report."

^b Fuel oil nos. 1, 2, 4, 5, and 6, crude oil, petroleum coke, kerosene, liquid butane, liquid propane, methanol, liquid byproducts, oil waste, sludge oil, and tar oil.

c Includes waste heat and waste gas.

d Butane gas, propane gas, blast furnace gas, coke oven gas, refinery gas, and

rocess gas.

e Pumped storage facility production minus energy used for pumping.

f Wood, wood waste, black liquor, red liquor, spent sulfite liquor, pitch, wood sludge, peat, railroad ties, and utility poles.

⁹ 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.

h Solar thermal and photovoltaic energy.

Data prior to 1999 include hydrogen, sulfur, batteries, chemicals, and purchased steam, which are not separately displayed on this table. Data for 1999 forward exclude these components.

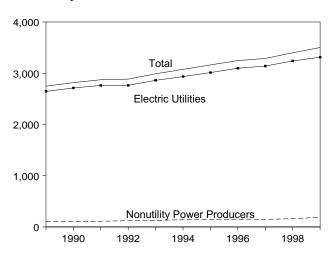
j Data for 1989-1991 were collected for facilities with capacities of 5 megawatts or more. In 1992, the threshold was lowered to include facilities with capacities of 1 megawatt or more. Estimates of the 1-to-5 megawatt range for 1989-1991 were derived from historical data. The estimation did not include retirements that occurred prior to 1992 and included only the capacity of facilities that came on line before 1992.

k Included in natural gas.

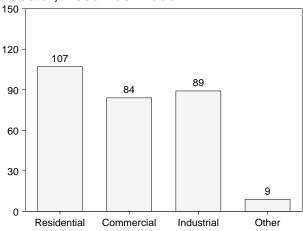
Figure 7.3 **Electricity End Use**

(Billion Kilowatthours)

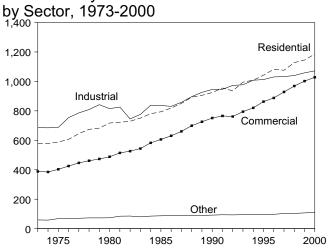
Electricity End Use Overview, 1989-1999



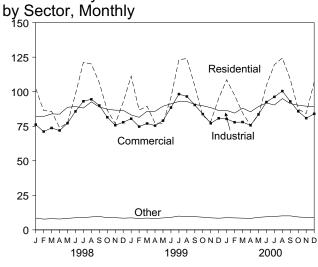
Electric Utility Retail Sales by Sector, December 2000



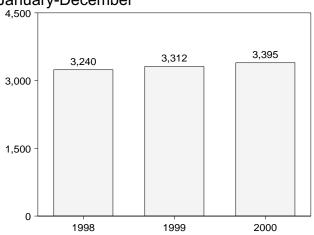
Electric Utility Retail Sales



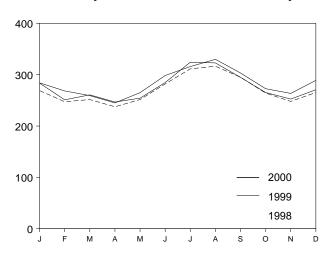
Electric Utility Retail Sales



Electric Utility Retail Sales Total, January-December



Electric Utility Retail Sales Total, Monthly



Note: Because vertical scales differ, graphs should not be compared. Source: Table 7.5.

Table 7.5 Electricity End Use

(Million Kilowatthours)

		Electr	ic Utility Retail S	ialesa		Nonutility Po	wer Producers	
	Residential	Commercial	Industrial	Other ^b	Total	Direct Use ^c	Sales to End Users	Totala
973 Total	579,231	388,266	686,085	59,326	1,712,909	NA	NA	NA
974 Total	578,184	384,826	684,875	58,039	1,705,924	NA NA	NA NA	NA
975 Total	588,140	403,049	687,680	68,222	1,747,091	NA NA	NA	NA
976 Total	606,452	425,094	754,069	69,631	1,855,246	NA NA	NA NA	NA NA
977 Total	645,239	446,514	786,037	70,571	1,948,361	NA NA	NA NA	NA NA
978 Total	674,466	461,163	809,078	73,215	2,017,922	NA NA	NA NA	NA NA
	682,819					NA NA	NA NA	NA NA
979 Total		473,307	841,903	73,070	2,071,099			
980 Total	717,495	488,155	815,067	73,732	2,094,449	NA	NA	NA
981 Total	722,265	514,338	825,743	84,756	2,147,103	NA	NA	NA
982 Total	729,520	526,397	744,949	85,575	2,086,441	NA	NA	NA
983 Total	750,948	543,788	775,999	80,219	2,150,955	NA	NA	NA
984 Total	780,092	582,621	837,836	85,248	2,285,796	NA	NA	NA
985 Total	793,934	605,989	836,772	87,279	2,323,974	NA	NA	NA
986 Total	819,088	630,520	830,531	88,615	2,368,753	NA	NA	NA
987 Total	850,410	660,433	858,233	88,196	2,457,272	NA	NA	NA
988 Total	892,866	699,100	896,498	89,598	2,578,062	NA	NA	NA
989 Total	905,525	725,861	925,659	89,765	2,646,809	d 82,742	^d 17,687	2,747,23
990 Total	924,019	751,027	945,522	91,988	2,712,555	d 84,367	d19,824	2,816,74
991 Total	955,417	765,664	946,583	94,339	2,762,003	d 99,623	d11,419	2,873,04
992 Total	935,939	761,271	972,714	93,442	2,763,365	110,988	10,786	2,885,140
993 Total	994.781	794,573	977,164	94,944	2,861,462	111,322	15,569	2,988,35
	, .							3.075.47
994 Total	1,008,482	820,269	1,007,981	97,830	2,934,563	123,283	17,626	
995 Total	1,042,501	862,685	1,012,693	95,407	3,013,287	133,609	15,548	3,162,443
996 Total	1,082,491	887,425	1,030,356	97,539	3,097,810	134,644	14,284	3,246,73
997 Total	1,075,767	928,440	1,032,653	102,901	3,139,761	130,836	18,147	3,288,74
998 January	102,339	76,163	81,978	8,546	269,026	NA	NA	NA
February	86,374	71,142	82,101	7,771	247,387	NA	NA	NA
March	85,784	73,732	83,934	8,152	251,602	NA	NA	NA
April	74,000	71,918	83,751	7,870	237,539	NA	NA	NA
May	77,317	77,229	88,744	8,317	251,607	NA	NA	NA
June	98,249	85,717	89,234	8,787	281,986	NA	NA	NA
July	121,271	93,083	88,199	8,896	311,449	NA	NA	NA
	120,066	94,493	92,650	9,373	316,581	NA NA	NA NA	NA NA
August						NA NA	NA NA	NA NA
September	106,446	90,010	88,893	9,742	295,091			
October	86,621	81,465	87,372	8,771	264,230	NA	NA	NA
November	76,823	75,729	86,625	8,831	248,008	NA	NA	NA
December	92,446	77,848	86,558	8,461	265,313	NA	NA	NA
Total	1,127,735	968,528	1,040,038	103,518	3,239,818	134,041	25,777	3,399,63
999 January	111,219	80,473	83,152	8,689	283,533	NA	NA	NA
February	86,705	74,720	81,448	8,277	251,150	NA	NA	NA
March	89,450	76,978	85,802	8,544	260,773	NA	NA	NA
April	77,285	75,453	85,814	8,236	246,788	NA	NA	NA
May	77,152	79,060	89,495	8,650	254,356	NA	NA	NA
June	95,915	88,513	91,226	9,079	284,733	NA	NA	NA
July	123,126	98,260	92,951	9,978	324,315	NA	NA	NA
August	123,120	96,523	92,930	9,568	322,980	NA NA	NA NA	NA
September	104,055	90,406	90,750	9,588	294,798	NA NA	NA NA	NA
October	82,605	83,776	89,839	9,180	265,399	NA	NA	NA
November	78,288	77,076	88,454	8,711	252,529	NA	NA	NA
December	95,163	80,759	86,356	8,453	270,732	NA	NA	NA
Total	1,144,923	1,001,996	1,058,217	106,952	3,312,087	147,581	41,683	R 3,501,35
000 January	R _{108,604}	R 80,266	R 86,456	^R 8,816	R 284,142	NA	NA	NA
February	R 97,356	R 77,868	R 84,501	R 8,679	R 268,404	NA	NA	NA
March	R 84,694	R 78,018	R 88,082	R 8,488	R 259,283	NA	NA	NA
April	R 75,682	R 75,654	R 85,434	R 8,301	R 245,071	NA	NA	NA
May	R 83,185	R 83,538	R 89,285	R 9,087	R 265,094	NA	NA	NA
June	R 104,598	R 92,490	R 91,851	R 9,476	R 298,415	NA	NA	NA
	R 119,566	R 96,237	R 90,343	R 9,715	R 315,860	NA NA		NA NA
July	R 404 000	R 400,400	" 90,343 R 05 040				NA	
August	R 124,366	R 100,460	R 95,046	R 10,139	R 330,011	NA	NA	NA
September	R 108,893	R 92,919	R 91,401	R 10,133	R 303,346	NA	NA	NA
October	R 87,421	R 85,782	R 90,236	R 9,341	R 272,780	NA	NA	NA
November	^R 84,212	R 80,827	R 89,513	R 8,999	R 263,551	NA	NA	NA
December	F 107,012	F 83,979	F 89,094	F 8,928	F 289,013	NA	NA	NA
	F 1,185,588	F 1,028,038	F 1,071,240	F 110,105	F 3,394,971	NA	NA	NA

^a Beginning in 1999, includes sales to ultimate consumers by power marketers.

occurred prior to 1992 and included only the capacity of facilities that came on line before 1992.

Notes: Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia. Sources: See end of section. Forecast values are derived from EIA's Short-Term

Integrated Forecasting System. See Note 4 at the end of the coal section for additional information.

Prior to 1999, data do not include sales to ultimate consumers by power marketers in several State 'retail wheeling" pilot programs. In million kilowatthours, these were 3,300 in 1996; 5,800 in 1997; and 24,400 in 1998. Beginning in 1999, data include sales to ultimate consumers by power marketers. In 1999 these sales totaled 76,188 million kilowatthours, of which 4,162 were to the residential sector; 31,395 to the commercial sector; 40,434 to the industrial sector; and 198 to other. See EIA, *Electric Sales and Revenue 1999*, Appendix C, for more information.

Degining in 1395, includes sales to ultimate consumers by power marketers. See box below for additional information.

b Public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

c Facility use of onsite net electricity generation.

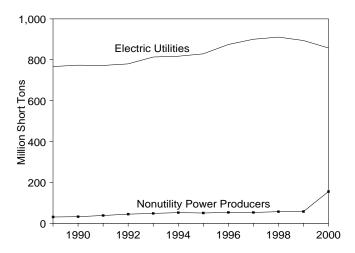
^c Facility use of onsite net electricity generation.

^d Data for 1989-1991 were collected for facilities with capacities of 5 megawatts or more. In 1992, the threshold was lowered to include facilities with capacities of 1 megawatt or more. Estimates of the 1-to-5 megawatt range for 1989-1991 were derived from historical data. The estimation did not include retirements that

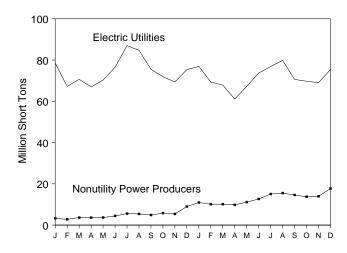
R=Revised. F=Forecast.

Figure 7.4 Consumption of Fossil Fuels To Generate Electricity

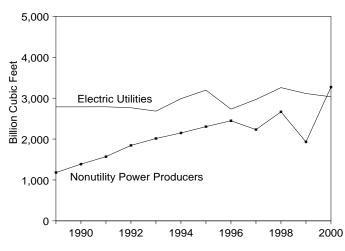
Coal Consumption, 1989-2000



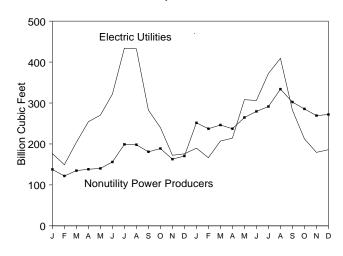
Coal Consumption, 1999 and 2000



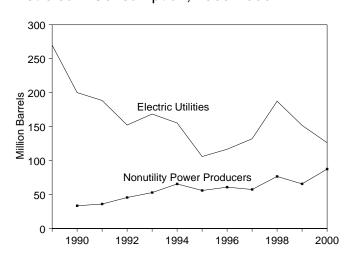
Natural Gas Consumption, 1989-2000



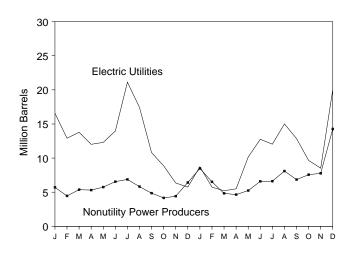
Natural Gas Consumption, 1999 and 2000



Petroleum Consumption, 1989-2000



Petroleum Consumption, 1999 and 2000



Note: • Petroleum includes petroleum coke, which is converted to liquid units at 5 barrels per short ton. • Because vertical scales differ, graphs should not be compared.

Sources: Tables 7.7 and 7.8.

Table 7.6 Consumption of Fossil Fuels To Generate Electricity

			Petroleum		
	Coal ^a	Liquids ^b	Petroleum Coke	Total ^c	Natural Gas ^d
	Thousand	Thousand	Thousand	Thousand	Million
	Short Tons	Barrels	Short Tons	Barrels	Cubic Feet
989 Total	797,650	295,828	NA	NA	3,968,027
990 Total	805,860	223,932	1,927	233,570	4,174,073
991 Total	810,387	212,768	2,351	224,521	4,358,864
992 Total	824,467	179,211	3,749	197,955	4,610,465
993 Total	861,851	199,414	4,402	221,426	4,696,228
994 Total	869,531	192,893	5,615	220,966	5,136,392
995 Total	879,336	137,181	4,949	161.927	5,500,451
996 Total	927,880	157,181	4,949 5,165	161,927	5,500,451
996 Total	927,880 953,274	160,740	5,764	177,544	5,179,827
	•	•	•	•	, ,
998 Total	967,716	232,889	6,239	264,086	5,924,484
999 January	^R 81,839	R 20,570	^R 341	R 22,276	RE 314,106
February	^R 70,023	^R 16,043	^R 265	^R 17,366	RE 271,083
March	74,270	R 16,845	R 462	^R 19,156	RE 339,007
April	R 70,569	R 15,374	R 390	^R 17,325	RE 392,594
May	R 73,954	R 16,331	R 343	R 18.048	RE 410,592
June	R 80,942	R 18,722	^R 356	R 20,501	RE 477,595
July	R 92,589	R 26,240	R 352	R 27.998	RE 632,949
August	R 90,134	R 21.269	R 396	R 23.250	RE 630.533
September	R 80,383	R 14.170	R 299	R 15.666	RE 463,475
October	R 77.746	R 11.605	R 283	R 13.020	RE 428,886
November	R 74,748	R 8.754	R 403	R 10,769	RE 335.254
December	R 84,375	R 9.555	R 524	R 12.173	RE 346.474
Total	^R 951,571	R 195,477	R 4,416	R 217.555	RE 5,042,546
Total	301,011	130,477	7,710	217,000	3,042,340
000 January	^R 87,909	^R 14,612	^R 521	^R 17,216	RE 441,405
February	R 79,443	R 9,937	^R 466	^R 12,266	RE 403,574
March	^R 77,944	R 8,203	^R 368	R 10,044	RE 453,333
April	R 70,884	R 8,489	R 332	^R 10,150	RE 451,424
May	R 78,386	R 14,022	R 274	^R 15,394	RE 572,782
June	R 86,369	R 17,326	R 405	R 19,350	RE 585,732
July	R 91,920	R 16,648	R 401	R 18,655	RE 663.595
August	^R 95,312	R 20,971	R 428	R 23.109	RE 743.070
September	^R 85,156	R 17.518	R 439	R 19.714	RE 584,929
October	R 83,447	R 15,165	R 412	R 17,223	RE 498.237
November	82,968	R 14,179	R 423	R 16,294	RE 448,775
December	93,154	32,107	440	34,305	E 457.950
	,	32,107 189,174	4,9 09		E 6,304,807
Total	1,012,889	109,174	4,303	213,718	- 6,304,807

^a Coal, fine coal, anthracite culm, bituminous gob, lignite waste, tar coal, waste coal, and coke breeze.

Notes: Electric utility data are for fuels consumed to produce electricity only. Nonutility data prior to 1999 are for fuels consumed to produce both electricity and useful thermal output; nonutility data for 1999 forward are for fuels consumed to produce electricity only. Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia.

Sources: Tables 7.7 and 7.8.

This table represents the entire U.S. electric power sector. See Table 7.7 for electric utilities only. See Table 7.8 for nonutility power producers only.

^b Fuel oil nos. 1, 2, 4, 5, and 6, crude oil, kerosene, liquid butane, liquid propane, methanol, liquid byproducts, oil waste, sludge oil, and tar oil.

C Patrolaum coke is converted at 5 harrels per short ton

Petroleum coke is converted at 5 barrels per short ton.

d Includes supplemental gaseous fuels.

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

Table 7.7 Consumption of Fossil Fuels To Generate Electricity at Electric Utilities

		Co	al				Petroleum			
	Anthra- cite ^a	Bituminous Coal ^b	Lignite	Total	Heavy Oil [©]	Light Oil ^d	Total Liquids	Petroleum Coke	Totale	Natural Gas ^f
		Thousand S	Short Tons		Th	nousand Barre	ls	Thousand Short Tons	Thousand Barrels	Million Cubic Feet
1973 Total 1974 Total 1975 Total	1,443 1,498 1,480	376,975 378,643 388,523	10,794 11,670 15,960	389,212 391,811 405,962	9 513,190 9 483,146 9 467,221	^h 47,058 ^h 53,128 ^h 38,907	560,248 536,274 506,128	507 625 70	562,781 539,399 506,479	3,660,172 3,443,428 3,157,669
1976 Total 1977 Total	1,350 1,425	425,205 451,051	21,817 24,650	448,371 477,126	9514,077 9574,869	^h 41,843 ^h 48,837	555,920 623,705	68 98	556,261 624,193	3,080,868 3,191,200
1978 Total	1,064 1,046	448,763 488,129	31,407	481,235	9588,319 9492,606	h47,520 h30,691	635,839	398 268	637,830 524,636	3,188,363
1979 Total 1980 Total	951	526,680	37,876 41,642	527,051 569,274	391,163	29,051	523,297 420,214	179	421,110	3,490,523 3,681,595
1981 Total	1,221 1.075	550,784 543,346	44,792	596,797 503,666	329,798	21,313	351,111	139 149	351,806	3,640,154
1982 Total 1983 Total	1,075	543,346 570,108	49,245 54,067	593,666 625,211	234,434 228,984	15,337 16,512	249,771 245,497	261	250,517 246,804	3,225,518 2,910,767
1984 Total	1,070	606,339	56,990	664,399	189,289	15,190	204,479	252	205,736	3,111,342
1985 Total 1986 Total	1,033 829	631,885 616,134	60,923 68,093	693,841 685,056	158,779 216,156	14,635 14,326	173,414 230,482	231 313	174,571 232,046	3,044,083 2,602,370
1987 Total	972	647,824	69,098	717,894	184,011	15,367	199,378	348	201,116	2,844,051
1988 Total	1,063 1,049	681,048 688 504	76,260	758,372 766,888	229,327	18,769 25,491	248,096 267,451	409 517	250,141	2,635,613
1989 Total 1990 Total	1,049	688,504 694,317	77,335 78,201	773,549	241,960 181,231	14,823	267,451 196,054	819	270,038 200,152	2,787,012 2,787,332
1991 Total	994	691,275	79,999	772,268	171,157	13,729	184,886	722	188,494	2,789,014
1992 Total 1993 Total	986 951	698,626 732,736	80,248 79,821	779,860 813,508	135,779 149,287	11,556 13.168	147,335 162,454	999 1,220	152,329 168,556	2,765,608 2,682,440
1994 Total	1,123	737,102	79,045	817,270	134,666	16,338	151,004	875	155,377	2,987,146
1995 Total	978	749,951	78,078	829,007	86,584	15,565	102,150	761	105,956	3,196,507
1996 Total 1997 Total	1,009 1,014	795,252 821,823	78,421 77,524	874,681 900,361	96,382 109,989	16,892 15,157	113,274 125,146	681 1,400	116,680 132,147	2,732,107 2,968,453
1998 January	84	72,384	7,051	79,520	9,014	1,062	10,076	156	10,855	171,149
February March	75 84	63,061 65,942	5,960 5,791	69,097 71,817	8,185 12,707	831 1,215	9,016 13,921	122 125	9,629 14,547	133,757 194,258
April	75	61,064	5,335	66,474	9,688	994	10,682	141	11,388	190,201
May June	83 74	66,544 72,397	6,240 6,545	72,867 79,016	13,363 16,802	2,046 3,183	15,409 19,984	146 167	16,140 20,818	290,368 378,607
July	70	79,798	7,321	87,189	19,254	3,448	22,702	176	23,581	449,354
August	58 52	79,823	7,183	87,064	18,754 14,621	3,189	21,943 17,292	165	22,767	456,960
September October	52 74	71,635 66,548	6,391 6,785	78,078 73,407	10,627	2,670 1,005	11,632	156 144	18,070 12,352	381,075 246,171
November	75	63,204	6,173	69,452	10,628	1,019	11,647	141	12,354	177,596
December Total	61 867	69,695 832,094	7,131 77,906	76,887 910,867	12,930 156,573	1,380 22,041	14,310 178,614	130 1,769	14,960 187,461	188,557 3,258,054
1999 January	84	R 71,649	6,842	R 78,575	R 13,563	R 2,355	R 15,919	130	R 16,570	R 176,375
February March	87 102	R 61,212 R 65,226	5,921 5,314	67,220 R 70,643	11,484 12,004	888 R 1,092	12,372 R 13,096	108 137	12,910 R 13,782	R 149,319 R 204,107
April	93	61,603	5,264	66,961	9,730	R 1,672	11,403	123	R 12,019	R 254,337
May June	2 58	^R 64,237 ^R 69,642	6,046 6,807	^R 70,285 ^R 76,507	R 10,353 11,302	^R 1,257 1,959	R 11,609 13,261	138 139	R 12,301 13,955	R 270,394 R 321,646
July	78	R 79,706	7,236	R 87,020	15,505	R 4,777	R 20,282	169	R 21,125	R 433,914
August	75 48	^R 77,452 ^R 68,729	7,202	R 84,729	13,528	R 2,972	R 16,500	186	R 17,431	R 432,405
September October	59	R 65,350	6,744 6,529	^R 75,520 ^R 71,938	8,967 7,259	1,260 R 1.022	10,227 R 8,281	115 116	10,803 ^R 8,861	R 282,642 R 240.002
November	NA	R 62,848	6,505	R 69,353	4,598	R 1,215	R 5,813	108	R 6,353	R 172,408
December Total	NA 686	^R 68,254 815,909	7,115 77,525	^R 75,369 894,120	4,010 122,303	1,059 21,528	^R 5,068 143,830	138 1,608	^R 5,756 151,868	R 175,870 3,113,419
2000 January	NA	70,458	6,499	76,957	6,201	1,721	7,922	162	8,731	189,784
February March	NA NA	62,970 61,814	6,357 6,003	69,327 67,818	4,087 3,875	1,001 901	5,088 4,777	132 87	5,747 5,213	166,410 207,060
April	NA	56,162	4,912	61,074	4,241	815	5,056	89	5,502	214,209
May	NA	61,582	5,677	67,260	7,841	1,904	9,745	81	10,152	308,151
June July	NA NA	67,268 69,812	6,452 7,058	73,720 76,870	10,631 9,888	1,632 1,859	12,263 11,747	99 58	12,757 12,039	306,250 372,156
August	NA	72,767	7,046	79,813	12,251	2,188	14,439	114	15,007	409,139
September October	NA NA	64,263	6,328 6,610	70,591 69,739	10,957 8,294	1,472 1,020	12,429 9,314	87 69	12,865	282,538 212,601
November	NA NA	63,129 62,621	6,610 6,403	69,739 69,025	6,874	1,020	9,314 8,153	74	9,657 8,523	212,601 179,484
December	NA	68,974	6,450	75,423	12,935	6,705	19,640	80	20,038	186,035
Total	NA	781,821	75,794	857,615	98,075	22,497	120,572	1,132	126,231	3,033,817

petroleum are used as estimates for light oil consumption.
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.
Sources: 1973-September 1977: Federal Power Commission, Form FPC-4,
"Monthly Power Plant Report." October 1977-1979: Federal Energy Regulatory
Commission, Form FPC-4, "Monthly Power Plant Report." 1980-1989: Energy
Information Administration (EIA), Electric Power Monthly, March issues. 1990
forward: EIA, Electric Power Monthly, March 2001, Table 14.

<sup>a Includes anthracite silt stored off-site.
b Includes subbituminous coal.
c For 1980 forward, fuel oil nos. 4, 5, and 6, and residual fuel oils.
d For 1980 forward, fuel oil nos. 1 and 2, kerosene, and jet fuel.
e Petroleum coke is converted at 5 barrels per short ton.
f Includes supplemental gaseous fuels.
g For 1973-1979, data for steam plant consumption of petroleum are used as estimates for heavy oil consumption.
h For 1973-1979, data for gas turbine and internal combustion plant use of</sup>

Table 7.8 Consumption of Fossil Fuels To Generate Electricity at Nonutility Power **Producers**

			Petroleum		
	Coala	Liquids ^b	Petroleum Coke	Total ^c	Natural Gas ^d
	Thousand	Thousand	Thousand	Thousand	Million
	Short Tons	Barrels	Short Tons	Barrels	Cubic Feet
989 Total ^e	30,762	28,377	NA	NA	1,181,015
990 Total ^e	32,311	27,878	1,108	33,418	1,386,741
991 Total ^e	38,119	27,882	1,629	36,027	1,569,850
992 Total	44.607	31,876	2.750	45,626	1,844,857
	,		,		
993 Total	48,343	36,960	3,182	52,870	2,013,788
994 Total	52,261	41,889	4,740	65,589	2,149,246
995 Total	50,329	35,031	4,188	55,971	2,303,944
996 Total	53,199	38,444	4,484	60,864	2,447,720
997 Total	52,913	35,594	4,364	57,414	2,231,363
998 Total	56,849	54,275	4,470	76,625	2,666,430
999 January	R 3,264	^R 4,651	^R 211	^R 5,706	RE 137,730
February	R 2,803	^R 3,671	^R 157	^R 4,456	RE 121,764
March	R 3.627	R 3.749	R 325	^R 5.374	RE 134,900
April	R 3,608	^R 3,971	R 267	^R 5,306	RE 138,257
May	R 3,669	R 4.722	R 205	^R 5.747	RE 140,198
June	^R 4,435	^R 5,461	R 217	^R 6,546	RE 155,949
July	R 5,569	^R 5.958	R 183	^R 6,873	RE 199,035
,	R 5.405	R 4.769	R 210	R 5.819	RE 198.128
August	R 4.863	R 3.943	R 184	R 4.863	RE 180,832
September		R 3.324	** 184 R 167	R 4.159	RE 188.884
October	R 5,808		R 295		
November	R 5,395	R 2,941		R 4,416	RE 162,846
December	R 9,006	R 4,487	R 386	R 6,417	RE 170,604
Total	^R 57,451	^R 51,647	R 2,808	^R 65,687	RE 1,929,126
000 January	^R 10,952	^R 6,690	R 359	^R 8,485	RE 251,621
February	^R 10,116	^R 4,849	^R 334	^R 6,519	RE 237,164
March	^R 10,126	^R 3,426	^R 281	^R 4,831	RE 246,273
April	R 9,810	R 3,433	R 243	R 4,648	RE 237,215
May	R 11,126	R 4,277	^R 193	^R 5,242	RE 264,631
June	R 12.649	^R 5.063	R 306	^R 6.593	RE 279,482
July	R 15.050	^R 4,901	R 343	^R 6,616	RE 291.439
August	R 15.499	R 6.532	R 314	R 8.102	RE 333.931
September	R 14,565	R 5.089	R 352	R 6,849	RE 302,391
October	R 13.708	R 5.851	R 343	R 7.566	RE 285.636
November	R 13,943	R 6,026	R 349	R 7,771	RE 269.291
December	17.731	•	360	,	E 271.915
	, -	12,467		14,267	
Total	155,274	68,602	3,777	87,487	E 3,270,990

^a Coal, fine coal, anthracite culm, bituminous gob, lignite waste, tar coal,

Notes: Data prior to 1999 are for fuels consumed to produce both electricity

and useful thermal output; data for 1999 forward are for fuels consumed to produce electricity only.
Due to restructuring of the electric power sector, the sale of generation assets is resulting in reclassification of plants from electric Totals may not equal sum of components due to utility to nonutility plants. Geographic coverage is the 50 States and the District independent rounding.

of Columbia. Source: Source: 1989-1997: Energy Information Administration (EIA), Form EIA-867, "Annual Nonutility Power Producer Report." 1998: EIA, Form EIA-860B, "Annual Electric Generator Report-Nonutility." 1999 forward: EIA, Form EIA-900, "Monthly Nonutility Power Report."

waste coal, and coke breeze.

^b Fuel oil nos. 1, 2, 4, 5, and 6, crude oil, kerosene, liquid butane, liquid propane, methanol, liquid byproducts, oil waste, sludge oil, and tar oil.

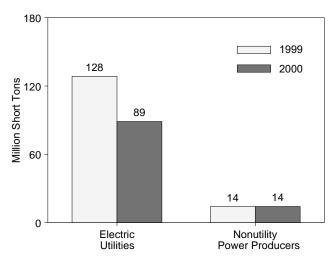
^C Petroleum coke is converted at 5 barrels per short ton.

Pationed in Color of Pationed in Pati megawatts or more. In 1992, the threshold was lowered to include facilities with capacities of 1 megawatt or more.

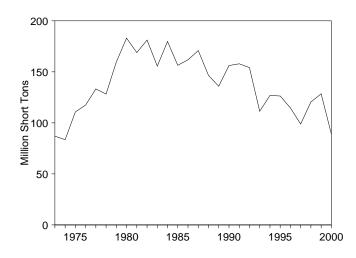
R=Revised. NA=Not available. E=Estimate.

Figure 7.5 Electric Power Sector Stocks of Coal and Petroleum

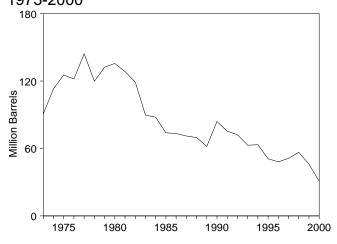
Coal Stocks, December



Coal Stocks at Electric Utilities, 1973-2000



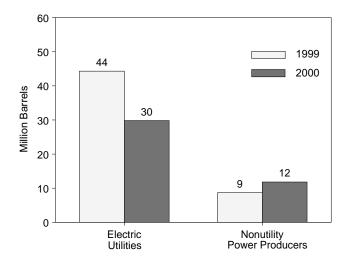
Petroleum Stocks at Electric Utilities, 1973-2000



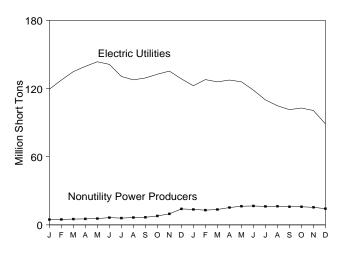
Notes: • Petroleum includes petroleum coke, which is converted to liquid units at 5 barrels per short ton. • Because vertical scales differ, graphs should not be compared.

Source: Tables 7.9.

Petroleum Liquids Stocks, December



Coal Stocks, 1999 and 2000



Petroleum Stocks at Electric Utilities, 1999 and 2000

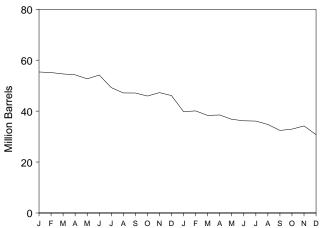


Table 7.9 Electric Power Sector Stocks of Coal and Petroleum

		Coal					Petrol	eum			
		Namedilia	Total		Electric	Utilities		Nonutili	ty Power Pro	oducers	Total
	Electric Utilities	Nonutility Power Producers	Electric Power Sector	Heavy Oil ^a	Light Oil ^b	Petroleum Coke	Total ^c	Liquids	Petroleum Coke	Total ^c	Electric Power Sector
	The	ousand Short T	ons	Thousar	nd Barrels	Thousand Short Tons	Thousand Barrels	Thousand Barrels	Thousand Short Tons	Thousand Barrels	Thousand Barrels
4070 T				d=0.404	840.005						
1973 Total 1974 Total		NA NA	NA NA	^d 79,121 ^d 97,718	^e 10,095 ^e 15,199	312 35	90,776 113,091	NA NA	NA NA	NA NA	NA NA
1975 Total		NA	NA	d 108 ,825	^e 16,432	31	125,413	NA	NA	NA	NA
1976 Total		NA	NA	d 106,993	^e 14,703	32	121,857	NA	NA	NA	NA
1977 Total		NA	NA	d124,750	^e 19,281	44	144,252	NA	NA	NA	NA
1978 Total 1979 Total		NA NA	NA NA	^d 102,402 ^d 111,121	^e 16,386 ^e 20,301	198 183	119,778 132,338	NA NA	NA NA	NA NA	NA NA
1980 Total		NA NA	NA NA	105,351	30,023	52	135,635	NA NA	NA NA	NA NA	NA
1981 Total		NA	NA	102,042	26,094	42	128,345	NA	NA	NA	NA
1982 Total		NA	NA	95,515	23,369	41	119,090	NA	NA	NA	NA
1983 Total		NA	NA	70,573	18,801	55	89,652	NA	NA	NA	NA
1984 Total		NA	NA	68,503	19,116	50	87,870	NA	NA	NA	NA
1985 Total 1986 Total		NA NA	NA NA	57,304 56,841	16,386 16,269	49 40	73,933 73,313	NA NA	NA NA	NA NA	NA NA
1987 Total		NA NA	NA	55,069	15,759	51	71,084	NA	NA NA	NA	NA
1988 Total		NA	NA	54,187	15,099	86	69,714	NA	NA	NA	NA
1989 Total		NA	NA	47,446	13,824	105	61,795	NA	NA	NA	NA
1990 Total		NA	NA	67,030	16,471	94	83,970	NA	NA	NA	NA
1991 Total 1992 Total		NA NA	NA NA	58,636 56,135	16,357 15,714	70 67	75,343 72,183	NA NA	NA NA	NA NA	NA NA
1993 Total		NA NA	NA NA	46,769	15,674	89	62,889	NA NA	NA NA	NA NA	NA NA
1994 Total		NA	NA	46,342	16,644	69	63,331	NA	NA	NA	NA
1995 Total		NA	NA	35,102	15,392	65	50,821	NA	NA	NA	NA
1996 Total		NA	NA	32,473	15,216	91	48,146	NA	NA	NA	NA
1997 Total	98,826	NA	NA	33,336	15,456	469	51,138	NA	NA	NA	NA
1998 January	100,406	NA	NA	33,871	15,627	403	51,512	NA	NA	NA	NA
February		NA	NA	33,872	15,953	358	51,615	NA	NA	NA	NA
March		NA	NA	31,180	15,481	418	48,753	NA	NA	NA	NA
April May		NA NA	NA NA	35,021 32,911	16,029 14,802	498 501	53,542 50,218	NA NA	NA NA	NA NA	NA NA
June	,	NA NA	NA NA	30,036	14,559	683	48,011	NA	NA	NA	NA
July	,	NA	NA	31,638	15,220	577	49,743	NA	NA	NA	NA
August		NA	NA	32,605	15,118	623	50,839	NA	NA	NA	NA
September		NA	NA	31,258	14,793	562	48,863	NA	NA	NA	NA
October		NA NA	NA NA	35,409 37,059	15,881 16,162	588 602	54,231 56,233	NA NA	NA NA	NA	NA
November December		NA NA	NA NA	37,039 37,447	16,162	559	56,233 56,586	NA NA	NA NA	NA NA	NA NA
1000 January	440.000	4.070	404.000	R 35,426	R 47 202	E40	R FF 207	2.250	NIA	NIA	NIA
1999 January February		4,678 4,777	124,060 132,205	R 35,246	^R 17,202 ^R 17,058	548 568	^R 55,367 ^R 55,143	3,258 2,957	NA NA	NA NA	NA NA
March		5,098	139,995	R 35,055	16,841	540	R 54,594	3,042	NA	NA	NA
April	139,495	5,282	144,777	R 33,821	R 17,457	592	R 54,240	3,319	NA	NA	NA
May		5,546	149,108	R 32,676	17,046	592	R 52,680	4,579	NA	NA	NA
June July		6,374 5,948	147,641 136,621	^R 33,447 ^R 30,247	17,264 R 15,812	690 633	^R 54,162 ^R 49,225	4,504 5,353	NA NA	NA NA	NA NA
August	,	5,948 6,462	136,621	R 27,983	R 16,302	570	R 47,137	5,353 5,129	NA NA	NA NA	NA NA
September		6,677	135,979	R 27,839	R 16,503	553	R 47,108	5,453	NA	NA	NA
October	132,608	7,848	140,456	R 26,647	16,736	507	^R 45,919	6,561	NA	NA	NA
November		9,694	145,049	R 28,677	R 16,413	435	R 47,263	6,185	NA	NA	NA
December	128,493	14,050	142,543	27,763	16,549	355	46,089	8,666	NA	NA	NA
2000 January		R 13,586	R 136,058	23,468	14,841	297	39,791	R 6,500	NA	NA	NA
February		R 12,973	R 140,831	23,982	15,129	195	40,084	R 6,344	NA	NA	NA
March April		^R 13,544 ^R 15,248	^R 139,413 ^R 142,717	22,741 22,981	14,710 14,755	171 150	38,305 38,486	^R 6,187 ^R 6,747	NA NA	NA NA	NA NA
May		R 16,420	R 142,377	21,848	14,755	113	36,774	R 7,374	NA	NA	NA
June		R 16,640	R 135,234	20,927	14,835	87	36,198	R 8,924	NA	NA	NA
July	110,031	R 16,238	R 126,269	21,074	14,466	108	36,078	R 12,077	NA	NA	NA
August		R 16,404	R 121,241	19,637	14,338	157	34,761	R 11,116	NA	NA	NA
September October		^R 15,949 ^R 15,931	^R 117,343 ^R 118,767	17,969 18,096	13,457 13,596	199 247	32,420 32,929	^R 11,375 ^R 12,092	NA NA	NA NA	NA NA
November		R 15,465	R 116,119	19,274	13,684	247	34,182	R 12,632	NA NA	NA NA	NA NA
December		14,255	103,095	17,462	12,363	186	30,756	11,816	NA	NA	NA

^a Fuel oil nos. 4, 5, and 6, and residual fuel oils.

R=Revised. NA=Not available.

Notes: Stocks are at end of period. Data are for fuels available to produce

electricity; they may include some fuels available to produce useful thermal output electricity; they may include some fuels available to produce userul thermal output at cogeneration plants. Nonutility facilities that are not required to report on Fore EIA-900 are not included. Due to restructuring of the electric power sector, the sale of generation assets is resulting in reclassification of plants from electric utility to nonutility plants. Totals may not equal sum of components due to independent rounding. Geographic coverage is the 50 States and the District of Columbia. Sources: See end of section.

Fuel oil nos. 4, 5, and 6, and residual rue. ons.

Fuel oil nos. 1 and 2, kerosene, and jet fuel.

Petroleum coke is converted at 5 barrels per short ton.

For 1973-1979, stocks held at steam plants are used as estimates for heavy oil stocks.

e For 1973-1979, stocks held at gas turbine and internal combustion plants are used as estimates for light oil stocks.

Sources for Table 7.1, Imports and Exports of Electricity

1973-September 1977: Unpublished Federal Power Commission data.

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

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

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

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

1987 and 1988: DOE, ERA, Form ERA-781R, "Annual Report of International Electrical Export/Import Data." 1989: DOE, Fossil Energy, Form FE-781R, "Annual Report of International Electrical Export/Import Data." 1990-1998: Mexico's data: DOE, Fossil Energy, Office of Fuels Programs, Form FE-781R, "Annual Report of International Electrical Export/Import Data." Canada's data (metered energy, firm and interruptible): the National Energy Board of Canada.

1999 forward: EIA estimates based on preliminary data from DOE, Fossil Energy, and actual data from the National Energy Board of Canada.

Sources for Table 7.3

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

October 1977-1979—Federal Energy Regulatory Commission (FERC), Form FPC-4, "Monthly Power Plant Report."

1980—Energy Information Administration (EIA), *Electric Power Monthly*, March 1991, Table 4, and (for geothermal energy and other) FERC, Form FPC-4, "Monthly Power Plant Report."

1981—EIA, Electric Power Monthly, March 1992, Table 4, and (for geothermal energy and other) FERC, Form FPC-4, "Monthly Power Plant Report." 1982—EIA, Electric Power Monthly, March 1993, Table 4, and (for geothermal energy and other) EIA, Form EIA-759, "Monthly Power Plant Report." 1983-1989—EIA, Electric Power Monthly, March 1994, Table 4, and (for small components) EIA, Form

EIA-759, "Monthly Power Plant Report." 1990 forward—EIA, *Electric Power Monthly*, March 2001, Tables 4 and 5, and (for small components) EIA, Form EIA-759, "Monthly Power Plant Report."

Sources for Table 7.5

Electric Utilities

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-September 2000—EIA, Electric Power Monthly, March 2001, Table 44.

Nonutility Power Producers

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

1998 forward—EIA, Form EIA-860B, "Annual Electric Generator Report--Nonutility."

Sources for Table 7.9

Electric Utilities

1973-September 1977—FPC, Form FPC-4, "Monthly Power Plant Report."

October 1977-1979—FERC, Form FPC-4 "Monthly Power Plant Report."

1980-1989—EIA, *Electric Power Monthly*, March issues.

1990 forward—EIA, *Electric Power Monthly*, March 2001, Table 21.

Nonutility Power Producers

EIA, Form EIA-900, "Monthly Nonutility Power Report."

Section 8. Nuclear Energy

In December 2000, U.S. nuclear generating units produced a total of 68 net terawatthours (billion kilowatthours) of electricity, 1 percent lower than in December 1999. Nuclear units generated at an average capacity factor of 93.7 percent, 0.7-percentage points lower than the capacity factor in December 1999.

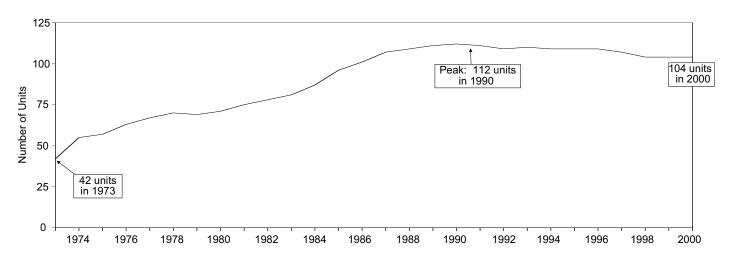
On December 31, 2000, there were 104 operable nuclear generating units in the United States, with a collective net summer capability of 97.4 million kilowatts of electricity. Of the 104 operable units, 3 units

generated no electricity during the month because of maintenance, refueling, or repair outage, and 81 units reported operating at 90 percent of capacity or more. Of these 81 units, 48 operated at 100 percent or greater (based on net summer capability).

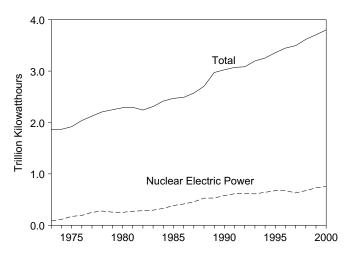
In addition, there were three other units with construction permits, but construction for all three units has been halted. Their combined design capacity is 3.6 million kilowatts.

Figure 8.1 Nuclear Power Plant Operations

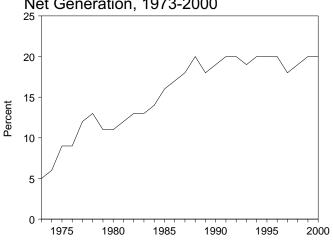
Operable Units, End of Year, 1973-2000



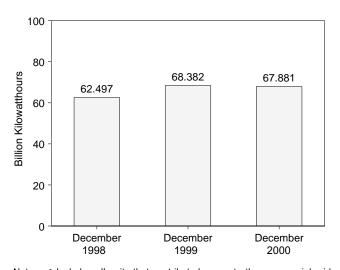
Electricity Net Generation, 1973-2000



Nuclear Share of Electricity Net Generation, 1973-2000

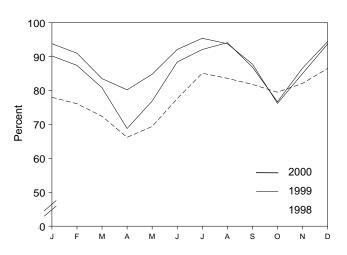


Nuclear Electricity Net Generation



Notes: $\, \bullet \,$ Includes all units that contributed power to the commercial grid whether they were owned by an electric utility or a nonutility power plant. See

Capacity Factor, Monthly



Note 1 at end of section for additional information. • Because vertical scales differ, graphs should not be compared.

Table 8.1 Nuclear Power Plant Operations

	Nuclear Electricity Net Generation	Nuclear Share of Electricity Net Generation	Net Summer Capability of Operable Units ^{a,b}	Capacity Factor ^c
	Million		Million	
	Kilowatthours	Percent	Kilowatts	Percent
73 Year	83,479	4.5	22.683	53.5
74 Year	113,976	6.1	31.867	47.8
'5 Year	172,505	9.0	37.267	55.9
'6 Year	191,104	9.4	43.822	54.7
7 Year	250,883	11.8	46.303	63.3
8 Year	276,403	12.5	50.824	64.5
9 Year	255,155	11.4	49.747	58.4
0 Year	251,116	11.0	51.810	56.3
1 Year	272,674	11.9	56.042	58.2
2 Year	282,773	12.6	60.035	56.6
3 Year	293,677	12.7	63.009	54.4
4 Year	327,634	13.6	69.652	56.3
85 Year	383,691	15.5	79.397	58.0
66 Year	414,038	16.6	85.241	56.9
7 Year	455,270	17.7	93.583	57.4
88 Year	526,973	19.5	94.695	63.5
9 Year	^d 529,402	d 17.8	^d 98.179	d 62.2
0 Year	576,974	19.1	99.642	66.0
01 Year	612,642	19.9	99.608	70.2
2 Year	618,841	20.1	99.004	70.9
03 Year	610,367	19.1	99.060	70.5
04 Year	640,492	19.7	99.148	73.8
95 Year	673,402	20.1	99.515	77.4
06 Year	674,729	19.6	100.784	76.2
7 Year	628,644	18.0	99.716	71.1
18 January	57,889	NA	99.716	78.0
February	50,999	NA	99.716	76.1
March	53,711	NA	99.716	72.4
April	47,503	NA	99.716	66.2
May	51,496	NA	99.716	69.4
June	55,732	NA	99.716	77.6
July	61,499	NA	97.070	85.1
August	60,369	NA	97.070	83.6
September	57,206	NA	97.070	81.8
October	57,429	NA	97.070	79.5
November	57,372	NA	97.070	82.1
December	62,497	NA	97.070	86.5
Year	673,702	18.6	97.070	78.2
9 January	65,399	20.9	97.502	90.2
February	57,235	21.0	97.502	87.4
March	58,578	19.8	97.502	80.8
April	48,315	R 17.5	97.502	68.8
May	55,809	19.0	97.502	76.9
June	62,025	R 19.1	97.502	88.4
July	R 66,804	18.0	97.502	92.1
August	R 68,279	R 19.0	97.502	94.1
September	R 61,029	19.7	97.502	86.9
October	^R 55,593	R 19.0	97.502	76.7
November	^R 60,749	R 21.7	97.502	86.6
December Year	^R 68,382 ^R 728,198	^R 21.7 19.6	^R 97.411 ^R 97.411	^R 94.4 85.3
	·	R 21.1	R 97.411	
O January	68,013			93.8 R 04.0
February	61,688	R 21.3	R 97.411	R 91.0
March	60,494	R 20.6	R 97.411	R 83.5
April	56,252	R 20.3	R 97.411	R 80.2
May	61,479	R 19.8	R 97.411	84.8 R 00.4
June	64,595	R 19.5	R 97.411	R 92.1
July	69,171	R 19.6	R 97.411	95.4
August	67,954	R 18.5	R 97.411	R 93.8
September	61,550	R 19.3	R 97.411	R 87.8
October	55,240	R 18.5	R 97.411	76.2
November	59,579	R 20.0	R 97.411	R 85.0
December	67,881	20.1	97.411	93.7
Year	753,896	19.8	97.411	88.1

universe of reactor units that differs in some respects from the reactor universe used to profile the nuclear power industry in Table 8.2. See Note 1 at end of section for further discussion. Nuclear electricity net 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.

Sources: See end of section.

 $^{^{\}rm a}$ At end of period. $^{\rm b}$ For the definition of "Net Summer Capability," see Note 2(a) at end of

b For the definition of the section.

^c For an explanation of the method of calculating the capacity factor, see Note 2 at end of section.

^d Beginning in 1989, includes nonutility facilities.

R=Revised. NA=Not available.

Notes: The performance data shown in this table are based on a

Table 8.2 Nuclear Generating Units

1973 Year		Orders ^a	Construction Permits ^b	Low Power Operating Licenses ^c	New Operable Units ^d	Shutdowns ^e	Total Operable Units ^f	Cancellations ⁹	Cumulative Cancellations
974 Year	1072 Van	40	44	40	45	•	40		-
975 Year									7 16
976 Year									
977 Year			-			-			29
978 Year									30
979 Year					•	-			40
980 Year					-	-			53
981 Year					-	-			59
982 Year			-						74
983 Year			-		•	0		-	83
984 Year			-		-	•			101
988 Year	983 Year	0	0	3	3	0	81	6	107
986 Year	984 Year	0	0	7	6	0	87	6	113
986 Year	985 Year	0	0	7	9	0	96	2	115
987 Year		0	0	7	5	0	101	2	117
988 Year		0	0	6	8	2	107	0	117
989 Year		0	0	1	2	0	109	3	120
990 Year		0	Ō	3	4	2	111	0	120
991 Year		Ō	Ô		2			1	121
992 Year			-					-	121
993 Year			-		•			-	121
994 Year					-			-	121
995 Year			-		-			-	122
996 Year			-		•				124
997 Year			-		-	-			124
998 January			-			-			
February	997 Year	U	U	U	U	2	107	U	124
February	998 January	0	0	0	0	2	105	0	124
March Ó 0 0 0 0 105 0 April 0 0 0 0 105 0 May 0 0 0 0 105 0 July 0 0 0 0 1105 0 July 0 0 0 0 1104 0 August 0 0 0 0 1104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0 Year 0 0 0 0 104 0 Year 0 0 0 0 104 0 Pébruary 0 0 0 0 104									124
April			-	-	-			-	124
May 0 0 0 0 105 0 June 0 0 0 0 0 105 0 July 0 0 0 0 1104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0 Pear 0 0 0 0 104 0 April 0 0 0 0 104									124
June	•								124
July			-	-	-	-		-	
August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0 Year 0 0 0 0 104 0 Year 0 0 0 0 104 0 999 January 0 0 0 0 104 0 February 0 0 0 0 104 0 March 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104									124
September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 Pear 0 0 0 0 0 104 0 999 January 0 0 0 0 0 104 0 February 0 0 0 0 0 104 0 February 0 0 0 0 0 104 0 February 0 0 0 0 0 104 0 March 0 0 0 0 0 104 0 April 0 0 0 0 0 104 0 July 0 0 0 0 104 0 July 0 0 0 0 104 0					-	-			124
October 0 0 0 0 104 0 November 0 0 0 0 0 104 0 Pear 0 0 0 0 0 104 0 999 January 0 0 0 0 0 104 0 Pebruary 0 0 0 0 0 104 0 March 0 0 0 0 0 104 0 April 0 0 0 0 0 104 0 May 0 0 0 0 0 104 0 May 0 0 0 0 0 104 0 Jule 0 0 0 0 0 104 0 July 0 0 0 0 0 104 0 July 0 0 0 0			-		-			-	124
November 0 0 0 0 104 0 December 0 0 0 0 0 104 0 Year 0 0 0 0 0 104 0 999 January 0 0 0 0 0 104 0 February 0 0 0 0 0 104 0 March 0 0 0 0 0 104 0 April 0 0 0 0 0 104 0 May 0 0 0 0 0 104 0 Jule 0 0 0 0 0 104 0 August 0 0 0 0 0 104 0 September 0 0 0 0 0 104 0 October 0 0 0 <			-		-				124
December 0			-		-			-	124
Year 0 0 0 0 3 104 0 999 January 0 0 0 0 0 104 0 February 0 0 0 0 0 104 0 March 0 0 0 0 0 104 0 April 0 0 0 0 0 104 0 May 0 0 0 0 0 104 0 Jule 0 0 0 0 0 104 0 July 0 0 0 0 0 104 0 July 0 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104									124
999 January 0 0 0 0 0 0 104 0 February 0 0 0 0 0 0 0 104 0 0 0 0 0 0 0 0 0 0 0			-		-				124
February 0 0 0 0 0 104 0 March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 Pear 0 0 0 0 104 0 Vear 0 0 0 0 104 0 Pebruary 0 0 0 0 <td< td=""><td>Year</td><td>0</td><td>0</td><td>0</td><td>0</td><td>3</td><td>104</td><td>0</td><td>124</td></td<>	Year	0	0	0	0	3	104	0	124
February 0 0 0 0 0 104 0 March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 Pear 0 0 0 0 104 0 Vear 0 0 0 0 104 0 Pebruary 0 0 0 0 <td< td=""><td>000 lenuer</td><td>0</td><td>0</td><td>0</td><td>0</td><td>0</td><td>104</td><td>0</td><td>101</td></td<>	000 lenuer	0	0	0	0	0	104	0	101
March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 Year 0 0 0 0 104 0 Year 0 0 0 0 104 0 Rebruary 0 0 0 0 104 0									124
April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 Pear 0 0 0 0 104			-		-			-	124
May 0 0 0 0 104 0 June 0 0 0 0 0 104 0 July 0 0 0 0 0 104 0 August 0 0 0 0 0 104 0 September 0 0 0 0 0 104 0 October 0 0 0 0 0 104 0 November 0 0 0 0 0 104 0 December 0 0 0 0 0 104 0 Vear 0 0 0 0 0 104 0 Vear 0 0 0 0 104 0 February 0 0 0 0 104 0 March 0 0 0 0 104 0 </td <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td></td> <td></td> <td></td> <td>124</td>			-		-				124
June 0 0 0 0 104 0 July 0 0 0 0 0 104 0 August 0 0 0 0 0 104 0 September 0 0 0 0 0 104 0 October 0 0 0 0 0 104 0 November 0 0 0 0 0 104 0 December 0 0 0 0 0 104 0 Pear 0 0 0 0 0 104 0 O 0 0 0 0 104 0			-		-			-	124
July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0 Year 0 0 0 0 104 0 Year 0 0 0 0 104 0 Pebruary 0 0 0 0 104 0 March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 July 0 0 0 0 104 <					-			-	124
August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0 Year 0 0 0 0 104 0 Year 0 0 0 0 104 0 Obusty 0 0 0 0 104			-		-	-			124
September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0 Year 0 0 0 0 104 0 Year 0 0 0 0 104 0 Pebruary 0 0 0 0 104 0 February 0 0 0 0 104 0 March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104			-		•	-		-	124
October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0 Year 0 0 0 0 104 0 1000 January 0 0 0 0 104 0 Pebruary 0 0 0 0 104 0 March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 Jule 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 0									124
November 0 0 0 0 0 104 0 December 0 0 0 0 0 104 0 Year 0 0 0 0 0 104 0 000 January 0 0 0 0 104 0 February 0 0 0 0 104 0 March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0	September	0	0	0	0	0	104	0	124
December 0 0 0 0 104 0 Year 0 0 0 0 104 0 1000 January 0 0 0 0 104 0 February 0 0 0 0 104 0 March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 0	October	0	0	0	0	0	104	0	124
December 0 0 0 0 0 104 0 Year 0 0 0 0 0 104 0 0000 January 0 0 0 0 104 0 February 0 0 0 0 104 0 March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 December 0 0 0	November	0	0	0	0	0	104	0	124
Year 0 0 0 0 104 0 000 January 0 0 0 0 104 0 February 0 0 0 0 104 0 March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104		0	0	0	0	0	104	0	124
February 0 0 0 0 104 0 March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0		0	0	0	0	0	104	0	124
February 0 0 0 0 104 0 March 0 0 0 0 0 104 0 April 0 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0									
February 0 0 0 0 104 0 March 0 0 0 0 104 0 April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0									124
April 0 0 0 0 104 0 May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0	February							-	124
April 0 0 0 0 104 0 May 0 0 0 0 0 104 0 June 0 0 0 0 0 104 0 July 0 0 0 0 0 104 0 August 0 0 0 0 0 104 0 September 0 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0	March	0	0	0	0	0	104	0	124
May 0 0 0 0 104 0 June 0 0 0 0 104 0 July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0		0	0	0	0	0	104	0	124
June 0 0 0 0 104 0 July 0 0 0 0 0 104 0 August 0 0 0 0 0 104 0 September 0 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0		0	0	0	0	0	104	0	124
July 0 0 0 0 104 0 August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0					-			-	124
August 0 0 0 0 104 0 September 0 0 0 0 104 0 October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0					-				124
September					-				124
October 0 0 0 0 104 0 November 0 0 0 0 104 0 December 0 0 0 0 104 0					-				124
November 0 0 0 0 0 104 0 December 0 0 0 0 0 104 0					-				
December 0 0 0 0 0 104 0					-			-	124
					-				124
									124
Year 0 0 0 0 0 104 0	Year	0	0	0	0	0	104	0	124

^a Placement of an order by a utility or government agency for a nuclear

Note: This table covers all units that contributed power to the commercial grid whether or not they were owned by an electric utility. See Note 1 at end of section for additional information.

Sources: See end of section.

steam supply system.

b Issuance by regulatory authority of a permit, or equivalent permission, to begin construction. Numbers reflect permits issued in a given year, not extant

^c Issuance by regulatory authority of license, or equivalent permission, to

conduct testing but not to operate at full power.

d Issuance by regulatory authority of full-power operating license, or equivalent permission. Units generally did not begin immediate operation. See Note 1 at end of section.

 $^{^{\}rm e}$ Ceased operating permanently, irrespective of intent. $^{\rm f}$ Total of units holding full-power licenses, or equivalent permission to

operate, at the end of the period. See Note 1 at end of section.

g Cancellation by utilities of ordered units. Does not include three units (Bellefonte 1 and 2 and Watts Bar 2) where construction has been stopped indefinitely.

Nuclear Energy Notes

1. In 1998 EIA undertook a major revision of the data categories in Table 8.2 to make them more relevant to current conditions and trends in the U.S. commercial nuclear electric power industry. To acquire the data for the revised categories it was necessary to develop a reactor unit database employing different sources than those used previously for Table 8.2 and still used for Table 8.1. Because of differences in definitions and tally protocols, the year-by-year tallies of operable reactors in the two databases diverge in some years, although this divergence does not change the overall trends.

The data in Table 8.2 apply to commercial nuclear power units, which means that the units contributed power to the commercial electricity grid whether or not they were owned by an electric utility. A total of 259 units ever ordered was identified. (Many of the orders were placed before 1973 and thus do not appear in the table. Annual data on orders and other characteristics from 1953 forward can be found in EIA's *Annual Energy Review 1998*, Tables 9.1 and 9.2.) Although most orders were placed by electric utilities, several units are or were ordered, owned, and operated wholly or in part by the Federal government, including BONUS (Boiling Nuclear Superheater Power Station), Elk River, Experimental Breeder Reactor 2, Hallam, Hanford N, Piqua, and Shippingport.

A reactor is generally defined as operable in Table 8.2 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 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.
- (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 treated as operable during 1989 and shut down in 1990, because counting it as operable and shut down in the same year would introduce a statistical discrepancy in the tallies. 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.

- 2. Capacity: Nuclear generating units may have more than one type of net capacity rating, including the following:
- (a) Net Summer Capability—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 capability 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.

Sources for Table 8.1

Nuclear Electricity Net Generation and Nuclear Share of Electricity Net Generation—See Tables 7.2 and 7.3. Net Summer Capability 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.

Capacity Factor—EIA, Office of Coal, Nuclear, Electric and Alternate Fuels.

Sources for Table 8.2

Orders—Energy Information Administration, Commercial Nuclear Power 1991, Appendix E, September 1991; Nuclear Energy Institute, Historical Profile of U.S. Nuclear Power Development, 1988 edition; U.S. Atomic Energy Commission, 1973 Annual Report to Congress, Volume 2, Regulatory Activities; various utilities.

Construction Permits—Nuclear Regulatory Commission, *Information Digest*, 1997 edition, Appendix A; Nuclear Energy Institute, *Historical Profile of U.S. Nuclear Power Development*, 1988 edition; various utility, Federal, and contractor officials.

Low-Power Operating Licenses—Nuclear Energy Institute, *Historical Profile of U.S. Nuclear Power Development*, 1988 edition; U.S. Department of Energy, *Nuclear Reactors Built, Being Built, and Planned:* 1995; various utility, Federal, and contractor officials.

New Operable Units—Nuclear Regulatory Commission, *Information Digest*, 1997 edition, Table 11 and Appendices A and B; various utility, Federal, and contractor officials.

Shutdowns-Energy Information Administration,

Commercial Nuclear Power 1991, Appendix E; Nuclear Regulatory Commission, Information Digest, 1997 edition, Appendix B; U.S. Department of Energy, Nuclear Reactors Built, Being Built, and Planned: 1995; Tennessee Valley Authority officials; various Nuclear Regulatory Commission documents.

Total Operable Units—Running sum of new operable units minus permanent shutdowns.

Cancellations—Energy Information Administration, Commercial Nuclear Power 1991, Appendix E, September 1991; Nuclear Regulatory Commission, Information Digest, 1997 edition, Appendix C; and Nuclear Energy Institute, Historical Profile of U.S. Nuclear Power Development, 1988 edition.

Section 9. Energy Prices

Crude Oil. The average price of domestic crude oil at the wellhead was \$24.50 per barrel in December 2000, 9 percent above the level of December 1999. The refiner acquisition cost of imported crude oil in December 2000 was \$25.19 per barrel, 3 percent above the December 1999 level. The average cost of domestic crude oil in December 2000 was \$27.90, 13 percent more than the December 1999 average.

Motor Gasoline. The national city average retail price of unleaded regular gasoline at all types of stations was \$1.47 per gallon in January 2001, 13 percent higher than the price in January 2000. The price of unleaded premium gasoline averaged \$1.66 in January 2001, 12 percent higher than the price in January 2000.

Residual Fuel Oil. The average price, excluding taxes, of residual fuel oil sold to end users in December 2000 was 62 cents per gallon, 4 percent lower than the previous month's price but 20 percent above the December 1999 average. The average resale price, excluding taxes, of residual fuel oil in December 2000 was 58 cents, 6 percent below November 2000 but 22 percent above the price 1 year earlier.

Aviation Fuel. The average price, excluding taxes, of aviation gasoline sold to end users in December 2000 was \$1.26 per gallon, 7 percent lower than the previous month's average price but 5 percent higher than the December 1999 average. The average price, excluding taxes, of kerosene-type jet fuel sold to end users in December 2000 was \$1.00 per gallon, 6 percent lower than the previous month's average price but 36 percent higher than the December 1999 average price.

No. 2 Distillate Fuel Oil. The December 2000 national average price, excluding taxes, of heating oil sold to residential customers was \$1.41 per gallon, 1 percent higher than the November 2000 price and 35 percent higher than the December 1999 price. The average price of No. 2 fuel oil sold to all end users was \$1.01 per gallon in December 2000, 5 percent lower than November 2000 but 37 percent higher than December 1999.

Electricity. The average price of electricity sold by electric utilities to all ultimate consumers in the United States in November 2000 was 6.48 cents per kilowatthour, 1 percent higher than the November 1999 mean price. The price of electricity sold to residential consumers in November 2000 averaged 8.17 cents per kilowatthour, 1 percent higher than the November 1999 price. The price of electricity sold to commercial consumers averaged 7.09 cents per kilowatthour in November 2000, 1 percent lower than the November 1999 price. The price of electricity sold to other consumers was 6.24 cents per kilowatthour, 1 percent higher than the November 1999 price. The price of electricity sold to industrial users in November 2000 averaged 4.36 cents per kilowatthour, 2 percent higher than the price 1 year earlier.

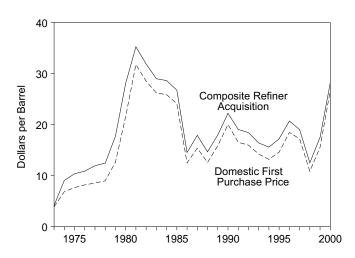
Beginning with January 1986, new series of national average price estimates were based on a statistically derived sample of both publicly and privately owned electric utilities. Previously, average price estimates were derived from selected privately owned electric utilities and were not national averages.

Natural Gas. The average wellhead price of natural gas for January 2001 was forecast as \$8.06 per thousand cubic feet, 280 percent higher than the January 2000 price.

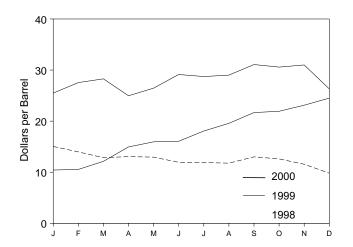
The average price of natural gas delivered to electric utility plants was \$5.21 per thousand cubic feet in October 2000 (latest date for which data are available), 84 percent higher than the October 1999 price. The average price of natural gas used by residential consumers in November 2000 was \$8.59 per thousand cubic feet, 20 percent higher than the November 1999 price. The average price of natural gas used by commercial consumers in November 2000 was \$6.99 per thousand cubic feet, 22 percent higher than the November 1999 price. The average price of natural gas used by industrial consumers in November 2000 was \$5.27 per thousand cubic feet, 50 percent above the November 1999 price.

Figure 9.1 Petroleum Prices

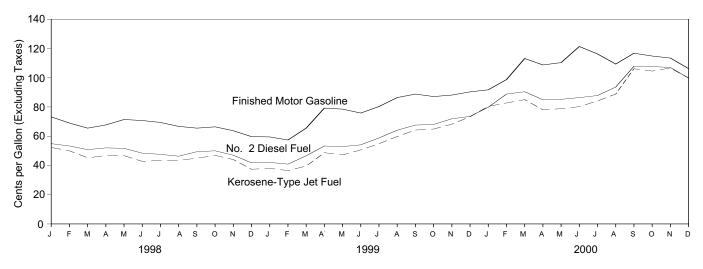
Crude Oil Prices, 1973-2000



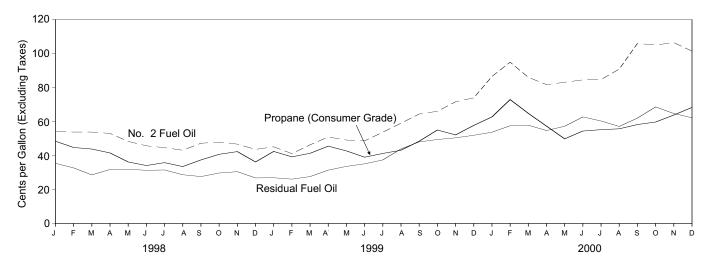
Composite Refiner Acquisition Cost, Monthly



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



Sources: Tables 9.1, 9.5, and 9.7.

Table 9.1 Crude Oil Price Summary

(Dollars per Barrel)

				Re	efiner Acquisition Co	St ^a
	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
	7.67	11.18	12.70	8.39	13.93	10.38
75 Average						
76 Average	8.19	12.15	13.32	8.84	13.48	10.89
77 Average	8.57	13.24	14.36	9.55	14.53	11.96
78 Average	9.00	13.29	14.35	10.61	14.57	12.46
79 Average	12.64	20.07	21.45	14.27	21.67	17.72
80 Average	21.59	32.37	33.67	24.23	33.89	28.07
81 Average	31.77	35.15	36.47	34.33	37.05	35.24
82 Average	28.52	32.02	33.18	31.22	33.55	31.87
83 Average	26.19	27.81	28.93	28.87	29.30	28.99
84 Average	25.88	27.60	28.54	28.53	28.88	28.63
85 Average	24.09	25.84	26.67	26.66	26.99	26.75
86 Average	12.51	12.52	13.49	14.82	14.00	14.55
	15.40	16.69	17.65	17.76	18.13	17.90
87 Average						
88 Average	12.58	13.25	14.08	14.74	14.56	14.67
89 Average	15.86	16.89	17.68	17.87	18.08	17.97
90 Average	20.03	20.37	21.13	22.59	21.76	22.22
91 Average	16.54	16.89	18.02	19.33	18.70	19.06
92 Average	15.99	16.77	17.75	18.63	18.20	18.43
93 Average	14.25	14.71	15.72	16.67	16.14	16.41
94 Average	13.19	14.18	15.18	15.67	15.51	15.59
95 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 January	13.45	12.78	14.12	15.85	14.33	15.04
February	12.17	11.69	13.08	14.74	13.32	13.98
March	11.15	11.08	12.40	13.48	12.34	12.84
April	11.28	11.17	12.33	13.42	12.81	13.06
May	11.13	11.33	12.26	13.42	12.61	12.95
June	10.00	10.12	11.25	12.38	11.61	11.94
July	10.44	10.37	11.41	12.36	11.55	11.90
August	10.20	10.21	11.32	12.44	11.34	11.77
September	11.29	11.70	12.44	13.35	12.77	13.01
October	11.32	10.99	11.96	13.39	12.11	12.61
November	9.64	9.37	10.47	12.47	10.99	11.56
December	8.03	8.18	9.30	10.48	9.39	9.81
Average	10.87	10.76	11.84	13.18	12.04	12.52
99 January February	8.57 8.60	9.17 9.34	10.18 10.59	10.89 10.92	10.16 10.33	10.43 10.55
March	10.76	11.83	12.90	12.19	12.10	12.13
April	12.82	14.14	15.05	15.17	14.82	14.95
Mav	13.92	14.14	15.50	16.55	15.57	15.95
- 7						
June	14.39	15.13	16.08	16.30	15.91	16.06
July	16.12	17.30	18.13	18.10	18.05	18.07
August	17.58	19.10	19.75	19.57	19.56	19.57
September	20.03	21.04	21.70	21.75	21.64	21.68
October	19.71	20.89	21.78	22.40	21.62	21.93
November	21.35	22.46	23.06	23.08	23.14	23.12
December	22.55	22.91	23.83	24.73	24.35	24.51
Average	15.56	16.47	17.23	17.90	17.26	17.51
00 January	23.53	24.56	25.60	25.79	25.29	25.49
February	25.48	26.54	27.15	27.80	27.39	27.55
March	26.19	25.77	27.22	29.25	27.70	28.28
April	23.19	23.41	24.74	26.07	24.29	24.97
May	25.46	25.95	26.69	26.62	26.35	26.46
June	27.88	27.71	28.71	29.46	28.91	29.13
July	26.83	26.53	28.29	29.91	28.02	28.73
August	28.13	27.89	29.02	29.36	28.80	29.01
September	29.71	28.82	30.49	31.95	30.52	31.08
		R 27.70	R 29.51			
October	29.63 R 20.20			32.03	29.69 R 20.00	30.58
November	R 30.30	R 27.37	R 28.92	R 32.43	R 30.00	R 31.00
December	24.50	22.41	24.51	27.90	25.19	26.31
Average	26.73	26.28	27.58	29.06	27.69	28.23

R=Revised. E=Estimate.

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. Sources: See 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.

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

(Dollars per Barrel)

			S	elected Cou	ntries			5		
	Angola	Colombia	Mexico	Nigeria	Saudi Arabia	United Kingdom	Venezuela	Persian Gulf Nations ^a	Total OPEC ^b	Total Non-OPEC
1973 Average ^c	w	w	NA	7.81	3.25	NA	5.39	3.68	5.43	4.80
1974 Average	11.87	W	W	12.44	10.17	NA	10.71	10.60	11.33	9.59
1975 Average	10.97	(d)	11.44	11.82	10.87	NA	11.04	10.88	11.34	10.62
1976 Average	12.02	(d)	12.22	13.08	11.62	W	11.39	11.65	12.23	11.70
1977 Average	13.29	(d)	13.42	14.44	12.38	14.11	12.63	12.56	13.29	12.97
1978 Average	13.32 19.85	{ d }	13.24 20.27	14.05 21.69	12.70 17.28	13.82 21.70	12.38 16.90	12.77	13.31	13.23 20.92
1979 Average	33.45	w	20.27 31.06	35.93	28.17	34.36	24.81	18.77 28.92	19.88 32.21	20.92 32.85
1980 Average1981 Average	35.55	(d)	33.01	38.31	32.60	36.06	28.95	33.00	35.17	35.12
1982 Average	31.86	}d{	28.08	35.13	33.73	33.42	23.74	33.55	33.48	30.58
1983 Average	28.14	(dí	25.20	29.81	27.53	29.91	21.48	27.70	28.46	27.20
1984 Average	27.46	(dí	26.39	29.51	27.67	28.87	24.23	27.48	27.79	27.45
1985 Average	26.30	(d)	25.33	28.04	22.04	27.64	23.64	23.31	25.67	25.96
1986 Average	13.30	12.34	11.84	14.35	11.36	13.84	10.92	11.35	12.21	12.87
1987 Average	17.27	17.84	16.36	18.47	15.12	18.28	15.08	15.97	16.43	16.99
1988 Average	13.70	13.61	12.18	15.16	12.16	14.80	12.96	12.38	13.43	13.05
1989 Average	17.66	17.89	15.96	18.31	16.29	17.89	16.09	16.61	17.06	16.72
1990 Average	20.23	20.75	19.26	22.46	20.36	23.43	19.55	18.54	20.40	20.32
1991 Average	18.47	18.49	15.37	20.29	14.62	20.81	14.91	15.22	16.99	16.77
1992 Average	18.41	18.02	15.26	19.98	15.85	19.61	14.39	16.35	16.87	16.66
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 W	15.66	12.21 13.86	13.97 W	14.00	14.34 16.02
1995 Average 1996 Average	16.58 20.71	16.73 21.33	15.64 19.14	17.40 21.27	19.28	16.94 19.43	17.73	19.22	15.36 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 January	14.52	15.36	12.08	15.21	W	W	11.26	W	12.26	13.14
February	13.13	14.27	11.47	13.77	W	W	10.24	W	11.35	12.10
March	12.53	13.10	9.77	13.56	W	W	9.70	W	10.93	11.22
April	12.93	13.48	11.01	13.86	W	W	10.32	7.80	10.58	11.63
May	13.85	13.08	11.25	14.13	7.62	W	9.78	7.86	10.58	11.97
June	11.82	11.85	9.96	11.57	8.25	W	9.16	8.50	9.73	10.44
July	11.14	12.24	10.44	11.77	9.06	W	8.99	8.95	9.76	10.83
August	11.37	12.12	9.87	12.23	9.77	11.13	8.54	9.68	9.69	10.60
September October	12.59 11.67	13.20 13.37	11.13 11.05	13.92 12.58	W 10.19	W W	10.52 9.43	W 10.19	11.35 10.22	11.95 11.66
November	10.82	11.29	9.71	10.64	9.07	10.85	6.62	8.76	8.03	10.32
December	9.33	9.58	7.82	10.29	7.69	W	6.51	7.57	7.52	8.69
Average	12.11	12.56	10.49	12.97	8.87	12.52	9.31	9.09	10.20	11.21
1999 January	10.75	10.96	8.67	10.78	9.36	(^d)	6.33	8.97	8.26	9.81
February	10.16	10.47	8.52	10.50	11.59	W	7.06	11.18	8.93	9.57
March	11.92	13.33	10.92	13.67	13.26	W	10.70	12.97	12.04	11.69
April	15.06	15.95	13.77	16.12	W	W 45.20	12.53	13.64	13.68	14.51
May	14.88 15.56	15.87 16.43	14.05 14.40	15.46 16.50	W W	15.39 16.03	12.26 13.82	15.11 16.61	13.99 15.11	14.75 15.13
June July	19.10	18.27	16.99	18.81	W	16.96	15.80	17.41	16.93	17.55
August	20.31	19.88	18.74	20.69	w	19.79	17.55	19.00	18.73	19.32
September	22.48	23.12	20.52	22.68	20.64	21.97	19.18	20.21	20.29	21.57
October	21.65	22.39	20.08	22.19	22.15	20.65	18.82	21.60	20.56	21.07
November	24.90	24.95	21.94	W	22.33	22.62	19.84	22.43	21.71	22.96
December	24.73	25.89	22.42	W	23.57	24.89	20.21	23.05	21.86	23.50
Average	17.46	17.20	15.89	17.32	17.65	19.14	14.33	17.15	15.90	16.84
2000 January	25.99	27.12	23.31	W	25.49	24.47	23.36	25.33	24.44	24.64
February	27.71	29.56	26.25	29.07	23.72	26.22	25.02	24.47	25.96	26.98
March	28.29	29.43	25.48	27.39	23.40	27.76	24.21	23.00	24.30	26.79
April May	22.72 28.36	25.40 26.50	21.95 25.27	24.34 28.85	28.28 24.31	23.62 25.91	22.73 25.12	25.46 24.53	23.89 25.71	23.10 26.07
June	29.15	29.98	26.85	30.04	24.82	29.09	26.26	24.53	26.84	28.22
July	28.48	27.50	24.89	28.93	26.84	26.92	23.29	26.24	25.77	27.13
August	30.40	30.47	26.66	31.06	26.41	26.41	26.45	26.66	27.74	28.01
September	30.16	32.66	28.00	30.54	27.81	29.91	26.04	26.87	27.80	29.63
October	29.13	32.36	R 27.29	R 30.71	R 23.61	W	R 26.63	R 24.27	R 26.71	R 28.50
November	R 30.27	R 32.24	R 27.07	31.92	R 20.57	30.91	R 24.08	R 21.86	R 25.27	R 28.80
December	26.43	25.08	21.44	27.87	20.76	24.82	20.35	20.57	21.31	23.13
Average	28.14	29.03	25.39	28.95	24.41	27.07	24.48	24.60	25.58	26.78

 $^{^{\}rm a}$ Bahrain, Iran, Iraq, Kuwait, Qatar, Saudi Arabia, and United Arab Emirates.

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,

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 withdrew at the end of 1992 and Gabon withdrew at the end of 1994.

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

d 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

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.

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 1974 Average 1975 Average	W 12.48 11.81	5.33 11.48 12.84	W W	NA W 12.61	9.08 13.16 12.70	5.37 11.63 12.50	NA NA NA	5.99 11.25 12.36	5.91 12.21 12.64	6.85 12.49 12.70	5.64 11.81 12.70
1976 Average	12.71	13.36	(d)	12.64	13.81	13.06	W	11.89	13.03	13.32	13.35
1977 Average	14.04	14.13	(d)	13.82	15.29	13.69	14.83	13.11	13.85	14.35 14.34	14.42
1978 Average 1979 Average	14.07 21.06	14.41 20.22	(d)	13.56 20.77	14.88 22.97	13.94 18.95	14.53 22.97	12.84 17.65	14.01 20.42	21.29	14.38 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 1983 Average	33.08 29.31	27.15 25.63	(28.63 25.78	36.16 30.85	34.99 29.27	34.25 30.87	24.93 22.94	34.94 29.37	34.81 29.84	31.47 28.08
984 Average	28.49	26.56	}d{	26.85	30.36	29.20	29.45	25.19	29.07	29.06	28.14
985 Average	27.39	25.71	(d)	25.63	28.96	24.72	28.36	24.43	25.50	26.86	26.53
986 Average	14.09	13.43	12.85	12.17	15.29	12.84	14.63	11.52	12.92	13.46	13.52
987 Average	18.20 14.48	17.04 13.50	18.43 14.47	16.69 12.58	19.32 15.88	16.81 13.37	18.78 15.82	15.76 13.66	17.47 13.51	17.64 14.18	17.66 13.96
989 Average	18.36	16.81	18.10	16.35	19.19	17.34	18.74	16.78	17.37	17.78	17.54
990 Average	21.51	20.48	22.34	19.64	23.33	21.82	22.65	20.31	20.55	21.23	20.98
991 Average	19.90	17.16	19.55	15.89	21.39	17.22	21.37	15.92	17.34	18.08	17.93
992 Average993 Average	19.36 17.40	17.04 15.27	18.46 16.54	15.60 14.11	20.78 18.73	17.48 15.40	20.63 17.92	15.13 13.39	17.58 15.26	17.81 15.68	17.67 15.78
994 Average	16.36	14.83	15.80	14.09	17.21	15.11	16.64	13.12	15.20	15.08	15.29
995 Average	17.66	16.65	17.45	16.19	18.25	16.84	17.91	14.81	16.78	16.61	16.95
996 Average	21.86	19.94	22.02	19.64	21.95	20.49	20.88	18.59	20.45	20.14	20.47
997 Average	20.24	17.63	19.71	17.30	20.64	17.52	20.64	16.35	17.44	17.73	18.45
1998 January	16.15	13.25	16.39	12.67	16.98	13.41	W	12.26	13.48	13.89	14.30
February	14.57	12.18	15.37	12.11	15.30	13.05	15.63	11.17	13.01	12.93	13.24
March April	14.06 14.16	11.58 11.58	13.84 14.07	10.37 11.37	14.71 14.67	12.31 11.45	14.82 15.19	10.66 11.23	12.40 11.63	12.45 12.04	12.36 12.58
May	15.16	11.47	13.53	11.48	14.91	10.83	14.52	10.64	10.85	11.75	12.73
June	12.98	10.73	12.45	10.52	13.31	10.66	12.58	9.93	10.64	11.07	11.41
July	12.44	11.28	12.73	10.95	12.88	11.02	W	9.78	10.94	11.06	11.74
August September	12.65 13.59	11.16 12.75	12.84 13.79	10.34 11.60	13.20 14.60	11.29 11.71	12.89 13.43	9.33 11.12	11.22 11.76	11.06 12.07	11.61 12.83
October	12.87	12.73	13.79	11.58	13.97	10.64	13.43	10.32	11.70	11.34	12.63
November	11.88	10.97	11.81	10.22	12.03	9.81	12.96	7.83	10.04	9.73	11.20
December	10.48	9.90	10.05	8.31	11.21	8.94	10.89	7.63	9.00	8.87	9.77
Average	13.37	11.62	13.26	11.04	14.14	11.16	13.55	10.16	11.18	11.46	12.22
999 January	11.77	10.66	11.49	9.27	11.32	10.17	11.34	7.93	10.08	9.75	10.66
February March	11.33 13.42	10.97 12.81	11.15 13.83	8.86 11.20	11.21 13.98	11.98 14.17	11.47 11.76	8.16 11.57	11.53 13.77	10.72 13.22	10.46 12.53
April	16.06	15.20	16.62	14.26	15.72	15.33	15.17	13.79	15.16	14.89	15.23
May	16.25	15.84	16.30	14.45	16.27	16.32	16.18	13.62	15.98	15.40	15.61
June	16.66	15.68	16.67	14.71	16.80	17.38	16.67	14.90	16.98	16.32	15.87
July	20.01 21.26	17.80 19.22	18.78 20.43	17.32 19.10	19.16	18.90 19.82	18.00 20.12	16.96 18.55	18.33 19.84	18.09 19.69	18.17 19.80
August September	22.82	21.63	23.10	21.05	20.84 23.01	21.40	22.81	20.45	21.19	21.28	22.11
October	22.52	21.91	22.84	20.42	23.30	22.44	22.06	19.95	21.99	21.67	21.88
November	25.71	22.06	24.95	22.28	25.02	22.99	23.64	21.09	22.99	22.76	23.29
December Average	25.53 18.37	23.32 17.54	26.08 18.09	22.78 16.12	26.92 17.63	24.20 17.48	25.89 18.26	21.95 15.58	24.00 17.37	23.65 16.94	23.99 17.51
_											
2000 January	27.21 28.77	24.63 26.14	27.39 29.74	23.77 26.52	26.99 29.05	26.77 25.81	25.86 27.48	24.31 25.96	26.46 26.30	25.85 26.85	25.36 27.45
February March	29.47	27.35	29.74	26.32	29.03	25.70	28.99	25.85	26.09	26.74	27.43
April	24.50	24.97	26.34	22.57	25.78	25.76	25.60	23.72	25.19	24.95	24.51
May	29.43	25.27	27.40	25.66	27.93	26.50	26.79	26.19	26.53	26.81	26.60
June	30.79	28.18	30.60	27.57	31.06	27.25	30.61	27.81	27.20	28.30	29.11
July August	30.74 32.41	27.98 28.09	29.40 30.34	25.75 27.25	31.14 31.59	27.81 28.29	30.57 29.27	25.21 28.16	27.68 28.11	27.96 28.98	28.69 29.06
September	32.46	29.94	33.84	28.94	32.63	30.03	31.97	28.33	29.77	30.13	30.87
October	31.87	28.32	_ 33.68	R 28.10	R 33.10	R 27.47	30.82	R 28.54	R 27.97	R 29.06	R 30.03
November	R 32.80	26.91	R 33.36	^R 27.76	R 34.02	R 25.91	32.93	R 26.34	R 26.95	R 28.13	R 29.74
December Average	28.90 29.79	23.43 26.71	27.85 29.67	21.89 26.04	30.88 30.28	23.85 26.64	29.25 29.16	22.61 26.07	24.21 26.83	24.50 27.37	24.52 27.80
Average	23.13	20.71	29.01	20.04	30.20	20.04	29.10	20.07	20.03	21.31	21.00

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

Notes: See Note 3 at end of section. Values for the current 2 months be preliminary. Prices through 1980 reflect the period of reporting; prices are preliminary. 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.
Sources: October 1973-September 1977: Federal Administration, Form FEA-F701-M-0, "Transfer Pricing Energy Report. October 1977-December 1977: Energy Information Administration (EIA), Form FEA-F701-M-0, "Transfer Pricing Report." 1978 forward: EIA, Petroleum Marketing Monthly, March 2001, Table 25.

Emirates.

^b Current members are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, United Arab Emirates, and Venezuela.

Ecuador withdrew at the end of 1992 and Gabon withdrew at the end of 1994.

^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.

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

	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
978 Average	62.6	67.0	NA	65.2
979 Average	85.7	90.3	NA.	88.2
980 Average	119.1	124.5	NA	122.1
			^c 147.0	
981 Average ^b	131.1	137.8		135.3
982 Average	122.2	129.6	141.5	128.1
983 Average	115.7	124.1	138.3	122.5
984 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
991 Average	NA	114.0	132.1	119.6
992 Average	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	123.4	141.6	129.1
998 Average	NA	105.9	125.0	111.5
999 January	NA	97.2	117.1	103.1
	NA NA	95.5	115.5	101.4
February				
March	NA	99.1	118.6	104.8
April	NA	117.7	136.7	123.2
May	NA	117.8	137.0	123.3
June	NA	114.8	133.9	120.4
July	NA	118.9	137.8	124.4
August	NA	125.5	144.1	130.9
September	NA	128.0	146.8	133.4
October	NA NA	127.4	146.4	132.9
November	NA NA	126.4	145.4	131.9
December	NA	129.8	148.6	135.3
Average	NA	116.5	135.7	122.1
000 January	NA	130.1	148.6	135.6
February	NA	136.9	155.1	142.2
March	NA NA	154.1	172.3	159.4
April	NA	150.6	169.8	156.1
May	NA	149.8	168.2	155.2
June	NA	161.7	178.6	166.6
July	NA	159.3	177.3	164.2
August	NA	151.0	168.9	155.9
September	NA	158.2	176.4	163.5
October	NA	155.9	174.4	161.3
November	NA	155.5	173.8	160.8
December	NA	148.9	167.9	154.4
Average	NA	151.0	169.3	156.3
001 January	NA	147.2	165.7	152.5

NA=Not available.

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

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

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.

Also includes types of motor gasoline not shown separately.
 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 proprocessing in weighted more benefit. premium is weighted more heavily.

^c Based on September through December data only.

Table 9.5 Refiner Prices of Residual Fuel Oil

	Sulfur Co	al Fuel Oil ontent Less al to 1 Percent	Sulfur	al Fuel Oil Content an 1 Percent	Ave	erage
	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users	Sales for Resale	Sales to End Users
1978 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
985 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
989 Average	40.7	43.6	33.1	34.4	36.0	38.5
990 Average	47.2	50.5	37.2	40.0	41.3	44.4
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
995 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 January	35.2	44.7	28.9	32.6	31.1	35.4
February	30.7	39.6	26.7	30.6	28.3	32.7
March	29.4	35.6	24.1	26.0	26.4	28.6
April	32.9	35.9	28.7	30.5	30.3	31.8
May	31.9	37.6	28.3	30.1	29.5	31.9
June	29.3	36.1	27.0	29.6	27.9	31.3
July	30.7	35.1	28.7	30.0	29.6	31.5
August	26.9	32.3	26.1	27.4	26.5	28.7
September	29.9	32.4	27.0	26.0	27.9	27.6
October	31.0	33.6	27.0	28.1	28.2	29.7
November	27.3	33.6	25.1	28.9	26.0	30.5
December	24.0	31.9	23.0	24.5	23.3	26.8
Average	29.9	35.4	26.9	28.7	28.0	30.5
999 January	27.5	32.4	23.9	25.2	25.6	26.9
February	21.8	30.6	21.9	24.5	21.9	26.1
March	27.2	31.4	24.0	26.2	25.1	27.6
April	30.9	32.9	30.0	30.8	30.4	31.4
May	34.6	36.6	29.5	32.0	32.5	33.6
June	35.0	37.5	31.2	34.0	32.6	35.1
July	38.6	40.9	34.5	35.7	36.1	37.4
August	44.8	45.7	40.1	43.1	42.7	43.9
September	49.8	47.1	43.6	48.2	46.7	48.0
October	47.3	52.5	43.1	48.4	44.8	49.4
November	48.5	54.4	44.2	49.1	46.8	50.4
December	50.3	56.9	44.0	49.9	47.2	51.9
Average	38.2	40.5	32.9	36.2	35.4	37.4
000 January	57.2	64.5	44.3	49.3	49.2	53.7
February	61.1	67.3	48.6	53.6	54.6	57.5
March	53.2	66.5	50.4	55.9	51.7	57.8
April	52.3	65.1	44.3	52.5	47.9	54.7
May	58.9	63.2	51.4	54.8	54.5	57.2
June	65.8	70.2	54.3	59.7	59.6	62.7
July	65.1	69.7	50.8	57.5	58.2	60.3
August	61.5	67.0	46.7	53.6	53.9	57.1
September	71.9	75.8	58.6	59.2	64.5	62.0
October	73.7	76.8	57.3	65.4	63.8	68.6
November	71.3	77.1	^R 52.8	59.2	61.3	64.7
December	66.8	76.4	49.3	56.2	57.8	62.2
Average	63.0	70.4	50.8	56.3	56.4	60.0
Average	03.0	70.4	30.0	50.5	JU.4	00.0

R=Revised.

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.

Source: EIA, Petroleum Marketing Monthly, March 2001, Table 19.

Table 9.6 Refiner Prices of Petroleum Products for Resale

	Finished Motor	Finished Aviation	Kerosene- Type		No. 2 Fuel	No. 2 Diesel	Propane (Consumer
	Gasolinea	Gasoline	Jet Fuel	Kerosene	Oil	Fuel	Grade)
1978 Average	43.4	53.7	38.6	40.4	36.9	36.5	23.7
1979 Average	63.7	72.1	66.0	62.4	56.9	57.4	29.1
1980 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
	70.0	106.5	61.3	65.3	59.0	60.6	41.6
997 Average	70.0	100.5	01.3	05.5	59.0	00.0	41.0
998 January	57.6	96.2	52.9	52.8	48.9	49.6	35.4
February	55.1	92.1	50.3	51.6	47.7	48.3	33.1
March	52.3	88.4	45.9	47.5	44.9	45.9	31.1
April	54.9	92.8	46.7	46.1	44.9	48.2	30.3
May	57.9	97.3	47.0	45.6	43.3	47.0	29.3
June	55.7	94.1	43.2	43.0	39.9	43.5	26.7
July	54.3	93.4	43.4	41.7	38.8	42.6	25.7
August	50.6	91.6	42.9	40.7	36.9	41.4	25.7
September	50.9	89.8	44.6	45.9	41.8	45.6	26.3
October	52.4	90.7	45.9	46.6	41.2	45.5	27.6
November	47.8	83.6	42.9	44.2	38.9	41.4	27.7
December	42.6	79.8	36.3	38.7	34.6	35.4	25.7
Average	52.6	91.2	45.0	46.5	42.2	44.4	28.8
999 January	44.5	81.2	37.3	42.0	36.3	36.2	26.5
February	42.9	79.2	35.2	37.8	33.1	35.1	26.1
March	52.1	86.3	39.5	43.7	39.8	43.2	26.8
April	62.8	98.9	46.6	47.3	44.7	48.8	28.7
May	62.1	99.2	46.8	43.8	43.8	47.9	29.1
June	61.5	94.8	48.6	45.4	44.7	50.4	29.1
July	68.6	103.6	53.7	53.0	51.2	56.4	34.7
August	74.1	107.6	59.1	59.6	56.2	61.6	38.3
September	75.9	111.7	62.7	66.0	60.9	64.9	42.6
October	72.4	109.3	63.8	64.7	61.0	65.0	43.7
November	75.2	108.1	66.5	72.8	66.2	69.9	42.6
	76.0	110.2	72.1	76.5	67.8	70.5	41.8
December							
Average	64.5	100.7	53.3	55.0	49.3	54.6	34.2
000 January	78.6	111.4	79.8	94.3	82.8	77.4	49.2
February	88.2	118.9	83.6	103.0	91.8	85.2	60.3
March	98.7	130.6	83.6	83.7	79.6	85.2	52.8
April	88.3	124.8	77.7	77.3	76.4	79.9	48.8
May	97.7	130.1	78.0	79.0	78.4	81.6	49.4
June	109.2	142.1	79.9	80.4	80.3	82.5	53.8
July	99.1	139.3	83.6	83.1	81.0	83.5	54.9
August	96.8	133.8	88.0	89.8	88.3	92.1	60.2
September	104.7	142.5	105.2	107.7	100.9	105.0	66.0
October	102.1	138.1	104.5	108.2	98.8	104.0	64.3
November	100.1	R 137.6	105.1	R 113.0	100.4	103.2	R 63.3
December	87.9	128.8	99.3	105.8	94.3	93.8	76.7
Average	96.2	132.8	87.9	95.6	88.3	89.8	59.5

^a See Note 5 at end of section.

R=Revised.

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.

Source: EIA, Petroleum Marketing Monthly, March 2001, Table 4.

Table 9.7 Refiner Prices of Petroleum Products to End Users

	Finished Motor Gasoline ^a	Finished Aviation Gasoline	Kerosene- Type Jet Fuel	Kerosene	No. 2 Fuel Oil	No. 2 Diesel Fuel	Propane (Consumer Grade)
						1	
1978 Average	48.4	51.6	38.7	42.1	40.0	37.7	33.5
1979 Average	71.3	68.9	54.7	58.5	51.6	58.5	35.7
1980 Average	103.5	108.4	86.8	90.2	78.8	81.8	48.2
1981 Average	114.7	130.3	102.4	112.3	91.4	99.5	56.5 50.3
1982 Average	106.0 95.4	131.2 125.5	96.3 87.8	108.9 96.1	90.5 91.6	94.2 82.6	59.2 70.9
1983 Average 1984 Average	90.7	123.4	84.2	103.6	91.6	82.3	73.7
1985 Average	91.2	120.1	79.6	103.0	84.9	78.9	71.7
1986 Average	62.4	101.1	52.9	79.0	56.0	47.8	74.5
1987 Average	66.9	90.7	54.3	77.0	58.1	55.1	70.1
1988 Average	67.3	89.1	51.3	73.8	54.4	50.0	71.4
1989 Average	75.6	99.5	59.2	70.9	58.7	58.5	61.5
1990 Average	88.3	112.0	76.6	92.3	73.4	72.5	74.5
1991 Average	79.7	104.7	65.2	83.8	66.5	64.8	73.0
1992 Average	78.7	102.7	61.0	78.8	62.7	61.9	64.3
1993 Average	75.9	99.0	58.0	75.4	60.2	60.2	67.3
1994 Average	73.8	95.7	53.4	66.0	57.2	55.4	53.0
1995 Average	76.5	100.5	54.0	58.9	56.2	56.0	49.2
1996 Average	84.7	111.6	65.1	74.0	67.3	68.1	60.5
1997 Average	83.9	112.8	61.3	74.5	63.6	64.2	55.2
1998 January	73.2	104.3	52.3	71.8	54.1	54.9	48.4
February	69.0	100.8	50.0	68.2	53.8	53.3	44.7
March	65.5	98.4	45.3	65.3	53.8	50.8	43.8
April	67.7	99.3	46.6	56.7	53.0	52.0	41.5
May	71.4	101.1	46.7	56.0	48.3	51.7	36.2
June	70.7	99.1	42.8	44.7	45.7	48.4	34.1
July	69.4	98.5	43.4	47.4	44.6	47.6	35.8
August	66.7 65.5	95.9 94.1	43.6 44.9	41.5 46.2	43.1 47.2	46.3 49.4	33.5 37.4
September October	66.4	94.1 95.1	44.9 46.9	50.9	47.2 47.9	49.4 50.0	37.4 40.7
November	63.7	93.3	44.0	44.4	46.7	47.0	42.3
December	59.7	88.7	37.4	42.4	43.6	41.8	36.2
Average	67.3	97.5	45.2	50.1	48.2	49.4	40.5
1999 January	59.5	87.1	38.0	51.5	45.1	42.1	42.4
February	57.4	85.1	36.5	49.9	41.1	40.9	39.2
March	65.5	90.1	39.6	53.6	46.3	46.6	41.3
April	79.2	101.4	48.7	51.4	50.9	53.3	45.5
May	78.5	104.2	47.2	53.7	49.1	52.9	42.7
June	75.8	104.1	50.6	50.4	48.6	54.1	39.0
July	80.3	107.9	54.9	60.4	53.7	58.8	41.2
August	86.4	113.2	59.8	63.9	59.0	64.1	43.1
September	88.8	115.4	64.2	70.4	64.4	67.6	48.4
October November	87.1 88.1	117.6 116.4	64.9 68.2	79.2 84.8	66.0 71.6	68.0 71.9	55.0 52.1
December	90.3	119.6	73.3	89.1	73.9	71.9	57.7
Average	78.1	105.9	54.3	60.5	55.8	58.4	45.8
2000 January	91.7	119.6	80.4	106.6	86.5	79.8	62.7
2000 January	98.7		82.7	126.2	94.9	79.6 88.8	72.9
February March	96.7 113.1	123.8 133.8	85.0	126.2	94.9 86.0	90.4	72.9 64.8
April	108.7	130.7	78.0	99.6	81.7	84.9	NA
May	110.3	133.6	78.8	86.8	83.1	85.2	49.8
June	121.3	140.8	80.2	88.4	84.5	86.4	54.4
July	116.2	142.1	84.1	90.1	84.7	87.8	55.2
August	109.3	NA	88.8	96.5	90.8	93.6	55.7
September	116.7	138.2	106.1	116.2	105.9	107.8	58.2
October	114.8	134.9	104.5	116.0	105.0	107.6	59.7
November	113.4	134.9	106.6	R 122.9	106.4	107.0	63.8
December	106.2	126.0	99.8	122.7	101.4	99.7	68.3
Average	110.3	132.9	89.8	111.4	92.7	93.5	60.3

^a See Note 5 at end of section.

R=Revised. NA=Not available.

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

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

Source: EIA, Petroleum Marketing Monthly, March 2001, Table 2.

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

	Maine	New Hampshire	Vermont	Massachusetts	Rhode Island	Connecticut	New York	New Jersey	Pennsylvania
1978 Average	48.6	50.3	50.8	48.8	50.7	50.1	50.1	49.6	48.8
1979 Average	68.8	72.5	72.5	70.9	72.8	72.0	71.2	71.0	69.8
1980 Average	96.3	100.4	101.5	97.8	101.1	98.3	98.2	97.9	96.4
	120.4	123.7	125.4	121.3	123.8	121.7	123.2	121.5	118.1
981 Average									
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
	81.8	79.2	87.6	87.0	88.5	89.0	96.6	89.5	85.7
994 Average									
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
998 January	88.0	86.6	92.5	88.8	93.3	90.7	101.4	96.5	89.2
February	85.1	86.7	91.6	87.7	92.6	90.1	101.0	95.8	88.5
March	82.3	84.1	92.1	86.7	90.1	88.0	98.3	92.9	86.2
April	81.6	81.3	89.1	83.5	88.9	85.8	97.1	91.7	84.0
May	80.3	79.4	86.7	81.9	87.2	83.2	95.0	89.6	82.1
June	78.6	75.6	84.3	78.5	84.4	78.1	92.2	83.9	75.7
July	76.0	70.5	81.4	76.2	83.3	74.4	89.0	79.0	70.1
August	74.3	68.5	80.9	74.0	78.6	71.4	83.7	77.1	69.9
September	74.4	70.8	80.5	74.2	78.8	72.4	85.2	80.3	71.7
October	74.1	71.1	82.4	75.3	81.7	75.5	88.0	82.3	74.1
November	73.3	72.3	82.0	74.7	80.4	77.0	89.3	83.5	76.6
December	70.9	71.4	81.7	74.3	79.9	77.1	88.5	82.6	76.0
Average	78.8	78.8	87.3	81.8	86.8	83.1	94.8	89.2	81.4
999 January	72.0	70.8	80.6	76.1	79.9	78.6	90.3	83.5	77.8
February	71.6	70.4	79.7	75.6	79.4	77.3	89.6	83.4	77.3
March	74.3	70.4	79.5	76.1	79.3	77.9	90.6	83.6	77.3
April	79.3	70.2	80.4	76.9	79.2	79.6	94.2	88.6	75.4
May	79.2	69.0	79.8	77.6	79.5	76.7	95.6	87.0	75.0
June	77.5	68.5	78.5	76.1	78.2	74.6	96.2	84.4	73.3
July	79.9	69.7	80.1	77.6	79.0	77.3	95.5	86.1	72.8
August	83.1	74.5	82.4	80.4	81.2	79.5	NA	88.0	73.9
September	89.0	82.0	88.2	86.1	90.6	85.2	98.6	94.9	81.1
October	91.4	87.8	92.4	91.0	93.0	90.9	105.6	100.8	86.0
November	97.2	92.0	95.7	96.5	96.8	95.8	111.0	105.7	91.3
December	100.4	99.0	99.6	100.0	101.6	100.9	114.7	111.8	95.4
Average	81.3	77.0	85.4	83.6	85.8	85.2	96.9	91.3	81.5
000 January	127.1	120.9	117.0	123.7	118.7	124.6	142.0	134.8	117.6
February	140.5	140.3	133.1	139.6	132.8	141.5	162.8	154.8	133.3
March	120.8	123.0	118.4	116.5	114.8	121.3	135.8	131.7	114.8
April	113.5	116.4	113.5	111.6	112.2	114.0	127.4	124.9	108.7
May	115.1	118.0	112.2	114.4	114.2	114.4	127.8	125.3	107.3
June	115.9	117.0	116.9	112.9	113.9	113.9	128.3	125.2	107.0
July	118.9	117.1	119.1	111.7	111.5	114.0	128.0	125.0	104.9
August	124.9	121.5	121.9	117.4	115.1	115.8	129.0	128.2	110.4
September	135.6	132.3	133.6	128.7	132.5	129.4	140.9	139.9	123.8
•	138.3	131.5	131.2	132.2	133.9	134.5	140.9	144.5	127.8
October		131.3 R435.0	101.Z R 400.4						
November	R 141.1	R 135.9	R 133.4	135.1	R 138.1	R 137.1	150.2	R 150.0	R 131.9
December	138.4	135.8	132.7	137.1	136.8	139.1	152.4	148.0	135.2
Average	129.8	128.1	125.4	127.3	125.8	129.2	144.2	140.6	122.8

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.

Source: EIA, Petroleum Marketing Monthly, March 2001, Table 18.

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

	Deleviere	District of	Mandand	Virginia	West	Ohio	Michigan	Indiana	Illinaia	Wissensin	Minnocoto
	Delaware	Columbia	Maryland	Virginia	Virginia	Ohio	Michigan	Indiana	Illinois	Wisconsin	Minnesota
1978 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	106.0 109.6	117.0 118.7	110.3	108.7 110.5	101.0 102.1	101.3 102.1	106.4 105.0	100.7 103.1	100.4 100.1	101.2 101.0	103.1 104.1
984 Average	109.6	114.3	113.5 108.8	106.3	98.0	99.7	103.0	99.1	97.5	98.3	104.1
985 Average 986 Average	85.0	93.1	91.4	86.6	74.6	99.1 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	104.5	98.1	89.3	85.6	84.0	87.2	81.0	84.4	82.3	83.2
994 Average	89.4	100.0	95.0	85.3	80.9	81.2	86.3	81.2	78.4	81.1	80.6
995 Average	87.0	101.0	93.6	84.4	81.5	80.8	86.0	81.6	78.5	81.2	80.1
996 Average	98.4	117.8	106.3	95.2	96.0	92.1	97.7	91.2	89.3	89.9	90.9
997 Average	98.4	117.4	105.7	94.8	96.2	91.3	94.2	86.5	87.0	93.3	89.9
998 January	92.4	111.0	100.4	92.1	91.1	82.2	85.9	79.9	80.4	85.4	81.5
February	91.9	110.0	98.8	91.4	88.9	80.9	84.2	78.9	79.7	83.6	78.1
March	90.6	104.9	96.8	89.6	88.5	79.5	83.3	77.9	77.2	83.0	77.2
April	88.5	100.3	93.1	88.4	86.8	79.5	81.8	77.0	74.4	81.6	77.8
May	82.3	NA	89.0	83.8	82.1	78.8	81.5	73.2	70.0	80.5	72.6
June	79.8	89.8	85.8	82.4	79.8	75.1	79.3	72.1	63.6	78.8	68.8
July	74.1	84.0	81.2	81.4	73.3	72.7	76.5	69.7	70.7	77.8	69.4
August	74.5	85.6	79.4	79.0	72.6	70.1	74.5	71.0	NA	75.5	68.2
September	73.0	84.6	81.7	80.1	72.6	72.3	75.9	72.5	66.2	74.9	70.5
October	76.4	W	80.3	80.3	76.9	74.4	77.3	73.0	69.8	76.8	70.7
November December	82.4 80.9	W W	82.1 80.3	81.2 79.9	76.8 73.8	73.4 71.6	77.9 77.9	71.9 69.3	70.8 66.6	76.6 74.6	70.3 67.9
Average	85.8	102.2	90.2	85.6	81.8	76.7	80.4	74.8	73.5	80.1	73.8
000 lanuari	82.1	W	85.7	81.2	74.6	72.9	76.2	71.4	68.6	75.0	68.0
999 January February	80.4	W	86.1	81.4	74.6	71.9	76.2 76.5	71.4	65.9	73.9	67.0
March	82.9	W	86.8	81.6	78.4	76.4	77.7	73.7	67.8	76.4	69.5
April	88.7	W	86.9	85.8	71.9	76.0	81.5	75.6	63.4	77.8	73.5
May	NA	W	84.5	83.5	71.2	76.1	NA	72.9	60.2	77.3	72.5
June	77.0	W	81.8	82.6	66.2	77.3	NA	74.0	W	76.4	72.4
July	76.0	W	84.4	83.0	69.7	78.8	NA	76.3	62.8	79.8	74.0
August	78.1	W	85.9	84.8	75.8	80.3	NA	84.5	80.6	86.7	81.5
September	85.0	W	92.4	88.8	79.4	86.9	NA	91.7	85.7	91.6	85.3
October	90.3	W	95.7	92.9	NA	89.9	NA	90.9	89.2	95.3	89.7
November	97.0	W	102.2	99.2	NA	96.2	NA	96.8	92.6	99.0	93.9
December Average	104.2 88.4	W 101.1	107.9 90.7	103.7 87.0	NA 78.9	97.5 82.0	NA 88.3	99.3 79.3	95.7 71.6	101.1 84.7	99.1 77.4
_											
000 January	124.2	W	123.6	121.1	NA	110.5	NA	109.5	100.3	105.6	101.9
February	137.3	W W	141.5 126.3	131.9 122.5	NA NA	119.7 116.8	NA NA	116.1 117.8	109.2 108.0	110.1 112.0	109.9 109.6
March April	120.6 NA	W	120.3	122.5	NA NA	111.2	NA NA	117.8 112.5	106.0	109.9	109.6
May	NA NA	W	119.9	114.5	NA NA	111.2	NA NA	109.5	98.5	111.0	1107.5
June	103.7	W	115.1	109.3	NA	112.4	NA	115.1	95.8	111.3	111.7
July	103.7	W	115.1	109.3	102.9	110.4	NA	111.5	NA	107.9	110.8
August	112.6	W	120.4	117.8	117.4	111.8	NA	111.5	106.2	115.9	108.6
September	125.1	W	133.3	130.2	130.3	129.5	NA	133.6	122.8	128.2	123.7
October	NA	W	141.5	132.8	132.7	133.7	NA	134.9	122.3	131.7	130.5
November	R 140.0	W	147.4	R 135.8	R 136.6	R 134.0	NA	R 134.4	R 123.7	^R 130.0	R 127.6
December	140.3	W	150.1	136.2	137.0	131.0	NA	128.0	122.7	130.3	124.2
Average	126.0	W	135.1	126.8	113.7	121.3	NA	121.1	109.2	117.2	115.1

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

individual company data.
Notes: States are g States are grouped in Tables 9.8a, 9.8b, and 9.8c by geographic Values for the current month are preliminary. region of the country.

Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section.
Source: EIA, Petroleum Marketing Monthly, March 2001, 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
81 Average	110.4	116.5	111.4	118.0	119.4
82 Average	110.4	117.6	111.6	117.4	116.0
83 Average	101.8	109.0	103.6	108.8	107.8
984 Average	98.5	102.6	99.3	106.9	109.1
85 Average	97.2	101.1	97.1	108.3	105.3
86 Average	73.8	77.5	70.4	94.9	83.6
87 Average	68.8	79.5	72.5	86.5	80.3
88 Average	68.8	78.5	70.9	86.9	81.3
89 Average	77.8	87.4	80.2	96.4	90.0
90 Average	97.4	102.9	97.0	110.1	106.3
91 Average	95.1	101.6	93.3	105.0	101.9
92 Average	85.7	94.0	87.6	94.1	93.4
93 Average	86.2	99.9	91.8	96.1	91.1
94 Average	78.9	95.0	88.7	86.5	88.4
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
98 January	84.9	104.6	93.6	NA	92.5
February	80.8	100.8	89.3	87.4	91.6
March	78.6	98.9	85.8	86.5	89.6
April	79.6	98.8	86.2	86.8	87.7
May	78.1	97.3	85.2	86.2	84.9
•					
June	74.9	89.9	82.2	85.8	81.2
July	72.2	86.5	82.2	81.8	77.7
August	79.6	87.7	84.4	82.5	75.5
September	78.4	90.2	83.7	83.4	77.0
October	78.8	94.9	84.1	84.4	78.6
November	76.4	97.1	82.4	82.7	79.9
December	71.1	95.0	81.9	82.6	78.9
Average	78.4	97.8	86.1	85.2	85.2
99 January	68.5	93.1	82.1	80.5	80.5
February	67.8	93.6	80.5	81.8	80.0
March	70.9	101.6	88.4	84.8	81.0
April	74.1	111.6	98.1	NA	83.0
May	75.4	107.6	95.8	96.0	82.0
	75.7	110.3	105.2	96.8	80.7
June					
July	78.2	110.3	103.6	99.2	81.5
August	81.6	107.9	102.9	NA	83.5
September	89.7	111.3	100.6	103.9	90.1
October	87.5	114.0	102.2	108.6	94.9
November	89.7	116.8	104.8	111.7	100.1
December	92.7	118.5	106.0	117.1	104.5
Average	76.2	106.5	93.8	96.6	87.6
00 January	93.7	127.0	115.6	123.5	125.8
February	97.7	134.1	124.9	127.8	142.2
March	109.2	145.4	136.1	131.3	124.0
April	105.9	133.7	127.7	130.3	117.6
May	98.1	132.0	121.2	124.7	116.9
June	NA	128.1	122.8	120.7	116.3
July	110.6	NA 1010	126.4	121.8	115.2
August	114.6	134.3	131.3	130.8	119.0
September	133.4	156.6	154.4	140.8	132.1
October	140.9	162.8	156.1	NA	136.6
November	R 140.5	^R 160.5	^R 150.6	154.1	139.6
December	130.4	162.8	155.8	152.9	141.1
Average	117.5	144.4	136.7	134.3	131.0

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.

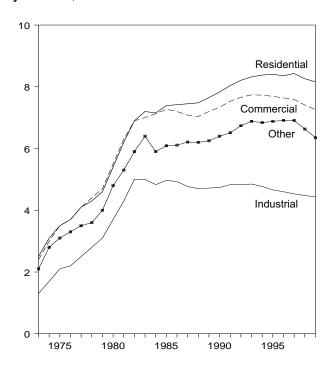
Prices prior to 1983 are Energy Information Administration (EIA) estimates. See Note 6 at end of section.

Source: EIA, Petroleum Marketing Monthly, March 2001, Table 18.

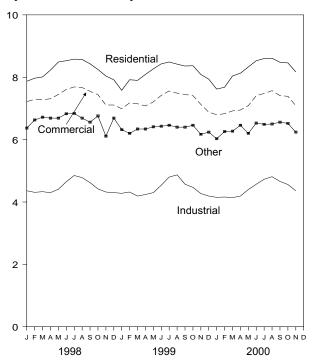
Figure 9.2 Retail Prices of Electricity Sold by Electric Utilities

(Cents per Kilowatthour)

By Sector, 1973-1999



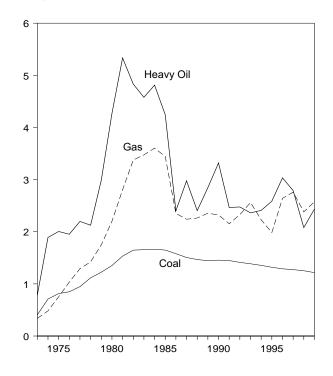
By Sector, Monthly



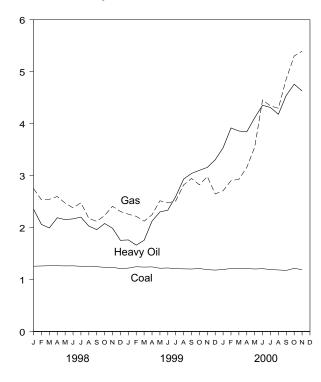
Source: Table 9.9.

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

Costs, 1973-1999



Costs, Monthly



Source: Table 9.10.

Table 9.9 Retail Prices of Electricity Sold by Electric Utilities

(Cents per Kilowatthour)

	Residential	Commercial	Industrial	Othera	Total
973 Average	2.5	2.4	1.3	2.1	2.0
974 Average	3.1	3.0	1.7	2.8	2.5
975 Average	3.5	3.5	2.1	3.1	2.9
	3.7	3.7	2.2	3.3	
976 Average					3.1
977 Average	4.1	4.1	2.5	3.5	3.4
978 Average	4.3	4.4	2.8	3.6	3.7
979 Average	4.6	4.7	3.1	4.0	4.0
980 Average	5.4	5.5	3.7	4.8	4.7
981 Average	6.2	6.3	4.3	5.3	5.5
982 Average	6.9	6.9	5.0	5.9	6.1
983 Average	7.2	7.0	5.0	6.4	6.3
	7.15	7.13	4.83	5.90	6.25
984 Average					
985 Average	7.39	7.27	4.97	6.09	6.44
986 Average	7.42	7.20	4.93	6.11	6.44
987 Average	7.45	7.08	4.77	6.21	6.37
988 Average	7.48	7.04	4.70	6.20	6.35
989 Average	7.65	7.20	4.72	6.25	6.45
990 Average	7.83	7.34	4.74	6.40	6.57
	8.04	7.53	4.83	6.51	6.75
991 Average					
992 Average	8.21	7.66	4.83	6.74	6.82
993 Average	8.32	7.74	4.85	6.88	6.93
994 Average	8.38	7.73	4.77	6.84	6.91
995 Average	8.40	7.69	4.66	6.88	6.89
996 Average	8.36	7.64	4.60	6.91	6.86
997 Average	8.43	7.59	4.53	6.91	6.85
998 January	7.87	7.22	4.36	6.37	6.57
February	7.97	7.29	4.31	6.63	6.52
March	8.01	7.28	4.33	6.72	6.53
April	8.23	7.31	4.30	6.69	6.51
•					
May	8.49	7.45	4.41	6.69	6.67
June	8.53	7.61	4.65	6.83	6.97
July	8.58	7.69	4.85	6.84	7.21
August	8.57	7.67	4.78	6.69	7.14
September	8.43	7.55	4.62	6.56	6.95
October	8.25	7.44	4.42	6.76	6.69
November	8.04	7.11	4.32	6.11	6.39
December	7.92	7.11	4.30	6.69	6.46
Average	8.26	7.41	4.48	6.63	6.74
999 January	7.58	6.99	4.28	6.32	6.42
February	7.92	7.18	4.32	6.20	6.50
	7.90	7.15	4.19	6.34	
March					6.43
April	8.09	7.08	4.24	6.34	6.40
May	8.27	7.21	4.30	6.41	6.50
June	8.43	7.42	4.54	6.43	6.83
July	8.49	7.56	4.80	6.46	7.11
August	8.42	7.49	4.87	6.40	7.08
September	8.36	7.45	4.57	6.40	6.87
October	8.37	7.41	4.47	6.46	6.70
	8.09	7.13	4.47	6.17	
November					6.41
December	7.94	6.88	4.19	6.24	6.39
Average	8.16	7.26	4.43	6.35	6.66
000 January	R 7.62	R 6.80	R 4.15	R 6.03	R 6.28
February	^R 7.68	^R 6.83	^R 4.16	R 6.26	^R 6.28
March	^R 8.04	^R 6.92	^R 4.14	^R 6.27	^R 6.32
April	R 8.13	^R 6.95	^R 4.19	R 6.46	R 6.34
May	R 8.33	R 7.09	R 4.40	R 6.20	^R 6.54
June	R 8.53	R 7.41	R 4.57	R 6.53	R 6.90
		R 7.48	R 4.73	R 6.49	R 7.09
July	8.60 R 0.64				
August	R 8.61	R 7.57	R 4.81	R 6.50	R 7.13
September	R 8.48	^R 7.41	^R 4.66	^R 6.56	^R 6.94
October	^R 8.46	^R 7.39	^R 4.56	^R 6.52	^R 6.76
November	8.17	7.09	4.36	6.24	6.48
11-Month Average	8.26	7.20	4.44	6.37	6.67
999 11-Month Average	8.18	7.29	4.45	6.36	6.66
	U U	7.44	4.49	2.00	6.76

^a Public street and highway lighting, other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

R=Revised.

Notes: Prices are calculated by dividing revenue by sales. Revenue may not correspond to sales for a particular month because of electric utility 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. Geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section.

Table 9.10 Quantity and Cost of Fossil-Fuel Receipts at Steam-Electric Utility Plants

	Co	pal		Petro	leum		Natural	Gas ^a	All Fossil Fuels ^b
			Heav	y Oil ^b	Tot	al ^{b,c}			
	Quantity (thousand short tons)	Cost (cents per million Btu)	Quantity (thousand barrels)	Cost (cents per million Btu)	Quantity (thousand barrels)	Cost (cents per million Btu)	Quantity (million cubic feet)	Cost (cents per million Btu)	Cost (cents per million Btu
973 Year	374,842	40.5	512,650	78.5	535,859	80.0	3,382,677	33.8	47.6
974 Year	384,868	70.9	479,166	189.0	515,217	191.0	3,225,203	48.2	91.4
975 Year	431,527	81.4	457,582	200.5	510,352	202.3	3,034,808	75.2	104.4
976 Year	454,858	84.8	495,363	195.2	549,973	199.0	2,962,811	103.4	111.9
77 Year	490,415	94.7	563,685	219.8	635,556	224.9	3,106,403	129.1	129.7
78 Year 79 Year	476,169 556,558	111.6 122.4	546,197 479,705	212.5 298.8	616,040 515,695	219.1 307.2	3,140,654 3,368,976	142.2 174.9	141.1 163.9
80 Year	593,995	135.1	394,159	426.7	419,140	435.1	3,588,814	219.9	192.8
81 Year	579,374	153.1	327,477	533.4	345,544	542.5	3,573,558	280.5	225.6
82 Year	601,427	164.7	228,200	483.2	239,111	492.2	3,161,348	337.6	224.9
83 Year	592,728	165.6	211,705	457.8	219,652	462.8	2,732,248	347.4	220.6
84 Year	684,111	166.4	193,832	481.2	202,372	486.3	2,878,808	360.3	219.1
85 Year	666,743	164.8	156,410	424.4	164,947	431.7	2,808,921	344.4	209.4
86 Year	686,964	157.9	220,585	240.1	228,522	243.7	2,387,622	235.1	175.0
87 Year	721,298	150.6	187,300	297.6	194,578	301.1	2,605,191	224.0	170.6
88 Year	727,775	146.6	230,234	240.5	236,924	243.9	2,362,721	226.3	164.3
89 Year	753,217	144.5	237,668	284.6	246,422	289.3	2,472,506	235.5	167.5
90 Year	786,627	145.5	202,281	331.9	209,350	338.4	2,490,979	232.1	168.9
91 Year	769,923	144.7	163,106	246.5	169,625	254.8	2,630,818	215.3	160.3
92 Year	775,963	141.2	138,537	247.5	144,390	255.1	2,637,678	232.8	159.0
93 Year	769,152	138.5	141,719	236.2	147,902	243.3	2,574,523	256.0	159.5
94 Year	831,929	135.5	135,184	240.9	142,940	248.8	2,863,904	223.0	152.6
95 Year	826,860	131.8	78,216	258.6	84,292	267.9	3,023,327	198.4	145.3
96 Year	862,701	128.9	98,926	303.4	106,629	315.7	2,604,663	264.1	151.9
97 Year	880,588	127.3	110,906	278.8	117,789	288.0	2,764,734	276.0	152.2
98 January	79,212	125.7	9,569	235.5	10,105	242.4	165,869	275.0	143.3
February	70,353	126.2	8,736	206.0	9,255	214.0	124,584	253.4	139.2
March	75,678	126.6	10,676	199.3	11,133	204.6	181,034	254.4	142.5
April	74,848	126.6	11,749	218.9	12,289	225.0	186,127	259.8	144.7
May	75,980	126.3	11,554	215.3	12,185	221.5	252,869	247.1	146.7
June	76,605	126.4	13,350	216.8	14,164	222.6	331,124	238.0	149.6
July	79,676 82,057	125.5 125.8	21,016 19,262	220.1 202.9	21,877 20,107	223.9 207.2	389,405 389,961	247.7 217.8	154.5 147.2
August	78,854	124.8	12,919	196.0	13,602	202.1	331,911	211.9	147.2
September October	79,399	123.5	14,952	207.8	15,683	213.7	230,952	223.1	142.0
November	77,087	123.8	10,569	198.8	11,192	205.1	164,341	241.0	137.8
December	79,700	121.0	12,500	175.5	13,599	183.5	174,780	231.0	134.3
Total	929,448	125.2	156,852	207.9	165,191	213.6	2,922,957	238.1	143.8
99 January	76,346	122.1	13,215	176.3	14,028	181.9	163,114	225.8	134.7
February	73,956	124.7	10,013	166.2	10,417	171.5	138,852	221.7	134.5
March	76,771	124.0	11,001	175.6	11,471	180.6	187,369	212.3	135.4
April	71,933	124.4	10,647	212.4	11,099	217.6	229,069	224.7	141.3
May	74,458	121.8	10,701	230.2	11,289	236.0	253,352	251.6	144.3
June	74,427	122.3	11,176	233.5	11,959	240.5	278,473	247.5	146.0
July	76,496	121.0	13,249	259.6	14,198	267.9	367,060	251.3	151.9
August	81,351	120.6	12,129	293.3	13,203	303.7	379,367	282.1	157.2
September	76,745	120.3	9,557	304.2	10,126	312.0	262,342	294.5	151.4
October	77,114	121.3	8,052	310.2	8,636	320.9	220,823	282.4	146.7
November	73,998	119.1	7,449	315.8	8,035	329.0	164,874	298.2	142.7
December Total	74,638 908,232	118.2 121.6	6,030 123,219	330.4 243.6	6,946 131,407	353.9 252.7	164,761 2,809,455	264.7 257.4	138.5 144.1
M lanuary	70,017	119.4	2,668	353.6	3,037	378.6	170,117	270.9	138.8
00 January	66,992	121.3	2,666 3,846	391.7		419.6	151,115	270.9 290.2	143.3
February March			3,764	385.8	4,271 4,066	402.7		290.2 293.0	143.3
April	69,703 63,275	121.2 121.3	3,764 4,621	385.8 384.3	4,066	402.7 394.3	191,465 199,665	293.0 315.8	152.9
May	63,275 67,178	121.3	4,621 7,578	304.3 411.3	4,909 8,188	394.3 424.3	268,904	354.9	167.4
June	65,080	121.0	10,034	435.4	10,636	444.2	268,618	445.7	187.4
July	68,229	119.3	11,394	431.0	12,024	439.8	321,994	434.0	191.3
August	69,160	118.5	10,992	418.0	12,024	439.6 426.4	330,155	434.0 429.6	189.0
			8,481	454.5		426.4 467.8			186.3
September October	64,081 59,993	117.6 121.6	8,481	454.5 475.9	8,939 9,351	467.8 487.1	236,112	486.1 530.1	186.3
November	59,993 59,599	121.6	8,9 44 8,184	475.9 462.8	9,351 8,667	487.1 477.6	177,499 146,725	530.1	187.4
11 Months	723,307	119.2 120.0	80,506	462.8 429.4	85,495	477.6 441.5	2,462,368	403.6	178.2 170.1
99 11 Months	833,593	121.9	117,189	239.1	124,462	247.1	2,644,694	256.9	144.6
98 11 Months	849,748	125.5	144,351	210.7	151,592	216.3	2,748,177	238.6	144.6

a Includes supplemental gaseous fuels.
 b Heavy oil includes fuel oil nos. 4, 5, and 6, and topped crude oil. The weighted averages for petroleum and all fossil fuels include both heavy and light oil (fuel oil nos. 1 and 2, kerosene, and jet fuel) prices. Data do not

include petroleum coke.

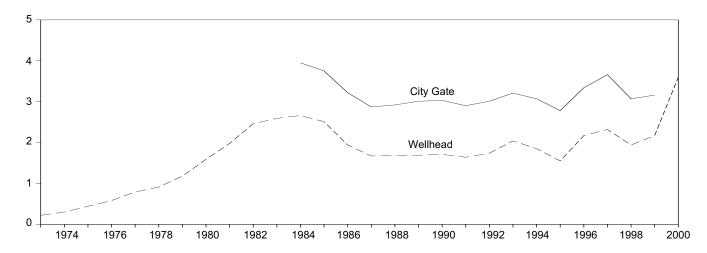
^c Data for 1973-1982 do not include small quantities of rerefined motor oil, bunker oil, and liquefied petroleum gas.

Notes: Receipts are purchases of fuel. Yearly costs are averages of

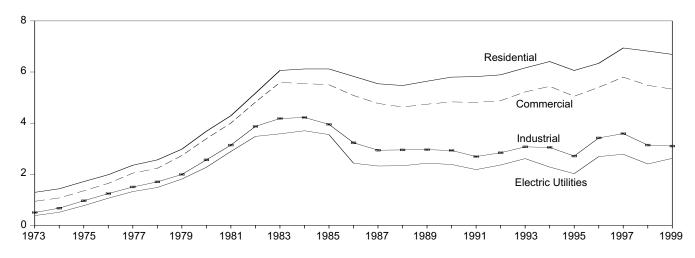
Figure 9.4 Natural Gas Prices

(Dollars per Thousand Cubic Feet)

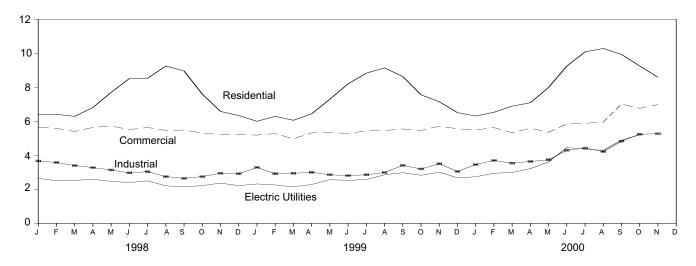
Selected Prices, 1973-2000



Delivered to Consumers, 1973-1999



Delivered to Consumers, Monthly



Note: Because vertical scales differ, graphs should not be compared. Source: Table 9.11.

Natural Gas Prices Table 9.11

(Prices: Dollars per Thousand Cubic Feet; Share of Volume Delivered: Percentage)

Total Volume Price Total Volume Price						Delivered to Co	onsumers ^{a,b}		
1973 Average					Com	mercial	Ind	ustrial	
1974 Average		Wellhead		Residential	Price	Total Volume	Price	Total Volume	
1973 Average	1973 Average	0.22	NA	1.29	0.94	NA	0.50	NA	0.38
1976 Average		.30	NA	1.43	1.07	NA	.67	NA	.51
1977 Average	1975 Average	.44	NA	1.71	1.35	NA	.96	NA	.77
1978 Average									
1979 Average									
1980 Average									
1981 Average									
1982 Average									
1983 Average									
1984 Average									
1985 Average									
1986 Average									
1987 Average									
1898 Average									
1899 Average									
1990 Average									
1991 1.64 2.90 5.82 4.81 85.1 2.69 32.7 2.18 1992 Average 1.74 3.01 5.89 4.88 83.2 2.84 30.3 2.36 1993 Average 2.04 3.21 6.16 5.22 83.9 3.07 29.7 2.61 1994 Average 1.85 3.07 6.41 5.44 79.3 3.05 25.5 2.28 1995 Average 2.17 3.34 6.34 5.40 77.6 3.42 19.4 2.69 1997 Average 2.32 3.66 6.94 5.80 70.8 3.59 18.1 2.78 1998 Average 2.32 3.66 6.94 5.80 70.8 3.59 18.1 2.78 1998 Average 1.94 3.07 6.82 5.48 67.0 3.14 16.1 2.40 1999 January 1.84 2.87 6.00 5.19 73.1 3.29 16.9 2.32 February 1.75 2.93 6.29 5.28 69.7 2.92 16.8 2.26 March 1.68 2.69 6.06 4.97 69.3 2.95 17.4 2.15 April 1.86 2.94 6.44 5.32 65.4 3.00 16.6 2.29 May 2.16 3.41 7.30 5.34 61.1 2.86 16.0 2.57 June 2.12 3.28 8.20 5.29 61.1 2.81 15.8 2.53 July 2.18 3.23 8.83 5.44 5.82 2.86 15.7 2.58 August 2.49 3.53 9.14 5.46 56.6 2.99 18.8 2.86 September 2.61 3.72 8.63 5.55 60.0 3.41 17.5 2.98 October 2.50 3.31 7.56 5.46 61.7 3.20 17.5 2.83 November 2.67 3.76 7.15 5.72 63.0 3.51 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 3.15 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 3.15 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 3.15 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 3.15 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 3.15 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 21.3 2.68 Average 2.17 3.16 6.69 5.33 66.2 3.10 18.8 2.62 2000 January 2.21 3.31 8.63 8.63 8.63 8.62 3.74 4.15 3.22 4.65 3.74 4.15 3.22 4.65 3.74 4.15 3.22 4.65 3.74 4.15 3.22 4.65 3.74 4.15 3.22 4.65 3.74 4.15 3.22 4.65 3.75 3.75 3.75									
1993 Average									
1993 Average									
1994 Average									
1995 Average 1.55 2.78 6.06 5.05 76.7 2.71 24.5 2.02 1996 Average 2.17 3.34 6.34 5.40 77.6 3.42 19.4 2.69 1997 Average 2.32 3.66 6.94 5.80 70.8 3.59 18.1 2.78 1998 Average 1.94 3.07 6.82 5.48 67.0 3.14 16.1 2.40 1999 January 1.84 2.87 6.00 5.19 73.1 3.29 16.9 2.32 February 1.75 2.93 6.29 5.28 69.7 2.92 16.8 2.26 March 1.68 2.69 6.06 4.97 69.3 2.95 17.4 2.15 April 1.88 2.94 6.44 5.32 65.4 3.00 16.6 2.29 May 2.16 3.41 7.30 5.34 61.1 2.86 16.0 2.57 June 2.1									
1997 Average 2.32 3.66 6.94 5.80 70.8 3.59 18.1 2.78 1998 Average 1.94 3.07 6.82 5.48 67.0 3.14 16.1 2.40 1999 January 1.84 2.87 6.00 5.19 73.1 3.29 16.9 2.32 16.9 2.32 16.9 2.32 16.9 2.32 16.8 2.69 1.75 2.93 6.29 5.28 69.7 2.92 16.8 2.26		1.55	2.78	6.06	5.05	76.7	2.71	24.5	2.02
1997 Average	1996 Average	2.17	3.34	6.34	5.40	77.6	3.42	19.4	2.69
1999 January		2.32	3.66	6.94	5.80	70.8	3.59	18.1	2.78
February 1.75 2.93 6.29 5.28 69.7 2.92 16.8 2.26 March 1.68 2.69 6.06 4.97 69.3 2.95 17.4 2.15 April 1.86 2.94 6.44 5.32 65.4 3.00 16.6 2.29 May 2.16 3.41 7.30 5.34 61.1 2.86 16.0 2.57 June 2.12 3.28 8.20 5.29 61.1 2.81 15.8 2.53 July 2.18 3.23 8.83 5.44 58.2 2.86 15.7 2.58 August 2.49 3.53 9.14 5.46 56.6 2.99 18.8 2.86 September 2.61 3.72 8.63 5.55 60.0 3.41 17.5 2.98 October 2.50 3.31 7.56 5.46 61.7 3.20 17.5 2.83 November 2.67 3.76 7.15 5.72 63.0 3.51 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 21.3 2.68 Average 2.17 3.16 6.69 5.33 66.2 3.10 18.8 2.62 2000 January	1998 Average	1.94	3.07	6.82	5.48	67.0	3.14	16.1	2.40
March 1 68 2.69 6.06 4.97 69.3 2.95 17.4 2.15 April 1 .86 2.94 6.44 5.32 65.4 3.00 16.6 2.29 May 2.16 3.41 7.30 5.34 61.1 2.86 16.0 2.57 June 2.12 3.28 8.20 5.29 61.1 2.81 15.8 2.53 July 2.18 3.23 8.83 5.44 58.2 2.86 15.7 2.58 August 2.49 3.53 9.14 5.46 56.6 2.99 18.8 2.86 September 2.61 3.72 8.63 5.55 60.0 3.41 17.5 2.98 October 2.50 3.31 7.56 5.46 61.7 3.20 17.5 2.28 October 2.267 3.76 7.15 5.72 63.0 3.51 17.7 3.01 December 2.20 3.24 </td <td>1999 January</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	1999 January								
April 1.86 2.94 6.44 5.32 65.4 3.00 16.6 2.29 May 2.16 3.41 7.30 5.34 61.1 2.86 16.0 2.57 June 2.12 3.28 8.20 5.29 61.1 2.81 15.8 2.53 July 2.18 3.23 8.83 5.44 58.2 2.86 15.7 2.58 August 2.49 3.53 9.14 5.46 56.6 2.99 18.8 2.86 September 2.61 3.72 8.63 5.55 60.0 3.41 17.5 2.98 October 2.50 3.31 7.56 5.46 61.7 3.20 17.5 2.83 November 2.67 3.76 7.15 5.72 63.0 3.51 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 21.3 2.68 Average 2.17 3.16<									
May 2.16 3.41 7.30 5.34 61.1 2.86 16.0 2.57 June 2.12 3.28 8.20 5.29 61.1 2.81 15.8 2.53 July 2.18 3.23 8.83 5.44 58.2 2.86 15.7 2.58 August 2.49 3.53 9.14 5.46 56.6 2.99 18.8 2.86 September 2.61 3.72 8.63 5.55 60.0 3.41 17.5 2.98 October 2.50 3.31 7.56 5.46 61.7 3.20 17.5 2.83 November 2.67 3.76 7.15 5.72 63.0 3.51 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 21.3 2.68 Average 2.17 3.16 6.69 5.33 66.2 3.10 18.8 2.62 2000 January E 2.12									
June 2.12 3.28 8.20 5.29 61.1 2.81 15.8 2.53 July 2.18 3.23 8.83 5.44 58.2 2.86 15.7 2.58 August 2.49 3.53 9.14 5.46 56.6 2.99 18.8 2.86 September 2.61 3.72 8.63 5.55 60.0 3.41 17.5 2.98 October 2.50 3.31 7.56 5.46 61.7 3.20 17.5 2.83 November 2.67 3.76 7.15 5.72 63.0 3.51 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 21.3 2.68 Average 2.17 3.16 6.69 5.33 66.2 3.10 18.8 2.62 2000 January E 2.12 3.31 R 6.31 5.49 R 66.6 R 3.46 R 17.0 2.74 February E 2.3									
July 2.18 3.23 8.83 5.44 58.2 2.86 15.7 2.58 August 2.49 3.53 9.14 5.46 56.6 2.99 18.8 2.86 September 2.61 3.72 8.63 5.55 60.0 3.41 17.5 2.98 October 2.50 3.31 7.56 5.46 61.7 3.20 17.5 2.83 November 2.67 3.76 7.15 5.72 63.0 3.51 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 21.3 2.68 Average 2.17 3.16 6.69 5.33 66.2 3.10 18.8 2.62 2000 January E 2.12 3.31 R 6.31 5.49 R 66.6 R 3.46 R 17.0 2.74 February E 2.30 3.48 R 6.53 R 5.63 R 67.7 R 3.70 R 16.6 2.95 March	•								
August 2.49 3.53 9.14 5.46 56.6 2.99 18.8 2.86 September 2.61 3.72 8.63 5.55 60.0 3.41 17.5 2.98 October 2.50 3.31 7.56 5.46 61.7 3.20 17.5 2.83 November 2.67 3.76 7.15 5.72 63.0 3.51 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 21.3 2.68 Average 2.17 3.16 6.69 5.33 66.2 3.10 18.8 2.62 2000 January E 2.12 3.31 R 6.31 5.49 R 66.6 R 3.46 R 17.0 2.74 February E 2.30 3.48 R 6.53 R 5.63 R 67.7 R 3.70 R 16.6 2.95 March E 2.36 3.53 R 6.89 R 5.33 R 63.8 R 3.54 R 15.8 2.99 Ap									
September 2.61 3.72 8.63 5.55 60.0 3.41 17.5 2.98 October 2.50 3.31 7.56 5.46 61.7 3.20 17.5 2.83 November 2.67 3.76 7.15 5.72 63.0 3.51 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 21.3 2.68 Average 2.17 3.16 6.69 5.33 66.2 3.10 18.8 2.62 2000 January E 2.12 3.31 R 6.31 5.49 R 66.6 R 3.46 R 17.0 2.74 February E 2.30 3.48 R 6.53 R 5.63 R 67.7 R 3.70 R 16.6 2.95 March E 2.36 3.53 R 6.89 R 5.33 R 63.8 R 3.54 R 15.8 2.99 April E 2.55 3.70 R 7.09 R 5.59 R 63.6 R 3.64 15.4 3.22									
October 2.50 3.31 7.56 5.46 61.7 3.20 17.5 2.83 November 2.67 3.76 7.15 5.72 63.0 3.51 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 21.3 2.68 Average 2.17 3.16 6.69 5.33 66.2 3.10 18.8 2.62 2000 January E 2.12 3.31 R 6.31 5.49 R 66.6 R 3.46 R 17.0 2.74 February E 2.30 3.48 R 6.53 R 5.63 R 67.7 R 3.70 R 16.6 2.95 March E 2.36 3.53 R 6.89 R 5.33 R 63.8 R 3.54 R 15.8 2.99 April E 2.55 3.70 R 7.09 R 5.59 R 63.6 R 3.64 15.4 3.22 May E 2.90 R 4.12 R 7.99 R 5.36 R 62.6 3.74 14.5 3.61									
November 2.67 3.76 7.15 5.72 63.0 3.51 17.7 3.01 December 2.20 3.24 6.51 5.56 67.6 3.05 21.3 2.68 Average 2.17 3.16 6.69 5.33 66.2 3.10 18.8 2.62 2000 January E 2.12 3.31 R 6.31 5.49 R 66.6 R 3.46 R 17.0 2.74 February E 2.30 3.48 R 6.53 R 5.63 R 67.7 R 3.70 R 16.6 2.95 March E 2.36 3.53 R 6.89 R 5.33 R 63.8 R 3.54 R 15.8 2.99 April E 2.55 3.70 R 7.09 R 5.59 R 63.6 R 3.64 15.4 3.22 May E 2.90 R 4.12 R 7.99 R 5.36 R 62.6 3.74 14.5 3.61 July E 3.73 5.13 R 9.24 R 5.84 R 59.8 R 4.30 R 15.3 4.46									
December 2.20 3.24 6.51 5.56 67.6 3.05 21.3 2.68 Average 2.17 3.16 6.69 5.33 66.2 3.10 18.8 2.62 2000 January E 2.12 3.31 R 6.31 5.49 R 66.6 R 3.46 R 17.0 2.74 February E 2.30 3.48 R 6.53 R 5.63 R 67.7 R 3.70 R 16.6 2.95 March E 2.36 3.53 R 6.89 R 5.33 R 63.8 R 3.54 R 15.8 2.99 April E 2.55 3.70 R 7.09 R 5.59 R 63.6 R 3.64 15.4 3.22 May E 2.90 R 4.12 R 7.99 R 5.36 R 62.6 3.74 14.5 3.61 June E 3.73 5.13 R 9.24 R 5.84 R 59.8 R 4.30 R 15.3 4.46 July E 3.70 5.11 R 10.08 R 5.88 R 57.0 R 4.43 R 15.8 4.36									
Average 2.17 3.16 6.69 5.33 66.2 3.10 18.8 2.62 2000 January E 2.12 3.31 R 6.31 5.49 R 66.6 R 3.46 R 17.0 2.74 February E 2.30 3.48 R 6.53 R 5.63 R 67.7 R 3.70 R 16.6 2.95 March E 2.36 3.53 R 6.89 R 5.33 R 63.8 R 3.54 R 15.8 2.99 April E 2.55 3.70 R 7.09 R 5.59 R 63.6 R 3.64 15.4 3.22 May E 2.90 R 4.12 R 7.99 R 5.36 R 62.6 3.74 14.5 3.61 June E 3.73 5.13 R 9.24 R 5.84 R 59.8 R 4.30 R 15.3 4.46 July E 3.70 5.11 R 10.08 R 5.88 R 57.0 R 4.43 R 15.8 4.36 August E 3.67 R 4.61 R 10.28 R 5.96 R 56.5 4.22 15.1 4.3									
February E 2.30 3.48 R 6.53 R 5.63 R 67.7 R 3.70 R 16.6 2.95 March E 2.36 3.53 R 6.89 R 5.33 R 63.8 R 3.54 R 15.8 2.99 April E 2.55 3.70 R 7.09 R 5.59 R 63.6 R 3.64 15.4 3.22 May E 2.90 R 4.12 R 7.99 R 5.36 R 62.6 3.74 14.5 3.61 June E 3.73 5.13 R 9.24 R 5.84 R 59.8 R 4.30 R 15.3 4.46 July E 3.70 5.11 R 10.08 R 5.88 R 57.0 R 4.43 R 15.8 4.36 August E 3.67 R 4.61 R 10.28 R 5.96 R 56.5 4.22 15.1 4.30 September E 4.26 5.71 R 9.93 R 7.01 R 58.9 R 4.83 13.5 4.90 October E 4.61 5.99 9.25 R 6.76 R 63.6 R 5.24 12.3 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
February E 2.30 3.48 R 6.53 R 5.63 R 67.7 R 3.70 R 16.6 2.95 March E 2.36 3.53 R 6.89 R 5.33 R 63.8 R 3.54 R 15.8 2.99 April E 2.55 3.70 R 7.09 R 5.59 R 63.6 R 3.64 15.4 3.22 May E 2.90 R 4.12 R 7.99 R 5.36 R 62.6 3.74 14.5 3.61 June E 3.73 5.13 R 9.24 R 5.84 R 59.8 R 4.30 R 15.3 4.46 July E 3.70 5.11 R 10.08 R 5.88 R 57.0 R 4.43 R 15.8 4.36 August E 3.67 R 4.61 R 10.28 R 5.96 R 56.5 4.22 15.1 4.30 September E 4.26 5.71 R 9.93 R 7.01 R 58.9 R 4.83 13.5 4.90 October E 4.61 5.99 9.25 R 6.76 R 63.6 R 5.24 12.3 <t< td=""><td>2000 January</td><td>E 2.12</td><td>3.31</td><td>^R 6.31</td><td>5.49</td><td>R 66.6</td><td>R 3.46</td><td>R 17.0</td><td>2.74</td></t<>	2000 January	E 2.12	3.31	^R 6.31	5.49	R 66.6	R 3.46	R 17.0	2.74
March E 2.36 3.53 R 6.89 R 5.33 R 63.8 R 3.54 R 15.8 2.99 April E 2.55 3.70 R 7.09 R 5.59 R 63.6 R 3.64 15.4 3.22 May E 2.90 R 4.12 R 7.99 R 5.36 R 62.6 3.74 14.5 3.61 June E 3.73 5.13 R 9.24 R 5.84 R 59.8 R 4.30 R 15.3 4.46 July E 3.70 5.11 R 10.08 R 5.88 R 57.0 R 4.43 R 15.8 4.36 August E 3.67 R 4.61 R 10.28 R 5.96 R 56.5 4.22 15.1 4.30 September E 4.26 5.71 R 9.93 R 7.01 R 58.9 R 4.83 13.5 4.90 October E 4.61 5.99 9.25 R 6.76 R 63.6 R 5.24 12.3 5.21 November E 4.62 5.40 8.59 6.99 65.9 5.27 18.5 NA							R 3.70	R 16.6	
April E 2.55 3.70 R 7.09 R 5.59 R 63.6 R 3.64 15.4 3.22 May E 2.90 R 4.12 R 7.99 R 5.36 R 62.6 3.74 14.5 3.61 June E 3.73 5.13 R 9.24 R 5.84 R 59.8 R 4.30 R 15.3 4.46 July E 3.70 5.11 R 10.08 R 5.88 R 57.0 R 4.43 R 15.8 4.36 August E 3.67 R 4.61 R 10.28 R 5.96 R 56.5 4.22 15.1 4.30 September E 4.26 5.71 R 9.93 R 7.01 R 58.9 R 4.83 13.5 4.90 October E 4.61 5.99 9.25 R 6.76 R 63.6 R 5.24 12.3 5.21 November E 4.62 5.40 8.59 6.99 65.9 5.27 18.5 NA December E 6.35 NA NA NA NA NA NA NA NA	,						R 3.54		
May E 2.90 R 4.12 R 7.99 R 5.36 R 62.6 3.74 14.5 3.61 June E 3.73 5.13 R 9.24 R 5.84 R 59.8 R 4.30 R 15.3 4.46 July E 3.70 5.11 R 10.08 R 5.88 R 57.0 R 4.43 R 15.8 4.36 August E 3.67 R 4.61 R 10.28 R 5.96 R 56.5 4.22 15.1 4.30 September E 4.26 5.71 R 9.93 R 7.01 R 58.9 R 4.83 13.5 4.90 October E 4.61 5.99 9.25 R 6.76 R 63.6 R 5.24 12.3 5.21 November E 4.62 5.40 8.59 6.99 65.9 5.27 18.5 NA December E 6.35 NA									
June E 3.73 5.13 R 9.24 R 5.84 R 59.8 R 4.30 R 15.3 4.46 July E 3.70 5.11 R 10.08 R 5.88 R 57.0 R 4.43 R 15.8 4.36 August E 3.67 R 4.61 R 10.28 R 5.96 R 56.5 4.22 15.1 4.30 September E 4.26 5.71 R 9.93 R 7.01 R 58.9 R 4.83 13.5 4.90 October E 4.61 5.99 9.25 R 6.76 R 63.6 R 5.24 12.3 5.21 November E 4.62 5.40 8.59 6.99 65.9 5.27 18.5 NA December E 6.35 NA NA<	•	E 2.90	-	^R 7.99	^R 5.36	^R 62.6	3.74		
July E 3.70 5.11 R 10.08 R 5.88 R 57.0 R 4.43 R 15.8 4.36 August E 3.67 R 4.61 R 10.28 R 5.96 R 56.5 4.22 15.1 4.30 September E 4.26 5.71 R 9.93 R 7.01 R 58.9 R 4.83 13.5 4.90 October E 4.61 5.99 9.25 R 6.76 R 63.6 R 5.24 12.3 5.21 November E 4.62 5.40 8.59 6.99 65.9 5.27 18.5 NA December E 6.35 NA NA NA NA NA NA NA NA Average E 3.60 NA NA NA NA NA NA NA NA NA		E 3.73		^R 9.24	^R 5.84	^R 59.8	R 4.30	^R 15.3	
August E 3.67 R 4.61 R 10.28 R 5.96 R 56.5 4.22 15.1 4.30 September E 4.26 5.71 R 9.93 R 7.01 R 58.9 R 4.83 13.5 4.90 October E 4.61 5.99 9.25 R 6.76 R 63.6 R 5.24 12.3 5.21 November E 4.62 5.40 8.59 6.99 65.9 5.27 18.5 NA December E 6.35 NA NA NA NA NA NA NA NA Average E 3.60 NA NA NA NA NA NA NA NA		E 3.70		^R 10.08	^R 5.88	^R 57.0	R 4.43		
October E 4.61 5.99 9.25 R 6.76 R 63.6 R 5.24 12.3 5.21 November E 4.62 5.40 8.59 6.99 65.9 5.27 18.5 NA December E 6.35 NA NA </td <td></td> <td></td> <td></td> <td>^R 10.28</td> <td></td> <td></td> <td>4.22</td> <td></td> <td></td>				^R 10.28			4.22		
October E 4.61 5.99 9.25 R 6.76 R 63.6 R 5.24 12.3 5.21 November E 4.62 5.40 8.59 6.99 65.9 5.27 18.5 NA December E 6.35 NA NA </td <td>September</td> <td></td> <td>5.71</td> <td>R 9.93</td> <td></td> <td></td> <td></td> <td>13.5</td> <td>4.90</td>	September		5.71	R 9.93				13.5	4.90
December E 6.35 NA NA <td>October</td> <td></td> <td>5.99</td> <td>9.25</td> <td>^R 6.76</td> <td>^R 63.6</td> <td></td> <td>12.3</td> <td>5.21</td>	October		5.99	9.25	^R 6.76	^R 63.6		12.3	5.21
Average ^E 3.60 NA NA NA NA NA NA NA NA									
2001 January F 8.06 NA NA NA NA NA NA NA NA	Average	[∟] 3.60	NA	NA	NA	NA	NA	NA	NA
	2001 January	F 8.06	NA	NA	NA	NA	NA	NA	NA

^a Includes supplemental gaseous fuels.

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

Notes: Prices shown on this page 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. coverage is the 50 States and the District of Columbia.

Sources: See end of section.

b See Note 9 at end of section.

^c See Note 8 at end of section.

^d Based on number of months with data in the current year.

Energy Prices Notes

- 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."
- 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.
- 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 March 1975, however, coverage was expanded to include U.S. company-owned refineries in the Caribbean. Landed costs do not include supplemental fees.
- 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.

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.

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.

- 7. Preliminary monthly data are based on submissions from over 250 publicly and privately owned electric utilities reporting on Form EIA-826, "Monthly Electric Utility Sales and Revenue Report With State Distributions." These utilities are statistically chosen as a cutoff sample from more than 3,000 electric utilities that report annually on Form EIA-861, "Annual Electric Utility Report." Preliminary annual values are the sum of the monthly revenues divided by the sum of the monthly sales. When final Form EIA-861 annual data become available each year, their ratios to the preliminary Form EIA-826 values are used to derive adjusted final monthly values. Prior to January 1986, only privately owned electric utilities were included in the monthly survey and the sample was chosen using stratification techniques through December 1992.
- 8. Data for 1973-1982 cover all 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 the data and counted towards 25-megawatt-or-greater total. Data for 1983-1990 cover all electric generating plants at which the generator nameplate capacity of all steam-electric units combined totaled 50 megawatts or greater. Data for 1991 forward cover all electric generating plants at which the generator nameplate capacity of all steam-electric units and combined-cycle units together totaled 50 megawatts or greater.
- 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 utility 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.

Sources for Table 9.1

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*, March 2001, 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, March 2001, 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, March 2001, Table 1.

Sources for Table 9.2

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, March 2001, Table 24.

Sources for Table 9.9

1973-September 1977—Federal Power Commission (FPC), 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*, March 2001, Table 52.

Sources for Table 9.10

1973-June 1977—Federal Power Commission, Form FPC-423, "Monthly Report on Cost and Quality of Fuels for Electric Utility Plants."

June 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, April issues.

1990 forward—EIA, *Electric Power Monthly*, March 2001, Table 26.

Sources for Table 9.11

Prices, 1973-1993

Wellhead—Energy Information Administration (EIA), *Natural Gas Annual 1999*, Table 92.

City Gate, 1984-1987—EIA, Natural Gas Monthly, March 1990, Table 4.

City Gate, 1988-1992— EIA, Natural Gas Monthly, March 1995, Table 4.

City Gate, 1993—EIA, Natural Gas Monthly, February 2001, Table 4.

Delivered to Consumers, 1973-1993—EIA, *Natural Gas Annual* 1999, Table 95.

Prices, 1994 forward

EIA, Natural Gas Monthly, February 2001, Table 4.

Share of Total Volume Delivered, 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.

Share of Total Volume Delivered, 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

Section 10. International Energy

Crude Oil Production. World crude oil production during December 2000 was 69 million barrels per day, down by 1.3 million barrels per day from the level in the previous month. World crude oil production during 2000 averaged 68 million barrels per day, up 2.1 million barrels per day, compared with production in 1999.

Organization of Petroleum Exporting Countries (OPEC) production during December 2000 averaged 29 million barrels per day, down 1.4 million barrels per day from the level during the previous month. OPEC production during 2000 averaged 29 million barrels per day, a 6-percent increase, compared with production in the previous year. During December 2000, production increased in Iran by 75 thousand barrels per day; Venezuela by 30 thousand barrels per day; Algeria by 15 thousand barrels per day; and in the United Arab Emirates, Nigeria, Indonesia, and Libya, each by 5 thousand barrels per day. Production decreased in Iraq by 1.5 million barrels per day; Saudi Arabia by 100 thousand barrels per day; and Kuwait by 5 thousand barrels per day. Production remained unchanged in Qatar.

Among the non-OPEC nations, production during December 2000 increased in Mexico by 78 thousand barrels per day; Russia by 34 thousand barrels per day; the United Kingdom by 22 thousand barrels per day; Norway by 9 thousand barrels per day; and China by 6 thousand barrels per day. Production decreased in the United States by 29 thousand barrels per day and

Canada by 8 thousand barrels per day. Production remained unchanged in Egypt.

Petroleum Consumption. In October 2000, consumption in all Organization for Economic Cooperation and Development (OECD) countries was 42.8 million barrels per day, slightly higher than the October 1999 rate. Comparing October rates in 2000 and 1999, consumption was higher in 2000 in France (+11 percent); Canada (+8 percent); and the United Kingdom (+2 percent). The October 2000 consumption rate was lower in Germany (-5 percent); Japan and Italy (each -2 percent); and the United States (-1 percent), compared with the rate 1 year earlier.

Petroleum Stocks. For all OECD countries, petroleum stocks at the end of October 2000 totaled 3.6 billion barrels, 4 percent lower than the ending stock level in October 1999. Stock levels were lower in October 2000 in Germany (-7 percent); the United States (-5 percent); the United Kingdom (-4 percent); Japan (-3 percent); and Canada (-2 percent). Stock levels were higher in Italy (+6 percent) and France (+1 percent), compared with levels 1 year earlier.

Nuclear Electricity Generation. Based on *Nucleonics Week*² information for December 2000, all reporting countries with nuclear capacity generated 234.0 gross terawatthours (one terawatthour equals 1 billion kilowatthours) of nuclear-generated electricity.

As of December 31, 2000, there were 436 operable nuclear generating units in the world.

¹ Percentage changes are based on unrounded data.

² A copyrighted publication of The McGraw-Hill Publishing Companies, Inc. Used with permission.

Table 10.1a World Oil Production: OPEC Members

(Thousand Barrels per Day)

										I I a i t a al		
									Saudi	United Arab		
	Algeria	Indonesia	Iran	Iraq	Kuwait ^a	Libya	Nigeria	Qatar	Arabia ^a	Emirates	Venezuela	OPEC ^b
1973 Average	1,097	1,339	5,861	2,018	3,020	2,175	2,054	570	7,596	1,533	3,366	30,629
1974 Average	1,009	1,375	6,022	1,971	2,546	1,521	2,255	518	8,480	1,679	2,976	30,351
1975 Average	983	1,307	5,350	2,262	2,084	1,480	1,783	438	7,075	1,664	2,346	26,771
1976 Average 1977 Average	1,075 1,152	1,504 1,686	5,883 5,663	2,415 2,348	2,145 1,969	1,933 2,063	2,067 2,085	497 445	8,577 9,245	1,936 1,999	2,294 2,238	30,327 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 1982 Average	1,002 987	1,605 1,339	1,380 2,214	1,000 1,012	1,125 823	1,140 1,150	1,433 1,295	405 330	9,815 6,483	1,474 1,250	2,102 1,895	22,481 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 1987 Average	945 1,048	1,390 1,343	2,035 2,298	1,690 2,079	1,419 1,585	1,034 972	1,467 1,341	308 293	4,870 4,265	1,330 1,541	1,787 1,752	18,275 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 1992 Average	1,230 1,214	1,592 1,504	3,312 3,429	305 425	190 1,058	1,483 1,433	1,892 1,943	395 423	8,115 8,332	2,386 2,266	2,375 2,371	23,275 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 1997 Average	1,242 1,277	1,547 1,520	3,686 3,664	579 1,155	2,062 2,083	1,401 1,446	2,001 2,332	510 649	8,218 8,562	2,278 2,316	2,938 3,315	26,461 28,320
_	•	•	,	•	•	•	-		•			
1998 January	1,290	1,520	3,635	1,261	2,215	1,463	2,218	715	8,765	2,435	3,440	28,957
February March	1,290 1,290	1,520 1,520	3,635 3,635	1,703 1,825	2,210 2,210	1,463 1,463	2,263 2,380	735 735	8,760 8,460	2,435 2,480	3,410 3,410	29,424 29,408
April	1,270	1,520	3,835	1,985	2,115	1,412	2,238	705	8,585	2,420	3,240	29,325
May	1,250	1,520	3,635	2,245	2,105	1,372	2,230	705	8,625	2,330	3,240	29,257
June	1,240	1,490	3,835	1,920	2,105	1,372	2,210	705	8,325	2,300	3,210	28,712
July August	1,230 1,220	1,490 1,510	3,585 3,435	2,355 2,555	2,075 2,025	1,372 1,352	2,160 2,010	685 675	8,275 8,225	2,280 2,300	3,070 2,990	28,577 28,297
September	1,220	1,510	3,685	2,555	1,972	1,347	2,010	665	8,173	2,300	2,940	28,377
October	1,220	1,540	3,485	2,555	1,970	1,347	1,960	670	8,220	2,290	2,990	28,247
November	1,220	1,540	3,635	2,505	2,020	1,362	2,060	675	8,170	2,290	3,040	28,517
December Average	1,220 1,246	1,540 1,518	3,585 3,634	2,305 2,150	2,010 2,085	1,362 1,390	2,110 2,153	680 696	8,110 8,389	2,290 2,345	3,040 3,167	28,252 28,774
_	•	•	•	•	•	•	-		-		•	
1999 January February	1,230 1,240	^R 1,508 ^R 1,488	3,665 3,925	2,515 2,655	1,995 2,005	1,360 1,360	2,080 2,010	^R 666 ^R 666	8,065 8,165	^R 2,239 ^R 2,329	^R 3,019 ^R 2,999	^R 28,342 ^R 28,842
March	1,250	R 1,498	3,795	2,430	2,020	1,360	2,160	R 742	8,220	R 2,234	2,960	R 28,669
April	1,210	^R 1,498	3,485	2,655	1,785	1,320	2,160	^R 675	7,665	2,180	2,800	R 27,433
May	1,190	R 1,498	3,435	2,705	1,815	1,300	2,190	R 656	7,665	2,130	2,780	R 27,364
June July	1,180 1,180	^R 1,478 ^R 1,458	3,415 3,515	2,355 2,805	1,830 1,830	1,290 1,290	2,150 2,130	^R 627 ^R 656	7,610 7,610	2,110 2,130	2,760 2,760	^R 26,805 ^R 27,364
August	1,190	R 1,448	3,535	2,855	1,860	1,290	2,140	R 656	7,710	2,140	2,760	R 27,584
September	1,190	R 1,448	3,485	2,855	1,885	1,300	2,150	^R 656	7,735	2,145	2,760	R 27,609
October	1,190	^R 1,448 ^R 1,448	3,535	2,670	1,925	1,310	2,170	^R 656 ^R 656	7,845	2,145	2,760	R 27,654
November December	1,190 1,190	R 1,448	3,485 3,435	2,205 1,405	1,905 1,922	1,320 1,330	2,160 2,050	R 666	7,865 7,863	2,105 2,155	2,780 2,780	^R 27,119 ^R 26,243
Average	1,202	R 1,472	3,557	2,508	1,898	1,319	2,130	R 665	7,833	2,169	2,826	R 27,579
2000 January	1,190	1,460	3,465	2,215	1,962	1,330	2,010	695	7,863	2,245	R 2,790	R 27,225
February	1,190	1,430	3,525	2,595	2,015	1,380	2,060	705	7,865	2,250	R 2,850	R 27,865
March	1,190	1,430	3,735	2,215	2,040	1,390	2,080	705	7,865	2,300	R 2,850	R 27,800
April	1,230	1,460	3,675	2,655	2,100	1,400	2,140	715	8,100	2,380	R 2,900	R 28,755
May June	1,240 1,250	1,490 1,490	3,685 3,705	3,055 2,565	2,100 2,150	1,400 1,420	2,110 2,140	735 735	8,200 8,250	2,380 2,280	^R 2,930 ^R 2,950	^R 29,325 ^R 28,935
July	1,250	1,490	3,750	2,525	2,170	1,425	2,140	755 755	8,390	2,320	R 2,970	R 29,225
August	1,260	1,490	3,750	2,995	2,173	1,420	2,160	755	8,823	2,380	R 2,980	R 30,185
September	1,250	1,490	3,755	2,875	2,170	1,430	2,110	755	8,975	2,390	R 2,980	R 30,180
October November	1,270 1,265	1,460 1,450	3,835 3,830	3,005 2,815	2,210 2,215	1,440 1,440	2,210 2,260	760 765	8,800 8,900	2,410 2,415	^R 3,050 ^R 3,050	^R 30,450 ^R 30,405
December	1,280	1,455	3,905	1,355	2,210	1,445	2,265	765 765	8,800	2,413	3,080	28,980
Average	1,239	1,466	3,719	2,571	2,126	1,410	2,144	737	8,404	2,348	2,949	29,113
			•			*						

^a Includes about one-half of the production in the Kuwait-Saudi Arabia Neutral Zone from 1973 through July 1990 and in June 1991. Kuwaiti Neutral Zone output was discontinued following Iraq's invasion of Kuwait on August 2, 1990, but was resumed in June 1991. In December 2000, Neutral Zone production by both Kuwait and Saudi Arabia totaled about 680 thousand barrels per day.

Ecuador and Gabon, which withdrew from OPEC membership at the end of 1992 and 1994, respectively, are excluded from all OPEC totals.

R=Revised.

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.

Sources: See end of section.

per day.

^b Current members of OPEC are Algeria, Indonesia, Iran, Iraq, Kuwait, Libya, Nigeria, Qatar, Saudi Arabia, the United Arab Emirates, and Venezuela.

Table 10.1b World Oil Production: Persian Gulf Nations, Non-OPEC, and World

(Thousand Barrels per Day)

					Selecti	ed Non-Ol	PEC Produc	ers				
	Persian				00.001						Total	
	Gulf Nations ^a	Canada	China	Egypt	Mexico	Norway	Former U.S.S.R.	Russia	United Kingdom	United States	Non- OPEC	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	35	8,912	NA	2	8,774	25,366	55,716
1975 Average	18,934	1,430	1,490	235	705	189	9,523	NA	12	8,375	26,058	52,828
1976 Average	21,514 21,725	1,314	1,670 1,874	330 415	831 981	279 280	10,060 10,603	NA NA	245 768	8,132	27,018	57,344 50,707
1977 Average 1978 Average	20,606	1,321 1,316	2,082	485	1,209	356	11,105	NA NA	1,082	8,245 8,707	28,814 30,694	59,707 60,158
1979 Average	21,066	1,500	2,122	525	1,461	403	11,384	NA	1,568	8,552	32,094	62,674
1980 Average	17,961	1,435	2,114	595	1,936	528	11,706	NA	1,622	8,597	32,994	59,600
1981 Average	15,245	1,285	2,012	598	2,313	501	11,850	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	1,356	2,120	727	2,689	614	11,972	NA	2,291	8,688	35,759	53,256
1984 Average 1985 Average	10,784 9,630	1,438 1,471	2,296 2,505	822 887	2,780	697 788	11,861 11,585	NA NA	2,480 2,530	8,879 8,071	37,047 37,801	54,489 53,982
1986 Average	11,696	1,471	2,620	813	2,745 2,435	870	11,895	NA NA	2,539	8,971 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	13,457	1,616	2,730	848	2,512	1,158	12,053	NA	2,232	8,140	38,413	58,737
1989 Average	14,837	1,560	2,757	865	2,520	1,554	11,715	NA	1,802	7,613	37,792	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 7.000	1,797	7,417	36,932	60,207
1992 Average	15,970 16,715	1,605 1,679	2,845 2,890	881 890	2,669 2,673	2,229 2,350	8,541 –	7,632 6,730	1,825 1,915	7,171 6,847	35,815 35,117	60,213 60,236
1993 Average 1994 Average	16,713	1,746	2,939	896	2,685	2,521	_	6,135	2,375	6,662	35,481	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	18,470	1,922	3,200	856	3,023	3,143	-	5,920	2,518	6,452	38,100	66,420
1998 January	19,064	1,912	3,240	828	3,085	3,293	-	5,894	2,597	6,541	38,699	67,656
February	19,516 19,383	1,944	3,155 3,170	828 828	3,140 3,160	3,230	_	5,912 5,877	2,583 2,600	6,476	38,597	68,020
March April	19,563	1,952 1,988	3,170	828	3,140	3,123 3,160	_	5,792	2,600	6,408 6,483	38,490 38,437	67,897 67,762
May	19,683	1,943	3,210	838	3,149	2,917	_	5,707	2,499	6,347	37,963	67,220
June	19,228	1,932	3,260	838	3,050	3,140	_	5,843	2,495	6,267	38,241	66,953
July	19,293	2,045	3,200	847	3,120	3,120	_	5,839	2,525	6,194	38,245	66,822
August	19,253	2,016	3,180	838	3,055	2,440	_	5,826	2,536	6,203	37,510	65,807
September	19,388	2,064	3,216	838	2,906	2,863	_	5,852	2,690	5,789	37,527	65,904
October November	19,228 19,333	2,024 1,989	3,150 3,240	838 828	2,792 3,147	2,920 2,978	_	5,894 5,860	2,718 2,720	6,143 6,140	37,778 38,353	66,025 66,870
December	19,018	1,962	3,215	828	3,107	3,045	_	5,954	2,821	6,043	38,445	66,697
Average	19,337	1,981	3,198	834	3,070	3,017	-	5,854	2,616	6,252	38,188	66,962
1999 January	R 19,182	1,892	R 3,219	860	3,144	3,002	_	E 5,962	2,721	5,963	R 38,549	R 66,891
February	^ 19,782 R 10,470	1,878	R 3,224	860	3,020	3,004	-	E 5,897	2,728	5,966	R 38,369	R 67,211
March April	19,479 R 18 192	1,835 1,832	^R 3,204 ^R 3,179	870 870	3,053 2,893	2,975 2,953	_	E 6,024 E 6,021	2,708 2,746	5,883 5,887	^R 38,220 ^R 38,014	^R 66,889 ^R 65.446
May	R 18 443	1,882	R 3,179	860	2,093	2,933	_	E 6,036	2,740	5,875	R 37,889	R 65,253
June	R 17.984	1,936	R 3,179	850	2,801	2,727	_	E 6,026	2,429	5,760	R 37,397	R 64,202
July	R 18.583	1,959	R 3,250	840	2,920	3,094	-	E 6,148	2,672	5,798	R 38,362	R 65,725
August	^R 18.793	1,906	R 3,159	840	2,848	2,868	_	^E 6,139	2,699	5,780	R 38,019	R 65,603
September	K 18,798	1,857	R 3,134	850	2,861	2,864	_	E 6,141	2,670	5,804	R 38,033	R 65,642
October November	N 18,813	1,892 2,006	R 3,166 R 3,234	840 840	2,766 2,852	3,070 3,300	_	E 6,153 E 6,153	2,762 2,782	5,947 5,960	R 38,503 R 39,024	^R 66,156 ^R 66,143
December	R 17 482	2,000	R 3,214	840	2,793	3,404	_	E 6,231	2,702	5,959	R 39,024	R 65,337
Average	R 18,667	1,907	R 3,195	852	2,906	3,018	-	E 6,079	2,684	5,881	R 38,291	R 65,869
2000 January	R 18,481	1,979	3,250	R 740	3,032	3,233	_	E 6,239	2,721	E 5,833	R 38,771	R 65,996
February	K 18,991	1,991	3,280	R 735	2,897	3,348	-	E 6,248	2,644	E 5,889	R 38,746	R 66,611
March	118,896 R 40,664	1,892	3,280	R 730	2,998	3,248	_	E 6,321	2,678	E 5,873	R 38,764	R 66,564
April	R 20 101	1,894 1,990	3,300 3,250	^R 735 ^R 725	3,041 3,040	3,052 3,149	_	E 6,308 E 6,352	2,549 2,311	E 5,850 E 5,836	R 38,455 R 38,395	^R 67,210 ^R 67,720
May June	R 19.721	2,020	3,295	R 720	3,056	2,984	_	E 6,421	2,446	E 5,824	R 38,639	R 67,574
July	R 19,946	1,986	3,280	R 706	2,876	3,398	_	E 6,494	2,535	E 5,792	R 39,014	R 68,239
August	R 20,911	1,955	3,205	R 695	3,162	3,025	-	E 6,546	2,370	E 5,813	R 38,790	R 68,975
September	R 20,956	2,007	3,220	R 690	3,173	3,012	_	E 6,590	2,315	E 5,767	R 38,771	R 68,951
October	^K 21,056	1,961	3,210	R 685	2,861	3,247	-	E 6,711	2,334	E 5,820	R 38,906	R 69,356
November		2,029	3,206	R 680	2,965	3,327	_	E 6,737	R 2,389	E 5,868	R 39,519	R 69,924
December Average		2,021 1,977	3,212 3,249	680 710	3,043 3,012	3,336 3,197	_	E 6,771 E 6,479	2,411 2,475	E 5,839 E 5,834	39,634 38,868	68,614 67,980
Average	13,341	1,377	3,249	710	3,012	3,197	-	0,479	2,413	5,054	30,000	07,900

^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

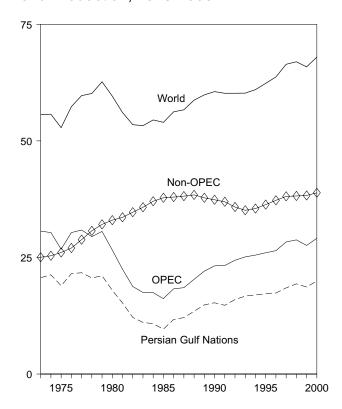
average to the annual totals because of rounding or because updates to the preliminary monthly data are not available. Data for countries may not sum to World totals due to independent rounding. U.S. geographic coverage is the 50 States and the District of Columbia.

Sources: See end of section.

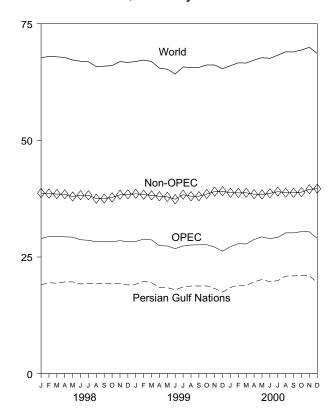
Figure 10.1 Crude Oil Production

(Million Barrels per Day)

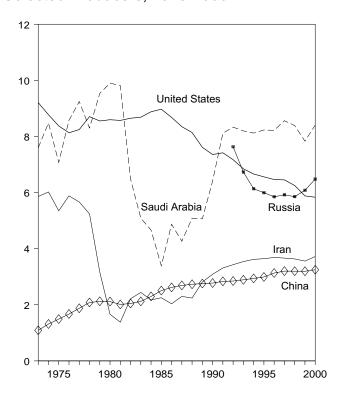
World Production, 1973-2000



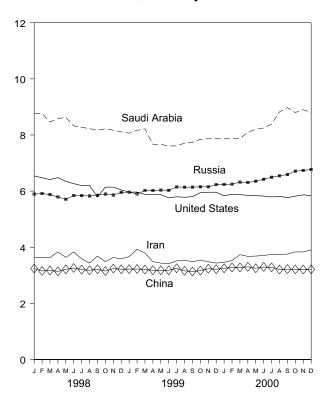
World Production, Monthly



Selected Producers, 1973-2000



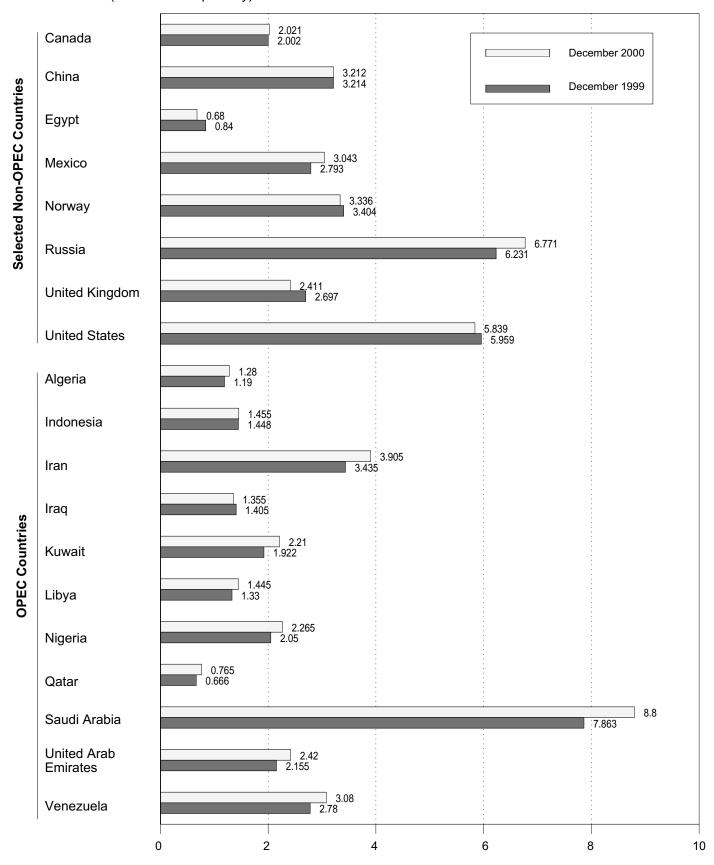
Selected Producers, Monthly



Note: OPEC is the Organization of Petroleum Exporting Countries. Sources: Tables 10.1a and 10.1b.

Figure 10.2 Crude Oil Production by Selected Country

(Million Barrels per Day)

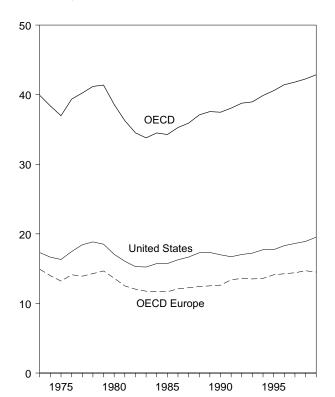


Note: OPEC is the Organization of Petroleum Exporting Countries. Sources: Tables 10.1a and 10.1b.

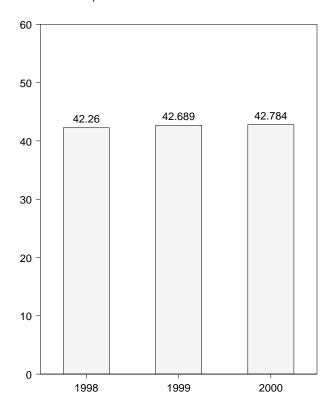
Figure 10.3 Petroleum Consumption in OECD Countries

(Million Barrels per Day)

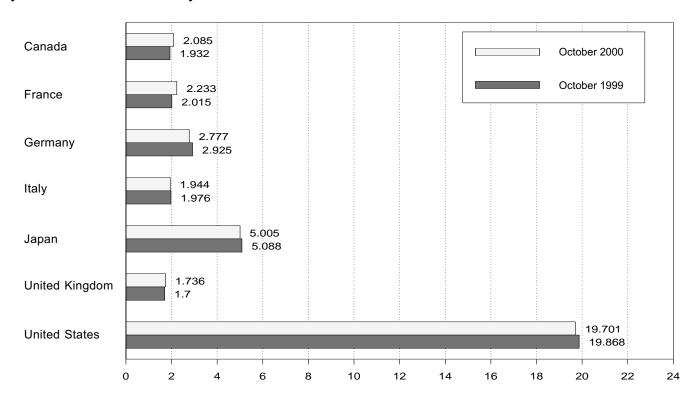
Overview, 1973-1999



OECD Total, October



By Selected OECD Country



Note: OECD is the Organization for Economic Cooperation and Development. • Because vertical scales differ, graphs should not be compared. Source: Table 10.2.

Table 10.2 Petroleum Consumption in OECD Countries

(Thousand Barrels per Day)

	Canada	France	Germany ^a	Italy	Japan	United Kingdom	United States	OECD Europe ^b	Other OECD ^c	OECD ^d
1973 Average	1,729	2,601	3,055	2,068	4,949	2,341	17,308	14,925	988	39,900
1974 Average	1,779	2,447	2,748	2,004	4,864	2,210	16,653	13,988	1,095	38,379
1975 Average	1,779	2,252	2,650	1,855	4,621	1,911	16,322	13,217	1,041	36,980
1976 Average	1,818	2,420	2,877	1,971	4,837	1,892	17,461	14,124	1,119	39,358
1977 Average	1,850	2,294	2,865	1,897	4,880	1,905	18,431	13,916	1,160	40,237
1978 Average	1,902	2,408	2,927	1,952	4,945	1,938	18,847	14,290	1,204	41,187
1979 Average	1,971		3,003			1,971	18,513		1,178	41,379
		2,463		2,039	5,050			14,667		
1980 Average	1,873	2,256	2,707	1,934	4,960	1,725	17,056	13,634	1,072	38,595
1981 Average	1,768	2,023	2,449	1,874	4,848	1,590	16,058	12,515	1,080	36,269
1982 Average	1,578	1,880	2,372	1,781	4,582	1,590	15,296	12,053	1,008	34,517
1983 Average	1,448	1,835	2,324	1,750	4,395	1,531	15,231	11,765	954	33,793
1984 Average	1,472	1,754	2,322	1,646	4,576	1,849	15,726	11,736	989	34,500
985 Average	1,504	1,775	2,338	1,717	4,384	1,634	15,726	11,681	976	34,271
986 Average	1,506	1,772	2,498	1,738	4,439	1,649	16,281	12,102	951	35,279
987 Average	1,548	1,789	2,424	1,855	4,484	1,603	16,665	12,255	959	35,911
988 Average	1,693	1,797	2,422	1,836	4,752	1,697	17,283	12,427	939	37,093
989 Average	1,733	1,857	2,280	1,930	4,983	1,738	17,325	12,531	998	37,570
1990 Average	1,690	1,818	2,382	1,872	5,140	1,752	16,988	12,629	1,027	37,475
1991 Average	1,622	1,935	2,828	1,863	5,284	1,801	16,714	13,391	1,056	38,067
1992 Average	1,643	1,926	2,843	1,937	5,446	1,803	17,033	13,605	1,051	38,778
1993 Average	1,688	1,875	2,900	1,852	5,401	1,815	17,237	13,523	1,117	38,966
1994 Average	1,727	1,833	2,879	1,841	5,674	1,837	17,718	13,597	1,171	39,887
1995 Average	1,755	1,896	2,875	2,048	5,711	1,845	17,725	14,120	1,265	40,575
1996 Average	1,797	1,935	2,911	2,058	5,867	1,845	18,309	14,269	1,190	41,432
997 Average	1,842	1,954	2,903	2,045	5,711	1,781	18,620	14,412	1,221	41,807
998 January	1,835	2,058	2,742	2,041	6,110	1,765	18,362	14,281	1,186	41,774
February	1,820	2,167	2,960	2,160	6,467	1,813	18,316	15,170	1,280	43,053
March	1,815	2,006	3,161	2,121	5,906	1,836	18,685	15,156	1,364	42,926
April	1,782	1,997	2,848	2,027	5,087	1,688	19,044	14,261	1,203	41,377
May	1,723	1,814	2,603	1,900	4,807	1,669	18,375	13,461	1,275	39,642
June	1,872	2,030	2,937	2,102	5,017	1,770	19,182	14,780	1,299	42,150
July	1,938	2,106	3,028	2,106	5,320	1,754	19,466	14,866	1,256	42,847
	1,895	1,857	2,844	1,886	5,286	1,738	19,347	13,996	1,250	41,791
August										
September	1,922	2,073	3,027	2,044	5,102	1,767	18,895	14,887	1,213	42,019
October	1,917	2,008	2,873	2,032	5,094	1,785	19,188	14,728	1,333	42,260
November	1,888	2,082	2,995	2,219	5,617	1,829	18,673	15,338	1,360	42,876
December Average	1,897 1,859	2,188 2,031	2,987 2,916	2,241 2,072	6,384 5,512	1,774 1,765	19,419 18,917	15,525 14,699	1,261 1,275	44,487 42,262
_	•		•	•	·			•	-	
999 January February	1,853 1,975	2,022 2,218	2,561 3,171	2,047 2,108	5,887 6,471	1,670 1,865	19,029 19,107	14,106 15,659	1,144 1,278	42,019 44,490
March	1,871	2,123	3,549	2,003	6,192	1,838	19,497	15,911	1,435	44,906
April	1,814	2,004	2,431	1,886	5,323	1,685	19,152	13,900	1,336	41,524
	1,899	1,728	2,472	1,764	4,788	1,619	18,705	13,150	1,271	39,813
May	1,903	2,007	2,472	1,764	4,768	1,683	19,836	14,261	1,390	42,357
June	1,903	1,998	2,587	1,933	5,091	1,674	19,820	13,950	1,390	42,337
July	,	,	,							
August	1,932	1,890	2,735	1,795	5,277 5,350	1,678	20,093	13,759	1,388	42,448
September	2,010	1,988	2,876	2,060	5,359	1,703	19,483	14,486	1,254	42,592
October	1,932	2,015	2,925	1,976	5,088	1,700	19,868	14,413	1,387	42,689
November	2,021	2,155	2,968	2,067	5,732	1,784	19,087	15,233	1,290	43,363
December Average	2,020 1,933	2,196 2,027	2,929 2,822	2,111 1,975	6,744 5,572	1,716 1,717	20,498 19,519	15,379 14,508	1,486 1,327	46,127 42,859
J	•		•	,	-	-		•	•	-
2000 January	1,875	2,144	2,394	1,911	5,404	R 1,649	18,592	R 14,013	1,371	R 41,254
February	2,079	2,120	2,707	2,077	6,347	^R 1,738	19,296	R 14,959	1,298	R 43,979
March	1,905	2,101	2,733	1,982	6,211	^R 1,833	19,064	R 14,754	1,396	R 43,329
April	1,814	1,925	2,630	1,863	5,196	^R 1,591	18,590	^R 13,717	1,240	R 40,557
May	2,033	1,837	2,676	1,835	4,871	^R 1,604	19,345	^R 13,955	1,299	^R 41,503
June	R 2,004	1,945	2,701	1,997	4,880	R 1,639	19,833	R 14,232	1,275	R 42,224
July	^R 1,935	1,947	2,746	1,898	5,230	1,583	19,584	R 13,880	1,272	^R 41,901
August	R 2,014	1,958	3,069	1,900	5,483	1,706	20,224	R 14,646	1,403	R 43,770
September	R 2,051	1,784	2,982	2,016	5,429	1,739	19,741	R 14,584	1,202	R 43,006
October	2,085	2,233	2,777	1,944	5,005	1,736	19,701	14,642	1,351	42,784
10-Mo. Avg	1,979	2,000	2,741	1,941	5,402	1,682	19,398	14,336	1,312	42,426
1999 10-Mo. Avg	1,915	1,997	2,797	1,952	5,436	1,710	19,462	14,348	1,315	42,476
1998 10-Mo. Avg	1,852	2,010	2,901	2,041	5,413	1,758	18,890	14,552	1,268	41,975

^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 Fast Germany and West Germany.

consists of Canada, Japan, the United States, "OECD Europe" and "Other OECD." $\begin{tabular}{ll} \end{tabular} \label{table_equation} \end{tabular}$

R=Revised

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. Sources: United States: Table 3.1a. All Other Data:

Sources: United States: Table 3.1a. All Other Data: 1973-1979—International Energy Agency (IEA), Annual Oil and Gas Statistics of OECD Countries. 1980 forward—IEA, quarterly and monthly computer tapes supporting Quarterly Oil Statistics and Energy Balances.

the unified Germany, i.e., the former East Germany and West Germany.

b "OECD Europe" consists of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Turkey, and the United Kingdom.

Kingdom.

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

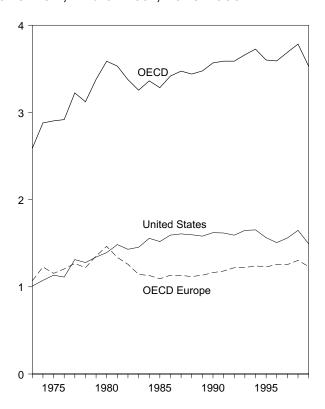
Territories. $\ensuremath{^{\text{d}}}$ The Organization for Economic Cooperation and Development (OECD)

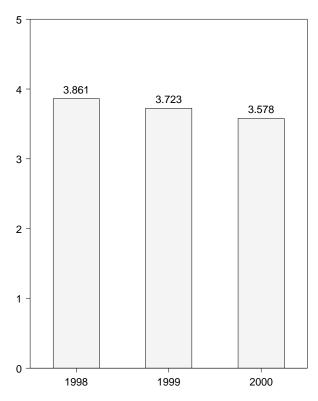
Figure 10.4 Petroleum Stocks in OECD Countries

(Billion Barrels)

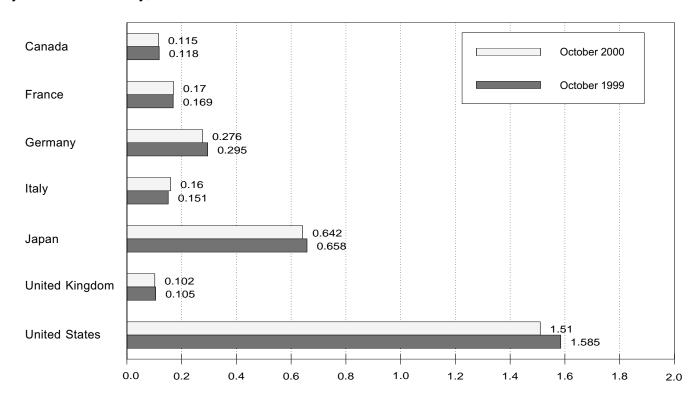
Overview, End of Year, 1973-1999

OECD Stocks, End of Month, October





By Selected Country, End of Month



Notes: • OECD is the Organization for Economic Cooperation and Development. • Because vertical scales differ, graphs should not be compared. Source: Table 10.3.

Table 10.3 Petroleum Stocks in OECD Countries

(Million Barrels)

						United	United	OECD	Other	
	Canada	France	Germany ^a	Italy	Japan	Kingdom	States	Europeb	OECDc	OECD d
1072 Voor	140	201	101	450	303	156	1 000	1.070	67	2 500
1973 Year			181	152		156	1,008	1,070	67	2,588
1974 Year	145	249	213	167	370	191	1,074	1,227	64	2,880
1975 Year	174	225	187	143	375	165	1,133	1,154	67	2,903
1976 Year	153	234	208	143	380	165	1,112	1,205	68	2,918
1977 Year	167	239	225	161	409	148	1,312	1,268	68	3,224
1978 Year	144	201	238	154	413	157	1,278	1,219	68	3,122
1979 Year	150	226	272	163	460	169	1,341	1,353	75	3,379
1980 Year	164	243	319	170	495	168	1,392	1,464	72	3,587
1981 Year	161	214	297	167	482	143	1,484	1,337	67	3,531
1982 Year	136	193	272	179	484	125	1,430	1,258	68	3,376
1983 Year	121	153	249	149	470	118	1,454	1,142	68	3,255
1984 Year	128	152	239	159	479	112	1,556	1,130	69	3,362
1985 Year	113	139	233	157	494	123	1,519	1,092	66	3,284
1986 Year	111	127	252	155	509	124	1,593	1,133	72	3,418
1987 Year	126	127	259	169	540	121	1,607	1,130	71	3,474
1988 Year	116	140	266	155	538	112	1,597	1,118	71	3,440
1989 Year	114	138	271	164	577	118	1,581	1,133	71	3,476
1990 Year	121	140	265	172	590	112	1,621	1,163	73	3,568
1991 Year	119	153	288	160	606	119	1,617	1,181	65	3,588
1992 Year	107	146	310	174	603	113	1,592	1,219	67	3,588
1993 Year	105	158	309	163	618	118	1,647	1,221	69	3,661
1994 Year	119	158	312	164	645	115	1,653	1,240	69	3,726
1995 Year	109	159	301	162	630	107	1,563	1,228	71	3,601
1996 Year	103	158	300	152	651	108	1,507	1,256	74	3,591
1997 Year	115	164	298	147	685	104	1,560	1,255	74	3,689
1998 January	118	163	298	154	673	111	1,570	1,277	75	3,712
February	117	161	290	155	664	108	1,569	1,272	72	3,693
March	123	155	285	146	655	108	1,587	1,245	74	3,683
April	120	163	292	161	658	105	1,614	1,274	76	3,741
May	118	171	306	168	667	111	1,652	1,336	79	3,853
	116	164	308	164	658	109	1,651	1,311	82	3,818
June										
July	115	164	313	157	660	108	1,661	1,301	76	3,813
August	118	168	319	161	672	105	1,669	1,322	77	3,858
September	119	170	317	158	676	107	1,652	1,324	79	3,852
October	120	170	321	162	676	109	1,649	1,346	70	3,861
November	121	161	320	157	675	99	1,672	1,314	71	3,852
December	118	161	321	153	649	108	1,647	1,303	66	3,784
1999 January	118	181	329	154	645	110	1,642	1,364	72	3,841
February	118	175	320	146	633	109	1,635	1,323	74	3,783
March	120	179	306	149	634	109	1,620	1,308	71	3,754
	119	179	316	153	636	110		1,333	7 T	3,787
April							1,624			
May	120	182	317	154	637	106	1,658	1,342	74	3,829
June	118	177	310	146	638	102	1,642	1,304	73	3,776
July	115	174	313	145	645	103	1,644	1,310	76	3,790
August	114	178	307	151	661	108	1,622	1,324	78	3,799
September	114	173	300	150	652	105	1,615	1,289	77	3,747
October	118	169	295	151	658	105	1,585	1,288	73	3,723
November	116	169	290	150	659	103	1,571	1,257	76	3,678
December	108	163	287	148	629	104	1,493	1,232	69	3,530
2000 January	110	166	207	150	622	104	1 470	1 252	60	2 525
2000 January	112	166	297	153	622	104	1,479	1,253	69 70	3,535
February	108	167	289	149	613	106	1,470	1,245	72	3,509
March	110	170	284	154	606	106	1,478	1,243	66	3,502
April	112	171	280	152	618	104	1,508	1,222	69	3,529
May	110	172	279	148	634	97	1,526	1,206	72	3,548
June	110	174	277	152	632	99	1,533	1.224	71	3,569
July	R 117	171	281	150	639	105	1,544	R 1,244	77	R 3,620
August	R 117	171	274	153	639	101	1,537	R 1,234	66	R 3,594
	112	171	274	156	627	99	1,537	1,242	75	3,588
September										
October	115	170	276	160	642	102	1,510	1,239	71	3,578

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

R=Revised.

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 at sea. 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.

Sources: **United States:** Table 3.1a. **All Other Data:** International Energy Agency, quarterly and monthly computer tapes supporting *Quarterly Oil Statistics and Energy Balances*.

D "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.

Kingdom.

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

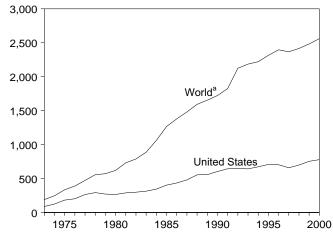
Territories.

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

Figure 10.5 Nuclear Electricity Gross Generation

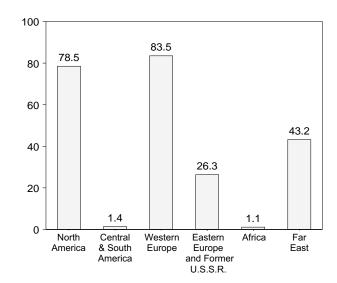
(Billion Kilowatthours)

U.S. and World, 1973-2000

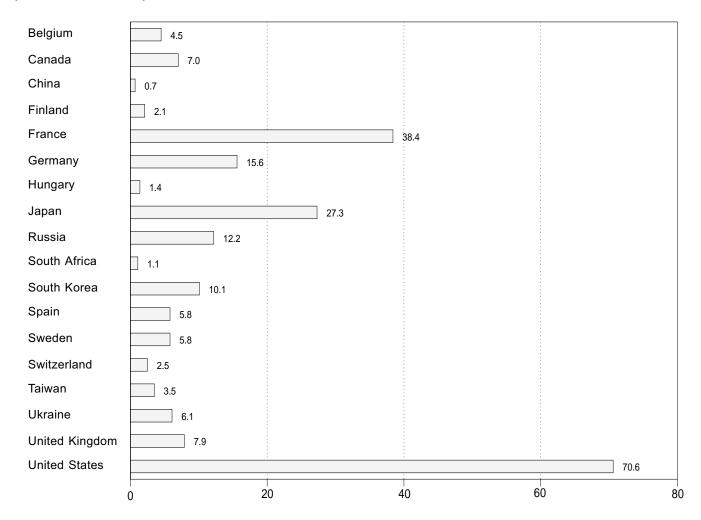


^aEastern Europe and the Former U.S.S.R. are included beginning in 1992.

By Region, December 2000



By Selected Country, December 2000



Note: Because vertical scales differ, graphs should not be compared. Sources: Tables 10.4a-10.4e.

Table 10.4a Nuclear Electricity Gross Generation: Regions and World

	North America	Central and South America	Western Europe ^a	Eastern Europe and Former U.S.S.R. ^a	Africa	Far East ^a	World ^{a,b}
	America	Couli America	Luiope	0.0.0.14.	Alliou	i di Lust	World
1973 Total	103.1	_	73.9	NA	_	12.3	189.3
1974 Total	139.7	1.0	83.9	NA	-	21.4	246.0
1975 Total	195.5	2.5	111.7	NA	-	24.4	334.1
1976 Total	219.8	2.6	126.2	NA	-	40.3	388.9
1977 Total	290.8	1.6	148.1	NA NA	-	31.5	472.0
1978 Total	325.4	2.9 2.7	166.9	NA NA	_	60.6	555.9 570.7
1979 Total1980 Total	309.0 305.8	2.7	184.3 214.2	NA NA	_	74.7 97.4	570.7 619.8
1981 Total	331.8	2.8	293.4	NA NA	_	102.9	730.9
1982 Total	341.2	1.9	321.8	NA NA	_	123.6	788.5
1983 Total	366.6	3.6	377.2	NA	_	140.1	887.5
1984 Total	397.6	6.6	485.4	NA	4.2	167.7	1,061.5
1985 Total	465.6	9.1	582.8	NA	5.9	202.0	1,265.4
1986 Total	508.8	5.8	631.5	NA	9.3	223.6	1,378.9
1987 Total	560.1	6.2	648.3	NA	6.6	259.5	1,480.7
1988 Total	639.7	5.5	688.1	NA	11.1	248.5	1,592.8
1989 Total	640.2	6.6	732.2	NA	11.7	263.4	1,654.1
1990 Total	681.3	9.4	738.6	NA NA	8.9	284.3	1,722.5
1991 Total	733.4	9.2	769.7	NA F 267 F	9.7	303.3	1,825.2
1992 Total	735.2 744.6	8.8 8.1	787.8 820.9	^E 267.5 ^E 259.0	9.9 7.7	315.2 ^E 345.2	^{b E} 2,124.5 ^E 2,185.6
1993 Total	744.6 787.3	8.2	820.2	E 227.8	10.3	E 366.7	E 2,220.4
1995 Total	816.1	9.6	E 835.7	E 234.9	11.9	= 366.7 E 407.0	E 2,315.1
1996 Total	806.4	9.8	E 879.5	E 261.6	12.5	E 426.4	E 2,396.3
1997 Total	E 752.8	11.1	E 886.5	E 247.1	13.3	^E 456.2	E 2,367.0
4000 1	E 00.4	4.0	F 0.4.0	F 0.4.0	4.0	E 00.4	E 04.4.0
1998 January	E 66.1 E 60.2	1.0	E 84.2 E 77.1	E 24.0 E 23.3	1.3	^E 38.4 ^E 31.8	E 214.9 E 194.6
February March	E 63.8	.9 1.1	E 79.6	E 24.6	1.2 1.4	E 39.3	E 209.8
April	E 56.0	1.1	E 72.2	E 21.1	1.4	E 40.1	E 191.7
May	E 59.4	1.0	E 69.7	E 18.9	.7	E 40.2	E 189.8
June	E 63.9	1.0	E 66.5	E 17.3	1.2	E 38.6	E 188.4
July	E 71.1	.8	E 65.4	E 16.8	1.4	E 43.5	E 199.0
August	E 70.2	.7	E 62.5	E 18.4	1.2	E 44.4	E 197.5
September	E 65.7	1.1	E 69.2	E 17.5	.9	E 39.3	E 193.6
October	^E 65.4	.9	E 75.2	E 19.8	1.4	E 39.0	E 201.6
November	E 66.7	.3	E 78.2	^E 21.5	1.2	E 39.6	E 207.5
December	_ ^E 72.7	.9	_ ^E 84.4	_ ^E 25.8	1.1	_ ^E 43.0	_ ^E 227.9
Total	^E 781.0	10.8	^E 884.2	E 248.9	14.3	^E 477.2	E 2,416.4
1999 January	E 74.4	E 1.2	E 84.7	E 27.4	.9	E 40.7	E 229.3
February	E 66.2	1.1	E 75.0	E 24.8	.8	E 35.7	E 203.5
March	E 69.0	1.1	E 79.0	E 26.8	1.4	40.6	E 218.0
April	^E 59.9	1.1	^E 71.8	^E 22.6	1.4	E 39.2	^E 195.9
May	^E 63.2	.8	_ 66.5	E 20.2	1.2	E 37.7	E 189.7
June	E 68.6	.7	E 67.1	E 18.7	1.3	E 36.2	E 192.6
July	E 74.5	E.7	E 66.3	E 19.2	1.3	E 41.3	E 203.3
August	E 76.9 E 70.9	.8 .7	E 66.6 E 68.1	E 19.2 E 19.5	1.2 .9	E 43.3 E 40.1	E 208.0 E 200.3
September October	E 66.1	. <i>1</i> .8	E 74.1	E 19.8	.9 .7	E 40.6	E 202.1
November	E 69.6	1.0	E 77.1	E 21.6	1.2	E 41.4	E 212.0
December	_ ^E 78.0	1.1	_ ^E 81.7	E 24.6	1.3	_ ^E 41.1	E 228.0
Total	E 837.3	^E 11.1	E 878.1	E 264.7	13.5	^E 478.0	E 2,482.6
2000 lonuon/	E 77 7	4.0	RE 82.0	E 07 0	4.0	E 40.8	RE 230.3
2000 January	E 77.7 E 70.4	1.2 1.1	RE 76.6	E 27.3 E 25.8	1.3 1.3	E 37.9	RE 213.0
February March	E 69.7	9	RE 80.5	E 26.5	1.3	E 42.9	RE 221.7
April	E 63.6	E .8	RE 72.6	E 21.7	.8	E 41.6	RE 201.2
May	E 69.9	.5	RE 69.6	E 20.9	.7	E 41.5	RE 203.2
June	E 73.8	.7	RE 68.7	E 22.0	1.2	E 40.5	RE 206.8
July	E 79.1	.8	RE 66.5	E 20.7	1.3	E 43.7	RE 212.1
August	E 76.5	E 1.0	RE 66.6	E 19.3	1.1	E 43.4	RE 207.9
September	E 69.2	.8	RE 70.1	E 23.9	1.2	E 39.6	RE 204.8
October	E 63.2	.8	RE 77.6	E 25.5	1.4	E 40.2	RE 208.7
November	^E 68.5	1.6	RE 78.7	^E 25.3	1.2	^E 41.8	RE 217.1
December	_ ^E 78.5	1.4 ^E 11.5	E 83.5	_ ^E 26.3	1.1	_ ^E 43.2	E 234.0
Total	^E 860.3		E 893.1	^E 285.3	13.6	^E 497.1	E 2,560.9

Notes: Net figures are generally less than gross figures by about 5 percent, the difference being the energy consumed by the generating plants

themselves. Monthly data may not sum to annual totals due to independent rounding and because precommercial generation is included in some annual totals but not in the monthly data. Data for regions may not sum to totals due to independent rounding.

Source: Based on data from Nucleonics Week, a copyrighted publication of The McGraw-Hill Publishing Companies, Inc. Used with permission.

 ^a Sum of available data only.
 ^b There is a discontinuity in this time series between 1991 and 1992; beginning in 1992, includes data for Eastern Europe and the Former U.S.S.R.

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

Table 10.4b Nuclear Electricity Gross Generation: North, Central, and South America (Billion Kilowatthours)

		North	America		Centr	al and South Am	erica
	Canada	Mexico	United States	Total	Argentina	Brazil	Total
973 Total	15.3	_	87.8	103.1	_	_	_
974 Total	15.4	_	124.3	139.7	1.0	_	1.0
75 Total	13.2	_	182.3	195.5	2.5	_	2.5
76 Total	18.0	_	201.8	219.8	2.6	_	2.6
77 Total	26.6	_	264.2	290.8	1.6	_	1.6
78 Total	33.0	_	292.4	325.4	2.9	_	2.9
79 Total	38.4	_	270.6	309.0	2.7	_	2.7
80 Total	40.4	_	265.4	305.8	2.3	_	2.3
81 Total	43.3	_	288.5	331.8	2.8	_	2.8
82 Total	42.6	_	298.6	341.2	1.9	0.1	1.9
83 Total	53.0	_	313.6	366.6	3.4	.2	3.6
84 Total	53.8	_	343.8	397.6	4.5	2.1	6.6
85 Total	62.9	_	402.7	465.6	5.8	3.4	9.1
86 Total	74.6	_	434.1	508.8	5.7	.1	5.8
87 Total	80.6	_	479.5	560.1	5.2	1.0	6.2
88 Total	85.6	_	554.1	639.7	5.1	.3	5.5
89 Total	83.2	_	557.0	640.2	5.0	1.6	6.6
90 Total	75.8	2.1	603.4	681.3	7.4	2.0	9.4
91 Total	86.1	4.2	643.0	733.4	7.7	1.4	9.2
92 Total	81.3	3.9	650.0	735.2	7.1 7.1	1.8	8.8
993 Total	97.6	4.9	642.0	744.6	7.7	.4	8.1
994 Total	110.7	4.2	672.4	787.3	8.2	.0	8.2
					6.2 7.1		
995 Total	100.4	7.9	707.7	816.1		2.5	9.6
996 Total	95.2	7.9	703.3	806.4	7.4	2.4	9.8
997 Total	84.1	10.4	^E 658.3	^E 752.8	8.0	3.2	11.1
98 January	6.1	.9	E 59.1	E 66.1	.7	.2	1.0
February	5.5	.8	E 53.9	E 60.2	.7	.2	.9
March	7.2	.9	^E 55.6	^E 63.8	.7	.4	1.1
April	6.0	.5	^E 49.5	^E 56.0	.7	.4	1.1
May	4.7	.8	E 53.9	E 59.4	.7	.3	1.0
June	5.6	.9	^E 57.4	^E 63.9	.7	.3	1.0
July	6.6	.9	^E 63.6	^E 71.1	.5	.3	.8
August	7.3	.9	^E 61.9	E 70.2	.4	.3	.7
September	5.7	.9	^E 59.1	E 65.7	.7	.4	1.1
October	E 4.7	.9	^E 59.8	^E 65.4	.7	.2	.9
November	^E 6.2	.6	^E 59.9	E 66.7	.3	.0	.3
December	E 7.1	.5	^E 65.1	E 72.7	.7	.2	.9
Total	E 72.7	9.5	^E 698.7	^E 781.0	7.5	3.3	10.8
99 January	6.3	.9	E 67.2	E 74.4	E.7	.4	E 1.2
February	E 5.7	.8	^E 59.6	E 66.2	.7	.4	1.1
March	7.2	.9	E 60.9	E 69.0	.7	.4	1.1
April	6.1	.9	^E 52.9	^E 59.9	.7	.3	1.1
May	4.7	.9	^E 57.6	E 63.2	.5	.3	.8.
June	5.5	.9	E 62.2	E 68.6	.5	.2	.7
July	6.1	1.0	^E 67.4	^E 74.5	.5	E .2	E .7
August	6.8	.6	E 69.5	E 76.9	.5	.3	.8
September	6.6	.5	E 63.8	E 70.9	.4	.3	.7
October	6.1	.7	E 59.3	E 66.1	.5	.3	.8
November	6.1	.9	E 62.7	E 69.6	.7	.3	1.0
December	6.7	1.0	E 70.3	E 78.0	.7	.4	1.1
Total	^E 73.9	10.0	^E 753.4	E 837.3	E 7.1	E 4.0	E 11.1
100 January	7.1	.7	E 69.9	E 77.7	.7	.4	1.2
February	6.3	.6	E 63.6	E 70.4	.7	.4	1.1
March	6.2	.6	E 63.0	E 69.7	. <i>r</i> .5	.4	.9
April	5.2	.5	E 57.9	E 63.6	E .5	.4	E .8
May	6.0	.5	E 63.4	E 69.9	.5	.0	.5
June	6.1	.6	E 67.0	E 73.8	.7	.0	.7
July	7.2	.8	E 71.1	^E 79.1	.7 .7	(s)	.8
	6.8	.o .5	E 69.2	E 76.5	.,₁ E.7	.2	.o E 1.0
August		.5 .5	E 63.6	E 69.2	.4	.4	.8
August		.:)	0.5.0	U3.Z	.4	.4	.0
September	5.1			Ecoo	2	E	^
September October	5.0	1.0	E 57.3	E 63.2	.3	.5	.8
September				E 63.2 E 68.5 E 78.5	.3 .5 .2	.5 1.1 1.2	.8 1.6 1.4

⁻⁼Not applicable. E=Estimate. (s)=Less than 0.05 billion kilowatthours. Notes: Net figures are generally less than gross figures by about 5 percent, the difference being the energy consumed by the generating plants themselves. Monthly data may not sum to annual totals due to independent rounding and because precommercial generation is included in

some annual totals but not in the monthly data. Data for countries may not sum to regional totals due to independent rounding. U.S. geographic coverage is the 50 States and the District of Columbia.

Source: Based on data from *Nucleonics Week*, a copyrighted publication of The McGraw-Hill Publishing Companies, Inc. Used with permission.

Table 10.4c Nuclear Electricity Gross Generation: Western Europe

						Wes	tern Europe					
	Belgium	Finland	France	G ermany ^a	Italy b	Nether- lands	Slovenia	Spain	Sweden	Switzer- land	United Kingdom ^c	Total ^d
1973 Total 1974 Total	0.0 .1	<u>-</u>	14.7 14.7	11.9 12.0	3.1 3.4	1.1 3.3	<u>-</u>	6.5 7.2	2.1 2.3	6.2 7.0	28.2 33.8	73.9 83.9
1975 Total	6.8	-	18.3	21.7	3.8	3.3	_	7.5	12.0	7.7	30.5	111.7
1976 Total	10.0	_	15.8	24.5	3.8	3.9	_	7.6	16.0	7.9	36.8	126.2
1977 Total	11.9	2.7	17.9	36.0	3.4	3.7	_	6.5	19.9	8.1	38.1	148.1
1978 Total	12.5	3.3	30.6	35.7	4.5	4.1	_	7.6	23.8	8.3	36.6	166.9
1979 Total 1980 Total	11.4 12.5	6.7 7.0	39.9 61.2	42.2 43.7	2.6 2.2	3.5 4.2	_	6.7 5.2	21.0 26.7	11.8 14.3	38.5 37.2	184.3 214.2
1981 Total	12.8	14.5	105.2	53.4	2.7	3.7	_	9.4	37.7	15.2	38.9	293.4
1982 Total	15.6	16.5	108.9	63.4	6.8	3.9	_	8.8	38.8	15.0	44.1	321.8
1983 Total	24.1	17.4	144.2	65.8	5.8	3.6	NA	10.7	40.4	15.5	49.6	377.2
1984 Total	27.7	18.5	191.2	92.6	6.9	3.8	NA	23.1	51.3	16.3	54.1	485.4
1985 Total	34.5	18.8	224.0	125.8	7.0	3.9	NA	28.0	58.6	22.4	59.7	582.8
1986 Total	38.6	18.8	254.3	118.9	8.7	4.2	NA	37.5	69.9	22.5	58.2	631.5
1987 Total	41.9	19.4	265.5	130.2	.2	3.6	NA	41.2	67.2	23.0	56.2	648.3
1988 Total	43.1	19.3	274.9	145.2	.0	3.7	NA	50.4	69.4	22.7	59.4	688.1
1989 Total	41.2	18.8	302.5	149.6	.0	4.0	NA	56.1	65.6	22.8	71.6	732.2
1990 Total	42.7	18.9	314.1	147.2	.0	3.4	NA	54.3	68.2	23.6	66.1	738.6
1991 Total	42.9 43.5	19.2	331.4	147.3	.0	3.3	NA 4.0	55.6	76.8	22.9	70.4 70.5	769.7
1992 Total 1993 Total	43.5 41.9	19.0 19.6	337.6 366.7	158.8 153.5	.0 .0	3.8 3.9	4.0 4.0	55.8 56.1	63.5 61.4	23.4 23.3	78.5 90.4	787.8 820.9
1994 Total	40.6	19.1	359.1	151.1	.0 .0	4.0	4.6	55.1	72.8	24.2	89.5	820.2
1995 Total	41.4	18.9	377.6	154.3	.0	4.0	4.8	54.5	69.9	24.8	E 85.5	E 835.7
1996 Total	43.3	19.5	397.0	161.7	.0	4.2	4.6	59.1	76.2	25.0	E 88.8	E 879.5
1997 Total	47.4	20.9	389.3	170.4	.0	3.1	5.4	55.4	E 70.6	25.3	E 98.8	E 886.5
1998 January	4.4	2.0	37.5	15.9	.0	.3	.5	5.1	7.6	2.4	E 8.4	E 84.2
February	4.0	1.8	34.7	14.0	.0	.3	.4	5.1	6.7	2.2	E 8.0	E 77.1
March	3.7	2.0	34.7	14.0	.0	.4	.5	4.6	7.3	2.4	E 10.1	E 79.6
April	3.3	1.9	31.2	14.1	.0	(s)	.3	4.4	7.2	2.1	E 7.4	E 72.2
May	4.0	1.4	29.9	12.2	.0	.3	.3	4.8	6.9	2.1	E 7.6	E 69.7
June	3.5	1.6	28.7	10.8	.0	.1	.4 .5	5.1 ^E 5.1	5.0	1.7	E 9.5 E 6.9	E 66.5 E 65.4
July	2.9 3.8	1.9 1.6	29.4 26.0	12.5 12.9	.0 .0	.3 .4	.5 .5	E 5.1	4.1 3.3	1.9 1.4	E 7.6	E 62.5
August September	4.1	1.6	29.0	12.0	.0	.3	.5 .5	E 5.1	3.3 4.7	2.3	E 9.7	E 69.2
October	3.9	2.0	33.2	14.0	.0	.4	.5 .5	E 4.4	6.2	2.4	E 8.2	E 75.2
November	4.1	2.0	34.2	14.0	.0	.3	.5	E 4.6	7.1	2.4	E 9.0	E 78.2
December	4.5	2.1	36.0	14.6	.0	.4	.5	E 5.0	7.6	2.5	E 11.3	E 84.4
Total	46.1	21.9	384.4	161.0	.0	3.8	5.3	^E 58.6	73.8	25.7	E 103.7	E 884.2
1999 January	4.5	2.1	38.0	15.1	.0	.4	.5	5.4	7.6	2.4	E 8.8	E 84.7
February	4.0	1.9	33.6	13.1	.0	.3	.4	4.1	6.9 ^E 7.5	2.2	E 8.3	E 75.0 E 79.0
March April	4.4 3.8	2.1 2.0	34.3 31.5	14.2 14.0	.0 .0	.4 .3	.4 .0	4.2 3.7	6.7	2.3 2.1	9.3 ^E 7.7	E 71.8
May	4.2	1.6	26.6	12.8	.0	.4	.1	5.1	5.9	2.3	7.6	66.5
June	3.9	1.9	E 26.6	13.4	.0	.3	.4	4.7	E 5.2	2.0	8.8	E 67.1
July	3.8	1.9	30.0	E 13.4	.0	.3	.5	4.9	3.7	1.2	6.5	E 66.3
August	3.8	1.7	29.1	13.5	.0	.3	.5	5.5	4.3	1.1	E 7.0	E 66.6
September	3.5	1.7	29.5	E 13.5	.0	.1	.5	4.9	4.8	1.9	7.7	E 68.1
October	4.3	2.1	31.7	E 13.5	.0	.4	.5	5.3	7.0	2.3	7.1	^E 74.1
November	4.3	2.0	32.4	15.1	.0	.3	.5	5.5	7.3	2.4	7.3	E 77.1
December Total	4.5 49.0	2.1 23.0	34.2 E 377.4	16.2 E 167.8	.0 .0	.4 3.8	.5 4.7	5.6 58.9	7.7 E 74.5	2.5 24.8	E 8.1 E 94.1	E 81.7 E 878.1
2000 January	4.3	2.1	RE 36.2	15.8	.0	.4	.5	E 5.6	7.1	2.5	7.5	RE 82.0
February	3.2	1.9	RE 35.3	13.9	.0	.3	.5	5.3	6.8	2.3	7.5 7.0	RE 76.6
March	4.1	2.1	RE 37.4	13.3	.0	.3	.5	5.2	6.5	2.5	8.6	RE 80.5
April	3.7	1.9	RE 34.0	12.9	.0	.3	E .5	4.7	5.3	2.4	E 6.9	^{RE} 72.6
May	3.9	1.5	RE 32.8	13.9	.0	.4	.0	5.1	3.3	E 2.4	E 6.4	^{RE} 69.6
June	E 3.6	1.8	RE 32.8	12.3	.0	.3	.2	5.5	3.0	2.3	7.0	RE 68.7
July	3.5	1.8	RE 31.0	14.0	.0	.4	.5	5.6	2.1	1.4	6.2	RE 66.5
August	4.0	1.5	RE 31.7	13.2	.0	.3 .3 .2	.5	5.2	2.6	1.1	6.5	RE 66.6
September	E 4.1	1.7	RE 33.2	E 13.2	.0	.3	.4	4.2	4.1	2.1	6.9	RE 70.1
October	4.5	2.0	RE 35.9	15.3	.0	.2	.5	4.6	5.1	2.5	7.0 F 7.0	RE 77.6
November December	4.4	2.0	RE 36.5	14.9 15.6	.0	.3	.5	5.3	5.4	2.4	E 7.0	RE 78.7
Total	4.5 E 47.8	2.1 22.5	E 38.4 415.2	15.6 E 168.3	.0 .0	.4 3.9	.5 E 5.0	5.8 E 62.0	5.8 57.2	2.5 E 26.3	7.9 E 84.9	83.5 ^E 893.1
10tai	47.0	22.5	+13.2	100.3	.0	3.3	3.0	02.0	31.2	20.3	04.3	093.1

^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 In 1987, Italy's citizens voted for a nuclear power moratorium, which shut dataset the contraction of the first contraction.

Net figures are generally less than gross figures by about 5 percent,

down their nuclear power plants indefinitely.

^c Monthly data for the United Kingdom are totals for 4- or 5-week reporting periods, not calendar months.

d Sum of available data only.

R=Revised. NA=Not available. -=Not applicable. E=Estimate. (s)=Less than 0.05 billion kilowatthours.

Monthly data may not sum to annual totals due to independent rounding and because precommercial generation is included in some annual totals due to independent rounding and because precommercial generation is included in some annual totals but not in the monthly data.

Data for countries may not sum to regional totals due to

independent rounding.

Source: Based on data from *Nucleonics Week*, a copyrighted publication of The McGraw-Hill Publishing Companies, Inc., used with permission, except for France's 2000 values, which are from the Ministry of Industry, General Directorate for Energy and Raw Material, France.

Table 10.4d Nuclear Electricity Gross Generation: Eastern Europe and Former U.S.S.R.

					Eastern Euro	pe and Form	er U.S.S.R.				
	Armenia ^a	Bulgaria	Czech Republic ^b	Hungary	Kazakhstan ^b	Lithuania ^b	Romania	Russia	Slovakia ^b	Ukraine	Total ^c
1973 Total 1974 Total	_	_ NA	<u>-</u>	_	NA NA	_	_	NA NA	NA NA		NA NA
1975 Total	_	NA	-	-	NA	_	-	NA	NA	-	NA
1976 Total 1977 Total	_	NA NA		_	NA NA	_	<u>-</u>	NA NA	NA NA	_	NA NA
1978 Total	_	NA	_	_	NA	_	_	NA	NA	NA	NA
1979 Total	_	NA	_	-	NA	_	-	NA	NA	NA	NA
1980 Total	_	NA		-	NA	-	-	NA	NA	NA	NA
1981 Total 1982 Total	_	NA NA	_	_	NA NA	_	_	NA NA	NA NA	NA NA	NA NA
1983 Total	_	NA	_	NA	NA	_	_	NA	NA	NA	NA
1984 Total	-	NA	_	NA	NA	-	_	NA	NA	NA	NA
1985 Total	_	NA	NA	NA	NA	NA	_	NA	NA	NA	NA
1986 Total	_	NA NA	NA NA	NA NA	NA NA	NA NA	-	NA NA	NA NA	NA NA	NA NA
1987 Total 1988 Total	_	NA NA	NA NA	NA NA	NA NA	NA NA	_	NA NA	NA NA	NA NA	NA NA
1989 Total	_	NA	ŇÄ	NA	ŇÄ	ŇÄ	_	NA	NA	NA	NA
1990 Total	_	NA	NA	NA	NA	NA	_	NA	NA	NA	NA
1991 Total	_	NA F 4 2 2	NA F 12.0	NA F 4 2 0	Ν̈́Α	NA F 1 C 1	-	NA F 40F C	NA F 11 7	NA F 74 C	NA F 267 F
1992 Total 1993 Total	_	E 12.2 14.0	E 12.9 E 13.2	E 13.8 13.8	^E .5 ^E .4	E 16.4 E 12.9	<u>-</u>	E 125.6 120.4	E 11.7 E 11.6	E 74.6 E 72.7	E 267.5 E 259.0
1994 Total	_	14.9	E 12.7	14.0	E .4	E 7.0	=	97.7	E 12.7	68.4	E 227.8
1995 Total	-	17.2	^E 12.8	14.0	E .4	^E 9.7	_	98.3	^E 12.0	70.4	E 234.9
1996 Total	NA.	18.7	E 13.5	14.2	E.1	E 13.6	E 1.0	108.8	^E 11.8	80.0	E 261.6
1997 Total	1.4	E 15.5	NA	14.0	^E .3	12.1	3.9	108.1	11.0	80.8	E 247.1
1998 January	.3	1.1	NA	1.3	NA	1.3	.5	11.6	1.1	6.6	E 24.0
February March	.3 .2	1.9 2.2	NA NA	1.2 1.1	NA NA	1.2 1.3	.4 .5	10.6 11.1	.9 .9	6.7 7.2	E 23.3 E 24.6
April	.1	2.2	NA	.9	NA NA	1.0	.4	8.5	.9 .9	7.1	E 21.1
May	.1	2.2	NA	1.0	NA	1.1	.0	8.1	.8	5.6	E 18.9
June	.1	1.0	NA	1.0	NA	.9	.3	7.4	.8	E 5.0	<u> </u>
July	-1	1.0	NA	1.0	NA	.9	.3	6.7	.8	E 5.0	E 16.8
August September	.1 .1	1.6 1.0	NA NA	1.1 1.3	NA NA	.9 .9	.5 .5	5.5 5.8	.8 .8	6.8 6.0	E 18.4 E 17.5
October	.0	E 1.6	NA	1.4	NA NA	1.2	.5 .5	7.5	.8 .9	5.6	E 19.8
November	.0	E 1.6	NA	1.3	NA	1.3	.5	9.2	.8	5.5	E 21.5
December Total	.0 1.6	1.9 E 19.2	NA NA	1.4 13.9	NA NA	1.4 13.5	.5 5.1	11.6 103.7	.9 10.3	6.8 E 74.0	E 25.8 E 248.9
		E 1.9									E 27.4
1999 January February	.2 .3	E 1.9	NA NA	1.3 1.2	NA NA	1.3 1.1	.5 .5	12.3 10.7	.9 .8	7.7 7.2	E 24.8
March	.3	E 1.9	NA	1.1	NA	1.0	.5	11.7	.9	8.0	E 26.8
April	.3 E .3	E 1.9	NA	1.1	NA	.5	.5	10.2	.8	6.4	E 22.6
May	E.3 E.3	E 1.9 E 1.9	1.0	1.1	.0 .0	.6	.5	8.1 7.6	.9	5.8	E 20.2 E 18.7
June July	3 .2	1.9	1.0 1.0	1.0 1.0	.0 .0	.3 .7	.5 E .5	7.6 8.8	.8 .8	5.2 4.4	E 19.2
August	.2	E 1.0	.9	1.0	.0	.8	.5	8.9	.8	5.1	E 19.2
September	.1	E 1.0	1.0	1.1	.0	.9	.5	8.7	.9	5.4	E 19.5
October	.0	E 1.0	1.2	_ 1.4	.0	1.0	(s)	8.7	1.0	5.6	E 19.8
November	.0 .2	E 1.0 E 1.5	1.3 1.2	E 1.4 1.4	.0 .0	.9 .9	.1	10.9 11.4	.9 1.1	5.1	E 21.6 E 24.6
December Total	E 2.4	E 19.0	13.4	E 14.2	NA	9.9	.5 E 5.2	118.0	10.5	6.3 72.2	E 264.7
2000 January	.3	E 1.5	E 1.2	1.4	.0	.9	.5	13.2	1.1	7.2	E 27.3
February	.3	E 1.5	1.2	1.3	.0	.6	.5	12.3	1.3	6.7	E 25.8
March	.3	E 1.8 E 1.8	1.1	1.1	.0	.7	.5	12.9	1.3	6.7	E 26.5
April May	.3 .3	= 1.8 = 1.8	1.0 1.0	1.0 1.0	.0 .0	.5 .5	.5 .5	9.8 9.2	1.0 1.1	5.8 5.4	E 21.7 E 20.9
June	.3	E 1.8	1.0	1.0	.0	.5 .7	.5 .5	9.5	1.4	5.9	E 22.0
July	E.0	E 1.8	11	1.0	.0	.6	.4	8.5	1.3	6.0	E 20.7
August	.0	E 1.8	E 1.1	.9	.0	.7	4	9.8	1.3	E 3.2	E 19.3
September	.0	E 1.8 E 1.8	E 1.1	1.3	.0	.9	E.5	10.1	1.5	6.7	E 23.9
October November	.0 (s)	- 1.8 - 1.8	1.2 1.3	1.4 1.3	.0 .0	.8 E .8	.1 .5	10.8 10.6	1.6 1.7	7.7 7.3	E 25.5 E 25.3
December	, 3	E 1.8	1.3	1.3	.0	.9	.4	12.2	1.7	6.1	E 26.3
Total	^E 1.9	E 21.3	E 13.8	14.2	.ŏ	^E 8.7	^E 5.5	128.9	16.2	E 74.8	E 285.3
			. 3.0		.0	J.,	3.0	5.0			_50.0

 $^{\rm c}$ Sum of available data only. NA=Not available. - =Not applicable. E=Estimate. (s)=Less than 0.05 billion

totals due to independent rounding.
Source: Czech Republic, Kazakhstan, Lithuania, Slovakia, and Eastern European Countries: See footnote b. All Other: Based on data from *Nucleonics Week*, a copyrighted publication of The McGraw-Hill Publishing Companies, Inc. Used with permission.

^a According to EIA's *Nuclear Power Generation and Fuel Cycle Report 1996*, Armenia has two units; one came on line in November 1995 but no data are available prior to 1997, and the other is projected to come on line in 2001.

^b The total gross generation estimates for Czech Republic, Kazakhstan, Lithuania, and Slovakia are calculated as 5 percent more than the annual net nuclear generation reported by the International Atomic Energy Agency and published in the Energy Information Administration annual reports—1992 and 1993: *World Nuclear Outlook 1994*, December 1994, Table 1. 1994: *Nuclear Power Generation and Fuel Cycle Report 1996*, October 1996, Table 1. 1995 and 1996: *Nuclear Power Generation and Fuel Cycle Report 1997*, Table D4. 1997 forward: Based on data from *Nucleonics Week*, a copyrighted publication of The McGraw-Hill Publishing Companies, Inc. Used with permission.

Notes: Net figures are generally less than gross figures by about 5 percent, the difference being the energy consumed by the generating plants themselves. Monthly data may not sum to annual totals due to independent themselves. Monthly data may not sum to annual totals due to independent rounding and because precommercial generation is included in some annual totals but not in the monthly data. Data for countries may not sum to regional

Table 10.4e Nuclear Electricity Gross Generation: Africa and Far East

	Africa				Far East			
	South Africa ^a	China ^b	India	Japan	Pakistan	South Korea	Taiwan	Total ^c
1973 Total	_	_	2.5	9.4	0.5	_	_	12.3
1974 Total	_	_	1.9	18.9	.6	_	_	21.4
1975 Total	_	-	2.5	21.3	.5	-	-	24.4
1976 Total	_	-	3.2	36.6	.5	-	_	40.3
1977 Total	-	-	2.8	28.2	.3	0.1	0.1	31.5
1978 Total	-	-	2.3	53.1	.2	2.3	2.7	60.6
1979 Total	-	-	3.2	62.0	(s)	3.2	6.3	74.7
1980 Total	_	-	2.9 3.1	82.8 86.0	.1 .2	3.5 2.9	8.2 10.7	97.4 102.9
1981 Total 1982 Total	_	_	2.2	104.5	.1	3.8	13.1	123.6
1983 Total	_	_	2.9	109.1	.2	9.0	18.9	140.1
1984 Total	4.2	_	4.1	127.2	.3	11.8	24.3	167.7
1985 Total	5.9	_	4.5	152.0	.3	16.5	28.7	202.0
1986 Total	9.3	_	5.1	164.8	.5	26.1	26.9	223.6
1987 Total	6.6	-	5.5	182.8	.3	37.8	33.1	259.5
1988 Total	11.1	-	6.1	173.6	.2	38.7	29.9	248.5
1989 Total	11.7	-	4.0	183.7	.1	47.2	28.3	263.4
1990 Total	8.9	-	6.3	191.9	.4	52.8	32.9	284.3
1991 Total	9.7	-	5.4	205.8	.4	56.3	35.3	303.3
1992 Total	9.9 7.7	- E 2.6	6.3 6.2	218.0 243.5	.6 .4	56.4 58.1	33.8 34.3	315.2 ^E 345.2
1993 Total 1994 Total	10.3	E 14.2	5.0	243.5 253.8	. 4 .6	58.3	34.3 34.8	E 366.7
1995 Total	11.9	E 13.0	8.0	286.1	.6 .5	64.0	35.3	E 407.0
1996 Total	12.5	E 14.3	8.3	293.2	.4	72.5	37.8	E 426.4
1997 Total	13.3	E 11.4	E 11.0	318.0	.4	78.9	^E 36.6	^E 456.2
1998 January	1.3	E 1.1	E 1.0	25.2	(s)	7.3	3.7	E 38.4
February	1.2	E.6	E 1.0	21.6	(s)	5.6	3.0	E 31.8
March	1.4	.9	E 1.0	27.3	`.Ó	6.7	3.4	E 39.3
April	1.2	_ 1.3	E _{1.0}	28.2	.0	6.7	2.9	^E 40.1
May	.7	E 1.3	E .8	28.7	(s)	6.5	3.0	E 40.2
June	1.2	_ 1.4	E .8	26.6	.1	6.4	3.3	E 38.6
July	1.4	E 1.4	E .8 E .8	29.7	.1	7.9	3.7	E 43.5
August	1.2	1.4	8 E .9	30.4	.1	8.1	3.6	E 44.4 E 39.3
September	.9 1.4	1.4 E 1.3	E.9	26.5 25.7	.1 .1	7.5 8.4	3.0 2.6	E 39.3
October November	1.2	E 1.3	1.0	27.1	(s)	7.9	2.3	E 39.6
December	1.1	1.2	1.2	29.9	(s)	8.3	2.4	E 43.0
Total	14.3	E 14.5	E 11.2	326.9	.4	87.3	36.9	E 477.2
1999 January	.9	1.2	1.2	27.4	.0	7.6	3.3	E 40.7
February	.8	E .6	1.0	23.8	.0	7.0	3.3	E 35.7
March	1.4	_ 1.0	1.1	27.7	.0	7.9	2.9	_ 40.6
April	1.4	E 1.4	1.0	26.1	.0	7.9	2.7	E 39.2
May	1.2	E 1.5	1.2	24.0	.0	7.8	3.2	E 37.7
June	1.3	E 1.4 E 1.4	1.2	23.1	.0	7.3	3.3	E 36.2
July	1.3 1.2	E 1.4	1.2 .9	28.2 29.1	.0 .0	7.2 8.2	3.3 3.7	E 41.3 E 43.3
August September	.9	E 1.3	.9 1.1	26.5	.0 .0	8.2 8.2	3.0	E 40.1
October	.7	E 1.3	.9	26.5	.0	8.7	3.2	E 40.6
November	1.2	E .9	1.2	27.5	(s)	8.7	3.1	E 41.4
December	1.3	E 1.1	1.1	27.6	(s)	8.2	3.1	E 41.1
Total	13.5	E 14.6	13.2	317.4	.1	94.6	38.2	E 478.0
2000 January	1.3	E.9	1.2	25.6	(s)	9.4	3.6	E 40.8
February	1.3	_E.7	1.2	24.2	(s)	8.6	3.2	E 37.9
March	1.1	E 1.3	_ 1.2	28.3	.1	8.9	3.1	E 42.9
April	. <u>8</u>	E 1.4	E 1.2	28.0	.1	8.3	2.6	E 41.6
May	.7	E 1.4	E 1.2	27.0	.1	8.8	3.1	E 41.5
June	1.2	E 1.4	1.2	25.9	.1	8.4	3.6	E 40.5
July	1.3	E 1.4 E 1.5	E 1.2 E 1.2	28.2	(s)	9.3	3.6 3.5	E 43.7 E 43.4
August	1.1 1.2	E 1.5	- 1.2 1.2	27.5 24.5	.1 (s)	9.8	3.5 2.9	E 39.6
September	1.4	E 1.4	1.4	24.5 25.5	(s) .0	9.6 8.9	2.9 3.0	E 40.2
October November	1.4	- 1.4 1.1	E 1.4	25.5 27.7	.0 .0	8.8	3.0 2.8	E 41.8
December	1.2	E.7	E 1.6	27.7	.0 .0	10.1	3.5	E 43.2
Total	13.6	E 14.7	E 14.8	319.8	. 4	108.9	38.5	E 497.1
	. 5.0		. 4.0	0.0.0		. 55.5	55.5	

^a South Africa possesses all of Africa's nuclear electricity generation.

NA=Not available. - =Not applicable. E=Estimate. (s)=Less than 0.05 billion kilowatthours.

Notes: Net figures are generally less than gross figures by about 5 percent, the difference being the energy consumed by the generating plants themselves. Monthly data may not sum to annual totals due to independent rounding and because precommercial generation is included in some annual totals but not in the monthly data. Data for countries may not sum to regional totals due to independent rounding.

All Other: Based on data from Source: China: See footnote b. Nucleonics Week, a copyrighted publication of The McGraw-Hill Publishing Companies, Inc. Used with permission.

a South Africa possesses all of Africa's nuclear electricity generation.
b The total gross generation estimates for China are calculated as 5 percent more than the annual net nuclear generation reported by the International Atomic Energy Agency (IAEA) and are published in the Energy Information Administration annual reports—1993: World Nuclear Outlook 1994, December 1994, Table 1. 1994: Nuclear Power Generation and Puel Cycle Report 1996, October 1996, Table 1. 1995 and 1996: Nuclear Power Generation and Fuel Cycle Report 1997, September 1997, Table D4. 1997 forward: Based on data from *Nucleonics Week*, a copyrighted publication of The McGraw-Hill Publishing Companies, Inc. Used with permission.

^c Sum of available data only.

Sources for Tables 10.1a and 10.1b

United States—See Table 3.1a.

All Other Countries: Monthly Data

1998-forward: Petroleum Intelligence Weekly, Oil and Gas Journal, and other industry sources.

All Other Countries: Annual Data

1973-1979: Energy Information Administration (EIA), *International Energy Annual 1981*, Table 8. 1980-1999: Office of Energy Markets and End Use, International Energy Database, December 2000. 2000: Average of monthly data.

World: Monthly Data

1998-forward: EIA, International Petroleum Monthly, sum of all countries' monthly data.

World: Annual Data

1973-1979: EIA, International Energy Annual 1981, Table 8.

1980-1999: Office of Energy Markets and End Use, International Energy Database, December 2000.

2000: Average of monthly data.

Appendix A. Thermal Conversion Factors

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 British thermal unit (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.

In general, the annual thermal conversion factors presented in Tables A1 through A6 are computed from final annual data. However, if current year final data are not

available, thermal conversion factors for the current year are computed from the best available data and labeled "preliminary." Usually, 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.

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 more heavily than the thermal conversion factor for propane.

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 Ethanol ^d	3.539	Miscellaneous	5.796

^a 60 percent butane and 40 percent propane. ^b 70 percent ethane and 30 percent propane.

^c 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.

Source: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A2. Approximate Heat Content of Crude Oil, Crude Oil and Products, and **Natural Gas Plant Liquids**

(Million Btu per Barrel)

		Crude Oil		Crude Oil a	nd Products	Natural Gas	
	Production	Imports	Exports	Imports	Exports	Plant Liquids Production	
973	5.800	5.817	5.800	5.897	5.752	4.049	
974	5.800	5.827	5.800	5.884	5.774	4.011	
975	5.800	5.821	5.800	5.858	5.748	3.984	
976	5.800	5.808	5.800	5.856	5.745	3.964	
977	5.800	5.810	5.800	5.834	5.797	3.941	
978	5.800	5.802	5.800	5.839	5.808	3.925	
979	5.800	5.810	5.800	5.810	5.832	3.955	
980	5.800	5.812	5.800	5.796	5.820	3.914	
981	5.800	5.818	5.800	5.775	5.821	3.930	
982	5.800	5.826	5.800	5.775	5.820	3.872	
983	5.800	5.825	5.800	5.774	5.800	3.839	
984	5.800	5.823	5.800	5.745	5.850	3.812	
985	5.800	5.832	5.800	5.736	5.814	3.815	
986	5.800	5.903	5.800	5.808	5.832	3.797	
987	5.800	5.901	5.800	5.820	5.858	3.804	
988	5.800	5.900	5.800	5.820	5.840	3.800	
989	5.800	5.906	5.800	5.833	5.857	3.826	
990	5.800	5.934	5.800	5.849	5.833	3.822	
991	5.800	5.948	5.800	5.873	5.823	3.807	
992	5.800	5.953	5.800	5.877	5.777	3.804	
993	5.800	5.954	5.800	5.883	5.779	3.801	
994	5.800	5.950	5.800	5.861	5.779	3.794	
995	5.800	5.924	5.800	R 5.847	R 5.751	3.794	
996	5.800	R 5.947	5.800	R 5.847	R 5.736	3.777	
997	5.800	5.954	5.800	5.862	R 5.734	3.762	
998	5.800	5.953	5.800	R 5.861	R 5.720	3.762	
999a	5.800	5.942	5.800	R 5.840	R 5.699	3.744	
000a	5.800	R 5.958	5.800	R 5.858	R 5.658	R 3.733	

^a Preliminary.

R=Revised.

Note: Crude oil includes lease condensate.

Source: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A3. Approximate Heat Content of Petroleum Products, Weighted Averages (Million Btu per Barrel)

			Consu	mption						
	Residential	Commercial	Industrial	Transportation	Electric Utilities	Total	Imports	Exports	Liquefied Petroleum Gases Consumption	Motor Gasoline Consumption
1973	5.205	5.749	5.568	5.395	6.245	5.515	5.983	5.752	3.746	5.253
1973	5.205	5.749	5.538	5.394	6.238	5.504	5.959	5.752	3.730	5.253
1975	5.190	5.704	5.528	5.392	6.250	5.494	5.935	5.747	3.715	5.253
1976	5.215	5.726	5.538	5.395	6.251	5.504	5.980	5.747	3.713	5.253
1977	5.213	5.733	5.555	5.400	6.249	5.518	5.908	5.796	3.677	5.253
1978	5.213	5.716	5.553	5.404	6.251	5.519	5.955	5.814	3.669	5.253
1979	5.298	5.769	5.418	5.428	6.258	5.494	5.811	5.864	3.680	5.253
1980	5.245	5.803	5.376	5.440	6.254	5.479	5.748	5.841	3.674	5.253
1981	5.191	5.751	5.313	5.432	6.258	5.448	5.659	5.837	3.643	5.253
1982	5.167	5.751	5.263	5.422	6.258	5.415	5.664	5.829	3.615	5.253
1983	5.022	5.642	5.273	5.415	6.255	5.406	5.677	5.800	3.614	5.253
1984	5.129	5.700	5.223	5.422	6.251	5.395	5.613	5.867	3.599	5.253
1985	5.115	5.660	5.221	5.423	6.247	5.387	5.572	5.819	3.603	5.253
1986	5.130	5.691	5.286	5.427	6.257	5.418	5.624	5.839	3.640	5.253
1987	5.095	5.659	5.253	5.430	6.249	5.403	5.599	5.860	3.659	5.253
1988	5.118	5.657	5.248	5.434	6.250	5.410	5.618	5.842	3.652	5.253
1989	5.057	5.615	5.233	5.440	6.241	5.410	5.641	5.869	3.683	5.253
1990	4.952	5.612	5.272	5.445	6.247	5.411	5.614	5.838	3.625	5.253
1991	4.912	5.591	5.192	5.442	6.248	5.384	5.636	5.827	3.614	5.253
1992	4.943	5.579	5.188	5.445	6.243	5.378	5.623	5.774	3.624	5.253
1993	4.943	5.573	5.200	5.438	6.241	5.379	5.620	5.777	3.606	5.253
1994	4.940	^R 5.583	5.170	5.427	6.231	5.361	5.534	5.777	3.635	^b 5.230
1995	4.928	^R 5.549	^R 5.140	5.419	6.210	5.341	^R 5.503	^R 5.745	3.623	5.215
1996	^R 4.871	^R 5.497	^R 5.136	5.421	6.212	5.336	^R 5.468	^R 5.728	3.613	5.216
1997	R 4.873	^R 5.463	^R 5.139	_ 5.417	6.220	5.336	^R 5.469	^R 5.726	3.616	5.213
1998	R 4.844	^R 5.447	^R 5.156	^R 5.416	6.220	5.349	^R 5.462	^R 5.710	3.614	5.212
1999 ^a	^R 4.751	^R 5.368	^R 5.115	5.419	R 6.208	5.328	^R 5.421	^R 5.684	3.616	5.211
2000 ^a	^R 4.760	^R 5.395	^R 5.089	^R 5.427	^R 6.193	^R 5.326	^R 5.445	^R 5.651	R 3.603	^R 5.210

Note: Weighted averages of the products included in each category are calculated by using heat content values shown in Table A1. Source: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

a Preliminary.
 b Beginning in 1994, the single constant factor is replaced with a quantity-weighted average of motor gasoline's major components. See Table A1.
 R=Revised.

Table A4. Approximate Heat Content of Natural Gas

(Btu per Cubic Foot)

	Produ	uction		Consumption			
	Dry	Marketed	Sectors Other Than Electric Utilities	Electric Utilities	Total	Imports	Exports
973	1,021	1,093	1,020	1,024	1,021	1,026	1,023
974	1,024	1,097	1,024	1,022	1,024	1,027	1,016
975	1,021	1.095	1,020	1,026	1,021	1,026	1,014
976	1,020	1,093	1,019	1,023	1,020	1,025	1,013
977	1,021	1,093	1,019	1,029	1,021	1,026	1,013
978	1,019	1,088	1,016	1,034	1,019	1,030	1,013
979	1,021	1,092	1,018	1,035	1,021	1,037	1,013
980	1,026	1,098	1,024	1,035	1,026	1,022	1,013
981	1,027	1,103	1,025	1,035	1,027	1,014	1,011
982	1.028	1,107	1.026	1.036	1.028	1.018	1.011
983	1,031	1,115	1,031	1,030	1,031	1,024	1,010
984	1,031	1,109	1,030	1,035	1,031	1,005	1,010
985	1,032	1,112	1,031	1,038	1,032	1,002	1,011
986	1,030	1,110	1,029	1,034	1,030	997	1,008
987	1,031	1,112	1,031	1,032	1,031	999	1,011
988	1,029	1,109	1,029	1,028	1,029	1,002	1,018
989	1,031	1,107	1,031	1,030	1,031	1,004	1,019
990	1,031	1,105	1,030	1,034	1,031	1,012	1,018
991	1,030	1,108	1,031	1,024	1,030	1,014	1,022
992	1,030	1,110	1,031	1,022	1,030	1,011	1,018
993	1,027	1,106	1,028	1,022	1,027	1,020	1,016
994	1,028	1,105	1,029	1,022	1,028	1,022	1,011
995	1,027	1,106	1,027	1,025	1,027	1,021	1,011
996	1,027	1,109	1,027	1,024	1,027	1,022	1,011
997	1,026	1,107	1,027	1,019	1,026	1,023	1,011
998	1,031	1,110	1,033	1,022	1,031	1,023	1,011
999a	1,027	1,111	1,028	1,019	1,027	1,022	1,006
000 ^a	1,027	1,111	1,028	1,019	1,027	1,022	1,006

 $^{\rm a}$ Preliminary. Source: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

Table A5. Approximate Heat Content of Coal and Coal Coke

(Million Btu per Short Ton)

					Coal					Coal Coke
				Consu	mption					
		Eı	nd-Use Sector	rs	Electric P	ower Sector				
		Bardan dala	Indu	strial		011				
	Production	Residential and Commercial	Coke Plants	O ther ^a	Electric Utilities	Other Power Producers ^b	Total	Imports	Exports	Imports and Exports
1973	23.376	22.831	26.780	22.586	22.246	NA	23.057	25.000	26.596	24.800
1974	23.072	22.479	26.778	22.419	21.781	NA	22.677	25.000	26.700	24.800
1975	22.897	22.261	26.782	22.436	21.642	NA NA	22.506	25.000	26.562	24.800
1976	22.855	22.774	26.781	22.530	21.679	NA	22.498	25.000	26.601	24.800
1977	22.597	22.919	26.787	22.322	21.508	NA	22.265	25.000	26.548	24.800
1978	22.248	22.466	26.789	22.207	21.275	NA	22.017	25.000	26.478	24.800
1979	22.454	22.242	26.788	22.452	21.364	NA	22.100	25.000	26.548	24.800
1980	22.415	22.543	26.790	22.690	21.295	NA	21.947	25.000	26.384	24.800
1981	22.308	22.474	26.794	22.585	21.085	NA	21.713	25.000	26.160	24.800
1982	22.239	22.695	26.797	22.712	21.194	NA	21.674	25.000	26.223	24.800
1983	22.052	22.775	26.798	22.691	21.133	NA	21.576	25.000	26.291	24.800
1984	22.010	22.844	26.799	22.543	21.101	NA	21.573	25.000	26.402	24.800
1985	21.870	22.646	26.798	22.020	20.959	NA	21.366	25.000	26.307	24.800
1986	21.913	22.947	26.798	22.198	21.084	NA	21.462	25.000	26.292	24.800
1987	21.922	23.404	26.799	22.381	21.136	NA	21.517	25.000	26.291	24.800
1988	21.823	23.571	26.799	22.360	20.900	NA	21.328	25.000	26.299	24.800
1989	21.765	23.650	26.800	22.347	20.848	E 18.928	21.272	25.000	26.160	24.800
1990	21.822	23.137	26.799	22.457	20.929	E 18.928	21.331	25.000	26.202	24.800
1991	21.681	23.114	26.799	22.460	20.755	E 18.928	21.146	25.000	26.188	24.800
1992	21.682	23.105	26.799	22.250	20.787	18.928	21.107	25.000	26.161	24.800
1993	21.418	22.994	26.800	22.123	20.639	18.995	20.947	25.000	26.335	24.800
1994	21.394	23.112	26.800	22.068	20.673	19.450	20.978	25.000	26.329	24.800
1995	21.326	23.118	26.800	21.950	20.495	19.417	20.814	25.000	26.180	24.800
1996	21.322	23.011	26.800	22.105	20.525	19.391	20.824	25.000	26.174	24.800
1997	21.296	22.494	26.800	22.172	20.548	19.596	20.835	25.000	26.251	24.800
1998	21.224	22.783	26.800	22.104	20.479	20.143	20.760	25.000	26.243	24.800
1999	21.224	22.783	26.800	22.104	20.479	20.143	20.760	25.000	26.243	24.800
2000 ^c	21.224	22.783	26.800	22.104	20.479	20.143	20.760	25.000	26.243	24.800

Source: See "Thermal Conversion Factor Source Documentation," which follows Table A6.

a Includes transportation.
 b Nonutility wholesale producers of electricity, and nonutility cogeneration plants that are not included in the end-use sectors.
 c Preliminary.

Table A6. Approximate Heat Rates for Electricity

(Btu per Kilowatthour)

		Electricity Net Generation		
	Fossil-Fueled Steam-Electric Plants ^a	Nuclear Steam-Electric Plants	Geothermal Energy Plants ^b	Electricity Consumption
973	10,389	10,903	21,674	3,412
974	10,442	11,161	21,674	3,412
975	10,406	11.013	21,611	3.412
976	10,373	11.047	21,611	3,412
977	10,435	10,769	21,611	3,412
978	10,361	10,941	21,611	3,412
979	10,353	10,879	21,545	3,412
980	10,388	10,908	21,639	3,412
981	10,453	11,030	21,639	3,412
982	10.454	11.073	21.629	3,412
983	10,520	10,905	21,290	3,412
984	10,440	10,843	21,303	3,412
985	10,447	10,813	21,263	3,412
986	10,446	10,799	21,263	3,412
987	10,419	10,776	21,263	3,412
988	10,324	10,743	21,096	3,412
989	10,432	10,724	21,096	3,412
990	10,402	10,680	21,096	3,412
991	10,436	10,740	20,997	3,412
992	10,342	10,678	20,914	3,412
993	10,309	10,682	20,914	3,412
994	10,316	10,676	20,914	3,412
995	10,312	10,658	20,914	3,412
996	10,340	10,623	20,960	3,412
997	10,357	10,623	20,960	3,412
998	10,346	10,623	21,017	3,412
999	10,346	10,623	21,017	3,412
000 ^c	10,346	10,623	21,017	3,412

a Used as the thermal conversion factor for hydroelectric power generation, and for wood and waste, wind, photovoltaic, and solar thermal energy consumed at electric utilities.

b Used as the thermal conversion factor for geothermal energy consumed at electric utilities.

c Preliminary.

Source: See "Thermal Conversion Factor Source Documentation," which follows this table.

Thermal Conversion Factor Source Documentation

Approximate Heat Content of Petroleum and Natural Gas Plant Liquids

Asphalt. The 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 Bureau of Mines thermal conversion factor of 5.048 million Btu per barrel for "Gasoline, Aviation" 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.

Butane. EIA adopted the Bureau of Mines thermal conversion factor of 4.326 million Btu per barrel 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 and Lease Condensate, Production**.

Crude Oil, Imports. Calculated annually by EIA by weighting the thermal conversion factor of each type of crude oil imported by the quantity imported. Thermal conversion factors for each type were calculated on a foreign country basis through 1996, by determining the average American Petroleum Institute (API) gravity of crude imported from each foreign country from Form ERA-60 in 1977, or for 1997 and later, by determining the weighted average API gravity from the Form EIA-814, 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 and Lease Condensate, 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."

Crude Oil and Petroleum Products, Exports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product exported and crude oil exported weighted by the quantity of each petroleum product and crude oil exported. See Crude Oil, Exports and Petroleum Products, Exports.

Crude Oil and Petroleum Products, Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product and each type of crude oil imported weighted by the quantity of each petroleum product and each type of crude oil imported. See Crude Oil, Imports and Petroleum Products, Imports.

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 Value of Various Fuels, Adopted January 3, 1950."

Ethane. EIA adopted the Bureau of Mines thermal conversion factor of 3.082 million Btu per barrel in the *California Oil World and Petroleum Industry*, First Issue, April 1942.

Ethane-Propane Mixture. EIA calculated 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 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 Appendix V of *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 Appendix V of *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. • 1960 through 1966: U.S. Department of the Interior, Bureau of Mines, Mineral Industry Surveys, Crude Petroleum and Petroleum Products, 1956, Table 4 footnote, constant value of 4.011 million Btu per barrel. • 1967 forward: Calculated annually by EIA as a weighted average by multiplying the quantity consumed of each of the component products by each product's conversion factor, listed in this appendix, and dividing the sum of those heat contents by the sum of the quantities consumed.

The component products are ethane (including ethylene), propane (including propylene), normal butane (including butylene), butane-propane mixtures, ethane-propane mixtures, and isobutane. Quantities consumed are from: 1967 through 1980: EIA, Energy Data Reports, *Petroleum Statement, Annual*, Table 1. 1981 forward: 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. • 1960 through 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 (shown in appendix Table C1). 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 the 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.

Natural Gas Plant Liquids, Production. Calculated annually by EIA as the average of the thermal conversion factors of each natural gas plant liquid produced weighted by the quantity of each natural gas plant liquid 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 per barrel or equal to that for natural gasoline. See **Natural Gasoline**.

Petrochemical Feedstocks, Naphtha Less Than 401 Degrees Fahrenheit. 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, Oils Equal to or Greater Than 401 Degrees Fahrenheit. 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 Value 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 Products, Total Consumption. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed, weighted by the quantity of each petroleum product consumed.

Petroleum Products, Consumption by Electric Utilities. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed at electric utilities, weighted by the quantity of each petroleum product consumed at electric utilities. The quantity of petroleum consumed is estimated in the State Energy Data System as documented in the State Energy Data Report.

Petroleum Products, Consumption by Industrial Users. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed in the industrial sector, weighted by the estimated quantity of each petroleum product consumed in the industrial sector. The quantity of petroleum products consumed is estimated in the State Energy Data System as documented in the State Energy Data Report.

Petroleum Products, Consumption by Residential and Commercial Users. Calculated annually by EIA as the average of the thermal conversion factors for all petroleum products consumed by the residential and commercial sector, weighted by the estimated quantity of each petroleum product consumed in the residential and commercial sector. The quantity of petroleum products consumed is estimated in the State Energy Data System as documented in the State Energy Data Report.

Petroleum Products, Consumption by Transportation Users. Calculated annually by EIA as the average of the thermal conversion factor for all petroleum products consumed in the transportation sector, weighted by the estimated quantity of each petroleum product consumed in the transportation sector. The quantity of petroleum products consumed is estimated in the State Energy Data System as documented in the State Energy Data Report.

Petroleum Products, Exports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product, weighted by the quantity of each petroleum product exported.

Petroleum Products, Imports. Calculated annually by EIA as the average of the thermal conversion factors for each petroleum product imported, weighted by the quantity of each petroleum product 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 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 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 and first published in the *Petroleum Statement, Annual, 1970*.

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 in the *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 in the *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, Total Consumption. 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 of natural gas consumed. The heat content and quantity consumed are from Form EIA-176. Published sources are: 1980-1989: EIA, Natural Gas Annual 1992, Volume 2, Table 15. 1990-1992: EIA, Natural Gas Annual 1992, Volume 2, Table 16. 1993 forward: 1992 value used as an estimate.

Natural Gas, Consumption by Electric Utilities. Calculated annually by EIA by dividing the total heat content of natural gas received at electric utilities by the total quantity received at electric utilities. The heat contents and receipts are from Form FERC-423 and predecessor forms.

Natural Gas, Consumption by Sectors Other Than Electric Utilities. Calculated annually by EIA by dividing the heat content of all natural gas consumed less the heat content of natural gas consumed at electric utilities by the quantity of all natural gas consumed less the quantity of natural gas consumed at electric utilities. Data are from Forms EIA-176, FERC-423, EIA-759, and predecessor forms.

Natural Gas, Exports. Calculated annually by EIA by dividing the heat content of exported natural gas by the quantity of natural gas exported, both reported on Form FPC-14.

Natural Gas, Imports. Calculated annually by EIA by dividing the heat content of imported natural gas by the quantity of natural gas imported, both reported on Form FPC-14.

Natural Gas Production, Dry. Assumed by EIA to be equal to the thermal conversion factor for the consumption of dry natural gas. See Natural Gas Total Consumption.

Natural Gas Production, Marketed (Wet). Calculated annually by EIA by adding the heat content of dry natural gas production and the total heat content of natural gas plant liquids production and dividing this sum by the total quantity of marketed (wet) natural gas production.

Approximate Heat Content of Coal and Coal Coke

Coal, Total Consumption. Calculated annually by EIA by dividing the sum of the heat content of coal (including anthracite culm and waste coal) consumption by the total tonnage.

Coal, Consumption by Electric Utilities. Calculated annually by EIA by dividing the sum of the heat content of coal (including anthracite culm and waste coal) received at electric utilities by the sum of the tonnage received.

Coal, Consumption by Other Power Producers. Calculated annually by dividing the total heat content of coal (including anthracite culm and waste coal) consumed by other power producers by their total consumption tonnage.

Coal, Consumption by the Electric Power Sector. Calculated annually by dividing the total heat content of coal (including anthracite culm and waste coal) by total consumption tonnage of the electric power sector.

Coal, Consumption by End-Use Sectors. Calculated annually by EIA by dividing the sum of the heat content of coal (including anthracite culm and waste coal) consumed by the end-use sectors by the sum of the total tonnage.

Coal, Exports. Calculated annually by EIA by dividing the sum of the heat content of coal exported by the sum of the total tonnage.

Coal, Imports. Calculated annually by EIA by dividing the sum of the heat content of coal imported by the sum of the total tonnage.

Coal, Production. Calculated annually by EIA by dividing the sum of the total heat content of coal (including some anthracite culm) produced by the sum of the total tonnage.

Coal Coke, Imports and Exports. EIA adopted the Bureau of Mines estimate of 24.800 million Btu per short ton.

Approximate Heat Rates for Electricity

Fossil-Fueled Steam-Electric Plant Generation. There is no generally accepted practice for measuring the thermal conversion rates for power plants that generate electricity from hydroelectric, wood and waste, wind, photovoltaic, or solar thermal energy sources. Therefore, EIA uses data from Form EIA-767 to calculate a rate factor that is equal to the prevailing annual average heat rate factor for fossil-fueled steam-electric 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 per kilowatthour. 1973-1991: The weighted annual average heat rate for fossil-fueled steam-electric power plants in the United States, as

published by EIA in *Electric Plant Cost and Power Production Expenses 1991*, Table 9. 1992 forward: Unpublished factors calculated on the basis of data from Form EIA-767.

Geothermal Energy Plant Generation. 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. 1982 forward: Estimated annually by EIA on the basis of an informal survey of relevant plants.

Nuclear Steam-Electric Plant Generation. 1973-1991: Calculated annually by EIA 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 are reported on Form FERC-1, "Annual Report of Major Electric Utilities, Licenses, and Others"; Form EIA-412, "Annual Report of Public Electric Utilities"; and predecessor forms. The factors, beginning with 1982 data, are published in the following EIA reports—1982: Historical Plant Cost and Annual Production Expenses for Selected Electric Plants 1982, page 215. 1983-1991: Electric Plant Cost and Power Production Expenses 1991, Table 13. 1992 forward: Calculated annually by EIA by dividing the total heat content of the steam leaving the nuclear generating units to generate electricity by the total (net) electricity generated by nuclear generating units. The heat content and electricity generation data are reported in Nuclear Regulatory Commission, Licensed Operating Reactors—Status Summary 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).

Metric Conversion Factors Table B1.

Type of Unit	U.S. Unit	multiplied by	d Conversion Factor	equals	Metric Unit
Mass	short tons (2,000 lb)	x	0.907 184 7	=	metric tons (t)
	long tons	X	1.016 047	=	metric tons (t)
	pounds (lb)	X	.453 592 37°	=	kilograms (kg)
	pounds uranium oxide (lb U ₃ O ₈)	X	0.384 647 ^b	=	kilograms uranium (kgU)
	ounces, avoirdupois (avdp oz)	Х	28.349 52	=	grams (g)
Volume	barrels of oil (bbl)	Х	0.158 987 3	=	cubic meters (m³)
	cubic yards (yd³)	Х	0.764 555	=	cubic meters (m ³)
	cubic feet (ft ³)	X	0.028 316 85	=	cubic meters (m ³)
	U.S. gallons (gal)	x	3.785 412	=	liters (L)
	ounces, fluid (fl oz)	x	29.573 53	=	milliliters (mL)
	cubic inches (in³)	Х	16.387 06	=	milliliters (mL)
Length	miles (mi)	Х	1.609 344ª	=	kilometers (km)
J	yards (yd)	x	0.914 4ª	=	meters (m)
	feet (ft)	x	0.304 8 ^a	=	meters (m)
	inches (in)	x	2.54 ^b	=	centimeters (cm)
Area	acres	x	0.404 69	=	hectares (ha)
	square miles (mi ²)	X	2.589 988	=	square kilometers (km²)
	square yards (yd²)	X	0.836 127 4	=	square meters (m ²)
	square feet (ft ²)	x	0.092 903 04°	=	square meters (m ²)
	square inches (in ²)	х	6.451 6 ^b	=	square centimeters (cm ²)
Temperature	degrees Fahrenheit (°F)	х	5/9 (after subtracting 32) ^{a,c}	=	degrees Celsius (°C)
Energy	British thermal units (Btu)	х	1,055.055 852 62 a,d	=	joules (J)
	calories (cal)	Х	4.186 8 ^a	=	joules (J)
	Kilowatthours (kWh)	x	3.6 ^a	=	megajoules (MJ)

^aExact conversion.
^bCalculated by the Energy Information Administration.

[°]To convert degrees Celsius (°C) to degrees Fahrenheit (°F) exactly, multiply by 9/5, then add 32.

^dThe Btu used in this table is the International Table Btu adopted by the Fifth International Conference on Properties of Steam, London, 1956. 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, contact Dr. Barry Taylor at Building 221, Room B610, National Institute of Standards and Technology, Gaithersburg, MD 20899, or on telephone number 301–975–4220.

Sources: • General Services Administration, Federal Standard 376B, *Preferred Metric Units for General Use by the Federal Government* (Washington, DC, January 27, 1993), pp. 9–11, 13, and 16. • 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
10 ¹	deka	da	10 ⁻¹	deci	d
10 ²	hecto	h	10 ⁻²	centi	С
10 ³	kilo	k	10 ⁻³	milli	m
10 ⁶	mega	М	10 ⁻⁶	micro	
10 ⁹	giga	G	10 ⁻⁹	nano	n
10 ¹²	tera	Т	10 ⁻¹²	pico	р
10 ¹⁵	peta	Р	10 ⁻¹⁵	femto	f
10 ¹⁸	exa	E	10 ⁻¹⁸	atto	а
10 ²¹	zetta	Z	10 ⁻²¹	zepto	Z
10 ²⁴	yotta	Υ	10 ⁻²⁴	yocto	у

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	multiplied by	Conversion Factor	equals	Final Unit
Petroleum	barrels (bbl)	x	42 ^a	=	U.S. gallons (gal)
Coal	short tons	x	2,000 ^a	=	pounds (lb)
	long tons	X	2,240 ^a	=	pounds (lb)
	metric tons (t)	x	1,000 ^a	=	kilograms (kg)
Wood	cords (cd)	x	1.25 ^b	=	shorts tons
	cords (cd)	x	128 ^a	=	cubic feet (ft ³)

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.

^aExact conversion. ^bCalculated by the Energy Information Administration.

Appendix C. Carbon Dioxide Emission Factors for Coal

Table C1 presents U.S. average carbon dioxide emission factors for coal by sector. The factors measure the emissions produced during the combustion of coal and were derived by the Energy Information Administration (EIA) from 5,426 sample analyses in EIA's Coal Analysis File. The factors are ratios of the carbon dioxide emitted to the heat content of the coal burned, assuming complete combustion. Factors vary according to the rank and geographic origin of the coal. Sectoral factors reflect the rank and origin of the coal consumed in the sector.

Factors differ among sectors and within a sector over time for several reasons:

1. A higher average emission factor in the residential and commercial sector can be attributed to the steady consumption of bituminous coal and anthracite (presumably for home heating).

- 2. Virtually all of the coal consumed by coke plants comes from only a few States in the Appalachian Coal Basin (West Virginia, Virginia, and eastern Kentucky). Hence, the emission factors for this sector have remained fairly constant.
- 3. Other industrial users of coal (not coke plants) increased consumption of low-rank, high-emission western coals, which has contributed to a rise in their average emission factor.
- 4. Electric utilities, which account for most U.S. coal consumption, have shifted over time away from high-rank, low-emission bituminous coal to low-rank, high-emission subbituminous coal and lignite as reflected in a gradually rising weighted-average carbon dioxide emission factor.

Table C1. Average Carbon Dioxide Emission Factors for Coal by Sector (Pounds of Carbon Dioxide per Million Btu)

		Indu	strial		
Year	Residential and Commercial	Coke Plants ^a	Other Coal	Electric Utilities	U.S. Average ^b
1980	210.6	205.8	205.9	206.7	206.5
1981	212.0	205.8	205.9	206.9	206.7
1982	210.4	205.7	206.0	207.0	206.9
1983	209.2	205.5	205.9	207.1	207.0
1984	209.5	205.6	206.2	207.1	207.0
1985	209.3	205.6	206.4	207.3	207.1
1986	209.2	205.4	206.5	207.3	207.1
1987	209.4	205.2	206.4	207.3	207.2
1988	209.1	205.3	206.4	207.6	207.3
1989	209.7	205.3	206.6	207.5	207.3
1990	209.5	206.2	206.8	207.6	207.4
1991	210.2	206.2	206.9	207.7	207.5
1992	211.2	206.2	207.1	207.7	207.6
1993	209.9	206.2	207.0	207.8	207.7
1994	209.8	206.3	207.2	207.9	207.8
1995	210.2	206.4	207.2	208.1	207.9
1996	209.5	206.5	207.0	208.1	208.0
1997	210.2	206.6	207.2	208.2	208.0

No allowances have been made for carbon retained in non-energy coal chemical byproducts from the carbonization process.

^bWeighted average. The weights used are consumption values by sector.

Source: Energy Information Administration, Office of Coal, Nuclear, Electric and Alternate Fuels.

Appendix D. List of Features

The following is a complete list of features that have appeared in the *Monthly Energy Review* since the first issue was published in October 1974. There are several categories of features on the list: "Energy Plugs" are 1-page descriptions of recently released EIA products. "Articles" cover a wide range of energy-related subjects in depth; "Highlights" summarize the most important information presented in the subject Energy

Feature

Information Administration (EIA) report; "Energy Previews" provide brief overviews of EIA preliminary energy data on a given topic; "EIA Data News" items present information on recent changes in the scope, design, methodology, and findings of EIA's energy surveys and databases; and "Energy Snapshots" use graphics to set off key data from EIA survey reports.

Cover Date

i cature	•	Cover Date
2001		
	Energy Education Resources	January 2001
Energy Plug:	Impact of Interruptible Natural Gas Service on Northeast Heating Oil Demand	February 2001
Energy Plug:	Performance Profiles of Major Energy Producers 1999	February 2001
	•	•
2000 Energy Plug	Inventory of Nonutility Electric Power Plants in the United States 1998	January 2000
	The Changing Structure of the Electric Power Industry 1999: Mergers and Other	January 2000
Effergy Flug.	Corporate Combinations	January 2000
Energy Plug:	International Energy Annual 1998	February 2000
	Performance Profiles of Major Energy Producers 1998	February 2000
Energy Plug:	OPEC Revenues Fact Sheet	March 2000
Energy Plug:	Country Analysis Brief: Iran	March 2000
	International Energy Outlook 2000	
Energy Plug:	Outlook for Biomass Ethanol Production and Demand	April 2000
	Summer 2000 Motor Gasoline Outlook	
	State Energy Price and Expenditure Report 1997	
	Energy Consumption and Renewable Energy Development Potential on Indian Lands	June 2000
	Annual Energy Review 1999	July 2000
	A Primer on Gasoline Prices	August 2000
	Long-Term World Oil Supply: A Resource Base/Production Path Analysis	
	Propane Prices: What Consumers Should Know	
	Winter Fuels Outlook: 2000-2001	October 2000
Energy Plug:	Advance Summary: U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves 1999	October 2000
Energy Plug	Annual Report	
Energy Plug:	The Changing Structure of the Electric Power Industry 2000: An Update	November 2000 November 2000
	Annual Energy Outlook 2001 Early Release	
	Residential Heating Oil Prices: What Consumers Should Know	
Energy Flug.	Trosidential Freding Oil Friees. What consumers chould triow	December 2000
1999		
Energy Plug:	Performance Profiles of Major Energy Producers 1997	January 1999
	State Energy Data Report 1996	
	State Electricity Profiles	
0, 0	International Energy Annual 1997	•
	International Energy Outlook 1999	April 1999
	Natural Gas 1998: Issues and Trends	May 1999
Energy Plug:	Electric Power Annual 1998, Volume I	June 1999
	Energy in the Americas	July 1999 August 1999
	State Energy Data Report 1997	
Energy Plug.	The U.S. Coal Industry in the 1990s: Low Prices and Record Production	September 1999
Energy Flug.	Issues in Midterm Analysis and Forecasting 1999.	October 1999
Energy Flug.	1999-2000 Winter Fuels Outlook	November 1999
	Emissions of Greenhouse Gases in the United States 1998	November 1999 November 1999
	Annual Energy Outlook 2000	
	Energy in Africa.	December 1999 December 1999
Lifergy Flug.	Energy III Allieu	December 1939

1998	
Energy Plug: Performance Profiles of Major Energy Producers 1996	January 1998
Energy Plug: International Energy Annual 1996	February 1998
Energy Plug: Assessment of Summer 1997 Motor Gasoline Price Increase	April 1998
Energy Plug: Deliverability on the Interstate Natural Gas Pipeline System	May 1998 June 1998
Energy Plug: Annual Energy Review 1997.	July 1998
Energy Plug: State Energy Price and Expenditure Report 1995	August 1998
Energy Plug: A View of the Forest Products Industry From a Wood Energy Perspective	August 1998
Energy Plug: 25 th Anniversary of the 1973 Oil Embargo: Energy Trends Since the First Major U.S. Energy	-
Crisis	September 1998
Energy Plug: Energy Education Resources: Kindergarten Through 12 th Grade	September 1998
Energy Plug: Impacts of the Kyoto Protocol on U.S. Energy Markets and Economic Activity	October 1998
Energy Plug: Emissions of Greenhouse Gases in the United States 1997	October 1998 November 1998
Energy Plug: Wind Energy Developments: Incentives in Selected Countries	November 1998
Energy Flug. Annual Energy Gallook 1999	NOVEITIBET 1550
1997	
Energy Plug: Annual Energy Outlook 1997	January 1997
Energy Plug: The Changing Structure of the Electric Power Industry: An Update	January 1997
Energy Plug: Performance Profiles of Major Energy Producers 1995	January 1997 March 1997
Energy Plug: International Energy Outlook 1997	April 1997
Energy Plug: Restructuring Energy Industries: Lessons From Natural Gas	May 1997
Energy Plug: An Analysis of U.S. Propane Markets: Winter 1996-97	June 1997
Energy Plug: State Energy Price and Expenditure Report 1994	June 1997
Energy Plug: Annual Energy Review 1996	July 1997
Energy Plug: Motor Gasoline Assessment 1997	July 1997
Energy Plug: Commercial Buildings Characteristics 1995	July 1997
Energy Plug: Household Vehicles Energy Consumption 1994	August 1997 August 1997
Energy Plug: Petroleum 1996: Issues and Trends	September 1997
Energy Plug: The Intricate Puzzle of Oil and Gas "Reserves Growth"	September 1997
Energy Plug: Emissions of Greenhouse Gases in the United States 1996	October 1997
Energy Plug: Electricity Reform Abroad and U.S. Investment	October 1997
Energy Plug: Annual Energy Outlook 1998	November 1997
Energy Plug: Winter Heating Fuels Assessments	December 1997
Energy Plug: Oil and Gas Resources of the West Siberian Basin, Russia	December 1997
1996	
Energy Plug: Renewable Energy Annual 1995	January 1996
Energy Plug: State Energy Price and Expenditure Report 1993	January 1996
Energy Plug: Annual Energy Outlook 1996	February 1996 February 1996
Energy Snapshot: Describing Current and Potential Markets for Alternative-Fuel Vehicles	March 1996
Article: Energy Equipment Choices: Fuel Costs and Other Determinants	April 1996
Energy Plug: International Energy Outlook 1996	May 1996
Energy Plug: U.S. Electric Utility Demand-Side Management: Trends and Analysis	May 1996
Energy Plug: Country Analysis Brief: Iraq	June 1996
Energy Plug: Annual Energy Review 1995	July 1996
Energy Plug: Voluntary Reporting of Greenhouse Gases 1995 Energy Plug: Residential Lighting: Use and Potential Savings	July 1996 August 1996
Energy Plug: EIA Electronic Media Meet Customer Needs	August 1996
Energy Plug: Alternatives to Traditional Transportation Fuels, Volume 2: Greenhouse Gas Emissions	September 1996
Energy Plug: State Energy Data Report 1994	October 1996
Energy Plug: Privatization and the Globalization of Energy Markets	October 1996
Energy Plug: Emissions of Greenhouse Gases in the United States 1995	October 1996
Energy Plug: Nuclear Power Generation and Fuel Cycle Report 1996	November 1996
Energy Plug: Country Analysis Brief: Algeria	November 1996
Energy Plug: Denver Clean-City Fleets Survey	November 1996
Energy Plug: Natural Gas 1996: Issues and Trends	December 1996
1995	January 4005
Highlights: Manufacturing Consumption of Energy 1991	January 1995
EIA Data News: The Response Analysis Survey: Evaluating Manufacturing Energy	February 1995
Consumption Survey Methodology	March 1995
Energy Preview: Electric Utility Fleet Survey 1993, Preliminary Estimates: Assessing the	
Market for Alternative-Fuel Vehicles	April 1995
	April 1995

1995 (Continued)	
Article: Measuring Depéndence on Imported Oil Energy Preview: Household Energy Consumption and Expenditures 1993, Preliminary Estimates Energy Snapshot: Housing Characteristics 1993.	August 1995 August 1995 September 1995
Highlights: State Energy Data Report 1993, Consumption Estimates	October 1995 November 1995 November 1995
Energy Preview: Alternative Fuel Providers Fleet Surveys, Preliminary Data	November 1995 November 1995 December 1995
	December 1995
1994 Energy Preview: Commercial Buildings Energy Consumption Survey, Preliminary Estimates, 1992 Highlights: Household Vehicles Energy Consumption 1991	January 1994 February 1994
Highlights: Energy Use and Carbon Emissions: Some International Comparisons Highlights: Commercial Buildings Characteristics 1992	April 1994 June 1994
Article: Demand, Supply, and Price Outlook for Reformulated Motor Gasoline 1995	July 1994 August 1994
Article: The Impact of Flow Control and Tax Reform on Ownership and Growth in the U.S. Highlights: Reducing Home Heating and Cooling Costs Floating Province: Company Company Consumption and Fundamental Publishers Floating	August 1994 September 1994
Energy Preview: Commercial Buildings Energy Consumption and Expenditures 1992, Preliminary Estimates Article: Carbon Dioxide Emission Factors for Coal: A Summary Waste-to-Energy Industry	September 1994 September 1994
EIA Data News: Data Collection on Alternative-Fuel Vehicles Highlights: Energy End-Use Intensities in Commercial Buildings	October 1994 October 1994
Article: Change in Method for Estimating Fuel Economy for the Residential Transportation Energy Consumption Survey	October 1994
Article: Comparability of Supply- and Consumption-Derived Estimates of Manufacturing Energy Consumption Energy Preview: Housing Characteristics 1993, Selected Preliminary Estimates	October 1994 November 1994
Energy Preview: Propane-Provider Fleet Survey 1993, Preliminary Estimates	November 1994 December 1994
1993	
Energy Preview: Residential Transportation Energy Consumption Survey, Preliminary Estimates, 1991 EIA Data News: Natural Gas Transported for the Account of Others	January 1993 February 1993 July 1993
Highlights: Household Energy Consumption and Expenditures 1990	August 1993 August 1993
Energy Preview: Manufacturing Energy Consumption Survey, Preliminary Estimates, 1991	September 1993 September 1993
Highlights: International Energy Outlook 1993 Highlights: The Changing Structure of the U.S. Coal Industry: An Update Lightights: Emissions of Crossbaura Coasa in the United States 1095 1000	October 1993 November 1993
Highlights: Emissions of Greenhouse Gases in the United States 1985-1990	December 1993 December 1993
1992	April 1992
Energy Preview: Residential Energy Consumption and Expenditures Preliminary Estimates, 1990	May 1992 June 1992
Article: Demand, Supply, and Price Outlook for Oxygenated Gasoline, Winter 1992-1993 EIA Data News: EIA Statistics on Electric Utility Demand-Side Management	August 1992 September 1992
EIA Data News: EIA Statistics on Nonutility Power Producers	October 1992 November 1992
EIA Data News: EIA Statistics on Electric Utility Demand-Side Management Article: Energy Efficiency in the Manufacturing Sector	December 1992
1991 Highlights: U.S. Energy Industry Financial Developments, 1990 Fourth Quarter	March 1991
Article: U.S. Wholesale Electricity Transactions	April 1991
1990 Article: Refining Results Highlight Energy Companies' First-Half Profit Performance Highlights: U.S. Oil and Gas Reserves by Year of Field Discovery	June 1990 August 1990
1989	
Article: A Review of Valdez Oil Spill Market Impacts Article: Monthly U.S. Crude Oil Production Estimates	March 1989 March 1989
Article: Superconductivity and Energy Production and Consumption	May 1989 May 1989
Article: Higher Prices Yield Improved Energy Industry Financial Results in the First Half of 1989	June 1989

1989 (Continued)	
Article: The Future Structure of the U.S. Commercial Nuclear Power Equipment Manufacturing Industry	July 1989
Highlights: Potential Costs of Restricting Chlorofluorocarbon Use	September 1989
Highlights: Manufacturing Energy Consumption Survey: Changes in Energy Efficiency, 1980-1985	October 1989
Highlights: Household Energy Consumption and Expenditures 1987, Part 1: National Data	November 1989 December 1989
	2000201 1000
1988 Article: Measures of Energy Consumption, Expenditures, and Prices	May 1988
Article: The U.S. Energy Industry's Financial Recovery Continued in the First Half of 1988	June 1988
Article: A U.S. Perspective on Condensate	June 1988 June 1988
Article: State Energy Severance Taxes, 1972-1987	July 1988
Highlights: Manufacturing Energy Consumption Survey: Consumption of Energy, 1985	September 1988
Highlights: Profiles of Foreign Direct Investment in U.S. Energy 1987 Highlights: Manufacturing Energy Consumption Survey: Fuel Switching, 1985	October 1988 November 1988
Article: Increased Refining Income Led U.S. Energy Industry Financial Recovery in 1988	December 1988
1987	
Article: Manufacturing Sector Energy Consumption, 1985 Provisional Estimates	January 1987
Highlights: Consumption and Expenditures, April 1984 Through March 1985, Part 1: National Data	April 1987
Highlights: Consumption and Expenditures, April 1984 Through March 1985,	7.pm 1007
Part 2: Regional Data	May 1987
Article: U.S. Energy Industry Financial Developments, 1987 Second Quarter	June 1987 July 1987
Highlights: Uranium Industry Annual 1986	September 1987
Highlights: Potential Oil Production from ANWR	October 1987 November 1987
Article: The U.S. Energy Industry in 1987: A Slow Recovery	December 1987
1986	
Article: State Motor Gasoline Taxes, 1960-1985	March 1986
Article: The Impact of Low Oil Prices on Electric Utility Fuel Choice	June 1986 June 1986
Highlights: International Energy Annual 1985	September 1986
Article: U.S. Energy Industry Financial Developments, 1986	December 1986
1985	
Highlights: Annual Energy Review 1984	January 1985 February 1985
Article: Estimating Well Completions	March 1985
Highlights: State Energy Price and Expenditure Report 1970-1982	March 1985
Highlights: State Energy Data Report, Consumption Estimates, 1960-1983 Highlights: Annual Outlook for U.S. Electric Power 1985	April 1985 June 1985
Highlights: Short-Term Energy Outlook, Volume 1, October 1985	August 1985
Highlights: Analysis of Growth in Electricity Demand, 1980-1984	August 1985 November 1985
Highlights: Performance Profiles of Major Energy Producers 1984	December 1985
1984	
Highlights: Annual Energy Review 1983	February 1984
Highlights: Annual Energy Outlook 1983	March 1984 March 1984
Highlights: State Energy Price and Expenditure Report, 1970-1981	May 1984
Highlights: Solar Collector Manufactruring Activity 1983	June 1984
Highlights: International Energy Annual 1983	September 1984 September 1984
Highlights: Energy Conservation Indicators 1983 Annual Report.	November 1984
Highlights: Annual Energy Outlook 1984	December 1984
1983 Highlighte: Pooldential Energy Consumption Survey: Consumption and Expanditures	lanuary 1002
Highlights: Residential Energy Consumption Survey: Consumption and Expenditures	January 1983 February 1983
Article: The Effect of Weather on Energy Use	April 1983
Article: Trends in U.S. Energy Since 1973	May 1983 July 1983
Highlights: Energy Price and Expenditure Data Report, 1970-1980	July 1983

1983 (Continued)	
Highlights: Railroad Deregulation: Impact on Coal	August 1983 August 1983
1982 Annual Report	September 1983 September 1983
Article: Exploring for Oil and Gas Article: The Influence of Federal Actions on Petroleum Exploration	November 1983 December 1983[2]
Article: Aggregate Statistics: Accurate or Misleading?	December 1983[3]
1982 Article: The Interstate and Intrastate Natural Gas Markets	January 1982
Article: Natural Gas Drilling and Production Under the Natural Gas Policy Act Highlights: U.S. Crude Oil, Natural Gas, and Natural Gas Liquids Reserves, 1981 Annual Report Article: Impacts of Financial Constraints on the Electric Utility Industry	February 1982 September 1982 October 1982
Highlights: Energy Company Development Patterns in the Postembargo Era	November 1982
1981 Article: Changes in 1981 Petroleum Data Series	May 1981
Article: Information Services of the Energy Information Administration	September 1981 December 1981
1980 Article: The Solar Collector Industry and Solar Energy	February 1980
Article: Trends in the Installation of Energy Using Equipment in New Residential Buildings	March 1980
Program—The First Year's Report Article: Energy From Urban Waste	June 1980 August 1980
Article: Natural Gas Liquids: Revisions to 1979 Data	October 1980 November 1980
Article: The Department of Energy Disclosure Policy for Individually Identifiable Information Maintained by the Energy Information Administration	December 1980
1979	luly 1070
Article: The Energy Requirements of U.S. Agriculture Article: Three Mile Island—Possible Regulatory Responses and Their Impacts	July 1979
on the Nation's Short-Term Electric Utility Fuel Outlook	October 1979 December 1979
1978 Article: Short-Term Petroleum Supply and Demand	May 1978
1977 Article: Crude Oil Entitlements Program	January 1977
Article: Motor Gasoline Supply and Demand	July 1977
1976 Article: Curtailments of Natural Gas Service	January 1976
Article: Home Heating Conservation Alternatives and the Solar Collector Industry	March 1976 September 1976
1975 Article: Energy Consumption	March 1975
Article: Nuclear Power Article: The Price of Crude Oil	April 1975 June 1975
Article: U.S. Coal Resources and Reserves Article: Propane—A National Energy Resource	July 1975 September 1975
Article: Short-Term Energy Supply and Demand Forecasting at FEA	October 1975

Appendix E. Renewable Energy

Beginning with the January 2001 issue of the *Monthly Energy Review (MER)*, previously uncounted portions of renewable energy data (including renewable nonutility generation and all nonelectric energy) were fully incorporated into the *MER* summaries in Sections 1 and 2. The addition of these data into the summaries raised the U.S. energy consumption total by 3 to 4 quadrillion Btu per year in recent years.

The tables presented in this appendix organize and summarize the renewable energy data and estimates that are now used in Sections 1 and 2 summary tables. Caution is warranted in using some of the monthly values; in particular, monthly data on Table E2 and 1998 monthly data for nonutility power producers on Table E3b are not available from data collection systems but are estimated instead from daily rates of the annual data.

Table E1. Renewable Energy Consumption by Source

(Trillion Btu)

	Conventional Hydroelectric Power ^{a,b}	Wood ^c	Waste ^d	Alcohol Fuels ^e	Geothermal ^f	Solar ^g	Wind ^h	Total
4072 Total	3,010	1,527	•	NA NA	43	NA	NA	4 504
1973 Total1974 Total	3,309	1,538	2 2	NA NA	53	NA NA	NA NA	4,581 4,902
1975 Total	3,219	1,497	2	NA NA	70	NA NA	NA NA	4,788
1976 Total	3,066	1,711	2	NA NA	78	NA	NA NA	4,857
1977 Total	2,515	1,837	2	NA	77	NA	NA	4,431
1978 Total	3,141	2,036	1	NA	64	NA	NA	5,243
1979 Total	3,141	2,150	2	NA	84	NA	NA	5,377
1980 Total	^E 3,118	2,483	2	NA	110	NA	NA	5,712
1981 Total	^E 3,105	2,495	88	7	123	NA	NA	5,818
1982 Total	E 3,572	2,477	119	19	105	NA	NA	6,292
1983 Total	^E 3,899	2,639	157	35	129	NA	(s)	6,860
1984 Total	^E 3,800	_ 2,629	_ 208	_ 43	165	NA	(s)	6,845
1985 Total	^E 3,398	E 2,576	E 236	^E 52	198	NA	(s)	6,460
1986 Total	E 3,446	E 2,518	E 263	E 60	219	NA	(s)	6,507
1987 Total	E 3,117	E 2,465	289	_ 69	229	NA	(s)	6,170
1988 Total	E 2,662	E 2,552	^E 315	^E 70	217	NA 50	(s)	5,817
1989 Total	2,998	E 2,635	344	71	334	59	24	6,465
1990 Total	3,146	^E 2,188 ^E 2,188	395	63	355	63	32	6,241
1991 Total1992 Total	3,159 2,818	E 2,188	426 460	73 83	363 374	66 67	32 30	6,306 6,121
1993 Total	2,616 3,119	2,226	460 468	97	374 387	71	30 31	6,399
1994 Total	2,993	2,314	503	109	388	72	36	6,414
1995 Total	3,481	2,418	521	117	333	73	33	6,976
1996 Total	3,892	2,465	565	84	346	75 75	35 35	7,461
1997 Total	3,961	2,348	538	106	322	74	33	7,382
1998 January	E 312	E 199	E 46	11	E 29	E 6	E3	606
February	E 321	E 180	^E 41	9	E 25	E 6	E 2	585
March	E 342	E 199	^E 46	10	E 29	E 6	E 3	635
April	E 315	E 193	E 44	9	E 25	E 6	E 3	595
May	E 358	E 199	E 46	8	E 25	E 6	E 3	645
June	<u> </u>	E 193	E 44	8	E 25	<u> </u>	E 3	630
July	E 324	E 199	E 46	9	E 28	<u> </u>	E 3	615
August	E 294	E 199	E 46	9	E 29	E 6	E 3	586
September	E 240	E 193	E 44	10	E 28	E 6	E 3	524
October	E 215	E 199	E 46 E 44	11	E 30	E 6	E 3 E 3	510
November	^E 221 ^E 275	E 193 E 199	E 46	10	^E 28 ^E 28	E 6	E 3	505
December Total	3, 569	2,346	540	13 117	328	74	31	570 7,005
1999 January	RE 306	RE 239	E 52	11	E 27	E 5	2	^R 643
February	RE 302	RE 213	RE 48	9	E 24	E 5	2	602
March	RE 336	RE 235	^E 51	10	RE 26	E 5	3	667
April	RE 302	RE 228	^{RE} 52	9	RE 25	^E 5	4	625
May	RE 317	RE 235	RE 53	9	E 28	E 5	6	^R 653
June	RE 328	RE 228	<u> </u>	10	<u> </u>	<u> </u>	6	_ 660
July	RE 320	RE 238	E 52	.8	E 35	E 5	6	R 666
August	RE 282	RE 237	RE 52	10	RE 37	E 5	5	R 628
September	RE 243	RE 236	E 50	10	E 35	E 5	4	R 583
October	RE 231	RE 236	E 49	12	E 36 RE 34	^E 5 ^E 5	3	R 573
November	E 244 RE 302	RE 227 RE 235	E 50 RE 52	12	RE 34	E 5	2	R 574
December Total	R 3,512	R 2,788	R 612	14 122	374	63	3 46	^R 644 R 7,519
2000 January	RE 282	RE 239	RE 51	12	E 27	E 5	R 4	^R 620
February	RE 254	RE 225	E 49	9	RE 24	E 5	R 4	R 570
March	RE 293	RE 239	RE 51	12	E 23	E 5	4	^R 627
April	RE 310	RE 231	RE 50	10	RE 25	E 5	6	^R 637
May	RE 303	RE 236	RE 52	12	E 25	E 5	^R 5	R 638
June	RE 281	RE 231	RE 50	7	E 26	E 5	R 4	^R 603
July	RE 276	RE 241	^{RE} 51	13	RE 27	^E 5	R 4	^R 618
August	^{RE} 269	RE 238	RE 52	12	E 28	^E 5	R 3	^R 608
September	RE 212	RE 232	RE 50	11	E 27	<u> </u>	_ 4	R 540
October	RE 192	RE 239	RE 51	13	E 28	<u> </u>	^R 5	^R 534
November	RE 217	RE 231	RE 50	13	E 28	<u> </u>	^R 5	550
December	E 211	_ ^E 238	_ ^E 51	14	_ ^E 29	E ₅ E 63	3	552 7,098
Total	^E 3,099	^E 2,820	^E 607	139	^E 318		51	

^a Hydroelectricity generated by pumped storage is not included in renewable

^a Hydroelectricity generated by pumper storage in energy.

^b Through 1988, includes all electricity net imports. From 1989, includes only the portion of electricity net imports derived from hydroelectric power.

^c Wood, wood waste, black liquor, red liquor, spent sulfite liquor, pitch, wood sludge, peat, railroad ties, and utility poles.

^d 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.

^e Ethanol blended into motor gasoline.

f Geothermal electricity generation, heat pump, and direct use energy.
 From 1989, also includes electricity imports derived from geothermal energy.
 g Solar thermal and photovoltaic electricity generation, and solar thermal direct

use energy.

h Wind electricity generation.

Nund electricity generation.

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

Sources: Tables E2, E3a, and E3b.

Table E2. Renewable Energy Consumption by End-Use Sector (Trillion Btu)

	Residential			Commercial			Industrial ^a				Trans- portation		
	Woodb	Geo- thermal ^c	Solard	Total	Woodb	Geo- thermal ^c	Total	Woode	Waste ^f	Geo- thermal ^c	Total	Alcohol Fuels ⁹	End-Use Total
973 Total	354	NA	NA	354	7	NA	7	1,165	NA	NA	1,165	NA	1,526
1974 Total	371	NA	NA	371	7	NA	7	1,159	NA	NA	1,159	NA	1,537
975 Total	425	NA	NA	425	8	NA	8	1,063	NA	NA	1,063	NA	1,497
976 Total	482	NA	NA	482	9	NA	9	1,220	NA	NA	1,220	NA	1,711
977 Total	542	NA	NA	542	10	NA	10	1,281	NA	NA	1,281	NA	1,833
978 Total	622	NA	NA	622	12	NA	12	1,400	NA	NA	1,400	NA	2,034
979 Total	728	NA	NA	728	14	NA	14	1,405	NA	NA	1,405	NA	2,147
980 Total	859	NA	NA	859	21	NA	21	1,600	NA	NA	1,600	NA	2,480
981 Total	869	NA	NA	869	21	NA	21	1,602	87	NA	1,689	7	2,586
982 Total	937	NA	NA	937	22	NA	22	1,516	118	NA	1,634	19	2,612
983 Total	925	NA	NA	925	22	NA	22	1,690	155	NA	1,845	35	2,827
984 Total	923	NA	NA	923	22	NA	22	1,679	204	NA	1,883	43	2,871
985 Total	¹899	NA	NA	1899	124	NA	124	1,645	1230	NA	E 1,875	152	2,850
986 Total	¹876	NA	NA	1876	127	NA	127	1,610	1256	NA	E 1,866	¹ 60	2,829
987 Total	852	NA	NA	852	129	NA	129	1,576	282	NA	1,858	69	2,808
988 Total	1885	NA	NA	885	132	NA	132	1,625	1308	NA	E 1,933	170	2,920
989 Total	918	5	53	976	134	3	E 37	1,394	240	2	1,636	71	2,719
990 Total	581	6	56	642	137	3	^E 40	1,254	258	2	1,514	63	2,259
991 Total	613	ő	58	677	139	3	E 42	1.190	262	2	1,453	73	2,245
992 Total	645	6	60	711	142	3	E 45	1,233	276	2	1,512	83	2,351
993 Total	548	7	62	616	44	3	47	1,255	277	2	1,534	97	2,295
994 Total	537	6	64	607	45	4	49	1,233	306	3	1,651	109	2,295
995 Total	596	7	65	667	45 45	5	50	1,402	312	3	1,717	117	2,550
996 Total	595	7	66	668	49	5	54	1,402	351	3	1,795	84	2,600
997 Total	433	7	65	506	47	6	53	1,513	325	3	1,841	106	2,505
	۸ ۵۵	۸.	۸ -	٨٥٥	۸.	۸.	۸ –	۸ ۵ ۵ ۳	۸ ۵۳	۸,,	۸ ۵۵۵		,
998 January	A 32	^A 1	^A 5	A 38	A 4	A 1	^A 5	^A 135	A 27	^A (s)	^A 163	11	216
February	A 29	A 1	^A 5	A 34	A 4	A 1	^A 4	A 122	^A 25	A (S)	A 147	.9	194
March	A 32	A 1	^A 5	A 38	A 4	A 1	A 5	A 135	A 27	A (S)	A 163	10	216
April	^A 31	^A 1	^A 5	^A 37	A 4	A 1	A 4	^A 131	^A 26	A (s)	^A 157	9	208
May	A 32	^A 1	^A 5	^A 38	A 4	<u>^</u> 1	^A 5	^A 135	A 27	A (s)	^A 163	8	213
June	^A 31	Ą 1	^A 5	A 37	^A 4	A 1	A 4	^A 131	^A 26	A (S)	^A 157	8	207
July	A 32	A 1	^A 5	A 38	A 4	A 1	A 5	^A 135	A 27	A (s)	A 163	9	214
August	A 32	A 1	A 5	A 38	A 4	A 1	A 5	A 135	A 27	A (S)	A 163	9	215
September	A 31	A 1	A 5	A 37	A 4	A 1	A 4	A 131	^A 26	A (s)	A 157	10	209
October	^A 32	A 1	^A 5	^A 38	A 4	A 1	^A 5	A 135	^A 27	A (s)	A 163	11	217
November	^A 31	A 1	^A 5	A 37	A 4	^A 1	A 4	A 131	^A 26	A (S)	^A 157	10	209
December	A 32	A 1	A 5	A 38	A 4	A 1	A 5	^A 135	A 27	A (s)	A 163	13	218
Total	377	8	65	449	47	7	54	1,593	320	`3	1,916	117	2,536
999 January	A 34	A 1	A 5	A 40	A 5	A 1	^A 5	^A 165	A 28	A (s)	^A 193	11	250
February	A 31	Αİ	A 5	A 37	A 4	A 1	A 5	A 149	A 25	A (s)	A 175	9	225
March	A 34	A 1	A 5	A 40	^A 5	A 1	A 5	^A 165	A 28	A (S)	A 193	10	249
April	A 33	A 1	A 5	A 39	A 5	A 1	A 5	^A 159	A 27	A (S)	A 187	9	240
May	A 34	A 1	A 5	A 40	A 5	A 1	A 5	^A 165	A 28	A (s)	A 193	9	248
June	A 33	A 1	A 5	A 39	A 5	Αİ	A 5	A 159	A 27	A (s)	A 187	10	241
July	A 34	A 1	A 5	A 40	A 5	Α 1	A 5	^A 165	A 28	A (s)	^A 193	8	247
August	A 34	A 1	A 5	A 40	A 5	A 1	A 5	A 165	A 28	A (s)	A 193	10	249
September	A 33	A 1	A 5	A 39	A 5	A 1	A 5	A 159	A 27	A (S)	A 187	10	249
October	A 34	A 1	A 5	A 40	A 5	A 1	A 5	A 165	A 28	A (s)	A 193	12	251
November	A 33	A 1	A 5	A 39	A 5	A 1	A 5	A 159	A 27	A (s)	A 187	12	244
	A 34	A 1	A 5	A 40	^5 ^A 5	A 1	^5 ^A 5	A 165	A 28	A (S)	A 102	14	
December Total	404	9	63	476	57	7	64	1,939	332	A (S) 4	A 193 2,275	14 122	253 2,937
		-				-	•	,		Α	•		•
000 January	A 34	A 1 A 1	A 5	^A 40 ^A 38	^A 5 ^A 4	^A 1 ^A 1	A 5	A 164	A 28	A (s)	A 193	12	250
February	A 32	^1 ^1	^A 5	~ 38 A 40	^4 ^-	^1 A1	^A 5	A 154	^A 26	A (s)	A 180	9	232
March	A 34		^A 5	^A 40	^A 5		^A 5	^A 164	A 28	A (s)	^A 193	12	250
April	A 33	A 1	^A 5	A 39	A 5	A 1 A 1	^A 5	A 159	A 27	A (S)	A 186	10	241
May	A 34	A 1	^A 5	A 40	^A 5		^A 5	^A 164	A 28	A (S)	^A 193	12	250
June	A 33	A 1	^A 5	A 39	^A 5	A 1	^A 5	^A 159	A 27	A (S)	^A 186	7	237
July	^A 34	^A 1	^A 5	^A 40	^A 5	^A 1	^A 5	^A 164	^A 28	A (s)	^A 193	13	252
August	A 34	A 1	^A 5	^A 40	^A 5	A 1	A 5	^A 164	^A 28	A (S)	^A 193	12	251
September	A 33	A 1	A 5	A 39	A 5	A 1	^A 5	^A 159	A 27	A (S)	A 186	11	242
October	A 34	A 1	A 5	A 40	A 5	A 1	A 5	^A 164	A 28	A (s)	A 193	13	252
November	A 33	A 1	A 5	A 39	A 5	A 1	A 5	A 159	A 27	A (s)	^A 186	13	244
December	A 34	A 1	A 5	A 40	A 5	A 1	A 5	A 164	A 28	A (S)	A 193	14	252
Total	^E 404	Eģ	^E 63	^E 476	E 57	Ε̈́	E 64	E 1,939	E 332	^A (s) E 4	E 2,275	139	2.954
1 Viui	707	9	00	410	31		U-T	1,333	JJ2	-	2,210	100	2,334

^a Through 1988, includes industrial sector use of wood and waste to produce both useful thermal output and electricity. From 1989, includes the portion of nonutility power producers' use of renewable energy to produce useful thermal output; excludes the portion used to produce electricity, which is included under "Nonutility Power Producers" on Table E3b.

^b Wood only.

waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw.

9 Ethanol blended into motor gasoline.
NA=Not available. E=Estimate. (s)=Less than 0.5 trillion Btu. I=Interpolated value. A=Apportioned data: monthly estimates for 1998 and 1999 are created by dividing the annual value by 365 and then multiplying by the number of days in the month; temporary 2000 monthly estimates are created by dividing the 1999 annual value by 366 and multiplying by the number of days in the month.

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

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

Sources: See end of section.

c Geothermal heat pump and direct use energy.
d Solar thermal direct use and photovoltaic energy. Includes small amounts of

commercial sector use.

^e Wood, wood waste, black liquor, red liquor, spent sulfite liquor, pitch, wood sludge, peat, railroad ties, and utility poles.

^f Municipal solid waste, landfill gas, methane, digester gas, liquid acetonitrile

Table E3a. Renewable Energy Consumption by the Electric Power Sector (Trillion Btu)

	Electric Power Sector										
				Electric Utilities							
	Conventional Hydroelectric Power ^a	Wood ^b	Waste ^c	Geothermal ^d	Solar ^e	Wind ^f	Total				
1973 Total	2,827	1	2	43	0	NA	2,873				
1974 Total	3,143	i	2	53	Ŏ	NA	3,199				
1975 Total	3,122	(s)	2	70	0	NA	3,194				
1976 Total	2,943	1	2	78	0	NA	3,024				
1977 Total	2,301	3	2	77	0	NA	2,383				
1978 Total	2,905	2	1	64	0	NA	2,973				
1979 Total	2,897	3	2 2	84	0	NA	2,986				
1980 Total1981 Total	2,867 2,725	3 3	1	110 123	0 0	NA NA	2,982 2,852				
1982 Total	3.233	2	i	105	Ö	NA NA	3,341				
1983 Total	3,494	2	ż	129	ŏ	(s)	3,627				
1984 Total	3,353	5	4	165	Ŏ	(s)	3,527				
1985 Total	2,937	8	7	198	Ó	(s)	3,150				
1986 Total	3,038	5	7	219	0	(s)	3,270				
1987 Total	2,602	.8	7	229	0	(s)	2,846				
1988 Total	2,302	10	8	217	0	(s)	2,536				
1989 Total	2,765	10	10	197	(s)	(s)	2,983				
1990 Total	2,948	8	13	181	(s)	(s)	3,151				
1991 Total1992 Total	2,923 2,521	8 8	14 13	170 169	(s)	(s)	3,114 2,712				
1993 Total	2,321	9	11	158	(s) (s)	(s) (s)	2,712				
1994 Total	2,549	8	13	145	(s)	(s)	2,714				
1995 Total	3,056	7	10	99	(s)	(s)	3,173				
1996 Total	3,423	8	12	110	(s)	(s)	3,553				
1997 Total	3,535	8	13	115	(s)	(s)	3,670				
1998 January	285	1	1	10	(s)	(s)	297				
February	296	1	1	.8	(s)	(s)	306				
March	313	1	1	10	(s)	(s)	325				
April	283	1	1	7	(s)	(s)	291				
May	328 320	1	1	6 7	(s)	(s)	336 328				
June July	283	(s) 1	1	9	(s) (s)	(s) (s)	294				
August	248	1	i	10	(s)	(s)	260				
September	206	i	i	10	(s)	(s)	218				
October	187	1	1	11	(s)	(s)	200				
November	198	1	1	10	(s)	(s)	209				
December	249	1	1	9	(s)	(s)	260				
Total	3,195	7	14	109	(s)	(s)	3,325				
1999 January	286	1	1	9	(s)	(s)	297				
February	278	1	1	7	(s)	(s)	287				
March	311 265	(s)	1	8 9	(s)	(s)	321 276				
April May	282	1	1	(s)	(s) (s)	(s) (s)	284				
June	296	1	i	(s)	(s)	(s)	299				
July	288	1	<u>i</u>	(s)	(s)	(s)	290				
August	250	1	1	(s)	(s)	(s)	252				
September	203	1	1	(s)	(s)	(s)	205				
October	193	(s)	1	(s)	(s)	(s)	195				
November	206	1	1	(s)	(s)	(s)	208				
December	244	<u>1</u>	1	(s)	(s)	(s)	246				
Total	3,103	7	14	36	(s)	(s)	3,159				
2000 January	241 214	(s) 1	1 1	(s)	(s)	(s)	243 216				
February March	253	1	i	(s) (s)	(s) (s)	(s) (s)	256				
April	270	1	i	(s)	(s)	(s)	273				
May	260	i	i	(s)	(s)	(s)	263				
June	239	1	1	(s)	(s)	(s)	241				
July	229	1	1	(s)	(s)	(s)	231				
August	209	1	1	(s)	(s)	(s)	211				
September	169	1	1	(s)	(s)	(s)	171				
October	163	1	1	(s)	(s)	(s)	165				
November	182	1	1	(s)	(s)	(s)	184				
December	187 2 616	1	1 13	(s) 3	(s) (s)	(s) (s)	189 2,640				
Total	2,616	7	13	3	(S)	(8)	Z.D4U				

^a Through 1989, includes hydroelectricity generated by both conventional and pumped storage facilities; from 1990, includes only conventional hydroelectric

generation.

b Wood, wood waste, black liquor, red liquor, spent sulfite liquor, pitch, wood

Sludge, peat, railroad ties, and utility poles.

^c 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.

^d Geothermal electricity net generation.

<sup>Geothermal electricity net generation.

Solar thermal and photovoltaic electricity net generation.

Wind electricity net generation.

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

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

Sources: Tables 7.3 and A6.

Table E3b. Renewable Energy Consumption by the Electric Power Sector (Trillion Btu)

					ower Secto	r						
			Nonutili	ty Power Pro	ducersa				Fleetwie			
	Hydro-			Geo-				Hydro	power ^c	Geo- thermal	Total Net	Electric Power Sector
	powerc	Woodd	Wastee	thermal ^f	Solarg	Windh	Total	Imports	Exports	Imports	Imports	Total
1973 Total	35 33	NA NA	NA NA	NA NA	NA NA	NA NA	35 33 32	175 161	27 28	(i) (i)	148 133	3,056 3,365
1975 Total 1976 Total	32 33	NA NA	NA NA	NA NA	NA NA	NA NA	32 33	117 114	53 25	{i}	64 89	3,291 3,146
1977 Total	33	NA	NA	NA	NA	NA	33	210	29	(;)	182	2,597
1978 Total	32 34	NA NA	NA NA	NA NA	NA NA	NA NA	32 34	220 233	15 23	{ ;}	204 211	3,209 3,230
1980 Total	E 33	ŇÁ	NA	NA	ŇÄ	NA	E 33	260	43	}i{	217	3,232
1981 Total	E 33	NA	NA	NA	NA	NA	E 33	379	32	(¦)	347	3,232
1982 Total 1983 Total	E 33 E 33	NA NA	NA NA	NA NA	NA NA	NA NA	E 33 E 33	343 407	37 35	;; }	306 372	3,680 4,032
1984 Total	E 33	NA	NA	NA NA	NA	NA	E 33	441	27	}:{	414	3.974
1985 lotal	E 33	NA	NA	NA	NA	NA	E 33	479	52	(!)	428	3,611
1986 Total	E 33	NA	NA	NA	NA	NA	E 33 E 33	425	50	(;)	375	3,678
1987 Total 1988 Total	E 33 E 33	NA NA	NA NA	NA NA	NA NA	NA NA	E 33	544 401	61 73	}i{	483 328	3,362 2,897
1989 Total	90	279	94	117	6	24	609	200	57	` 11	154	3,746
1990 Total	100	308	124	152	7	32	722	99	(s)	11	110	3,982
1991 Total 1992 Total	99 97	338 360	151 171	167 174	8 7	32 30	794 838	138 201	(s)	15 19	153 219	4,061 3.769
1993 Total	117	370	180	198	9	30 31	905	238	(s) 11	18	246	4,104
1994 Total	135	382	184	205	8	36	951	309	(s)	25	334	3,999
1995 Total	151	369	199	201	8	33	960	291	17	19	293	4,426
1996 Total 1997 Total	169 183	372 347	202 200	207 191	9 9	35 33	994 963	306 281	7 37	14 (s)	313 244	4,861 4,877
1998 January	^A 13	^A 27	^A 18	^A 17	A 1	A 3	^A 78	^j 18	j ₄	j(s)	E 15	390
February	A 11	A 25	A 16	A 15	Αİ	A 2 A 3	A 70	ļ17	j4	J(s)	E 13	390
March	A 13	A 27	A 18	A 17	A 1 A 1	A 3	A 78	J20	j4	J(s)	<u></u> 17	420
April May	^A 12 ^A 13	^A 26 ^A 27	A 17 A 18	^A 16 ^A 17	^1 A1	A 3	A 75 A 78	j23 j22	j3 j4	j(s) j(s)	E 20 E 17	387 431
June	A 12	A 26	A 17	A 16	A 1	A 3	4 75	j24	j4	j(s)	E 19	423
July	^A 13	^A 27	^A 18	A 17	A 1	A 3	^A 78	<u> </u> !31	ļ4	j(s)	E 28	400
August	A 13 A 12	^A 27 ^A 26	^A 18 ^A 17	^A 17 ^A 16	A 1 A 1	A 3 A 3	^A 78 ^A 75	135	j <u>2</u> j4	į(s)	E 33 E 22	371
September October	A 13	A 27	A 18	A 17	A 1	A 3	A 78	^j 26 ^j 20	j <u>4</u>	j(s) j(s)	E 15	315 293
November	A 12	A 26	A 17	A 16	A 1	A 3	^A 75	15	j4	J(s)	E 11	296
December	^A 13	^A 27	^A 18	A 17	^A 1	A 3	^A 78	^j 17	j4	J(s)	E 13	352
Total	150	321	207	201	9	31	918	269	46	1	225	4,468
1999 January February	R 13 R 17	^R 35 ^R 28	^R 23 21	17 15	NA NA	2 2	^R 90 ^R 84	j14 ^j 13	j8 ^j 7	j(s) J(s)	E 6 E 6	^R 393 ^R 378
March	R 18	R 31	R 22	R 16	NA	3	91	^j 16	^j 10	j(s) j(s)	E 7	^R 418
April	R 19	R 30	R 23	^R 14	NA	4	R 91	j <u>25</u>	j7	J(s)	E 18	385
May	R 17 R 13	R 30 R 30	23 R 23	26 31	NA NA	6 6	R 103 R 103	^j 25 ^j 23	j6 ^j 5	j(s)	E 18 E 18	^R 405 ^R 419
June July	R 13	R 34	R 23	33	NA NA	6	R 110	j23	j5	j(s) j(s)	E 19	418
August	R 12	R 33	R 23	R 35	NA	5	R 108	J23	jЗ	J(s)	E 20	R 379
September	R 13	R 39	R 22	33	NA	4	R 110	j30	j3 ^j 7	į(s)	E 27	R 342
October November	R 14 R 13	R 32 R 30	R 20 R 22	34 R 32	NA NA	3 2	R 103 R 99	J30 J30	j7 j5	j(s) j(s)	E 23 E 25	R 322 R 331
December	R 37	R 30	R 23	31	NA	3	R 125	j27	j ₇	j(s)	E 21	R 391
Total	R 202	R 382	R 267	318	NA	46	R 1,215	280	73	1	208	R 4,582
2000 January	R 20	R 36	R 21	25	NA	R 4	R 107	j24	j3	j(s)	E 20	R 370
February March	R 18 R 20	R 34 R 35	R 21 R 22	R 22 21	NA NA	R 4 4	R 99 R 102	^j 26 ^j 24	j3 j5	J(s) J(s)	E 23 E 19	R 338 R 377
April	R 21	R 34	^R 21	R 23	NA	6	R 105	j24	j6	j(s)	E 18	R 396
May	R 21	R 32	R 22	23	NA	R 5	R 103	^j 28	į7	j(s)	E 22	R 387
June	R 20 R 22	R 34 R 37	R 22 R 22	24 R 25	NA NA	R 4 R 4	R 103 R 109	j30 j34	j8 jg	j(s)	E 22 E 26	R 366 R 366
July August	R 20	R 34	R 23	26	NA NA	R 3	R 109	j45	j <u>9</u> j5	j(s) j(s)	E 41	R 358
September	R 19	R 34	R 21	25	NA	4	R 103	j29	j5	j(s)	E 24	299
October	^R 16	^R 35	R 22	26	NA	^R 5	R 104	^j 18	j <u>5</u> j5	J(s)	E 12	R 282
November	R 17	R 34	R 22	26	NA	R 5	104	J24		j(s)	E 18	306
December Total	18 231	34 413	22 261	27 294	NA NA	3 51	105 1,251	J22 E 328	^j 15 E 77	j(s) j(s) E 1	E 6 E 252	300 4,143
10tai	231	413	201	234	IVA	31	1,231	320	"	'	232	7,173

^a Includes the portion of nonutility power producers' use of renewable energy to produce electricity; excludes the portion used to produce useful thermal output, which is included in "Industrial" on Table E2.
^b Through 1988, all electricity imports and exports are included in "Hydropower." From 1989, includes only electricity imports and exports derived from hydroelectric power or earthermal energy.

power or geothermal energy.

^c Conventional hydroelectric power.

^d Wood, wood waste, black liquor, red liquor, spent sulfite liquor, pitch, wood sludge, peat, railroad ties, and utility poles.

^e 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.

^f Geothermal electricity net generation.

⁹ Solar thermal and photovoltaic electricity net generation.

g Solar thermal and photovoltaic electricity net generation.

h Wind electricity net generation.

l Included in "Hydropower Imports."

1998 and 1999 monthly data are estimated by allocating the annual values into the months in proportion to each month's share of the year's total electricity imports or exports (see Table 7.1). Monthly 2000 estimates use the 1999 shares.

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

A=Apportioned data: monthly estimates for 1998 are created by dividing the annual value by 365 and then multiplying by the number of days in the month.

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

Sources: See end of section.

Sources for Table E2

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

1990-1993—EIA, Renewable Energy Annual 1995, Table 6.

1994-1997—EIA, Renewable Energy Annual 1999, Table 6.

1998 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—EIA, Renewable Energy Annual 1995, Table 6.

1994-1996—EIA, Renewable Energy Annual 1999, Table 6.

1997 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 E3b).

1990-1993—EIA, Renewable Energy Annual 1995, Table 6, total industrial wood consumption, minus nonutility power producers' use of wood to produce electricity (see Table E3b).

1994-1998—EIA, Renewable Energy Annual 1999, Table 6, total industrial wood consumption, minus nonutility power producers' use of wood to produce electricity (see Table E3b).

1999 forward—EIA, CNEAF, estimates for total indus-

trial wood consumption, minus nonutility power producers' use of wood to produce electricity (see Table E3b).

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 E3a).

1982 and 1983—EIA, CNEAF, estimates for total waste consumption, minus electric utilities' use of waste to produce electricity (see Table E3a).

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 E3a).

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 E3a).

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 E3a and E3b).

1990-1993—EIA, *Renewable Energy Annual 1995*, Table 6, total waste consumption, minus electric utilities' and nonutility power producers' use of waste to produce electricity (see Tables E3a and E3b).

1994-1997—EIA, *Renewable Energy Annual 1999*, Table 6, total waste consumption, minus electric utilities' and nonutility power producers' use of waste to produce electricity (see Tables E3a and E3b).

1998 forward—EIA, CNEAF, estimates for total waste consumption, minus electric utilities' and nonutility power producers' use of waste to produce electricity (see Tables E3a and E3b).

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*, Tables 2 and 28; and Table A1.

Geothermal

1989 forward—John Lund, Oregon Institute of Technology Geoheat Center, unpublished data.

Solar

1989-1991—EIA, CNEAF, estimates.

1992 and 1993—EIA Renewable Energy Annual 1997, Table 2.

1994-1998—EIA Renewable Energy Annual 1999, Table 2.

1999 forward—EIA, CNEAF, estimates.

Sources for Table E3b

Nonutility Power Producers, Hydropower

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 7.4 and A6.

Nonutility Power Producers, All Other Fuels

1989 forward—Tables 7.4 and A6.

Electricity Trade
1973-1988—Tables 7.1 and A6.
1989-1991—EIA, Office of Coal, Nuclear, Electric and Alternate Fuels (CNEAF), estimates.
1992 and 1993—EIA, Renewable Energy Annual 1997, Table 3.
1994-1996—EIA, Renewable Energy Annual 1999, Table 3.
1997 forward—EIA, CNEAF, estimates.

Glossary

Alcohol Fuels: See Fuel Ethanol.

Anthracite: The highest rank of coal. It is a hard, brittle, and black lustrous coal, often referred to as hard coal, containing a high percentage of fixed carbon and a low percentage of volatile matter. It is used primarily for residential and commercial space heating. The moisture content of fresh-mined anthracite generally is less than 15 percent. The heat content of anthracite ranges from 22 to 28 million Btu per ton on a moist, mineral-matter-free basis. The heat content of anthracite coal consumed in the United States averages 25 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter). Note: Since the 1980s anthracite refuse or mine waste has been used for steam-electric power generation. This fuel typically has a heat content of 15 million Btu per ton or less.

Anthracite Culm: Waste from Pennsylvania anthracite preparation plants, consisting of coarse rock fragments containing as much as 30 percent small-sized coal; sometimes defined as including very fine coal particles called silt. Its heat value ranges from 8 to 17 million Btu per short ton.

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 are used for blending or compounding into finished aviation gasoline (e.g., straight-run gasoline, alkylate, and reformate). Excludes oxygenates (alcohols and ethers), butane, and pentanes plus.

Aviation Gasoline, Finished: All special grades of gasoline used in aviation reciprocating engines, as given in ASTM Specification D910 and Military Specification MIL-G-5572. Excludes blending components that will be used in blending or compounding into finished aviation gasoline.

Barrel (Petroleum): A unit of volume equal to 42 U.S. gallons.

Base (Cushion) 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.

Bituminous Coal: A dense, black coal, often with well-defined bands of bright and dull material. Bitumi-

nous coal is the most abundant coal in active U.S. mining regions. It is used primarily as fuel in steam-electric power generation, with substantial quantities also used for heat and power applications in manufacturing and to make coke. Its moisture content usually is less than 20 percent. The heat content of bituminous coal ranges from 21 to 30 million Btu per ton on a moist, mineral-matter-free basis. The heat content of bituminous coal consumed in the United States averages 24 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

British Thermal Unit (Btu): The quantity of heat needed to raise the temperature of 1 pound of water by 1° F at or near 39.2° F. See Heat Content of a Quantity of Fuel, Gross and Heat Content of a Quantity of Fuel, Net.

Bunker Oil: Fuels supplied to ships and aircraft in international transportation, irrespective of the flag of the carrier, consisting primarily of residual, distillate, and jet fuel oils.

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 Rank: The classification of coals according to their degree of progressive alteration from lignite to anthracite. In the U.S. classification, the ranks include lignite, subbituminous coal, bituminous coal, and anthracite, and are based on fixed carbon, volatile matter, heating value, and agglomerating (or caking) properties.

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.

Cogenerator: A generating facility that produces electricity and another form of useful energy (such as heat or steam) used for industrial, commercial, heating, or cooling purposes. See **Nonutility Power Producers.**

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.

Commercial Sector: An energy-consuming sector that consists of service-providing facilities 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.

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 that is not generated by 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 type of sale in which the buyer of the product agrees to pay a unit price that includes the f.o.b. value of the product at the point of origin plus all costs of insurance and transportation. This type of transaction differs from a "delivered" purchase in that the buyer accepts the quantity as determined at the loading port (as certified by the Bill of Loading and Quality Report) rather than paying on the basis of the quantity and quality ascertained at the unloading port. It is similar to the terms of an f.o.b. sale, except that the seller, as a service for which he is compensated, arranges for transportation and insurance.

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. Crude oil may also include: (1) Small amounts of hydrocarbons that exist in the gaseous phase in natural underground reservoirs but are liquid at atmospheric pressure after being recovered from oil well (casinghead) gas in lease separators and that subsequently are commingled with the crude stream without being separately measured. (2) Small amounts of nonhydrocarbons produced with the oil, such as sulfur and other compounds. Note: In reporting crude oil data at various stages of the petroleum supply stream, EIA survey programs have definitional variations due to whether associated products or materials are counted with crude oil. Some products and other materials are either mixed with the crude oil and cannot be separately measured or they are logically associated with crude oil for accounting purposes. Crude oil reserves data contain separate estimates for lease condensate, whereas crude oil supply data include lease condensate. Crude oil supply data also include liquid hydrocarbons produced from tar sands, gilsonite, and oil shale.

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.

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): The number of degrees per day that the daily average temperature is above 65° F. The daily average temperature is the mean of the maximum and minimum temperatures for a 24-hour period.

Degree-Days, Heating (HDD): The number of degrees per day that the daily average temperature is below 65° F. The daily average temperature is the mean of the maximum and minimum temperatures for a 24-hour period.

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 popula-tion-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. Included are products known as No. 1, No. 2, and No. 4 fuel oils and No. 1, No. 2, and No. 4 diesel fuels. It is used primarily for space heating, on-and off-highway diesel engine fuel (including railroad engine fuel and fuel for agricultural machinery), 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.

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 Capacity: The maximum load of electric power, commonly expressed in **kilowatts** (kW) or megawatts (MW), by which generators, turbines, transformers, transmission circuits, stations, and systems are rated.

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 pumped-storage plants is regarded as electricity for station service and is deducted from gross generation.

Electricity Sales: The amount of kilowatthours sold in a given period of time; usually grouped by classes of service, such as residential, commercial, industrial, and other. "Other" sales include sales for public street and highway lighting and other sales to public authorities, sales to railroads and railways, and interdepartmental sales.

Electric Power: The rate at which electric energy is transferred. Electric power is measured by capacity and is commonly expressed in **kilowatts** (kW) or megawatts (MW).

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 all utility and nonutility facilities and equipment used to generate, transmit, and/or distribute electricity. See Electric Utility and Nonutility Power Producer.

Electric Utility: A corporation, person, agency, authority, or other legal entity or instrumentality that owns and/or operates facilities for the generation, transmission, distribution, or sale of electric energy for use primarily by the public. Utilities provide electricity within a designated franchised service area and file forms listed in the *Code of Federal Regulations*, Title 18, Part 141. *Note:* Facilities that qualify as cogenerators or small power producers under the Public Utility Regulatory Policies Act (PURPA) are not considered electric utilities. See Nonutility Power Producer.

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-Use Sectors: A group of major energy-consuming components of U.S. society developed to measure and analyze energy use. The sectors most commonly referred to in EIA are: residential, commercial, industrial, transportation, and electric power.

Ethane: A normally gaseous straight-chain hydrocarbon (C_2H_6). It is a colorless, paraffinic gas that boils at a temperature of -127.48° F. It is extracted from natural gas and refinery gas streams.

Ethanol: See Fuel Ethanol.

Ethylene: An olefinic hydrocarbon (C_2H_4) recovered from refinery processes or petrochemical processes.

Exploratory Well: A well drilled to find and produce oil or gas in an unproved area, to find a new reservoir in a field previously found to be productive of oil or gas in another reservoir, or to extend the limit of a known oil or gas reservoir.

Exports: Shipments of goods from the 50 States and the District of Columbia to foreign countries and to Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Extraction Loss: The reduction in volume of natural gas due to the removal of natural gas constituents,

such as ethane, propane, and butane, at natural gas processing plants.

f.a.s.: See Free Alongside Ship.

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.: See Free on Board.

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: Any naturally occurring organic fuel, 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.

Free Alongside Ship (f.a.s.): The value of a commodity at the port of exportation, generally including the purchase price, plus all charges incurred in placing the commodity alongside the carrier at the port of exportation.

Free on Board (f.o.b.): A transaction whereby the seller makes the product available within an agreed-on period at a given port at a given price. It is the responsibility of the buyer to arrange for the transportation and insurance.

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 10 percent or less alcohol (generally ethanol but sometimes methanol). See Motor Gasoline, Oxygenated.

Gas-Turbine Electric Power Plant: A plant in which the prime mover is a gas turbine. A gas turbine typically consists of an axial-flow air compressor, one or more combustion chambers where liquid or gaseous fuel is burned and the hot gases expand to drive the generator and then are used to run the compressor.

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. Water or steam extracted from geothermal reservoirs can be 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.

Household: A family, an individual, or a group of up to nine unrelated persons occupying the same housing unit. "Occupy" means that the housing unit is the person's usual or permanent place of residence.

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 foreign countries and from Puerto Rico, the Virgin Islands, and other U.S. possessions and territories.

Independent Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality which is a wholesale electricity producer that operates within the franchised service territory of a host electric utility and is usually authorized to sell at market-based rates. Unlike traditional electric utilities, independent power producers do not possess transmission facilities, unless authorized by law, nor do they sell electricity in the retail market. Independent power producers are considered to be nonutility power producers.

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; agriculture, forestry, and fisheries; mining; and construction. 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.

Injections (Natural Gas): Natural gas injected into storage reservoirs.

Institutional Living Quarters: Space provided by a business or organization for long-term housing of individuals whose reason for shared residence is their association with the business or organization. Such quarters commonly have both individual and group living spaces, and the business or organization is responsible for some aspects of resident life beyond the simple provision of living quarters. Examples include prisons; nursing homes and other long-term medical care facilities; military barracks; college dormitories; and convents and monasteries.

Internal Combustion Electric Power Plant: A power plant in which the prime mover is an internal combustion engine. Diesel or gas-fired engines are the principal types used in electric power plants. The plant is usually operated during periods of high demand for electricity.

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, 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 D910 and Military Specification MIL-G-5572. Note: Data on blending components are not counted in data on finished aviation gasoline.

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: 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.

Metallurgical Coal: Coking coal and pulverized coal consumed in making steel.

Methane: A hydrocarbon gas (CH₄) that is the principal constituent of natural gas.

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 spark-ignition. 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: Data on blending components, as well as oxygenates, are not counted in data on finished motor 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 oxygen-

ated 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.

Nameplate Capacity: The maximum design production capacity specified by the manufacturer of a processing unit or the maximum amount of a product that can be produced running the manufacturing unit at full capacity.

Naphtha: A generic term applied to a petroleum fraction with an approximate boiling range between 122 and 400° F.

Natural Gas: A mixture of hydrocarbons (principally methane) and small quantities of various nonhydrocarbons existing in the gaseous phase or in solution with crude oil in underground reservoirs.

Natural Gas, Dry: The marketable portion of natural gas production, which is obtained by subtracting extraction losses, including natural gas liquids removed at natural gas processing plants, from total production.

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 Capability: 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.

Nonutility Power Producer: A corporation, person, agency, authority, or other legal entity or instrumentality that owns or operates facilities for electric generation and is not an electric utility. Nonutility power producers include qualifying cogenerators, qualifying small power producers, and other nonutility generators (including independent power producers). Nonutility power producers are without a designated, franchised service area and do not file forms listed in the Code of Federal Regulations, Title 18, Part 141.

Nuclear Electric Power: Electricity generated by an electric power plant whose turbines are driven by steam generated in a reactor by heat from the fissioning of nuclear fuel.

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 the nuclear fission chain can be initiated, maintained, and controlled so that energy is released at a specific rate. The reactor includes fissionable material (fuel), such as uranium or plutonium; fertile material; moderating material (unless it is a fast reactor); a heavy-walled pressure vessel; shielding to protect personnel; provision for heat removal; and control elements and instrumentation.

Octane Rating: A number used to indicate gasoline's antiknock performance in motor vehicle engines. The two recognized laboratory engine test methods for de-

termining the antiknock rating of gasolines are the Research method and the Motor method. To provide a single number as guidance to the consumer, the antiknock index (R + M)/2, which is the average of the Research and Motor octane numbers, was developed.

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.

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.

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, MTBE, 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 generic term applied to oil and oil products in all forms, such as crude oil, lease condensate, unfinished oils, petroleum products, natural gas plant liquids, and nonhydrocarbon compounds blended into finished petroleum products.

Petroleum Coke: See Coke, Petroleum.

Petroleum Coke, Catalyst: The carbonaceous residue that is deposited on and deactivates the catalyst used in many catalytic operations (e.g., catalytic cracking). Carbon is deposited on the catalyst, thus deactivating the catalyst. The catalyst is reactivated by burning off the carbon, which is used as a fuel in the refining process. That carbon or coke is not recoverable in a concentrated form.

Petroleum Coke, Marketable: Those grades of coke produced in delayed or fluid cokers that may be recovered as relatively pure carbon. Marketable petroleum coke may be sold as is or may be further purified by calcining.

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: An approximate measure of consumption. It measures the disappearance of the products from primary sources, i.e., refineries, blending plants, and bulk terminals. In general, products supplied in any given period is computed as follows: field production, plus imports, plus unaccounted-for crude oil (plus net receipts when calculated on a PAD District basis) minus stock change, minus crude oil losses, minus refinery inputs, and minus exports. See also 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.

Pumped Storage: See Hydroelectric Pumped Storage.

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**.

Residual Fuel Oil: The heavier oils that remain after the distillate fuel oils and lighter hydrocarbons are distilled away in refinery operations and that conform to ASTM Specifications D396 and 975. Included are No. 5, a residual fuel oil of medium viscosity; Navy Special, for use in steam-powered vessels in government service and in shore power plants; and No. 6, which includes Bunker C fuel oil and is used for commercial and industrial heating, for electricity generation, and to power ships. Imports of residual fuel oil include imported crude oil burned as fuel.

Road Oil: Any heavy petroleum oil, including residual asphaltic oil used as a dust palliative and surface treatment on roads and highways. It is generally produced in

six grades, from 0, the most liquid, to 5, the most viscous.

Rotary Rig: A machine used for drilling wells that employs a rotating tube attached to a bit for boring holes through rock.

Short Ton (Coal): A unit of weight equal to 2,000 pounds.

SIC: See Standard Industrial Classification.

Small Power Producer: Under the Public Utility Regulatory Policies Act, a small power production facility (small power producer) generates electricity by using waste or renewable energy (biomass, conventional hydroelectric, wind, solar, and geothermal) as a primary energy source. Fossil fuels can be used, but renewable resources must provide at least 75 percent of the total energy input. See **Nonutility Power Producer.**

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**. Electricity produced from solar energy heats a medium that powers an electricity-generating device.

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.

Spent Liquor: The liquid residue left after an industrial process; can be a component of waste materials used as fuel.

Standard Industrial Classification (SIC): A set of codes developed by the Office of Management and Budget which categorizes industries into groups with similar economic activities.

Startup Test Phase of Nuclear Power Plant: A nuclear power plant that has been licensed by the Nuclear Regulatory Commission to operate but is still in the initial testing phase, during which the production of electricity may not be continuous. In general, when the electric utility is satisfied with the plant's performance, it formally accepts the plant from the manufacturer and places it in commercial operation status. A request is then submitted to the appropriate utility rate commission to include the power plant in the rate base calculation.

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 bu-

tane, butylene, propane, and propylene. It is used primarily as refinery fuel and petrochemical feedstock.

Strategic Petroleum Reserve (SPR): Petroleum stocks maintained by the Federal Government for use during periods of major supply interruption.

Subbituminous Coal: A coal that ranges in properties from those of lignite to those of bituminous coal. It may be dull, dark brown or black, soft and crumbly, at the lower end of the range, to bright, jet black, hard, and relatively strong, at the upper end. It is used primarily as fuel for steam-electric power generation. Subbituminous coal contains 20 to 30 percent inherent moisture by weight. The heat content of subbituminous coal ranges from 17 to 24 million Btu per ton on a moist, mineral-matter-free basis. The heat content of subbituminous coal consumed in the United States averages 18 million Btu per ton, on the as-received basis (i.e., containing both inherent moisture and mineral matter).

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.

Synthetic Natural Gas (SNG): A manufactured product chemically similar in most respects to natural gas, resulting from the conversion or reforming of petroleum hydrocarbons. It may easily be substituted for, or interchanged with, pipeline quality natural gas. Also referred to as substitute 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.

Unaccounted-for Crude Oil: 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, less 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: Unless otherwise noted, "United States" in this publication means 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.

Useful Thermal Output: The thermal energy made available for use in any industrial or commercial process, or used in any heating or cooling application, 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 base 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: Industrial, agricultural, and urban refuse used to generate electricity, such as municipal solid waste, landfill gas, methane, digester gas, liquid acetronitrile waste, tall oil, waste alcohol, medical waste, paper pellets, sludge waste, solid byproducts, tires, agricultural byproducts, closed loop biomass, fish oil, and straw.

Watt (W): The unit of electrical power equal to 1 ampere under a pressure of 1 volt. A watt is equal to 1/746 horsepower.

Watthour (Wh): The electrical energy unit of measure equal to 1 watt of power supplied to, or taken from, an electric circuit steadily for 1 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.

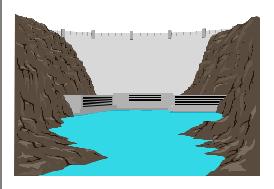
Well Servicing Unit: Truck-mounted equipment generally used for downhole services after a well is drilled. Services include well and recompletions, maintenance, repairs, workovers, and well plugging and abandonments. Jobs range from minor operations, such as pulling the rods and rod pumps out of an oil well, replacing the pump and rerunning the assemblage into the well, to major workovers, such as milling out and repairing collapsed casing. Well depth and characteristics determine the type of equipment used.

Wind Energy: The kinetic energy of wind converted into mechanical energy by wind turbines (e.g., blades rotating from a hub) that drive generators to produce electricity.

Withdrawals (Natural Gas): Total volume of gas withdrawn during the applicable reporting period.

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, black liquor, red liquor, spent sulfite liquor, pitch, wood sludge, peat, railroad ties, and utility poles.

Working Gas: The gas in a reservoir that is in addition to the base (cushion) 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 given season.



Renewable Energy Data

...from the Energy I nformation A dministration

The publications listed below all include data on renewable energy and are available in hard copy and in electronic form on the EIA Website at http://www.eia.doe.gov. EIA also makes available a wide variety of other energy-related resources. For more information, contact the National Energy Information Center at 202–586–8800 or infoctr@eia.doe.gov

Renewable Energy Annual 2000

In two volumes. *REA2000: Issues and Trends*, profiled in an Energy Plug in the March 2001 *Monthly Energy Review*, discusses four topics: government incentives, mandates, and programs; photovoltaic industry trends; environmental regulations and waste combustion facility costs; and wind energy developments. *REA2000 With Data for 1999* contains data on U.S. renewable energy consumption, solar thermal and photovoltaic collector manufacturing activity, and geothermal heat pump shipments.

Annual Energy Review

U.S. consumption of renewable energy by source from 1989 through 1999, plus data on solar thermal collector and photovoltaic module shipments and alternative fuel vehicles.

International Energy Annual

World (and often country-specific) production and consumption of renewable energy from hydroelectric, geothermal, solar, and wind sources.

State Data

State Energy Data Report includes State-level renewable energy data by source and sector for selected years from 1960 through 1997. State Energy Price and Expenditure Report includes price and expenditure estimates for wood and waste from 1990 through 1997.

Short-Term Energy Outlook

Summarizes most recent 2 years and projects next 2 years of U.S. renewable energy use by major consuming sector (electric utilities, nonutility power generators, residential and commercial users, industry, and transportation).

Annual Energy Outlook

Projections through 2020 of U.S. renewable electricity generation from hydroelectric power, municipal solid waste, biomass, wind, solar photovoltaic, solar thermal, and geothermal sources.

International Energy Outlook

Projections through 2020 of world consumption of renewable energy.

Integrated Historical Energy Data Reports

...from the Energy Information Administration

Monthly Energy Review

(www.eia.doe.gov/emeu/mer/contents.html)

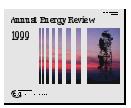
Recentmonthlydataon production, consumption, stocks, trade, and prices of the principal energy commodities in the United States.



Annual EnergyReview

(www.eia.doe.gov/emeu/aer/contents.html)

Long-termhistorical annual data on U.S. energy production, consumption, stocks, trade, and prices. Most series begin in 1949.



StateEnergyDataReport

(www.eia.doe.gov/emeu/sedr/contents.html)

Annualenergy consumption estimates at the State and national levels by energy source and by major sector (i.e., residential, commercial, industrial, transportation, and electricutilities), beginning with 1960.



State Energy Price and Expenditure Report

(www.eia.doe.gov/emeu/seper/contents.html)

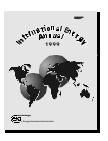
Annualenergypriceandexpenditureestimatesat the State and national levels by energy source and by major sector (i.e., residential, commercial, industrial, transportation, and electricutilities), beginning with 1970.



InternationalEnergyAnnual

(www.eia.doe.gov/emeu/iea/contents.html)

Annualdataforproduction, consumption, and trade of primary energy commodities in more than 220 countries, dependencies, and areas of special sovereignty. Also included are prices of crude oil and petroleum products in selected countries.



EIA alsopublishesmanyotherreports. Formoreinformation,contacttheNationalEnergyInformationCenterat 202-586-8800 orinfoctr@eia.doe.gov,oraccessEIA'sHomePage(www.eia.doe.gov).